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Faculty Senate Minutes 1989 - 1990

Missouri University of Science and Technology Faculty Senate

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AGENDA AND MINUTES
VOL. XIX, NOS. 1-7

TO THE READER:

This binder contains three sections per meeting. The agenda, with all corresponding material sent prior to the meetings, is the first section. In the second section, the Minutes, with all attachments (including those sent with the Agenda), are located. The last section contains meeting summarizations, pertinent memoranda, and, where necessary, a more detailed version of the Council Minutes.

In addition, I have prepared various items which may be of interest to you, the Reader. Located directly behind this preface are the following listings and indices (in order of appearance): the 1988-89 Academic Council meeting dates; the Voting and Non-Voting Members of the 1988-89 Academic Council; a Summary of the 1988-89 Referrals; the Index for the 1988-89 Minutes; and the Attachment Index both by subject and by meeting date.

A handwritten signature in cursive script, reading "Celia M. Brotherton".

Celia M. Brotherton
Office Secretary
5 December 1990



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March 29, 1990; XIX, 5; Attachment III.B.1



UNIVERSITY OF MISSOURI-ROLLA

Academic Council

Curtis Wilson Library
Rolla, Missouri 65401-0249
Telephone (314) 341-4972

1989 - 1990 MEETING DATES

Rules, Procedure and Agenda Committee

August 31, 1989	January 10, 1990
October 5, 1989	March 13, 1990
November 16, 1989	April 12, 1990
May 31, 1990	

Meetings were held in Room 125 of the Humanities-Social Sciences Building at 1:30 p.m.

Academic Council

September 14, 1989	February 1, 1990
October 19, 1989	March 29, 1990
November 30, 1989	April 26, 1990
June 14, 1990	

Meetings were held in Room G-5 of the Humanities-Social Sciences Building at 1:30 p.m.

General Faculty

September 5, 1989
December 5, 1989
April 24, 1990

Meetings were held in the Aaron Jefferson Miles Auditorium at 4:00 p.m.

University of Missouri Board of Curators

July 27-28, 1989	-----	Saint Louis
September 7-8, 1989	-----	Kansas City
October 12-13, 1989	-----	Columbia
December 7-8, 1989	-----	Columbia
January 24-25, 1990	-----	Jefferson City
March 22-23, 1990	-----	Saint Louis
May 3-4, 1990	-----	Rolla
June 21-22, 1990	-----	Springfield



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VOTING MEMBERS OF THE 1989-90 UMR ACADEMIC COUNCIL

COLLEGE OF ARTS & SCIENCES

John Huguley
Aerospace Studies

Frank Blum
Chemistry

Howard D. Pyron
Computer Science

Richard Bryant
Economics

Lance Williams
History & Political Science

Selden Trimble
Mathematics & Statistics

Sam Dent
Military Science

Mark Mullin
Physical Educ. & Recreation

Paul Parris
Physics

W. Lance Haynes
Applied Arts & Cultural Studies

D. Vincent Roach (President-Elect)
Chemistry

Arlan DeKock
Computer Science

Jim C. Fogue
English

Roger Brown
Life Science

Max Engelhardt
Mathematics & Statistics

W. Lance Haynes
Philosophy & Liberal Arts

Allan Pringle
Physics

Richard Hall
Psychology

SCHOOL OF MINES & METALLURGY

Harlan Anderson
Ceramic Engineering

Robert Laudon
Geology & Geophysics

Norman S. Smith
Mining Engineering

C. Dale Elifrits (Parliamentarian)
Geological & Petroleum Engineering

Donald Askeland (President)
Metallurgical Engineering

D. Ray Edwards
Nuclear Engineering

SCHOOL OF ENGINEERING

Ju-Chang Huang
Civil Engineering

Randy Moss
Electrical Engineering

Max Anderson
Electrical Engineering

Dan Babcock
Engineering Management

Daniel R. White
Basic Engineering

Bruce Selberg
Mechanical & Aerospace Engr. &
Engineering Mechanics

John W. Sheffield
Mechanical & Aerospace Engr. &
Engineering Mechanics

Charles D. Morris
Civil Engineering

Jerome Westphal (Secretary)
Civil Engineering

Thomas J. Herrick
Electrical Engineering

Henry Wiebe
Engineering Management

Neil L. Book
Chemical Engineering

Don Cronin
Mechanical & Aerospace Engr. &
Engineering Mechanics

Ronald Howell
Mechanical & Aerospace Engr. &
Engineering Mechanics

EX-OFFICIO MEMBERS

Martin C. Jischke
Chancellor

Marvin W. Barker
Dean of Arts & Science

Donald L. Warner
Dean of Mines & Metallurgy

Robert Davis
Dean of Engineering

John T. Park
Vice-Chancellor for Academic Affairs

Wendell Ogrosky
Vice-Chancellor for Student Affairs

Harry J. Sauer, Jr.
Dean of Graduate Studies



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NON-VOTING MEMBERS OF THE 1989-90 UMR ACADEMIC COUNCIL

UNDERGRADUATE STUDENT REPRESENTATIVES

Bill Smith

Eugene Bae

Luke Peterson

Kyle Corum

Bob Phillips, President
Student Council

GRADUATE STUDENT REPRESENTATIVES

Jim Minlitz

STAFF COUNCIL REPRESENTATIVES

Mitchell Cottrell, September

Bill White, October

Richard Turner, November

Debbie Middendorf, February

Bob Whites, March

Sherry Stroder, April

Virginia Ryle, June

EX-OFFICIO MEMBERS

Ronald Bohley, Director
Library & Learning Resources

Robert V. Wolf
ICFC Representative

David W. Dearth, Director
Computing Services

Walt Eversman
ICFC Representative

C. M. Heddinghaus, Manager
Institutional Research

Lynn Waggoner, Director
Public Information

Robert Lewis, Director
Admissions

Thomas Coffman, Vice-Chancellor
Development & Alumni Affairs

Myron G. Parry
Registrar

Neil Smith, Vice-Chancellor
Administrative Services



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October 19, 1989 XIX, 2	Budgetary Affairs (BA) - Faculty/Staff Benefit Changes BA - B.Sc. in Management Systems Curricula Committee - Report #2, 1989-90 Personnel Committee - Faculty/Staff Benefit Changes Personnel Committee - Conflict of Interest Policy Public Occasions Committee (PO) - Public Occasion Dates, 1990-91 & UMR Calendar 1991-92	III.B.1 III.B.2 III.C.1 III.D.1 III.D.2 III.E
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UNIVERSITY OF MISSOURI-ROLLA

Office of the Registrar

103 Parker Hall
Rolla, Missouri 65401-0249
Telephone (314) 341-4181

MEMO TO: Academic Council
FROM: Curricula Committee
SUBJECT: Meeting of August 31, 1989

EC1's Reviewed:

223-FS89-1850-301, Economics 301, Internship. Approved for Fall 1989. 0-6 hours credit. Prerequisites: Senior status; must have completed 24 hours in major.

225-WS90-1850-301, Economics 301, Government Regulation: Business & Industry. Approved for Winter 1990. 3 hours credit. Prerequisites: Pol Sci

226-WS90-0640-201, Philosophy & Liberal Arts 201, Studies in 19th Century French Art. Approved for Winter 1990. 3 hours credit. Prerequisites: Art 80/85 or consent of instructor.

227-FS89-1310-401, Civil Engineering 401, Reinforced Masonry Design. Approved for Fall 1989. 3 hours credit. Prerequisites: CE 320.

228-JA90-2110-201AML, English 201AML, The English Stage: Two Golden Ages. Approved for Intersession 1990. 2 hours credit. No prerequisites.

229-JA90-2110-201BML, English 201BML, British Theatre Today. Approved for Intersession 1990. 2 hours credit. No prerequisites.

230-JA90-3060-201ML, History 201ML, A Medieval Window: The Gothic Cathedral. Approved for Intersession 1990. 2 hours credit. No prerequisites.

231-JA90-0640-201ML, Liberal Arts 201ML, Art, Theatre and Dance in London. Approved Intersession 1990. 2 hours credit. No prerequisites.

233-WS90-2070-401, Engineering Management 401, Management of Technology. Approved for Winter 1990. 3 hours credit. Prerequisites: Graduate Standing, EMgt 314.

234-WS90-1310-301, Civil Engineering 301, Geotechnical Engineering for Waste Management. Approved for Winter 1990. 3 hours credit. Prerequisites: CE 215 with grade of "C" or better.

235- WS90-1310-301, Civil Engineering 301, Professional Aspects of Engineering Practice. Approved for Winter 1990. 3 hours credit.
Prerequisites: Senior Standing.

CCI's Reviewed:

CCI 3067, Engineering Management 377, Expert Systems in Manufacturing & Engineering. Co-list with CSci 377. Approved new course for Winter 1990. 3 hours credit. Prerequisites: Graduate or Senior Standing. Description reads: Introduction to symbolic models in autonomous manufacturing design using computer workstations; knowledge based problem solving in manufacturing, knowledge representation, automated reasoning, inferencing and representation of manufacturing entities, prototype expert system development for specific manufacturing applications using an expert system shell.

CCI 3125, CSci, Econ, and Psych, Management Systems. New Bachelor of Science degree program approved for Fall 1990.

3128 Chemistry 000, Minor Curriculum. Approved change for Winter 1990 in minor curriculum which may include Chem 8 and must include at least three credit hours of laboratory course work above the freshman level.

3129, Chemistry 051, Elementary Quantitative Chemical Analysis. Approved for Winter 1990. Change in prerequisite from Chem 3 & 8, to be accompanied by Chem 52 to Chem 3, to be accompanied by Chem 52.

3130, Chemistry 151, Quantitative Chemical Analysis. Approved for Winter 1990. Change in prerequisites from Chem 14, 241 to Chem 8, 241.

3131, Chemistry 221, Organic Chemistry I. Approved for Winter 1990. Change in prerequisites from Chem 3 or 14 to Chem 3 or 8.

3132, Chemistry 226, Organic Chemistry I Lab. Approved for Winter 1990. Change in prerequisites from Chem 14 or 8, preceded or accompanied by Chem 221 to Chem 8, preceded or accompanied by Chem 221.

3133, Chemistry 240, Physical Chemistry. Approved for Winter 1990. Change in prerequisites from Chem 14, Math/Stat 22, Phy 25 to Chem 51 and 52, Math/Stat 22, Phy 25.

3134, Chemistry 241, Physical Chemistry. Approved for Winter 1990. Change in prerequisites from Chem 14 or 51, and 52, Math/Stat 22, Phy 25 to Chem 51 and 52, Math 22, Phy 25.

3135, Philosophy 302, Internship-Philosophy. Approved new course for Winter 1990. 0-6 credit hours. Prerequisites: 12 hours of Phil. with Senior Status. Description: Internship will involve students applying critical thinking skills and discipline specific knowledge in a work setting based on a project designed by the advisor and employee. Activities will vary depending on the student's background and the setting.

3136, Computer Science 377, Expert Systems in Manufacturing & Engineering. Co-list with E. Mgt 377. Approved new course for Winter 1990. 3 hours credit. Prerequisites: Graduate or Senior Standing. Description: Introduction to symbolic models in autonomous manufacturing design using computer workstations, knowledge based problem solving in manufacturing, knowledge representation, automated reasoning, inferencing and representation of manufacturing entities, prototype expert system development for specific manufacturing applications using an expert system shell.

3137, Mathematics 202, Cooperative Work Training. Approved new course for Winter 1990. variable credit hours. No prerequisites. Description reads: On-the-job experience gained through cooperative education with industry. Variable credit arranged with the advisor. P/F grading option is required and maximum credit per semester is 3 hours, maximum for entire program is 6 hours.

3138, Economics 302, Internship. Approved new course for Winter 1990. 0-6 hours credit. Prerequisites: Senior status; must have complete 24 hours in major. Description reads: Internship will involve students applying critical thinking skills and discipline specific knowledge in a work setting based on a project designed by the advisor and employee. Activities will vary depending on the student's background and the setting.

3139, Engineering Graphics 212, Computer-Aided Drafting. Approved for Winter 1990. Prerequisites changed from None to EG 10. New description reads: Expanded use of the UMR computer workstation environments and the use and evaluation of several CAD/CAM software packages.

3140 Geological Engineering 350, Geological Engineering Design. Approved new course for Winter 1990. 1 hour lec; 2 hours lab. Prerequisites: To be taken in Winter before graduation. Description reads: Geological Engineering Design is an open-ended project course requiring the collection of data, analysis and synthesis of that data and design of a socially acceptable, economical solution to the selected problem. Oral and written reports are required.

3141, Geological Engineering 000. Approved curriculum change for Winter 1990. Curriculum reorganization and addition of a 3 credit hour humanities/social science elective and a senior design course to meet ABET requirements.

3142, Ceramic Engineering 261, Ceramic Engineering Design Lab I. Approved for Winter 1990. Change of course title. Change in description reads: Students working singly or in a small group with an advisor develop the design of a ceramic material and/or process. Modelling and statistical experiment design may be part of this planning activity.

3143, Ceramic Engineering 262, Ceramic Engineering Design Lab II. Approved for Winter 1990. Change of course title. Change in description reads: Designs marked out in Ceramic 261 are put into laboratory practice by the student. A formal thesis report format is required for credit to be obtained.

3145, Metallurgical Engineering 126, Metallurgy Computer Application Laboratory. Approved new course for Winter 1990. 1 hour credit. No prerequisites. Description reads: Introduction to the use of microcomputer for simulation, data acquisition and packaged software utilization in metallurgy.

This laboratory will provide the metallurgy student with the ability to fully utilize the potential of microcomputers in later courses.

3146, Metallurgical Engineering 215, Fundamentals of Metals Behavior. Approved for Winter 1990. New title. 3 hours credit. Prerequisites changed from Met 122 to Met 121. Change in description reads: An introduction to crystal structure, deformation, defects and thermal treatment; mechanical testing; fracture; fatigue and creep.

3147, Metallurgical Engineering 216, Metals Characterization Laboratory. Approved new course for Winter 1990. 1 hour credit. Prerequisites: Met 121 and accompanied by Met 215. Description reads: Introduction to the characterization of metals through the use of optical microscopy, x-ray diffraction, transmission electron microscopy and mechanical testing.

3148, Metallurgical Engineering 217, Metals Microstructural Development. Approved for Winter 1990. New title. Prerequisites changed from Met 215 to Met 215, Met 216. Credit hours change from 4 to 3. New description reads; Fundamentals of microstructural developments as relating to solid solutions, solidification and transformations; phase diagrams; case studies.

3149, Metallurgical Engineering 218, Metals Structures and Properties Laboratory. Approved new course for Winter 1990. 1 hour credit. Prerequisites: Met 215, Met 216, accompanied by Met 217. Description reads: Investigation of the relationships between microstructures and properties for various materials.

3150, Metallurgical Engineering 241, Principles of Mineral Processing. Approved for Winter 1990. Credit hours change from 3 to 2. Prerequisites change from Chem 3 to Met 121, Met 125. New description reads: Introduction to the principles of mineral processing including mineral resources; particle comminution, classification, separation and dewatering; flowsheet and equipment design.

3151, Metallurgical Engineering 242, Mineral Process Engineering. Approved for Winter 1990. Credit hours change from 1 hour lab to 1 hour lab and 1 hour lecture. New title. Change in description reads: Building from Met 241, this course will deal in detail with mineral processing design and calculations, and provide laboratory instruction in the areas of sampling, screening, crushing, grinding, classification, mineral separation and dewatering.

3152, Metallurgical Engineering 315, Metallurgical Process Design Principles. Approved new course for Winter 1990. 2 hours credit. Prerequisites: Met 221, Met 217, Met 355. Description reads: Application of mass, component and energy balances for metallurgical design. The fundamentals of engineering economic analysis will be examined and experimental design techniques will be introduced. Students will be prepared for the selection and planning of the subsequent design project.

3153, Metallurgical Engineering 316, Metallurgical Design Project. Approved new course for Winter 1990. 2 hours credit. Prerequisite: Met 315. Description reads: Students groups will undertake selected projects, which will represent a capstone design experience utilizing skills, understanding and data from previous courses. The faculty supervised open-ended design projects will involve a variety of tasks appropriate to the metallurgical engineer.

3154, Metallurgical Engineering 354, Metallurgical Process Simulation and Control. Approved for Winter 1990. Change in credit hours from 2 hr lec 1 hr lab to 1 hr lec and 1 hr lab. Prerequisites change from Met 203, Met 221 and Met 241 to Met 121, Met 125, Met 126. Change in description reads; Simulation of metallurgical processes through the use of theoretical and empirical models, numerical methods, and analog representation. Introduction to instrumentation, computer interfacing and process control theory.

3155, Metallurgical Engineering 000. Approved for Winter 1990. Curriculum reorganization to meet new ABET regulations and to update course content.

3156, Civil Engineering 211, Transportation Engineering. Approved for Winter 1990. Change in prerequisites from CE 1, 241 each with grade of "C" or better to CE 1 with grade of "C" or better and preceded or accompanied by CE 241.

3157, Engineering Management 211, Managing Engineering and Technology. Approved for Winter 1990. Change in course title. Change in description reads: Introduces the management functions of planning, organizing, motivating, and controlling. Analyzes the application of these functions in research, design, production, technical marketing, and project management. Studies evolution of the engineering career and the transition to engineering management.

3158, Psychology 302, Internship. Approved new course for Winter 1990. 0-6 hours credit. Prerequisites: Senior status; must have completed 24 hours in major. Description reads: Internship will involve students applying critical thinking skills and discipline specific knowledge in a work setting based on a project designed by the advisor and employee. Activities will vary depending on the student's background and the setting.

3159, History 302, Internship. Approved new course for Winter 1990. 0-6 hours credit. Prerequisites: Senior Status; must have completed 24 hours in major. Description reads: Internship will involve students applying critical thinking skills and discipline specific knowledge in a work setting based on a project designed by the advisor and employee. Activities will vary depending on the student's background and the setting.

3160, Physics 303, Planetary Physics. Approved deletion. Effective Fall 1989.

3161, Physics 404, Experimental Research Techniques. Approved deletion. Effective Fall 1989.

3162, Physics 405, Theoretical Physics I. Approved deletion. Effective Fall 1989.

3163, Physics 406, Theoretical Physics II. Approved deletion. Effective Fall 1989.

3164, Physics 415, Theoretical Mechanics II. Approved deletion. Effective Fall 1989.

3165, Physics 417, Advanced Statistical Mechanics. Approved deletion. Effective Fall 1989.

3166, Physics 425, Plasma Physics. Approved deletion. Effective Fall 1989.

3167, Physics 465, Relativistic Quantum Theory. Approved deletion. Effective Fall 1989.

3168, English 303, Internship. Approved new course for Winter 1990. 0-6 hours credit. Prerequisites: Senior status; must have completed 24 hours in the major. Description reads; Internship will involve students applying critical thinking skills and discipline specific knowledge in a work setting based on a project designed by the advisor and employee. Activities will vary depending on the student's background and the setting.

3169, Psychology 000, Approved curriculum change for Winter 1990. Changes curriculum by adding Clinical Psychology as an option for fulfilling the requirement for two courses in Applied Psychology.

3170, Engineering Management 317, Comparative and Multi-National Management. Approved new course for Winter 1990. 3 hours credit. Prerequisite: EMgt 211. Description reads: To provide management knowledge of multinational business and entrepreneurial skills for technically oriented students to manage innovative technologies in a global setting.

3171, Basic Engineering 150, Engineering Mechanics - Dynamics. Approved for Winter 1990. This course is being transferred from the ME, AE, and EM Department to the Basic Engineering Department.

3172, Mechanical Engineering 025, Mechanical Design. Approved for Winter 1990. This course has been transferred to the Mechanical Engineering Department. (EM 150) has been transferred to the Basic Engineering Department.

The following courses in Nuclear Engineering have been approved for deletion per memo dated July 3, 1989.

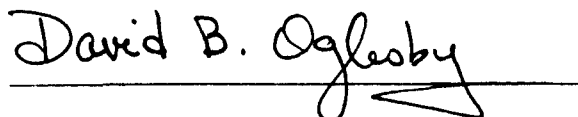
NE 001, Nuclear Energy I.

NE 002, Nuclear Energy II.

NE 222, Fluid Flow Laboratory.

NE 305, Current Topics in Reactor Physics.

NE 451, Advanced Reactor Kinetics.



David Oglesby, Chairman



UNIVERSITY OF MISSOURI-ROLLA

Attachment IV.B

Office of the Registrar

103 Parker Hall
Rolla, Missouri 65401-0249
Telephone (314) 341-4181

MEMO TO: Academic Council
FROM: Curricula Committee
SUBJECT: Meeting of August 31, 1989

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Attachment IV.B

This laboratory will provide the metallurgy student with the ability to fully utilize the potential of microcomputers in later courses.

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3149, Metallurgical Engineering 218, Metals Structures and Properties Laboratory. Approved new course for Winter 1990. 1 hour credit. Prerequisites: Met 215, Met 216, accompanied by Met 217. Description reads: Investigation of the relationships between microstructures and properties for various materials.

3150, Metallurgical Engineering 241, Principles of Mineral Processing. Approved for Winter 1990. Credit hours change from 3 to 2. Prerequisites change from Chem 3 to Met 121, Met 125. New description reads: Introduction to the principles of mineral processing including mineral resources; particle comminution, classification, separation and dewatering; flowsheet and equipment design.

3151, Metallurgical Engineering 242, Mineral Process Engineering. Approved for Winter 1990. Credit hours change from 1 hour lab to 1 hour lab and 1 hour lecture. New title. Change in description reads: Building from Met 241, this course will deal in detail with mineral processing design and calculations, and provide laboratory instruction in the areas of sampling, screening, crushing, grinding, classification, mineral separation and dewatering.

3152, Metallurgical Engineering 315, Metallurgical Process Design Principles. Approved new course for Winter 1990. 2 hours credit. Prerequisites: Met 221, Met 217, Met 355. Description reads: Application of mass, component and energy balances for metallurgical design. The fundamentals of engineering economic analysis will be examined and experimental design techniques will be introduced. Students will be prepared for the selection and planning of the subsequent design project.

3153, Metallurgical Engineering 316, Metallurgical Design Project. Approved new course for Winter 1990. 2 hours credit. Prerequisite: Met 315. Description reads: Students groups will undertake selected projects, which will represent a capstone design experience utilizing skills, understanding and data from previous courses. The faculty supervised open-ended design projects will involve a variety of tasks appropriate to the metallurgical engineer.

3154, Metallurgical Engineering 354, Metallurgical Process Simulation and Control. Approved for Winter 1990. Change in credit hours from 2 hr lec 1 hr lab to 1 hr lec and 1 hr lab. Prerequisites change from Met 203, Met 221 and Met 241 to Met 121, Met 125, Met 126. Change in description reads; Simulation of metallurgical processes through the use of theoretical and empirical models, numerical methods, and analog representation. Introduction to instrumentation, computer interfacing and process control theory.

3155, Metallurgical Engineering 000. Approved for Winter 1990. Curriculum reorganization to meet new ABET regulations and to update course content.

3156, Civil Engineering 211, Transportation Engineering. Approved for Winter 1990. Change in prerequisites from CE 1, 241 each with grade of "C" or better to CE 1 with grade of "C" or better and preceded or accompanied by CE 241.

3157, Engineering Management 211, Managing Engineering and Technology. Approved for Winter 1990. Change in course title. Change in description reads: Introduces the management functions of planning, organizing, motivating, and controlling. Analyzes the application of these functions in research, design, production, technical marketing, and project management. Studies evolution of the engineering career and the transition to engineering management.

3158, Psychology 302, Internship. Approved new course for Winter 1990. 0-6 hours credit. Prerequisites: Senior status; must have completed 24 hours in major. Description reads: Internship will involve students applying critical thinking skills and discipline specific knowledge in a work setting based on a project designed by the advisor and employee. Activities will vary depending on the student's background and the setting.

3159, History 302, Internship. Approved new course for Winter 1990. 0-6 hours credit. Prerequisites: Senior Status; must have completed 24 hours in major. Description reads: Internship will involve students applying critical thinking skills and discipline specific knowledge in a work setting based on a project designed by the advisor and employee. Activities will vary depending on the student's background and the setting.

3160, Physics 303, Planetary Physics. Approved deletion. Effective Fall 1989.

3161, Physics 404, Experimental Research Techniques. Approved deletion. Effective Fall 1989.

3162, Physics 405, Theoretical Physics I. Approved deletion. Effective Fall 1989.

3163, Physics 406, Theoretical Physics II. Approved deletion. Effective Fall 1989.

3164, Physics 415, Theoretical Mechanics II. Approved deletion. Effective Fall 1989.

3165, Physics 417, Advanced Statistical Mechanics. Approved deletion. Effective Fall 1989.

3166, Physics 425, Plasma Physics. Approved deletion. Effective Fall 1989.

3167, Physics 465, Relativistic Quantum Theory. Approved deletion. Effective Fall 1989.

3168, English 303, Internship. Approved new course for Winter 1990. 0-6 hours credit. Prerequisites: Senior status; must have completed 24 hours in the major. Description reads; Internship will involve students applying critical thinking skills and discipline specific knowledge in a work setting based on a project designed by the advisor and employee. Activities will vary depending on the student's background and the setting.

3169, Psychology 000, Approved curriculum change for Winter 1990. Changes curriculum by adding Clinical Psychology as an option for fulfilling the requirement for two courses in Applied Psychology.

3170, Engineering Management 317, Comparative and Multi-National Management. Approved new course for Winter 1990. 3 hours credit. Prerequisite: EMgt 211. Description reads: To provide management knowledge of multinational business and entrepreneurial skills for technically oriented students to manage innovative technologies in a global setting.

3171, Basic Engineering 150, Engineering Mechanics - Dynamics. Approved for Winter 1990. This course is being transferred from the ME, AE, and EM Department to the Basic Engineering Department.

3172, Mechanical Engineering 025, Mechanical Design. Approved for Winter 1990. This course has been transferred to the Mechanical Engineering Department. (EM 150) has been transferred to the Basic Engineering Department.

The following courses in Nuclear Engineering have been approved for deletion per memo dated July 3, 1989.

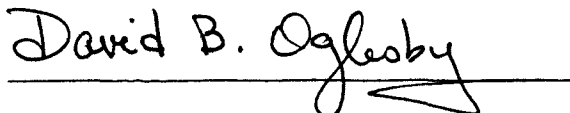
NE 001, Nuclear Energy I.

NE 002, Nuclear Energy II.

NE 222, Fluid Flow Laboratory.

NE 305, Current Topics in Reactor Physics.

NE 451, Advanced Reactor Kinetics.



David Oglesby, Chairman



UNIVERSITY OF MISSOURI-ROLLA

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UMR Faculty

A G E N D A

September 7, 1989

Academic Council Meeting, Thursday, September 14, 1989; 1:30 p.m.; G-5 H/SS.

- I. Approval of minutes of June 15, 1989, (VOL. XVIII, NO. 7) meeting.
- II. Election
 - A. 1989-90 Academic Council Officers:
 - Donald R. Askeland, President
 - D. Vince Roach, President-Elect
 - Jerome A. Westphal, Secretary
 - C. Dale Elifrits, Parliamentarian
- III. Reports and Responses
 - A. President's Report (5 min.) Don Askeland (4730)
 - B. Referrals
 - 1. Infrequently Taught Courses to the Curricula Committee
 - 2. Qualifications For Professorial Ranks to the Promotion and Tenure Committee and the Personnel Committee
 - 3. Procedures For Student Requests For Waivers Of Deadlines to the Student Affairs Committee
 - 4. Procedures for Academic Program Approval to the Curricula Committee
 - C. Administrative Reports
 - 1. Chancellor's Report on Current Developments (10 min.) Martin Jischke (4114)
 - 2. Vice-Chancellor's Report on UM Admission Standards (10 min.) John Park (4138)
- IV. Reports of Standing and Special Committees
 - A. .0406.01 Academic Assessment (5 min.) Robert Laudon (4466)
 - *1. Assessment Day Proposal
 - B. .0406.02 Academic Freedom (No Report) Len Koederitz (4794)
 - 1. Academic Freedom and Outside Teaching Assignment Administrative Response (June 15, 1989; XVIII, 7; II.B.4)
 - C. .0406.03 Admissions and Academic Standards (No Report) Thomas Herrick (4507)
 - 1. Revised Regulations for Removing a Student from Academic Probation (April 23, 1987; XVI, 8; IV.A.1)
 - 2. Excused Absence Procedure (May 5, 1988; XVII, 8; II.B.1)
 - D. .0406.05 Budgetary Affairs (5 min.) Carol Ann Smith (4869)
 - 1. Staff Benefits Planning Committee Report (June 15, 1989; XVIII, 7; II.B.3)

- E. .0406.09 Curricula (10 min.) David Oglesby (4598)
 - 1. CAPS and the Graduation Catalogue (June 25, 1987; XVI, 9; IV.A.1)
 - 2. Time Limitation of the Graduation Catalogue (June 25, 1987; XVI, 9; IV.A.2)
 - 3. Fee Structure Inequities (December 8, 1988; XVIII, 3; II.C.1)
 - *4. Report #1, 1989-90.

- F. .0406.15 Personnel (No Report) Vince Roach (4449)
 - 1. Staff Benefits Planning Committee Report (June 15, 1989; XVIII, 7; II.B.3)

- G. .0406.16 Public Occasions (No Report) Jerry Bayless (4151)
 - 1. Spring Break Schedule (June 15, 1989; XVIII, 7; II.B.2)

- H. .0406.18 Rules, Procedure and Agenda (15 min.) Lance Williams (4816)
 - 1. Staff Council Representation Resolution
 - 2. Standing Committee Elections

- I. Intercampus Faculty Council (5 min.) Jim Pogue (4784)

IV. Old Business

V. New Business

R, F & A Cmtt.
LW/cmb/8-31-89

Supplementary materials sent to Academic Council members and department chairmen.



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SUMMARY
UMR ACADEMIC COUNCIL MEETING
September 14, 1989

President Askeland reported that a number of groups are studying ways to improve the funding of the University. One of these groups includes UMR representatives Don Askeland, Lance Williams, and Bob Wolf. While discussions in this group are still in the early stages, it appears likely that the assistance of UMR faculty will be solicited in the near future. In addition, President Askeland reported that the proposed changes in the University's Staff Benefits package will be submitted for approval to the Board of Curators in December and consequently UMR's recommendation should be forwarded to the President as soon as possible. Associate Vice President Ken Hutchinson will be on campus Thursday, September 21 to present the report and to answer questions concerning the Benefits package. The presentations will be given in Miles Auditorium, 104 ME building, beginning at 9:30 am and 2:30 pm. All faculty and staff should plan to attend one of these sessions and forward any comments to their representatives on the Academic Council or Staff Council.

Chancellor Jischke announced that the proposal for the Ph.D in Aerospace Engineering has been sent to the University System for consideration. In addition, committees will be working to provide input on three important issues for the campus. These committees will discuss ways to (1) improve student retention, (2) stimulate undergraduate research on this campus, and (3) enhance the research environment on campus.

Vice Chancellor Park reviewed the recent developments in establishing admissions requirements for the University. Vice Chancellor Park, after some faculty input, has suggested that the admission requirements include a paragraph stating that the requirements are minimum requirements only and that individual programs may set higher requirements when necessary. Negotiations will continue with the other campuses this Fall, with a recommendation to the Board of Curators expected in December.

Budgetary Affairs reviewed the Staff Benefits proposal during the Summer and reported to Chancellor Jischke that the proposal represents an improvement compared to our current plan; however further improvements and further study in some areas are encouraged. The Curricula Committee report, which included the establishment of a BS degree in Management Systems, was approved by the Council. Professor Jim Pogue, newly elected chair of the Intercampus Faculty Committee, reported on the IFC retreat in mid-September.

Academic Council officers for 1989-90, elected during the meeting, are Don Askeland (President), Vince Roach (President-Elect), Jerome Westphal (Secretary), and Dale Elifrits (Parliamentarian). Committee elections were also conducted.

The Academic Council Office, 316-317 Library, will be open from 2:00 pm to 4:30 pm on Monday, Wednesday, and Friday.



REFERRALS SUMMARY FOR 1989-90

Acquisition/Use/Information on Faculty Teaching Responsibilities Policy for administrative response (December 8, 1988; XVIII, 3; III.A). REFERRED TO THE BLUE RIBBON COMMITTEE. Reports given by Walt Johnson (February 2, 1989; XVIII, 4; II.D) and (June 15, 1989; XVIII, 7; II.C.2). Report given by Vice-Chancellor Park (February 1, 1990; XIX, 4; II.D). REFERRED TO THE COMMITTEE ON EFFECTIVE TEACHING. Status report given by Dale Elifrits (June 14, 1990; XIX, 7; III.6).

Admission Performance Standards for administrative response (October 13, 1988; XVIII, 2; III.B). Report given by Chancellor Jischke (December 8, 1988; XVIII, 3; II.B.2). Report given by Vice-Chancellor Park (September 14, 1989; XIX, 1; III.C.2). Report given by Chancellor Jischke (February 1, 1990; XIX, 4; II.C.1).

Academic Assessment

Assessment Test Scheduling (April 26, 1990; XIX, 6; II.B.2).

Academic Freedom

Academic Freedom and Outside Teaching Assignments Administrative Response (June 15, 1989; XVIII, 7; II.B.4). Report received and accepted by Council (March 29, 1990; XIX, 5; III.A). REMOVED FROM AGENDA.

Admissions and Academic Standards

Admissions Standards (August 22, 1985; XV, 1; IV.A). Admissions Performance Standards (February 18, 1988; XVII, 6; II.B). Overview presented (March 24, 1988; XVII, 7; III.A.1). Recommendation presented to and approved by Council (October 13, 1988; XVIII, 2; III.B). REMOVED FROM AGENDA. Referred again (June 15, 1989; XVIII, 7; II.B.1). Recommendation to reaffirm previous proposal approved by Council (June 15, 1989; XVIII, 7; III.B). Review of Committee reaffirmation conducted and results endorsed by Council (November 30, 1989; XIX, 3; III.B). REMOVED FROM AGENDA.

Coop Training Requirements (October 19, 1989; XIX, 2; II.B.2) Recommendation presented to and approved by Council (June 14, 1990; XIX, 7; III.A.2). REMOVED FROM AGENDA

Admissions and Academic Standards, cont.

Excused Absence Procedure (May 5, 1988; XVII, 8; II.B.1).

Grade Point Average Rules (March 29, 1990; XIX, 5; II.B.2).
Recommendation presented to and approved by Council (June 14, 1990; XIX, 7; III.A.3). REMOVED FROM AGENDA.

Minimum Grade Procedures (April 26, 1990; XIX, 6; II.B.3).

Revised Regulations for Removing a Student from Academic Probation (April 23, 1987; XVI, 8; IV.A.1). Recommendation presented to and approved by Council (June 14, 1990; XIX, 7; III.A.1). REMOVED FROM AGENDA.

Budgetary Affairs

Staff Benefits Planning Committee Report (June 15, 1989; XVIII, 7; II.B.3). JOINTLY REFERRED TO THE PERSONNEL COMMITTEE.
Overview presented (September 14, 1989; XIX, 1; IV.A).
Recommendation presented to and approved by Council with editorial change (October 19, 1989; XIX, 2; III.B.1).
REMOVED FROM AGENDA.

Tuition Policy (March 29, 1990; XIX, 5; II.B.1). Report presented to Council. Motion to strike from agenda approved (June 14, 1990; XIX, 7; III.B.2). REMOVED FROM AGENDA.

Campus Safety

Hazardous Chemicals/Waste Materials Policy Draft (June 14, 1990; XIX, 7; II.B.1).

Curricula Committee

CAPS and the Graduation Catalogue (June 25, 1987; XVI, 9; IV.A.1). Report status announced (October 19, 1989; XIX, 2; III.C). Overview presented to Council. Motion to strike from agenda approved (February 1, 1990; XIX 4; III.A.1).
REMOVED FROM AGENDA.

Fee Structure Inequities - Course Co-listings (December 8, 1988; XVIII, 3; II.C.1). Report status announced (October 19, 1989; XIX, 2; III.C). Overview presented to Council. Motion to strike from agenda approved (February 1, 1990; XIX, 4; III.A.3). REMOVED FROM AGENDA.

Curricula Committee, cont.

Infrequently Taught Courses (September 14, 1989; XIX, 1; III.B.1). Report status announced (October 19, 1989; XIX, 2; III.C). Recommendation presented to and approved by Council (February 1, 1990; XIX, 4; III.A.4). REMOVED FROM AGENDA.

Procedures for Academic Program Approval (September 14, 1989; XIX, 1; III.B.4). Report status announced (October 19, 1989; XIX, 2; III.C). Motion to strike from the agenda approved (February 1, 1990; XIX, 4; III.A.5). REMOVED FROM AGENDA.

Time Limitation of the Graduation Catalogue (June 25, 1987; XVI, 9; IV.A.2). Report status announced (October 19, 1989; XIX, 2; III.C). Recommendation presented to but tabled by Council (February 1, 1990; XIX, 4; III.A.2). Recommendation untabled. Substitute motion presented. Motion to retable approved (March 29, 1990; XIX, 5; III.B.1). Recommendation untabled. Substitute motion presented to and approved by Council (April 26, 1990; XIX, 6; III.A.1). REMOVED FROM AGENDA.

Personnel Committee

College of Arts and Sciences Dean Search - Faculty Resolution (April 26, 1990; XIX, 6; II.B.1). JOINTLY CONSIDERED BY COMPROMISE COMMITTEE. Recommendation presented to and accepted by Council (April 26, 1990; XIX, 6; III.B). Motion to ratify tabled (April 26, 1990; XIX, 6; IV.A). Compromise Committee report received (April 26, 1990; XIX, 6; V.A). REMOVED FROM AGENDA.

Conflict of Interest Policy (February 2, 1989; XVIII, 4; II.B.1). Recommendation presented to and approved by Council (March 23, 1989; XVIII, 5; III.C). REMOVED FROM AGENDA. Revised policy referred to Committee (October 19, 1989; XIX, 2; II.B.1). Recommendation presented to and approved by Council (October 19, 1989; XIX, 2; III.D.2). Policy status reported (March 29, 1990; XIX, 5; III.A).

Faculty Evaluation of Department Chairs (March 29, 1990; XIX, 5; II.B.3).

Personnel Committee, cont.

Harassment Policy (April 20, 1989; XVIII, 6; II.C.2). Recommendation received and approved by Council (June 15, 1989; XVIII, 7; III.E). REMOVED FROM AGENDA. Policy revision referred to Committee (February 1, 1990; XIX, 4; II.B.2). Recommendation presented to and approved by Council (February 1, 1990; XIX, 4; III.B.2). REMOVED FROM AGENDA. UM policy proposal referred (June 14, 1990; XIX, 7; II.B.3). Report presented to Council (June 14, 1990; XIX, 7; III.D.2). REMOVED FROM AGENDA.

Non-Regular Academic Appointment Policy (February 1, 1990; XIX, 4; II.B.1). Recommendation presented to and approved by Council (February 1, 1990; XIX, 4; III.B.1). REMOVED FROM AGENDA.

Qualifications for Professorial Ranks (September 14, 1989; XIX, 4; III.B.2). JOINTLY REFERRED TO THE PROMOTION AND TENURE COMMITTEE. Overview presented (March 29, 1990; XIX, 5; III.C.3). Recommendation on the Policy Memo II-10 revision approved by Council (June 14, 1990; XIX, 7; III.D.1). Resolution to disallow academic personnel transfer to the extension program returned to Committee for reconsideration (June 14, 1990; XIX, 7; III.D.1). REMOVED FROM AGENDA.

Staff Benefits Planning Committee Report (June 15, 1989; XVIII, 7; II.B.3). JOINTLY REFERRED TO THE BUDGETARY AFFAIRS COMMITTEE. Recommendation presented and approved as part of the Budgetary Affairs Committee report (October 19, 1989; XIX, 2; III.B.1) and (October 19, 1989; XIX, 2; III.D.1). REMOVED FROM AGENDA.

Promotion and Tenure

Qualifications for Professorial Ranks (April 20, 1989; XVIII, 6; II.C.1). Report presented (June 15, 1989; XVIII, 7; III.H.2). Again referred (September 14, 1989; XIX, 1; III.B.2). REFERRED JOINTLY TO THE PERSONNEL COMMITTEE. Committee guidance presented within the Personnel Committee report (June 14, 1990; XIX, 7; III.D.1). REMOVED FROM AGENDA.

Public Occasions

Spring Break Schedule (June 15, 1989, XVIII, 7; II.B.2)

Student Affairs

Procedures for Student Requests for Waivers of Deadlines (September 14, 1989; XIX, 1; III.B.3). Motion to table recommendation approved (April 26, 1990; XIX, 6; III.C.2). Recommendation untabled and approved by Council (June 14, 1990; XIX, 7; III.F). REMOVED FROM AGENDA.

Student Awards and Financial Aid

Unofficial Withdrawal Policy (June 14, 1990; XIX, 7; II.B.2).



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VOL. XIX, NO. 1
September 14, 1989

SUMMARY of the reports, actions, referrals and announcements made at the meeting of the Academic Council held on September 14, 1989.

1. Approval of minutes of the June 15, 1989, Council meeting.
2. Elections.
 - A. 1989-90 Academic Council officers - L. Williams
 - B. Rules, Procedure and Agenda - L. Williams
 1. Staff Council representation
 2. Standing and special committee election
3. Reports and responses.
 - A. President's report - D. Askeland
 - B. Referrals
 1. Infrequently taught courses to the Curricula Committee
 2. Qualifications for professorial ranks to the Promotion and Tenure Committee and the Personnel Committee
 3. Procedures for student requests for waivers of deadlines to the Student Affairs Committee
 4. Procedures for academic program approval to the Curricula Committee
 - C. Administrative reports
 1. Chancellor's report - M. Jischke
 2. UM admission standards - J. Park (Attachment III.C.2)
4. Reports of standing and special committees.
 - A. Budgetary affairs - C. A. Smith
 1. Staff benefits planning committee report
 - B. Curricula - D. Oglesby
 1. Report No. 1, 1989-90
 - a. Eleven experimental courses presented
 - b. Twenty-two course/curriculum changes approved
 - c. Twenty-one new courses approved
 - d. Eight course deletions approved (Attachment IV.B)
 - C. Intercampus Faculty Council (ICFC) - J. Pogue

Attachments: III.C.2
IV.B



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VOL. XIX, NO. 1
September 14, 1989

XIX, 1 The September 14, 1989, meeting of the Academic Council was
.1 called to order at 1:33 p.m. by Prof. Donald R. Askeland,
Academic Council President-elect. Prof. John Kincaid was
recognized as substituting for Prof. Jerry Westphal. A
motion to approve the June 15, 1989, minutes was made,
seconded, and approved.

XIX, 1 ELECTIONS.
.2

A. 1989-90 ACADEMIC COUNCIL OFFICERS. Prof. Lance
Williams, Chair of the Rules, Procedure and Agenda
Committee, submitted for approval this slate of
nominees: Donald R. Askeland for President; D. Vincent
Roach for President-elect; Jerome A. Westphal for
Secretary; and C. Dale Elifrits for Parliamentarian.
President-elect Askeland requested nominations from the
floor. Hearing none, Prof. D. Ray Edwards moved that
nominations cease and the slate be elected by
acclamation. Prof. Williams seconded the motion, which
carried.

B. RULES, PROCEDURE AND AGENDA.

1. STAFF COUNCIL REPRESENTATION. Upon President
Askeland's invitation, Prof. Elifrits moved to
change the agenda sequence so as to complete
committee elections by this meeting's end. The
motion was seconded by Prof. Edwards and approved.
Prof. Williams moved to recognize a non-voting seat
for UMR's Staff Council. Prof. Edwards provided the
second, and the motion carried. Mr. Mitchell
Cottrell, Senior Electronics Research Technician,
was then recognized as Staff Council's representa-
tive.

2. STANDING AND SPECIAL COMMITTEE ELECTION. Prof.
Williams outlined the committees to which
representatives would be elected. President
Askeland announced that these representatives would
be elected by majority vote. Nominations from the
floor were requested; none were received.

The following were elected to Standing Committees:
Roger Brown, Thomas Herrick, and Jerome Westphal to
Admissions and Academic Standards (Jerome Westphal
was chosen over C. Dale Elifrits, who had more
votes but was already a member of the Committee);
Arlan DeKock and Charles Morris to Budgetary
Affairs; Selden Trimble to Curricula; Daniel White,
an equal opportunity institution

Donald Cronin, and Harlan Anderson to Facilities Planning; Lance Haynes and Frank Blum to Personnel; Jim Pogue, Randy Moss, and D. Ray Edwards to Rules, Procedure and Agenda; Ronald Howell, Mark Mullin, and Bill Smith (Student) to Student Affairs; John Sheffield, Robert Laudon, and Richard Bryant to Student Awards and Financial Aids; and Norman Smith, Allan Pringle, and Henry Wiebe to Student Scholastic Appeals.

The following were elected to Special Committees: Jack Emanuel, Lenn Koederitz, Darrell Ownby, Robert Wolf, and Terry Lehnhoff to Grievance Hearing Panel; and Franklin Cheng, Thomas O'Keefe, and Glen Haddock to Campus Exigency.

XIX, 1 REPORTS AND RESPONSES.

.3

A. PRESIDENT'S REPORT. Since the last Academic Council meeting, there have been three Board of Curator meetings. President Askeland reported the finalization of this year's budget and the proposal of next year's budget (includes approximately \$20 million for costs to continue; \$20 million for base repair and \$20 million for new programs). The Board has indicated that reallocation will continue and that additional funding for the university is required. Toward this end, several committees have been established to view funding from different angles (tax initiatives, et cetera). Profs. Robert Wolf, Lance Williams, and Donald Askeland represent UMR on one of these advisory committees.

The faculty and staff benefits proposal has been completed and presented to the Board as an informational item. On Thursday, Sept 21, by invitation from UMR Academic and Staff Councils, Ken Hutchinson, Associate Vice-President for U-Wide Human Resource Services, will present this package during two sessions in Miles Auditorium. Upon Board approval (probably their December meeting), President Magrath hopes that the recommendation will become effective immediately. Academic Council members should relay any comments to Prof. Roach, Personnel Committee Chair, and/or to Prof. C. A. Smith, Budgetary Affairs Chair. Consideration of the proposal is slated for this Council's October meeting.

Dr. Margaret Barr, Vice Chancellor of Student Affairs at Texas Christian University, will talk about "Student

Success for the 90's" in the Missouri Room on Friday, September 22 (10:45-Noon).

Vice Chancellor John Park has requested (by October 1) comments and/or recommendations concerning the faculty activities report form which is completed by faculty each Spring; and Chancellor Martin Jischke requests input (by September 26) on the revised Conflict of Interest draft. A copy of the draft, along with a reminder, is being circulated to all Council members.

President Magrath planned, at the last Board of Curators meeting, to propose a holiday for Martin Luther King's birthday in exchange for one personal leave day per year. This recommendation was withdrawn but will likely be resubmitted at a later Board meeting.

B. REFERRALS.

1. INFREQUENTLY TAUGHT COURSES to the Curricula Committee.
2. QUALIFICATIONS FOR PROFESSORIAL RANKS to the Promotion and Tenure Committee and the Personnel Committee.
3. PROCEDURES FOR STUDENT REQUESTS FOR WAIVERS OF DEADLINES to the Student Affairs Committee.
4. PROCEDURES FOR ACADEMIC PROGRAM APPROVAL to the Curricula Committee.

C. ADMINISTRATIVE REPORTS.

1. CHANCELLOR'S REPORT. Chancellor Jischke informed Council members that the Aerospace Ph.D. proposal is to be reviewed by U-Wide Graduate Deans; that Vice Chancellor Park chairs a committee of faculty, students, and administrators in order to review ways to enhance the research environment on this campus; that the Retention Committee, chaired by Vice Chancellor Wendell Ogrosky, has been expanded and urged to undertake a comprehensive review of current information and effectiveness of current practices influencing retention; and that Profs. Randy Moss, Walt Eversman, Delbert Day, Don Askeland, Larry Christenson, Harry Sauer, and Don Sparlin (Chair) will form a committee to structure guidelines for an undergraduate research program (faculty suggestions will be welcomed).

In response to Prof. Thomas Herrick's inquiry, Chancellor Jischke reported that Drs. Richard Wallace, John Park, and Bob Davis are working with Drs. Tom Jones and Blanch Touhill of UMSL toward a

proposal draft of an engineering program in Saint Louis.

2. UM ADMISSION STANDARDS. Vice Chancellor Park reported that since this Council passed its admission standards recommendation (See Attachment III.C.2.a), UMC developed a sliding standards scale (III.C.2.b) which allows admission personnel, depending upon student Class Rank and ACT Score, to discount one criteria or the other. The average HSCRFP and ACT percentile sum is about 85, according to this scheme. In addition, UMC proposed that an additional exceptions paragraph (III.C.2.c) be included. According to Vice Chancellor Park, both UMKC and UMSL lean toward the UMC proposal, leaving UMR as the "odd person out." The chair of UMR's Admission and Academic Standards Committee, along with Vice Chancellor Park and Council President Askeland, were then asked by Vice President Richard Wallace to submit a paragraph addition which would make the proposed standards more acceptable. President Askeland penned one such paragraph (III.C.2.d). However, in Vice Chancellor Park's opinion, our submission was not met with enthusiasm and "compromise" with UM and UM's return paragraph suggestion (III.C.2.e) might not be "too bad." Additional amendments to UMC's sliding HSCRFP and ACT scale proposal were suggested by Council President Askeland (III.C.2.f). A possible replacement for Vice President Wallace's paragraph was also submitted by President Askeland (III.C.2.g). In light of these continuing discussions, action by the Board of Curators has been delayed until December. It is expected that a unified proposal will be submitted to all campuses along with data (student success compared with admission standards) with which to evaluate the proposal. In discussion, it was pointed out that the Knight report outlined one university with four distinctive campuses. Why should four distinct campuses have the same admission standards? (Attachment III.C.2)

XIX, 1 REPORTS OF STANDING AND SPECIAL COMMITTEES.

.4

A. BUDGETARY AFFAIRS.

1. STAFF BENEFITS PLANNING COMMITTEE REPORT. Prof. Carol Ann Smith reported that her Committee met on

July 6. As it was understood then that a quick response was necessary (the matter will be brought up before the Board of Curators in December), a memorandum to Chancellor Jischke was sent shortly thereafter indicating that "the proposed plan was an improvement but further improvement was needed." In addition to Prof. Bruce Selberg's memorandum of May 23, 1989, criticizing the plan (planning committee itself was underrepresented by the faculty; the proposal addresses hiring problems in the 1990's; and, the proposal targets the objective of 30 years service with no apparent option), Budgetary Affairs Committee members believe that further studies ought to be conducted with regards to survivor benefits, mental health benefits, inflationary increases, wellness programs, and the State of Missouri Retirement Plan (currently being studied).

In order to conduct Committee business during the Summer months and the beginning of the new academic year, Prof. Smith expressed the need to have Committee membership established earlier and asked that the Rules, Procedure and Agenda Committee consider moving elections to the Council's Summer meeting.

B. CURRICULA.

1. REPORT NO. 1, 1989-90. Prof. David Oglesby introduced the Curricula Committee's report. Prof. C. Dale Elifrits moved for approval, and a second to his motion was received.

Comments regarding the proposed new courses of Met Engr 215, 216, 217, and 218 were heard from Prof. H. Phillip Leighly. Among his points were that Met Engr 213 (a three-hour course) would be replaced by Met Engr 216 (a one-hour course); that Met Engr 215, 217, and 218 had no context--they would be "empty-time slots;" and, that he, as the instructor of Met Engr 213, was denied involvement in this course reorganization. In rebuttle, Prof. John Watson indicated that the entire Met Engr course sequence was reduced from ten hours to eight after much deliberation in which Prof. Leighly had ample opportunity for input.

Per Prof. Edward's inquiry, it was noted that CC1 3166, Physics 425, Plasma Physics would be deleted from Physics' curriculum only.

CC1 3125, a new bachelor degree program in Management Systems, was questioned for being untimely presented in lieu of Budgetary Affairs Committee's previously approved resolution asking for no new programs until the base budget is restored. Engineering Management representatives pointed out that an additional FTE was necessary to offer the course load associated with these new courses and currently untaught prerequisites. The program would also overlap the current Engineering Management degree. An amending motion was presented to ask the Curricula Committee to reconsider CC1 3125 with regards to prerequisites and course loading. The amendment was seconded, but failed.

The full report was approved by Council.
(Attachment IV.B)

- C. INTERCAMPUS FACULTY COUNCIL (ICFC). Prof. Jim Pogue reported that ICFC's mini retreat was held at the President's home and that the role of this Council was the primary subject. The President's perception of ICFC's possible roles was: (1) a Systems faculty advisory body on policy for President and staff; (2) a vehicle for communication from the faculty bodies to the President; (3) an informed participant in the system's budgetary process; (4) a sounding board for the impact on the university with regards to important social trends; and (5) setting agenda items for ICFC and President's staff discussions. The major item of concern in this discussion was, How can ICFC better serve both the President and the Faculty as a link between the two?

Also discussed were: possible 1989-90 agenda items (staff benefits improvement package, bias toward individual campus problems versus university-wide problems, the budget, and multi-campus funds); the U-Wide effort towards additional funding; the quality of certain programs (for example, Weldon Springs Fund); the one-university concept; and the sufficiency of undergraduate programs at UMSL.

The meeting adjourned at 3:04 p.m.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Donald R. Askeland". The signature is written in a cursive, somewhat stylized font.

Donald R. Askeland
President

Attachments: III.C.2
IV.B

*Minutes of the Academic Council Meeting are considered official notification and documentation of actions approved.



UNIVERSITY OF MISSOURI-ROLLA

Academic Council

Curtis Wilson Library
Rolla, Missouri 65401-0249
Telephone (314) 341-4972

June 8, 1989

ASSESSMENT DAY RESOLUTION

The Academic Assessment Committee recommends to the Council that an "Assessment day off" be granted during the Spring semester on the Friday before preregistration for the Fall semester. To compensate for this day off, a day must be added to the semester, either at the beginning of the semester, at the end of the semester, or from one of the present holidays. It is understood that "Assessment day off" is not the same as "Assessment Day." Students who do not fulfill their assessment requirements on "Assessment Day" must do so on "Assessment day off."

Robert Laudon
Chair

RL/cmb

If the SUM of the high school class rank percentile and aptitude examination percentile is:

120 or greater

the student is directly admissible. However, the University placement process may require remediation and reduced schedules for some students.

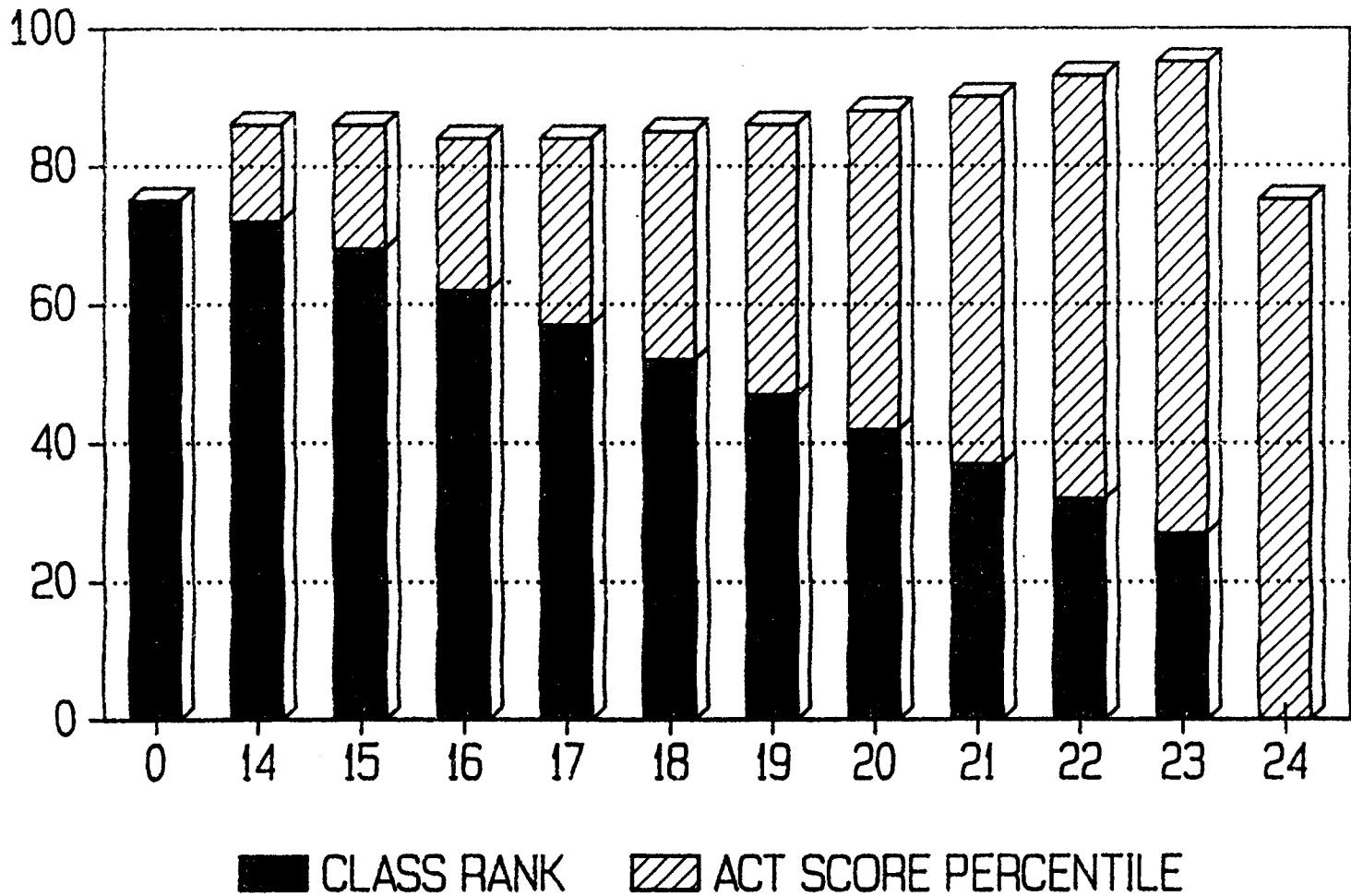
100 - 120

students in this range are frequently at high risk in successfully completing University level work. Students in this category may be admitted, but will receive advising, recommendations for remediation, and reduced academic schedules.

less than 100

students in this range are normally admissible only after additional academic development which is not available at UMR. Students in this category may later apply to UMR through the Transfer Student Program.

PROPOSED ADMISSION STANDARD



THE UNIVERSITY SEEKS A HETEROGENEOUS STUDENT BODY REFLECTING DIVERSITY OF RACE, ETHNICITY, AGE, GEOGRAPHY, (INCLUDING INTERNATIONAL STUDENTS) AND PHYSICAL DISABILITY. FACTORS GIVEN PRIME CONSIDERATION FOR ADMISSION TO UNDER-GRADUATE STUDY ARE AN APPLICANT'S PREVIOUS ACADEMIC SUCCESS AND THE QUALITY OF THE RECORD PRESENTED. WHEN CONSIDERING AN INDIVIDUAL FOR NON-REGULAR ADMISSION, OTHER FACTORS CONSIDERED MAY BE:

- EXTENSIVE EXTRACURRICULAR ACTIVITY INVOLVING SCHOOL, CHURCH, OR COMMUNITY
- OUTSTANDING TALENT AND/OR ABILITIES
- NUMBER AND SCOPE OF COLLEGE PREPARATORY COURSES TAKEN
- EVIDENCE OF MARKED IMPROVEMENT OVER TIME IN HIGH SCHOOL ACADEMIC RECORD
- SIGNIFICANT WORK EXPERIENCE AND/OR FAMILY RESPONSIBILITIES
- SUPPORTING EVIDENCE ATTESTING TO ONE OR MORE OF THE ABOVE IN STUDENT'S OWN HAND (IN THE FORM OF AN ESSAY)

ADMISSIONS STANDARDS REVISION

Meeting these minimum requirements does not guarantee admission to all campuses and academic programs. . Furthermore, some students who satisfy these minimum requirements may have a low probability for successfully completing a degree in many academic programs.

Consequently, individual campuses or departments within a campus of the University may establish additional admission requirements. In such cases, students will be provided with supplemental counseling and information on their estimated probability for success on that campus or in that department.

ADMISSIONS STANDARDS REVISION

Some students who satisfy these minimum requirements may have a low probability of completing the requirements for specific programs. Consequently, additional admission requirements may be established for such programs. For these programs, students will be provided with supplemental counseling and information indicating the probability for success.

Revisions to UMC's proposal:

1. eliminate the sliding HSCRП and ACT scale and replace with a single number that represents the sum of the two percentiles -- the sliding scale seems needlessly complicated. Based on the scale, the average sum might be about 85.
2. if the sliding scale can't be eliminated, at least some minimum ACT score should be required of students with an HSCRП percentile of >75.
3. the "other factors considered" for non-regular admission should not be itemized.
4. Tom and I would like to have some type of number in the paragraph for (a) fairness to applicants, (b) pointing out that "some students" refers to students with poor rank and test scores, and (c) leaving room for negotiation. Perhaps:

Although students who satisfy these minimum requirements qualify for regular admission to the University, many students who have a combined sum of HSCRIP and ACT percentiles below 120 may have a low probability of completing the requirements for specific programs. Consequently, additional admission requirements may be established for such programs. For these programs, students in this high-risk category will be provided with supplemental counseling, information indicating the probability for success, and advice on how best to prepare for entering these programs.

(to replace Wallace's paragraph, which reads: Some students who satisfy these minimum requirements may have a low probability of completing the requirements for specific programs. Consequently, additional admission requirements may be established for such programs. For these programs, students will be provided with supplemental counseling and information indicating the probability for success.)

From Dr. Don Askeland



UNIVERSITY OF MISSOURI-ROLLA

Academic Council

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June 8, 1989

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Robert Laudon
Chair

RL/cmb

BALLOT FOR ELECTION OF COUNCIL OFFICERS AND STANDING COMMITTEE MEMBERS

Admissions & Academic Standards
(elect three)

----- Roger Brown, Life Sciences
 ----- Thomas Herrick, Elec Engr
 ----- Neil Book, Chemical Engr
 ----- C. Dale Elifrits, Geol Engr
 ----- Jerome Westphal, Civil Engr

Rules, Procedure & Agenda
(elect one from each school/college)

A&S ----- Howard Pyron, Comp Sci
 ----- Jim Pogue, English

 ENGR ----- Randy Moss, Elec Engr

 M&M ----- Ray Edwards, Nuc Engr

Budgetary Affairs (elect two)

----- Arlan DeKock, Computer Sci
 ----- Bruce Selberg, Mech & Aero
 ----- Charles Morris, Civil Engr
 ----- Daniel Babcock, Engr Mgmt

Student Affairs (elect two faculty)

----- Howard Pyron, Comp Sci
 ----- Ronald Howell, Mech & Aero
 ----- Mark Mullin, Phys Ed & Rec
 ----- Richard Hall, Psychology

Curricula (elect one)

----- Max Engelhart, Math & Stat
 ----- Selden Trimble, Math & Stat
 ----- Max Anderson, Elec Engr
 ----- Harlan Anderson, Cer Engr

Student Affairs (elect one student)

----- Eugene Bae
 ----- Bill Smith

Facilities Planning (elect three)

----- Daniel White, Basic Engr
 ----- Donald Cronin, Mech & Aero
 ----- Harlan Anderson, Cer Engr
 ----- Paul Parris, Physics

Student Awards & Financial Aids
(elect three)

----- John Sheffield, Mech & Aero
 ----- John Huguley, Aero Studies
 ----- Robert Laudon, Geol & Geophys
 ----- Richard Bryant, Economics

Personnel (elect two)

----- Lance Haynes, Phil & Lib Art
 ----- Donald Cronin, Mech & Aero
 ----- Frank Blum, Chemistry

Student Scholastic Appeals
(elect three)

----- Sam Dent, Military Science
 ----- Norman Smith, Mining Engr
 ----- Allan Pringle, Physics
 ----- Henry Wiebe, Engr Mgmt

BALLOT FOR ELECTION OF COUNCIL OFFICERS AND STANDING COMMITTEE MEMBERS

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 ----- Norman Smith, Mining Engr
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 ----- Henry Wiebe, Engr Mgmt

BALLOT FOR ELECTION OF FACULTY MEMBERS TO STANDING COMMITTEES

Grievance Hearing Panel (elect five, but only one from each department)

English	Geological Engineering	Metallurgical Engineering
_____ John Morgan	_____ Len Koederitz	_____ Robert Wolf
_____ Mary Boyd	_____ Cary McConnell	
Civil Engineering	Ceramic Engineering	Mechanical & Aerospace
_____ Jack Emanuel	_____ Len Rahaman	_____ Charles Edwards
_____ Shamsher Prakash	_____ Darrell Ownby	_____ Terry Lehnhoff
Mathematics & Statistics		
	_____ Leon Hall	
	_____ Gus Garver	

Campus Exigency Committee (elect three, one from each school/college)

Engineering	Mines & Metallurgy	Arts & Sciences
_____ Xavier Avula	_____ Thomas O'Keefe	_____ Lawrence Christensen
_____ Franklin Cheng	_____ John Rockaway	_____ Charles Finley
	_____ Norman Smith	_____ Glen Haddock
	_____ Darrell Ownby	_____ Vincent Roach
		_____ Michael Patrick
		_____ William Parks
		_____ David Oakley

BALLOT FOR ELECTION OF FACULTY MEMBERS TO STANDING COMMITTEES

Grievance Hearing Panel (elect five, but only one from each department)

English	Geological Engineering	Metallurgical Engineering
_____ John Morgan	_____ Len Koederitz	_____ Robert Wolf
_____ Mary Boyd	_____ Cary McConnell	
Civil Engineering	Ceramic Engineering	Mechanical & Aerospace
_____ Jack Emanuel	_____ Len Rahaman	_____ Charles Edwards
_____ Shamsher Prakash	_____ Darrell Ownby	_____ Terry Lehnhoff
Mathematics & Statistics		
	_____ Leon Hall	
	_____ Gus Garver	

Campus Exigency Committee (elect three, one from each school/college)

Engineering	Mines & Metallurgy	Arts & Sciences
_____ Xavier Avula	_____ Thomas O'Keefe	_____ Lawrence Christensen
_____ Franklin Cheng	_____ John Rockaway	_____ Charles Finley
	_____ Norman Smith	_____ Glen Haddock
	_____ Darrell Ownby	_____ Vincent Roach
		_____ Michael Patrick
		_____ William Parks
		_____ David Oakley

BALLOT FOR ELECTION OF FACULTY MEMBERS TO STANDING COMMITTEES

HW
9/14/89

Grievance Hearing Panel (elect five, but only one from each department)

English

9 John Morgan
11 Mary Boyd

Geological Engineering

26* Len Koederitz
14 Cary McConnell

Metallurgical Engineering

23* Robert Wolf

Civil Engineering

21* Jack Emanuel
3 Shamsher Prakash

Ceramic Engineering

5 Len Rahaman
20* Darrell Ownby

Mechanical & Aerospace

6 Charles Edwards
18* Terry Lehnhoff

Mathematics & Statistics

7 Leon Hall
11 Gus Garver

Campus Exigency Committee (elect three, one from each school/college)

Engineering

12 Xavier Avula
16* Franklin Cheng

Mines & Metallurgy

13 - 19* Thomas O'Keefe
15 - 13 John Rockaway
1 Norman Smith
2 Darrell Ownby

Arts & Sciences

8 Lawrence Christensen
1 Charles Finley
18* Glen Haddock
3 Vincent Roach
1 Michael Patrick
1 William Parke
2 David Oakley

2nd Ballot

* Elected

BALLOT FOR ELECTION OF COUNCIL OFFICERS AND STANDING COMMITTEE MEMBERS

WU
9/14/89

Admissions & Academic Standards
(elect three)

- 22 *Roger Brown, Life Sciences
- 27 *Thomas Herrick, Elec Engr
- 7 Neil Book, Chemical Engr
- 22 *C. Dale Elifrits, Geol Engr
- 16 Jerome Westphal, Civil Engr

*Celebrity
Pat Campbell
Chair*

Rules, Procedure & Agenda
(elect one from each school/college)

- 8 Howard Pyron, Comp Sci
- 24 *Jim Fogue, English
- 31 *Randy Moss, Elec Engr
- 31 *Ray Edwards, Nuc Engr

Budgetary Affairs (elect two)

- 21 *Arlan DeKock, Computer Sci
- 14 Bruce Selberg, Mech & Aero
- 19 *Charles Morris, Civil Engr
- 8 Daniel Babcock, Engr Mgmt

Student Affairs (elect two faculty)

- 15 Howard Pyron, Comp Sci
- 19 *Ronald Howell, Mech & Aero
- 16 *Mark Mullin, Phys Ed & Rec
- 14 Richard Hall, Psychology

Curricula (elect one)

- 8 Max Engelhart, Math & Stat
- 11-18 *Elden Trimble, Math & Stat
- 11-14 Max Anderson, Elec Engr
- 4 Harlan Anderson, Cer Engr

Student Affairs (elect one student)

- 11 Eugene Bae
- 15 *Bill Smith
- 1 **Bob Phillips**

*2nd
Ballot*

Facilities Planning (elect three)

- 26 *Daniel White, Basic Engr
- 21 *Donald Cronin, Mech & Aero
- 22 *Harlan Anderson, Cer Engr
- 18 Paul Parris, Physics

Student Awards & Financial Aids
(elect three)

- 27 *John Sheffield, Mech & Aero
- 14 John Huguley, Aero Studies
- 26 *Robert Laudon, Geol & Geophys
- 22 *Richard Bryant, Economics

Personnel (elect two)

- 22 *Lance Haynes, Phil & Lib Art
- 15 Donald Cronin, Mech & Aero
- 24 *Frank Blum, Chemistry

Student Scholastic Appeals
(elect three)

- 18 Sam Dent, Military Science
- 23 *Norman Smith, Mining Engr
- 23 *Allan Pringle, Physics
- 27 *Henry Wiebe, Engr Mgmt

** Elected*

~~11~~ ~~19~~ * Charles Morris, Civil Engr
~~8~~ Daniel Babcock, Engr Mgmt

~~17~~ ~~16~~ * Mark Mullin, Phys Ed & Rec
~~14~~ Richard Hall, Psychology

Curricula (elect one)
~~8~~ Max Engelhart, Math & Stat
~~11-18~~ * Selden Trimble, Math & Stat
~~11-14~~ Max Anderson, Elec Engr
~~4~~ Harlan Anderson, Cer Engr

Student Affairs (elect one student)
~~11~~ Eugene Bae
~~15~~ * Bill Smith
~~1~~ **Bob Phillips**

Facilities Planning (elect three)
~~26~~ * Daniel White, Basic Engr
~~21~~ * Donald Cronin, Mech & Aero
~~22~~ * Harlan Anderson, Cer Engr
~~18~~ Paul Parris, Physics

Student Awards & Financial Aids (elect three)
~~27~~ * John Sheffield, Mech & Aero
~~14~~ John Huguley, Aero Studies
~~26~~ * Robert Laudon, Geol & Geophys
~~22~~ * Richard Bryant, Economics

Personnel (elect two)
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~~24~~ * Frank Blum, Chemistry

Student Scholastic Appeals (elect three)
~~18~~ Sam Dent, Military Science
~~23~~ * Norman Smith, Mining Engr
~~23~~ * Allan Fringle, Physics
~~27~~ * Henry Wiebe, Engr Mgmt

*nd
Ballot*

** Elected*

BALLOT FOR ELECTION OF FACULTY MEMBERS TO STANDING COMMITTEES

*HW
9/14/8*

Grievance Hearing Panel (elect five, but only one from each department)

English	Geological Engineering	Metallurgical Engineering
9 John Morgan	26 * Len Koederitz	23 * Robert Wolf
11 Mary Boyd	14 Cary McConnell	
Civil Engineering	Ceramic Engineering	Mechanical & Aerospace
21 * Jack Emanuel	5 Len Rahaman	6 Charles Edwards
3 Shamsheer Prakash	20 * Darrell Ownby	18 * Terry Lehnhoff
Mathematics & Statistics		
	7 Leon Hall	
	11 Gus Garver	

Campus Exigency Committee (elect three, one from each school/college)

Engineering	Mines & Metallurgy	Arts & Sciences
12 Xavier Avula	13-19 * Thomas O'Keefe	8 Lawrence Christensen
16 * Franklin Cheng	15-13 John Rockaway	1 Charles Finley
	1 Norman Smith	18 * Glen Haddock
	2 Darrell Ownby	3 Vincent Roach
		1 Michael Patrick
		1 William Farks
		2 David Oakley

*2nd
Ballot*

** Elected*

SPECTRUM

News for faculty and staff from the Sept. 7-8 Board of Curators meeting, UM-Kansas City

Beginning Jan. 1, employees will file medical and dental claims with a new administrator. Lincoln National Life Insurance Co. will replace Provident Life & Accident Insurance Co. as claims administrator for the University's self-insured medical plan and General American Life Insurance Co. as claims administrator for the self-insured dental plan.

The possibility of making the birthday of Martin Luther King Jr. an official University holiday will be discussed over two future meetings. An action item was withdrawn from this meeting's board agenda to provide more time for discussion among employees.

Part of the \$4.6 million reallocation goal set for this fiscal year will be achieved by phasing out Sinclair Farm, a UM System unit in Columbia, President Magrath told curators. Plans to reorganize UMSL's administrative and support service structure may contribute to the \$4.6 million re-direction of funds from lower to higher priorities. Board president Ed Turner reminded curators that the amount reallocated -- \$30 million to date -- is no small sum. The reallocation figure is larger than recent multimillion dollar grants, Turner noted, but unlike grants, reallocated funds are unrestricted on use and remain in the budget base permanently. "We need to take a fresh look at what (this money) has enabled us to do, and we need to think of reallocation as an unrestricted grant that helps us achieve the most fundamental aspects of our mission." Curator Sam Cook said reallocation progress should be commended but the level of reallocation so far doesn't represent the magnitude of shifts necessary to improve the University.

The University has evaluated its retirement benefits compared with the state employee retirement plan, the board was told. The University's retirement plan costs would increase by 50 percent if the University participated in the state plan. Both plans are comparable in the percentage of income replaced by retirement benefits (45 to 46 percent), but the University has set its sights on matching the Big Ten average of 64 percent. The University's retirement program objectives differ from the state's by dealing with issues unique to the University, such as compensation for faculty research and summer teaching. Further information on the financial implications of joining the state plan will be shared with the board.

G. Andy Runge assumed his role as the newest member of the Board of Curators. The Mexico attorney will perform duties as a curator pending his confirmation by the state Senate early next year.

The University doesn't receive enough funding to meet improvement goals, but it effectively manages the money it does receive, Vice President Jim McGill told curators. The UM System in 1988-89 generated more than \$408.8 million in revenue and spent about \$405 million, more than the budgeted \$399.5 million in revenues and expenditures. Efforts to generate revenue and reduce administrative costs helped offset the \$3.9 million withheld from the state's general operations appropriation.

Next meeting: Oct. 12-13, UM-Columbia



UNIVERSITY OF MISSOURI-ROLLA

Office of the Registrar

103 Parker Hall
Rolla, Missouri 65401-0249
Telephone (314) 341-4181

MEMO TO: Academic Council
FROM: UMR Curricula Committee
SUBJECT: Meeting of October 4, 1989

EC1's Reviewed:

EC1 232, Physics 101, Environmental Applications of General Physics.
Approved for Winter 1990. 3 credit hours.

236, Geological Engineering 301, Geological Field Methods in Subsurface Hydrology. Approved for Winter 1990. 3 hours credit.

237, Computer Science 301, Expert Systems & Knowledge Representation.
Approved for Winter 1990. 3 hours credit. Prerequisites: CSc 253 or consent of instructor. Taught at the Engineering Education Center in St. Louis.

238, Life Science 201, Introduction to Plant Science. Approved for Winter 1990. 3 hours credit. Prerequisites: Life Sci 110 and Chem 3.

CC1's Reviewed:

3174, Engineering Management 378, Introduction to Neural Networks & Applications. Approved new course for Winter 1990. 3 hours credit. (Co-list with EE 368 and CSc 378). Prerequisites: Math 229 or equivalent. Description reads: Neural network architectures, perceptrons, back and counterpropagation, Hopfield and hamming nets, adaptive resonance theory, cognitrons, neocognitrons, higher order and functional link nets, simulated annealing, cauchy machines applications to feature extraction, pattern recognition, optimization, strategy of neural net design.

3175, Psychology 154, Psychology of Personal Adjustment. Approved for Winter 1990. Change in course title from Psychology of Human Adjustment.

3176, Psychology 366, Theory and Methods of Counseling. Approved for Winter 1990. Change in course title from Principles of Psychological Guidance and Counseling.

3177, English 368, Early American Literature. Approved new course for



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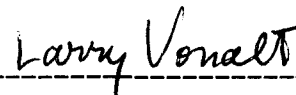
3177, English 368, Early American Literature. Approved new course for

Attachment III.C.1

Winter 1990. 3 hours credit. Prerequisites: English 1 and a semester of college literature. Description reads: This course will follow the development of American literature from its colonial beginnings (1614) to the rise of Romanticism (1836). The course will pay particular attention to how American writers used literature in defining and even creating the new world.

3178, Computer Science 378, Introduction to Neural Networks & Applications. Approved new course for Winter 1990. 3 credit hours. Prerequisites: Math 229 or equivalent. (Co-list with EE 368 and EMgt 378). Description reads: Same as CC1 3174.

3179, Electrical Engineering 368, Introduction to Neural Networks & Applications. (Co-list with CSc 378 and EMgt 378.) Approved for Winter 1990. 3 hours credit. Prerequisites: Math 229 or equivalent. Description reads: Same as above CC1 3174.



Larry Vonalt
Chairman



UNIVERSITY OF MISSOURI-ROLLA

College of Arts and Sciences

Department of Philosophy

G-4 Humanities-Social Sciences Bldg.
Rolla, Missouri 65401-0249
Telephone (314) 341-4869

October 5, 1989

MEMO TO: Academic Council Members
FROM: Budgetary Affairs Committee,
C.A. Smith, Chair
RE: Proposed Faculty and Staff Benefits Changes

The following resolutions will be proposed at the
October 19, 1989, Council meeting.

- I. Given that the proposals from the Faculty and Staff Benefits
Planning Committee constitute a package, and

Recognizing that this package is a significant improvement over
the current package,

The Budgetary Affairs Committee recommends that the
proposals from the Faculty and Staff Benefits Planning
Committee be approved.

However, the Budgetary Affairs Committee further recommends
that the University subsidy of medical benefits for
dependents NOT be reduced by 50% but remain equivalent
to the University subsidy for the employee.

- II. Recognizing that the total benefit package still does not
achieve the Big 10 average,

The Budgetary Affairs Committee recommends that an ongoing
study of faculty and staff benefits and an ongoing
comparison with Big 10 benefits be initiated. Specifically,
it is recommended:

- 1) that a yearly report be made comparing the UM
benefits with Big 10 benefits and be communicated to
all employees.
- 2) that a yearly report on the amount and performance
of the retirement fund be communicated to all employees
- 3) that the rule of 85 receive further and serious
consideration
- 4) that the tax implications of the shift from tax-
sheltered benefits to taxable income be carefully
considered in future changes.

CAS/sk



UNIVERSITY OF MISSOURI-ROLLA

College of Arts and Sciences

Department of Philosophy

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Telephone (314) 341-4869

October 9, 1989.

MEMO TO: Academic Council Members

FROM: Budgetary Affairs Committee,
Carol Ann Smith, Chair

A handwritten signature in black ink, appearing to be 'C.A.S.', written over the name 'Carol Ann Smith'.

RE: Proposed B.Sc. in Management Systems.

The following resolution will be presented at the October 19th Council meeting for your consideration:

Recognizing that even within severe budget constraints a university needs to modify its programs,
and, Recognizing that no new dollars are needed initially for this program beyond reallocation dollars,

The Budgetary Affairs Committee recommends that the proposed B.Sc. in Management Systems be approved.

Please note. Council members should be advised that the vote in the Budgetary Affairs Committee on this resolution was extremely close.



UNIVERSITY OF MISSOURI-ROLLA

Department of Philosophy

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October 5, 1989

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proposals from the Faculty and Staff Benefits Planning
Committee be approved.

However, the Budgetary Affairs Committee further recommends
that the University subsidy of medical benefits for
dependents NOT be reduced by 50% but remain equivalent
to the University subsidy for the employee.

- II. Recognizing that the total benefit package still does not
achieve the Big 10 average,

The Budgetary Affairs Committee recommends that an ongoing
study of faculty and staff benefits and an ongoing
comparison with Big 10 benefits be initiated. Specifically,
it is recommended:

- 1) that a yearly report be made comparing the UM
benefits with Big 10 benefits and be communicated to
all employees.
- 2) that a yearly report on the amount and performance
of the retirement fund be communicated to all employees
- 3) that the rule of 85 receive further and serious
consideration
- 4) that the tax implications of the shift from tax-
sheltered benefits to taxable income be carefully
considered in future changes.

CAS/sk



UNIVERSITY OF MISSOURI-ROLLA

College of Arts and Sciences

Department of Chemistry

142 Schrenk Hall
Rolla, Missouri 65401-0249
Telephone (314) 341-4420

October 6, 1989

Memo To: Academic Council Members

From: Personnel Committee
Vince Roach, Chair

RE: Proposed Faculty and Staff Benefits Change

Background Information: The Personnel Committee was charged by the Academic Council to review the "Report of the Faculty and Staff Benefits Planning Committee" and make a recommendation to the Council. The review/recommendation process was accomplished (1) by members attending the UM staff benefits presentation on September 21, 1989 and (2) subsequently meeting (September 27, 1989) as a committee to discuss* the report and prepare the following recommendation.

RECOMMENDATION:

The Personnel Committee recommends the adoption of the Planning Committee's "Employee Benefit Objectives and Recommended Charges/Costs" as listed in their report dated May 1989 to President C. Peter Magrath. The committee recognizes the proposed plan is not all things to all people but does represent significant benefit package improvements. The Personnel Committee urges that the university continue its established practice of regular review of its Faculty and Staff Benefits plans in an effort to insure appropriate levels of coverage for its employees.

DVR:dms

*Phyllis McCoy, a member of the planning committee which prepared the report, was present to answer questions and discuss the report.



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October 6, 1989

Memo To: Academic Council Members

From: Personnel Committee
Vince Roach, Chair

RE: Proposed "Conflict of Interest Policy"

Background Information: The Academic Council referred to the Personnel Committee the revised draft (dated August 15, 1989) policy statement on "Conflict of Interest" for review and recommendation by the committee.

The process of review consisted of not only review by the members of the committee as a whole, but by consideration of written opinion and comments from a diverse population of the UMR community. Generally, the committee finds no acceptance of the proposed revised policy beyond the need for such as mandated by the legislation signed in July, 1989 by Governor Ashcroft. Many specific objections were noted, as received from the UMR faculty and staff, and examples of these objections will be transmitted, if desired, to Vice President Wallace, whose office forwarded the policy statement to the General Officers of the University. In view of the above considerations, the Personnel Committee makes the following recommendation to the Academic Council:

RECOMMENDATION: Whereas, legislation signed by Governor Ashcroft (July, 1989) requires the Curators to "promulgate and approve a conflict of interest policy", it is recommended that such a policy statement should be concise and it is respectfully suggested that it might have a form of the following nature:

Policy: University employees shall faithfully discharge their university duties and avoid from engaging in any outside matters which are not compatible with the principles outlined in the AAUP/ACE Statement on Conflict of Interest (Second Impression, January 1966).

DVR:dms



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DVR:dms



UNIVERSITY OF MISSOURI-ROLLA

Attachment III.E

School of Engineering

Office of the Dean

101 Engineering Research
Rolla, Missouri 65401-0249
Telephone (314) 341-4151

October 9, 1989

Memo to: Dr. Lance Williams, Chairman, R,P&A Committee

From: Jerry Bayless *JRB*

Re: Public Occasions Committee

The Public Occasions Committee held its organizational meeting on September 28 and elected the following officers for 1989-90:

Jerry Bayless, Chairman
Ron Kohser, Secretary

The committee has three matters to be presented to the Academic Council for consideration at the October meeting.

1. The date for the 1990 Spring Open House needs to be moved from April 14 to April 28 to avoid a conflict with Easter weekend.
2. The Public Occasions Committee approved Public Occasions dates for 1990-91 (attached).
3. The Public Occasions Committee approved the 1991-92 Calendar as submitted by the Calendar Committee (attached).

I hope that these items can be included on the agenda for the October meeting of the Academic Council.



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UNIVERSITY OF MISSOURI-ROLLA

Academic Council

Curtis Wilson Library
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VOL. XIX, NO. 2
October 19, 1989

SUMMARY of the reports, actions, referrals and announcements made at the meeting of the Academic Council held on October 19, 1989.

1. Approval of minutes of the September 14, 1989, Council meeting.

2. Reports and responses.

A. President's report - D. Askeland

B. Referrals

1. Revised conflict of interest to the Personnel Committee
2. Co-op training requirements to the Admissions and Academic Standards Committee

C. Administrative reports

1. Intercollegiate Athletics - M. Jischke

3. Reports of standing and special committees.

A. Academic Assessment - R. Laudon

1. Assessment day proposal

B. Budgetary Affairs - C. A. Smith

1. Staff benefits planning committee report
(Attachment III.B.1)
2. B.S. management systems
(Attachment III.B.2)

C. Curricula - R. Howell

1. Report No. 2, 1989-90
 - a. Four experimental courses presented
 - b. Three course/curriculum changes approved
 - c. Three new courses approved
(Attachment III.C.1)

D. Personnel - V. Roach

1. Staff benefits planning committee report
(Attachment III.D.1)
2. Revised conflict of interest recommendation
(Attachment III.D.2)

E. Public Occasions - J. Bayless

1. Spring open house, 1990
2. Public occasions dates, 1990-91
3. 1991-92 calendar
(Attachment III.E)

Attachments: III.B.1; III.B.2; III.C.1; III.D.1; III.D.2; III.E



XIX, 2 The October 19, 1989, meeting of the Academic Council was
.1 called to order at 1:31 p.m. by Prof. Donald R. Askeland,
Academic Council President. Prof. Paul Stigall and Prof.
Jerry Bayless were recognized as substitutions for Prof.
Randy Moss and Dean Robert Davis, respectively. Mr. Bill
White was introduced as the Staff Council representative for
this month. Mary Ann McCollum, Director of ASUM, was also
recognized. Prof. Lance Williams moved to approve the
September 14, 1989, minutes. The motion was seconded and
passed.

XIX, 2 REPORTS AND RESPONSES.

.2

A. PRESIDENT'S REPORT. President Donald Askeland re-
ported that the Board of Curators, at their October
12-13 meeting, selected an architect for the EE/VSAP
renovation/expansion project; approved UMR's recently
submitted By-Law changes; discussed the staff benefits
package and the Moser plan (the State's retirement
program) concluding that the proposed package is an
improvement over both UM's existing plan and the Moser
plan; postponed the Martin Luther King holiday proposal
(a Committee has been created to report on proposed
alternatives this coming spring: (1) to create another
paid holiday at a cost of \$644,000; (2) to substitute
one personal day for the holiday at a cost of \$71,000;
or (3) to use part of the \$71,000 for special
events/programs while still maintaining working hours);
received a report on assessment including a presentation
by UMC; and received a presentation by Vice-Chancellor
John Park on Academic Computing. During their breakfast
meeting, a number of Curators stated an inclination
towards campus autonomy with regards to admission
standards.

B. REFERRALS.

1. REVISED CONFLICT OF INTEREST to the Personnel
Committee (the deadline was extended to November
13 from September 26).
2. CO-OP TRAINING REQUIREMENTS to the Admissions and
Academic Standards Committee.

C. ADMINISTRATIVE REPORTS.

1. INTERCOLLEGIATE ATHLETICS. Chancellor Martin
Jischke emphasized that in addition to 300
participants in nine mens' and five womens' inter-

collegiate sports, there are 3500 participants in intramural sports and 400 participants in physical recreation. Total budget for athletics is \$1.6 million of which \$1.3 million goes to intercollegiate sports and approximately \$150,000 each to intramural and to physical recreation. The athletics program is funded by four sources: general operating funds (\$1 million per year), student athletics fee (\$400,000 per year), private donations (\$100,000 per year), and miscellaneous income including gate receipts (\$100,000 per year). Declining enrollment (7200 to 4800 students) has cost this budget approximately \$250,000 per year, and the deficit each year in the past five has been covered using a reserve established in the time of higher enrollment. It has been impossible to fund the number of scholarships allowed by our conference (possible are 99 instate room and board; budgeted are 60). Approaches discussed with Chairman Billy Key during past years have been (1) to utilize increased income (operating budget increases will only be inflationary and additional operating funds will not be allocated to athletics given the academics priority); (2) to increase private funding (a 50 percent increase has been achieved--from about \$60,000 to nearly \$100,000 per year); (3) to reduce expenditures.

According to Chancellor Jischke, support for intramural and recreational sports should not be reduced. Student participation and interest in intramural sports are high, and widespread participation by the student body promotes the development of healthy living habits.

Regarding UMR's intercollegiate program, alternatives have been outlined: (1) to continue with inadequate funding; (2) to change division status from II to III, which disallows scholarships (impractical due to increased travel and travel costs); (3) to reduce competition in one or more conference sports (minimum number of sports to fulfill NCAA Division II conference requirements are four for men and four for women); and (4) to use resources with better efficiency. Coach Key has proposed to eliminate the conference sports of

men's and women's soccer, men's tennis, and men's rifle. The resulting cost savings (taking into account departmental retirements) should eliminate the deficit, increase scholarship numbers, and allow for a full-time intramural director. Coach Key has also recommended finding a way to expand intramural facilities. This recommendation has been shared with the Athletics Committee, the Academic Deans and the Vice-Chancellors. A final decision will be deferred in order to allow for student input.

Intramural sports at UMR began in 1888 and the first intercollegiate football game was held in 1893. "Athletics have been, and will continue to be, an important part of the life of the campus. ..."

XIX, 2
.3

REPORTS OF STANDING AND SPECIAL COMMITTEES.

A. ACADEMIC ASSESSMENT.

1. ASSESSMENT DAY PROPOSAL. Prof. Robert Laudon reported that the Committee has met twice during this semester. In Spring of 1989, it reviewed, discussed, and concluded that a day set aside for assessment was a good idea, and that a true day off was unrealistic in light of the Governor's "Time on Task" statement. During the June Academic Council meeting, the Committee recommendation was tabled pending student acceptance. On September 12, the Student Council rejected our proposal. Since then, the 1989-90 Committee has met and is divided regarding a true day off. Information concerning North Central Accreditation, ABET Accreditation, and "Time on Task" is being compiled. The plan is to approach the Student Council with this information and report to the Council at its November meeting.

B. BUDGETARY AFFAIRS.

1. STAFF BENEFITS PLANNING COMMITTEE REPORT. Prof. Carol Ann Smith, reporting for the Budgetary Affairs Committee recommended that the proposal be approved but that the university subsidy for dependents not be reduced by 50 percent. Prof. Lance Haynes moved for approval, and his motion was seconded. Prof. D. Vince Roach, speaking for

himself and the Personnel Committee, voiced support for the benefit proposal as well as the Budgetary Affairs recommendation. Prof. Lance Williams moved to divide the question. Prof. Frank Blum seconded the motion which carried (14 in favor, 9 opposed). Part 1 of recommendation paragraph one was subsequently approved. Prof. Blum suggested striking the word "however" from part 2 of recommendation paragraph one. Part 2 of recommendaton paragraph one then was approved.

Prof. Donald Cronin moved to approve paragraph two of the Committee's recommendation proposing that an ongoing study and comparison of UMR benefits with those of the Big 10 be made. Prof. Roach provided the second to Prof. Cronin's motion, which passed. (Attachment III.B.1)

2. B.S. MANAGEMENT SYSTEMS. As reported by Prof. Smith, the Budgetary Affairs Committee, recognizing that the University needs program modifications, even in times of austerity, and that no new monies would be needed for the Management Systems degree program, recommended approval. Chancellor Jischke provided the motion, Prof. Williams provided the second, and the motion carried. (Attachment III.B.2)

C. CURRICULA. Prof. Ronald Howell, reporting in place of Prof. Larry Vonalt, presented an overview of Curricula Committee's agenda. A report regarding CAPS and the graduation catalogue and the time limitation of the graduation catalogue should be presented at the Council's January meeting. A formal statement concerning jurisdiction regarding the fee structure inequity question will also be submitted. The topics, infrequently taught courses and academic program approval procedures, have been under discussion with additional information requested concerning academic program approval. The Curricula Committee will also report on these two subjects in January.

1. REPORT NO. 2, 1989-90. Prof. Howell introduced the curricula report and moved for approval. Prof. Elifrits seconded the motion, which passed. (Attachment III.C.1)

D. PERSONNEL.

1. STAFF BENEFITS PLANNING COMMITTEE REPORT. Prof. Roach noted that the Committee's recommendation was forwarded to Council and mentioned during the Budgetary Affairs Committee report. (Attachment III.D.1)
2. REVISED CONFLICT OF INTEREST RECOMMENDATION. Prof. Roach indicated that the Personnel Committee considers the conflict of interest proposal revision too vague in some places and too specific in others. In light of legislation requiring the promulgation and approval of a conflict of interest statement, it is recommended by the Personnel Committee that the policy statement be concise and that the following be proposed: "University employees shall faithfully discharge their university duties and avoid engaging in any outside matters which are not compatible with the principles outlined in the AAUP/ACE Statement on Conflict of Interest (Second Impression, January 1966)." Prof. Roach moved for approval. Prof. Williams seconded the motion. The motion carried. (Attachment III.D.2)

E. PUBLIC OCCASIONS.

1. SPRING OPEN HOUSE. Prof. Jerry Bayless indicated the conflict between the dates of Spring open house and Easter weekend and moved that Spring open house be held on April 28 instead of April 14. The necessary facilities are available on that date, and no mass mailings have been sent. Prof. Williams seconded the motion, and the motion carried.
2. PUBLIC OCCASIONS DATES, 1990-91. Prof. Bayless included one additional date in his motion for approval: University Day, Saturday, October 20, 1990. Commencement was already set last year. Prof. Williams provided the second to the motion, which passed.
3. 1991-92 CALENDAR. Prof. Bayless reported that the Calendar Committee proposed starting the Fall and Winter Semesters one week later than the calendar for 1990-91 and for the current year. This gives four full weeks (instead of three) after spring break until the end of the Winter

Semester and two weeks (instead of one) between Spring Recess and Spring Break. Prof. Bayless moved for adoption. Prof. Elifrits seconded the motion. The motion was approved.

During discussion it was noted that Student Council has the responsibility to schedule the Student Council Free Day.
(Attachment III.E)

The meeting adjourned at 2:32 p.m.

Respectfully submitted,



Jerome A. Westphal
Secretary

Attachments: III.B.1
 III.B.2
 III.C.1
 III.D.1
 III.D.2
 III.E

*Minutes of the Academic Council Meeting are considered official notification and documentation of actions approved.



UNIVERSITY OF MISSOURI-ROLLA

Academic Council

Curtis Wilson Library
Rolla, Missouri 65401-0249
Telephone (314) 341-4972

UMR Faculty

A G E N D A

October 12, 1989

Academic Council Meeting, Thursday, October 19, 1989; 1:30 p.m.; G-5 H/SS.

I. Approval of minutes of September 14, 1989 (VOL. XIX, NO. 1) meeting.

II Reports and Responses

A. President's Report (5 min.) Don Askeland (4730)

B. Referrals

- 1. Revised Conflict of Interest to Personnel Committee
- 2. Co-op Training Requirements to Admissions and Academic Standards Committee

C. Administrative Reports

- 1. Chancellor's Report on Intercollegiate Athletics (15 min.) Martin Jischke (4114)

III. Reports of Standing and Special Committees

A. D.6.a Academic Assessment (5 min.) Robert Laudon (4466)
1. Assessment Day Proposal

B. D.6.b Academic Freedom (No Report) Don Oster (4817)
1. Academic Freedom and Outside Teaching Assignment Administrative Response (June 15, 1989; XVIII, 7; II.B.4)

C. D.6.c Admissions and Academic Standards (No Report) Thomas Herrick (4507)
1. Revised Regulations for Removing a Student from Academic Probation (April 23, 1987; XVI, 8; IV.A.1)
2. Excused Absence Procedure (May 5, 1988; XVII, 8; II.B.1)

D. D.6.e Budgetary Affairs (10 min.) Carol Ann Smith (4869)
*1. Staff Benefits Planning Committee Report (June 15, 1989; XVIII, 7; II.B.3)
*2. B.S. Management Systems Proposal

E. D.6.i Curricula (5 min.) Larry Vonalt (4630)
1. CAPS and the Graduation Catalogue (June 25, 1987; XVI, 9; IV.A.1)
2. Time Limitation of the Graduation Catalogue (June 25, 1987; XVI, 9; IV.A.2)
3. Fee Structure Inequities (December 8, 1988; XVIII, 3; II.C.1)
4. Infrequently Taught Courses (September 14, 1989; XIX, 1; III.B.1)
5. Procedures for Academic Program Approval (September 14, 1989; XIX, 1; III.B.4)
*6. Report No. 2, 1989-90.

- F. D.6.o Personnel (5 min.) Vince Roach (4449)
- *1. Staff Benefits Planning Committee Report
(June 15, 1989; XVIII, 7; II.B.3)
 - 2. Qualifications for Professorial Ranks
(September 14, 1989; XIX, 1; III.B.2)
 - *3. Revised Conflict of Interest Recommendation
(October 19, 1989; XIX, 2)
- G. D.6.p Public Occasions (10 min.) Jerry Bayless (4151)
- 1. Spring Break Schedule (June 15, 1989; XVIII, 7; II.B.2)
 - 2. Spring Open House, 1990
 - *3. Public Occasions Dates, 1990-91
 - *4. 1991-92 Calendar
- I. D.6.s Student Affairs (No Report) ()
- 1. Procedures for Student Requests for Waivers of Deadlines
(September 14, 1989; XIX, 1; III.B.3)

IV. Old Business

V. New Business

R, P & A Cmtt.
LW/cmb/10-5-89

*Supplementary materials sent to Academic Council members and department chairmen.



UNIVERSITY OF MISSOURI-ROLLA

School of Engineering

Department of Mechanical and Aerospace
Engineering and Engineering MechanicsMechanical Engineering Building
Rolla, MO 65401-0249
Telephones: Chairman (314) 341-4662
Faculty (314) 341-4661

MEMORANDUM TO: Dr. Wendell R. Ogrosky, Vice Chancellor for Student Affairs
 FROM: Drs. Eversman, Selberg, Howell, Oetting, Koval, and Nisbett
 DATE: October 20, 1989
 RE: St. Pat's Green Sales on Hockey Puck

In response to your memo of October 17, 1989, addressed to Drs. Eversman, Howell, and Selberg, we wish to respond as a group which is adversely affected by the activities on the hockey puck connected with St. Pat's Board sales.

In our view both proposals of the Board are unacceptable as they will continue the long term, predictable periods of disruption which create poor working conditions in the Mechanical Engineering Building. We make the following observations:

1. While board members are well intentioned in restricting their noisemaking to periods when class is not in session, classroom activities constitute a minor part of the workday for faculty and staff and the distraction of the activities on the hockey puck is not acceptable.
2. St. Pat's Board should carry out activities under the same rules and conditions as other groups.
3. Our position is that noisy activities on the hockey puck should be limited to special occasions. For example, the Greek Week games and contests, St. Pat's games and contests, occasional concerts at lunch time, etc. Regularly scheduled noisemaking is not acceptable.
4. It is the view of a growing number of people that the image of the St. Pat's Board and the campus are adversely affected by the constant atmosphere of disruption associated with the selling activities.
5. We suggest that alternative forms of marketing be used which do not conflict with the general well being of the campus.

We recognize the role the Board plays on the campus, and we recognize that the campus belongs to all of us and at appropriate times should provide an atmosphere of fun and entertainment for students. However, disturbances which affect the working environment should be carefully assessed and only approved on generally recognized special occasions.



UNIVERSITY OF MISSOURI-ROLLA

Office of Student Activities and University Center

 113 University Center-West
 Rolla, MO 65401-0249
 Telephone (314) 341-4283

MEMO TO: Student Affairs Committee

 FROM: Linda Martin, Student Services Coordinator *Linda C. Martin*
 Dave Bernhard, President, St. Pat's Board *Dave Bernbaul*

RE: Use of the Hockey Puck

Dr. Ogrosky has suggested that the St. Pat's Board approach the Student Affairs Committee for clarification on the use of the Hockey Puck, with final recommendation coming from the Academic Council if necessary.

For many years, the St. Pat's Board has marketed their green by yelling between classes on the Hockey Puck. This year, Dr. Ogrosky's office received several complaints from the Mechanical & Aerospace Department and the Nuclear Department that this yelling was disrupting their business day. The St. Pat's Board ceased all yelling at that time until a compromise could be reached.

Two proposals were made by the St. Pat's Board (copy attached) in an effort to come up with a satisfactory compromise. Dr. Ogrosky forwarded these proposals to the faculty members who had been disturbed for their feedback. The Nuclear Department Chairman was willing to work with the Board on one of the plans, however, neither proposal was acceptable to the faculty members involved from Mechanical. Their feedback was simply that the St. Pat's Board should seek other forms of marketing.

Unfortunately for the St. Pat's Board, as a result of the cessation of yelling, Septemberfest buttons sales were less than last year, and after the first two weeks of green sales for St. Pat's 1990, campus sales were down 37% the first week and 12% the second week.

The St. Pat's Board has made great strides to comply with all University requests in the years since Tony Busalaki's death and take a much more responsible role in their activities. They have been active with Alcohol Awareness Week, the Crop Walk, Lions Club Park clean-up, and Boys Town donations. They organize the Homecoming Parade for the Student Union Board and run the Christmas Parade along with the Chamber of Commerce. It would be a disservice to the campus as well as the community if their activities were reduced because of a lack of funding. The bulk of their sales are from campus with Christmas sales leading in importance. They have increased marketing techniques in as many areas as they can think of, but feel they need to be able to sell the green from the Hockey Puck by yelling in order to get the attention of students not in the immediate Hockey Puck area.

If the Student Affairs Committee could give a directive to the St. Pat's Board - and other student organizations wishing to utilize the Hockey Puck area - it would alleviate the problems that have arisen this year. If this committee feels this is something the Academic Council should handle, please forward this request to them as soon as possible so this situation can be resolved.

Thank you very much.



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Department of Mechanical and Aerospace
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Two proposals were made by the St. Pat's Board (copy attached) in an effort to come up with a satisfactory compromise. Dr. Ogrosky forwarded these proposals to the faculty members who had been disturbed for their feedback. The Nuclear Department Chairman was willing to work with the Board on one of the plans, however, neither proposal was acceptable to the faculty members involved from Mechanical. Their feedback was simply that the St. Pat's Board should seek other forms of marketing.

Unfortunately for the St. Pat's Board, as a result of the cessation of yelling, Septemberfest buttons sales were less than last year, and after the first two weeks of green sales for St. Pat's 1990, campus sales were down 37% the first week and 12% the second week.

The St. Pat's Board has made great strides to comply with all University requests in the years since Tony Busalaki's death and take a much more responsible role in their activities. They have been active with Alcohol Awareness Week, the Crop Walk, Lions Club Park clean-up, and Boys Town donations. They organize the Homecoming Parade for the Student Union Board and run the Christmas Parade along with the Chamber of Commerce. It would be a disservice to the campus as well as the community if their activities were reduced because of a lack of funding. The bulk of their sales are from campus with Christmas sales leading in importance. They have increased marketing techniques in as many areas as they can think of, but feel they need to be able to sell the green from the Hockey Puck by yelling in order to get the attention of students not in the immediate Hockey Puck area.

If the Student Affairs Committee could give a directive to the St. Pat's Board - and other student organizations wishing to utilize the Hockey Puck area - it would alleviate the problems that have arisen this year. If this committee feels this is something the Academic Council should handle, please forward this request to them as soon as possible so this situation can be resolved.

Thank you very much.

RELATIONSHIP STATEMENT: UMR AND GREEK FRATERNITIES AND SORORITIES

EXECUTIVE SUMMARY

On October 23, 1989, Chancellor Martin C. Jischke appointed the UMR Task Force for Greek Life Review and requested that the committee formulate a statement describing the relationship between the University and the Greek fraternities and sororities. Specifically, the Task Force was asked to determine the philosophy of the relationship, discuss the commitments and obligations involved, and address specific issues and concerns. This report fulfills the above three charges.

The Task Force concluded that the relationship between the University and the Greek social organizations is affected by two conditions: a) the philosophy that describes the relationship between the University and any recognized student organization and b) the recognition that the University and the Greek organizations are separate entities, each with independent legal status. The Task Force therefore makes two primary recommendations:

- 1) that the relationships should be based on mutually accepted commitments, obligations, and responsibilities
- 2) that the relationship should be reviewed regularly (every three to four years) due to the variety of governing bodies which may affect both the University and the Greek organizations.

The specific commitments and obligations are given in the report for both the Greek organizations and the University. The report's discussion of seven issues and concerns includes specific recommendations for both the University and the Greek organizations. These recommendations are listed below.

A. Scholarship

We recommend that the University:

1. Pledge its full assistance to each of the Greek organizations in performing suitable annual evaluations of programming as it affects the scholastic performance of individual Greek affiliates.
2. Use the results of the annual evaluation to develop and make available appropriate and constructive scholastic programming.

We recommend that the Greek organizations:

3. Use the following data in evaluating the effect of its programming on its individual affiliates: a fraternal organization's comparison of its scholastic record with

the all-fraternity average, the all-men's or all women's average, or the all-undergraduate average along with its assessment of the capabilities of its individual members.

B. Rushing

We recommend that the Greek organizations:

1. Have a more structured fraternity rush.
2. Have alcohol-free rush activities by the fraternities.
3. Have IFC and Panhellenic seriously reconsider how contact is made with new students in order to avoid excessive contact which some students have reported and called "harassment."

We recommend that the University and Greek organizations:

4. Work together to improve contact between the Greeks and new students, for example during Open House.

C. Pledging

We recommend that the University:

1. Be sensitive to and knowledgeable of national guidelines for pledging and know when and how to initiate an investigation via the national organization. These guidelines emphasize planning activities that are meaningful and avoiding activities that border on hazing and denigration.

We recommend that the Greek organizations:

2. Follow the national guidelines for pledging, especially planning activities, that are meaningful and avoiding activities that border on hazing and denigration.
3. Have short pledgeships, with initiation for Fall semester pledges taking place by the conclusion of the second week of the second semester.

D. Living Conditions and Financial Concerns

We recommend that the University:

1. Continue to include the fraternity and sorority houses in the University live-in rule.
2. Continue to distribute information on the Greek houses as part of the housing packet.
3. Facilitate the exchange of expertise and ideas on financial planning and management.
4. Organize some formal discussions on risk management as applicable to officers, chapter advisors, faculty advisors, and house corporations.

We recommend that the Greek organizations:

5. Discuss in IFC or Panhellenic the question of safety and smoking restrictions and seek some professional safety advice.
6. Encourage all houses to carry out fire and severe weather drills.
7. Achieve security (twenty-four hour locked doors and good exterior lighting) for sorority houses.
8. Encourage faculty advisors to keep a current file containing pertinent data in a location outside the Greek house.

E. Academic Environment, Leadership Development and Social Development

We recommend that the University:

1. Encourage Greek organizations to appreciate those who excel in academic achievement and to respect the choices that one makes on how to spend time.
2. Provide training in academic skills, leadership development, and social skills.

We recommend that the Greek organizations:

3. Emphasize social skills as an integral part of a personal development program within the UMR Greek system and seek the assistance of the faculty advisors.
4. Seek University assistance in providing training in academic skills, leadership development, and social skills.

F. Public Image

1. The University and Greek organizations should inform campus, community, and alumni of Greek accomplishments including awards, achievements, and activities in national and local charities.

G. Communication between UMR and the Greek organization:

We recommend that the University and Greek organizations:

1. Recognize the faculty advisors as an additional communication link between the University and the Greek organization. The faculty advisor should be informed of all that transpires between these partners.
2. Recognize the corporations as an additional communication link between the University and the Greek organization.

the all-fraternity average, the all-men's or all women's average, or the all-undergraduate average along with its assessment of the capabilities of its individual members.

B. Rushing

We recommend that the Greek organizations:

1. Have a more structured fraternity rush.
2. Have alcohol-free rush activities by the fraternities.
3. Have IFC and Panhellenic seriously reconsider how contact is made with new students in order to avoid excessive contact which some students have reported and called "harassment."

We recommend that the University and Greek organizations:

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We recommend that the Greek organizations:

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We recommend that the University:

1. Continue to include the fraternity and sorority houses in the University live-in rule.
2. Continue to distribute information on the Greek houses as part of the housing packet.
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1. Recognize the faculty advisors as an additional communication link between the University and the Greek organization. The faculty advisor should be informed of all that transpires between these partners.
2. Recognize the corporations as an additional communication link between the University and the Greek organization.

Introduction

The Task Force reaffirms the desirability of maintaining a mutually supportive relationship between the University of Missouri-Rolla and the Greek sororities and fraternities. This relationship is affected primarily by two conditions: (1) the philosophy and conditions that describe the connection between the institution and any student organization which has University recognition, as set forth in the 1989-90 Manual of Information; (2) the recognition that the fraternities and sororities are chapters of national organizations which are legal entities independent of the University. The relationship is defined and maintained through mutually accepted commitments and obligations and through mutually accepted standards and procedures. Because the issues and concerns can be affected by the actions of the Missouri Legislature, the national sorority and fraternity organizations, the UM Board of Curators, and the Coordinating Board of Higher Education, the definition of this relationship should be reviewed regularly (every three to four years).

I. Philosophy

A. University relationships with all campus organizations.

The relationship between UMR and the fraternities and sororities is founded on the philosophy and conditions that describe the relationship between the institution and any student organization. As set forth in the Manual of Information under "Recognition of Student Organizations," that philosophy is as follows:

In conformance with its stated functions of teaching and research, but with full recognition that much learning is accomplished in activities beyond the formality of the classroom, the University of Missouri-Rolla encourages its students to organize and participate in group activities intended to broaden their scope of general learning; extend their knowledge of specialized areas; or to serve their cultural, social or recreational interests, consistent with the educational goals of the University. (55)

The same document lists the conditions as follows:

1. It [the organization] must contribute to the welfare or betterment of its members and the institution.
2. The organization should have objectives that are within the bounds of good order and discipline, current and projected, as commonly known and accepted by the public and local community.

3. It must be devoid of functions or activities that conflict with the primary purposes of the University, i.e., the education of the student in any field of study offered by the institution.
4. It must not intentionally or inadvertently be a source of inquietude, disruption or embarrassment of the normal pursuits of the University or the community. (55)

B. Special status of Greek organizations.

The relationship between the University and the social fraternities and sororities is complex and sometimes becomes problematic for the following reasons:

1. the social fraternities and sororities are chapters of national organizations which are legal entities, independent of the University.
2. the chapters usually provide housing for which they seek University approval and on which the University depends
3. the chapters need assistance from the University in the form of faculty advisers and information regarding students eligible for rush, assistance in communicating with their alumni, and assistance in coordinating their activities and governing their chapters
4. the social fraternities and sororities are a highly visible element of the campus
5. the alumni of Greek organizations make significant contributions to the future of the University
6. there has been a national increase in liability cases involving institutions of higher learning and fraternities/sororities.

C. University relationships with Greek organizations

UMR acknowledges that a chapter and the University are separate entities, each with independent legal status. The University does not seek a superior/subordinate relationship; rather, it seeks a relationship where each can support and assist the other in its purposes. UMR is committed to a mutually supportive relationship with social fraternities and sororities and desires to maintain that relationship through mutually accepted commitments and obligations and through mutually accepted standards and procedures.

II. Commitments and Obligations

- A. The Greek organizations recognize the following commitments and obligations: [This is an unranked list; numbers are included only as reference points.]
1. To uphold standards set by their national organizations under which the chapters were chartered.
 2. To abide by state and federal laws regarding hazing, alcohol use, drug use.
 3. To support and promote the educational goals of individual students and of the University as a whole.
 4. To uphold affirmative action guidelines. [Fraternities and sororities are exempt by law from restrictions in Title IX of the Higher Education Act of 1972.]
 5. To independently choose their members.
 6. To seek membership in fraternal coordinating bodies recognized by UMR (such as IFC, Panhellenic) and to strive to fulfill the obligations, uphold the standards, and abide by the regulations and decisions of those bodies.
 7. To govern themselves, following the guidelines of their national organization, local chapter by-laws, and those University regulations which apply to all student organizations recognized by UMR.
 8. To participate in a regular review of the relationship with the University.
 9. To assist the University in communicating with alums.
 10. To abide by University regulations on the handling of student information, such as names and addresses.
- B. The University of Missouri-Rolla recognizes the following commitments and obligations: [This is an unranked list; numbers are included only as reference points.]
1. To grant University recognition to those chapters that seek it and meet the University regulations.
 2. To provide programming assistance to chapters who request aid for improving academic performance.

3. To provide programming assistance when requested on issues of concern such as:
 - leadership
 - community living
 - membership recruitment
 - substance abuse
 - personal and social skills
 - sexual awareness
4. To support self governance by assisting them, if requested, to find a faculty advisor.
5. To recognize Greek living quarters as approved housing, to provide accurate information about Greek housing, and to give Greek organizations the opportunity to inform students about Greek life.
6. To provide information in a timely manner on students eligible for membership to those organizations abiding by university regulations on the handling of student information (for example, names and addresses).
7. To assist organizations in communicating with alumni.
8. To guarantee rights of privacy to Greek organizations.
9. To guarantee right of peaceable assembly.
10. To guarantee due process.
11. To participate in a regular review of the relationship with the fraternities and sororities.

III. Issues and Concerns

A. Scholarship

Unquestionably, the most important obligation of every Greek organization is to support and promote the educational goals of each of its members. The organization, in its programming, should strive to encourage each of its members to attain the highest possible academic achievement in keeping with the individual's innate abilities.

Because of the non-academic programming by a Greek organization, there are many potential demands on the time of its individual members. Such demands can be greater on Greek affiliated students than on other students because of organizational efforts toward:

Intramural sports competition
Rush and Pledge Education
Organizational leadership
Chapter house management
Alumni relations
Campus organization membership
Service and charitable projects
Various competitions sponsored by others:
 Homecoming (decorations, etc.)
 Greek Week (chariots, games)
 St. Pat's (floats, cudgels, games)
Social events involving faculty, UMR students,
 prospective students

All of the above efforts, however, must be recognized as being secondary to academic achievement. None of these efforts should provide a valid excuse for a Greek organization to fail to provide a proper study atmosphere for its members or to fail to provide individual affiliates with sufficient time to prepare for their laboratory and classroom activities.

Scholastic averages for Greek organizations are, of course, a composite of the averages of individual affiliates. It cannot be assumed that the individual Greek affiliates of one organization have the same innate abilities as those of another organization, so comparisons of the grade averages among Greek organizations have limited validity. In fact, such comparisons, if made public, may be a violation of the privacy that should be granted to those organizations. A Greek organization's comparison of its scholastic average with the averages of larger student groups of which it is a component, can be extremely helpful in organizational goal setting and evaluation of programming. Such an evaluation should lead to more appropriate and constructive programming efforts (see Appendix A).

An analysis of the scholarship data in Appendix A for fraternities, residence halls, and off-campus students leads to some general conclusions. First, there is essentially no difference between the GPA of fraternity pledges and the all-freshman GPA. Because 90%+ of all freshmen must live in approved housing and because the all-freshman GPA includes women as well as men, it should be noted that fraternity pledges perform academically on a level with their peers.

Second, a comparable study for the fall semester from 1985-1989 shows an all-fraternity GPA not widely divergent from that of the residence halls, with differences ranging from 0.017 to 0.105 GPA and an average difference of 0.061 GPA below that of the residence halls.

Third, over this same time period, the all-men's GPA was consistently above both groups living in approved housing. This enhanced performance by off-campus students may be due to this group consisting primarily of part-time, married, and upper-level

students. Each of the latter three categories traditionally tends to possess higher GPA's than freshmen and sophomores, the two groups dominating in approved housing units.

At UMR the sororities consistently maintain a grade point average above the all-campus, all-women average. Their pledges seldom fail to make the grades required for initiation. Fraternities are varied in their academic achievements. All have some academic programs and realize the need for improvement. Some pledge programs are being restructured to strengthen academic progress and excellence.

Recommendations:

We recommend that the University do the following:

1. Pledge its full assistance to each of the Greek organizations in performing suitable annual evaluations of programming as it affects the scholastic performance of individual Greek affiliates.
2. Use the results of the annual evaluation to develop and make available appropriate and constructive scholastic programming.

We recommend that the Greek organizations do the following:

3. Use the following data in evaluating the effect of its programming on its individual affiliates: a fraternal organization's comparison of its scholastic record with the all-fraternity average, the all-men's or all women's average, or the all-undergraduate average along with its assessment of the capabilities of its individual members.

B. Rushing

1. Fraternity Rush Procedures

Fraternity rush is essential to the financial health of each chapter. Therefore each chapter pays close attention to any UMR regulations (such as live-in rules) or changes in UMR procedure (availability of the names of entering freshmen) which may affect the living units. Most of the units must maintain an occupancy rate near to full capacity, or current bills and commitments cannot be met.

The fraternity system does not restrict formal rush to any one period nor is there a uniform approach to rush. A chapter develops a plan each year (or each semester) for the attraction of new members, controlled by general guidelines laid down by the

local InterFraternity Council or by its national organization. The plan is normally controlled by one or two individuals specifically designated as the rush chairman/men. Rush may require coordination of large numbers of activities and potential members over a considerable geographical area and for extended periods of time. The rush chairman must be organized, hard-working, and skilled at working with different constituencies.

Although rush for fraternities continues the year-round, the rush season is considered to begin with the availability of the names of incoming freshmen for the coming fall. These names and addresses are provided by the University in the early part of the spring semester, being sent directly to the InterFraternity Council and distributed by it to the individual fraternities. In the usual case, the IFC makes the first mailing of material to prospective members, and that material includes a brochure on the Greek system, the individual houses, and the general guidelines for rush. Provisions are made for the individual to express interest in a particular house or to indicate no interest in the Greek system. Once a card of "no interest" is returned by a student, that name is to be stricken from the availability list.

After the initial mailing by IFC, the individual houses are permitted to mail literature, make telephone calls, and arrange personal visits. Rush parties are arranged in central locations, sometimes during the spring, more often in the summer. The rules controlling the rush parties are determined by the IFC and the national headquarters of each house. Rush parties frequently require attendance by all actives in the area (or in the state) and are normally held in large population centers. Alumni in the area are often asked to participate.

At a time determined by the IFC, "bids" may be extended to prospective members. These bids are binding to the fraternity, but not to the rushee. He is free to decline the initial bid, accept another, or reject the whole idea. Once an initial bid is made and accepted, IFC rules require other fraternities to honor that commitment. "Tampering" with such a rushee can lead to IFC sanctions.

The importance of summer rush is obvious in the fraction of pledges obtained during that time. Eleven of the fraternities obtain more than 80% of their new members in the summer, another five get more than 50%, and only four do not have a summer rush. Some of the organizations (five in all) compensate the rush chairman for the work done during the summer, either in a salary or in room and board. The same individuals who make good rush chairmen are often good prospects for summer jobs, and this active can experience considerable financial loss by accepting the position.

The cost of rushing seems to parallel the fraternity's interest in summer rush: thirteen of the houses spend more than \$2000 on rush, five spend more than \$1000, and two more than

\$500. The contributed time, facilities, and donations of alumni, friends, and active members are considerable but not included in the figures. The use of alumni is essential to all of the chapters.

2. Sorority Rush Procedures

The sororities who have University recognition conduct a dry, formal rush during the week preceding Fall registration. The guidelines from their national organizations and UMR Panhellenic are very specific and are carefully reviewed and followed.

Information about sororities is given to new students in a variety of ways. General information is sent out year-round in the UMR Admissions packet, rush applications and information are handed out to students who attend summer orientation and mailed to the rest. Appropriate representatives in Panhellenic and each sorority receive copies of the completed applications.

Specific activities are planned for each day of rush week, beginning with a meeting on Monday of the house representatives to review the rules and regulations. The first meeting with the rushees is Wednesday; the rushees visit each of the houses on each of two days to tour the houses, meet the members, and receive financial information. Preference parties and bid matching occur on Sunday with strict confidentiality and in strict accordance with a national procedure by the rush alumni advisors.

Houses not at capacity are allowed to continue to rush informally until full. This is by invitation only and is conducted under strict rules.

Recommendations:

We recommend that the Greek organizations do the following:

1. Have a more structured fraternity rush.

In order to enhance the rush procedures already in place, IFC should work with the University Greek Advisor to create a more structured rush. This would enable freshmen who have no prior knowledge of fraternities to get a cross-sectional view of all fraternities, thus increasing pledges and decreasing depledges because the rushees would be making a more educated choice based on unique characteristics of each fraternity. Too often, freshmen pledge a fraternity to avoid living in residence halls; a structured rush would provide freshmen with more complete information for making their decision.

2. Have alcohol-free rush activities by the fraternities.

Since 1985, there has been a nationwide trend for fraternities to return to dry rush. Many systems change to dry rush reluctantly, stating that a smaller number of men would be interested in fraternities. However, in many cases, the opposite has been true and in most cases the overall quality of men pledging has improved. Dry rush improves the public image of fraternities and improves parental support. In addition, the interpersonal and recruitment skills of members are developed, which helps the groups promote the educational and leadership aspects of fraternities. Many national fraternities already ban alcohol from rushing activities and nearly every prospective member is under the legal age for consumption. Therefore, the task force supports the elimination of alcohol from all membership recruitment activities.

3. Have IFC and Panhellenic seriously reconsider how contact is made with new students in order to avoid excessive contact which some students have reported and called "harassment." For example, with the use of telephone contacts by the University for recruiting, the fraternity use of telephoning is creating an image problem for UMR.

We recommend that the University and Greek organizations do the following:

4. Work together to improve contact between the Greeks and new students, for example during Open House.

C. Pledging

Fraternity education is the common term used to describe the period of time a prospective member learns about the Greek organization. Each fraternity and sorority has certain goals for pledgship with the primary purpose being the development of responsible members. The organizations call these people pledges, associates, or interns and one fraternity initiates new members before fraternity education begins.

Each Greek organization is responsible for the development of its program. Many of the national headquarters have outlines for education programs, as well as activities and other learning experiences which help the fraternity educator design a worthwhile program. Studies have shown that Greek organizations with well-organized and meaningful programs are chapters with excellent morale, scholarship, social service and leadership.

The National Interfraternity Conference recommends that a meaningful education program include programming in the following areas: founding principles of the organization, national organization and local chapter history, chapter operations, responsibilities of membership, character development, leadership development, school and community involvement, and scholarship.

Recommendations:

We recommend that the University do the following:

1. Be sensitive to and knowledgeable of national guidelines for pledging and know when and how to initiate an investigation via the national organization. These guidelines emphasize planning activities that are meaningful and avoiding activities that border on hazing and denigration.

We recommend that the Greek organizations do the following:

2. Follow the national guidelines for pledging, especially planning activities, that are meaningful and avoiding activities that border on hazing and denigration. Following the national guidelines will increase chapter interest and improve relationships with UMR.
3. Have short pledgeships, with initiation for Fall semester pledges taking place by the conclusion of the second week of the second semester.

D. Living Conditions and Financial Concerns

1. House Occupancy Rate, Room and Board Payments

(The following information was obtained from data collected by Student Activities)

a. House Capacity: The average fraternity house capacity is 57 people; the average capacity for the sororities is 45. The average occupancy rate is 42 members per house for both fraternities (73% full) and sororities (93% full).

b. Member Costs: The average house bill per month (on an 8-month basis) per member is \$303 for the fraternities and \$321 for the sororities; this includes chapter dues and room and board. The costs compare favorably with the \$400 average monthly bill (on an 8-month basis) for the residence halls.

c. The average chapter house (with a mortgage of \$102,000 and living space for 50) needs an income of about \$110,000 a year. A full house and eight monthly payments of \$275 a member are required to cover the fixed cost of operation. In addition to providing financial stability, a full house allows the chapter to offer quality living arrangements for a reasonable cost.

2. Living Arrangements, Study Conditions, Insurance and Financial Status

(The following data was collected from written responses to the "Facilities Information Survey" in Appendix B. The faculty advisors for the 20 fraternities and 4 sororities were sent the survey and asked to reply; information came from the joint effort of actives, advisors, and house corporation members. Eighteen (82%) of the 22 groups having houses replied; two chapters have no house.)

a. House Safety: All responding houses reported having fire alarm systems and smoke detectors, either separate or in combination with whole house detectors. All houses answered safety questions; two houses reported having a sprinkler system, and three houses reported that the fire alarm system was connected to a central, off-campus monitoring station. Three houses reported no regular house safety inspection, and eight houses reported having no fire drills. One house reported having severe weather drills. Nine houses reported having smoking restrictions; there seemed to be a difference of opinion as to where smoking should be allowed, i.e., sleeping rooms or common living areas. Three houses replied that no one smokes. Two houses reported smoking was forbidden everywhere in the house.

b. House Size, Sleeping Capacity and Designated Study Areas: Houses ranged in size from 4,500 square feet to 18,000 square feet and with 8 to 51 sleeping rooms. The average reporting house has about 10,600 square feet with 27 sleeping rooms. All reported having common living areas; only three houses reported the absence of designated study areas. One house reported that each person had a single, individual room for studying.

c. House Insurance: Eleven houses reported house insurance covering replacement cost (ranging from \$127,000 to \$800,000). Two houses reported partial coverage. Most houses reported coverage for house contents; only one house (a sorority) reported that personal possessions were insured against loss.

d. Liability Insurance: Only three houses reported coverage amount (ranging from \$1 million to \$10 million). The remaining responses were blank. Upon further inquiry

the lack of response was found to be due to either the unavailability of a written description of liability coverage or a desire not to release such information. (Eleven houses are members of the Fraternity Insurance Purchasing Group.)

e. Mortgage and Financial Stability: All the chapter houses are owned by corporations. The average reported mortgage is \$102,000. [The actual average mortgage is probably closer to \$145,000 if one takes into account houses which did not reply to this question.] Two houses have mortgages between \$200,000 and \$300,000. Four houses reported mortgages between \$100,000 and \$200,000 and an equal number reported mortgages between \$50,000 and \$100,000. Four houses reported a mortgage of \$10,000 or less. Four houses left this question blank. Three houses reported financial stress associated with mortgage payments; in at least two cases this stress creates a need for diligent recruitment of new members to prevent a deficit.

f. Special Restrictions in Sorority Houses: In accordance with rules set up by the national organizations, sororities do not allow men in sleeping areas and prohibit possession of alcoholic beverages (or abusive drugs) on chapter property.

Recommendations:

We recommend that the University do the following:

1. Continue to include the fraternity and sorority houses in the University live-in rule.
2. Continue to distribute information on the Greek houses as part of the housing packet.
3. Facilitate the exchange of expertise and ideas on financial planning and management.
4. Organize some formal discussions on risk management as applicable to officers, chapter advisors, faculty advisors, and house corporations.

We recommend that the Greek organizations do the following:

5. Discuss in IFC or Panhellenic the question of safety and smoking restrictions and seek some professional safety advice.
6. Encourage all houses to carry out fire and severe weather drills.

7. Achieve security (twenty-four hour locked doors and good exterior lighting) for sorority houses.
8. Encourage faculty advisors to keep a current file containing pertinent data in a location outside the Greek house.

E. Academic Environment, Leadership Development, and Social Development

1. Academic Environment

Sororities and fraternities are expected by their national organizations to create a climate that promotes academic progress and excellence. The chapters should provide quiet times and places, tutoring for both individuals and groups, periodic grade checks by the scholarship chairman and follow-up help, and incentive programs and awards. The National Panhellenic Conference has resolved to encourage each college Panhellenic to maintain an all sorority average above the all women's average.

All the Greek houses have some or many of the following academic incentive programs: awards for highest GPA, improvement awards, time management and study skills programs offered by the counseling service, scholarship dinners, pride in the number of pledges being initiated, scholarships awarded both by national and local chapters, scholarships offered by alumni of each chapter and of Rolla Panhellenic, study table available and mandatory for those below an acceptable standard, tutors provided from within the house, and the intangible feeling of "not letting the house down with bad grades."

Statistics for UMR show that the sororities promote retention. Students are motivated to return each year to the familiar and established community, friends, and living arrangements.

RETENTION STATISTICS FOR SORORITIES

<u>Pledge Class</u>	<u>Total Number Pledged</u>	<u>Number of UMR Graduates</u>	<u>Percent Retention</u>
82/83	73	53	72.6
83/84	55	37	67.3
84/85	79	52	65.8
85/86	66	47*	71.2

*of the 47 students, 30 have graduated; 17 are still enrolled and scheduled for graduation in 1990.

RETENTION STATISTICS FOR FRATERNITIES

<u>Pledge Class</u>	<u>Total Number Pledged</u>	<u>Number of UMR Graduates</u>	<u>Percent Retention</u>
83/84	341	207	60.7
84/85	345	221	64.0
85/86	329	217	66.0

Retention is defined as receiving a degree from UMR or currently enrolled as a student at UMR. Interpreting the significance of these figures is difficult. First, retention data for UMR has not been kept regularly. However, a study of the 1982 freshman class found that 52.7% received degrees by Fall 1988; 45.6% had left UMR; 1.7% were still enrolled. Second, nation-wide retention data is gathered by groups using diverse parameters and definitions. The current UMR retention committee states there is a national retention rate of about 50% which has been quite constant. That committee also reports data from a study of 20 engineering schools. By the third and fourth years, 74% of the males and 55% of the females were still majoring in engineering.

2. Leadership Development

The fraternities and sororities are expected by their national organizations to provide opportunities and encouragement for their members to participate in campus activities and house government. Further the national organizations have philanthropies that campus chapters raise money to support and local philanthropies that they are also encouraged to support, both with money and with volunteer hours, e.g., parties for retarded children. The total education of a student should include training in leadership, peer cooperation and compromising, time

management, house management, personnel management, verbal skills in group and supervisory positions, and organizational skills.

Greek chapters at UMR enhance leadership development by encouraging their members to participate in clubs and organizations and by introducing them to people who can get them started in their endeavors. The chapters lend assistance when necessary to help their members grow and succeed. The houses have awards for members who become officers and leaders in campus organizations. For example, Panhellenic and IFC award prizes for the outstanding man and woman based on house activities and campus activities, as well as grades. Greek chapters are enriched and broadened by their national networking to which students contribute and receive ideas, ideals, and goals.

Each house is self governed. The students handle the management of the physical structure, the hired personnel, repairs, problems within the membership, billings and finances, meal planning, scholarship programs, pledge training, emergencies, and the daily running of a household of fifty to a hundred members. There are no housemothers living in the houses at UMR. The members all eventually have some responsibility in management, cooperative living, and reporting to the chapter. These responsibilities contribute to personal and professional growth.

3. Social Development

Historically, parents and the University have expected a high degree of social awareness and skills from members of Greek organizations. The membership is cohesive and self governing and a natural vehicle to promote, insist upon, and practice leadership and social skills. There is also the advice of alumni who realize the importance of these social and personal skills.

The Greek organization helps develop social skills with group exchanges; social introductions; formal meals; intergenerational contacts and friendships with alumni, advisors, parents, and various dignitaries. Etiquette, dress, behavior, resume and interview skills should be taught by experienced presenters and practiced at the houses.

Apparently not enough attention is being given to social skills. There have been comments made to UMR personnel by business people that our graduates do not progress as far as their education warrants due to the lack of these skills.

Both fraternities and sororities provide programs on alcohol and drug abuse and AIDS awareness; sororities also provide programs on eating disorders.

Recommendations:

We recommend that the University do the following:

1. Encourage Greek organizations to appreciate those who excel in academic achievement and to respect the choices that one makes on how to spend time.
2. Provide training in academic skills, leadership development, and social skills.

We recommend that the Greek organizations do the following:

3. Emphasize social skills as an integral part of a personal development program within the UMR Greek system and seek the assistance of the faculty advisors.
4. Seek University assistance in providing training in academic skills, leadership development, and social skills.

F. Public Image

Campus Image. An informal survey was used to examine the campus image of Greek life system. When students were asked about how they viewed the Greek system, they noted a difference between fraternities and sororities.

The students tend to have a more opinionated view of the fraternities than of the sororities. The students thought the fraternities had "lots of parties and alcohol" and they should place more emphasis on GPAs. On the other hand, they considered the members of the fraternities to be more outgoing than a typical male student on campus and thought of the fraternity as a good place to make friends. The students tend to know nothing of the mandatory study hours or the charity work fraternities do for the community.

Overall the fraternities tended to stand out when the students were asked about Greek life. The students had lots of opinion, some good and some bad. The opinion offered the most was of the parties, "lots of parties."

Alumni Image. A survey was conducted to determine the image of UMR Greek organizations among MSM-UMR Alumni. A sample survey form is included as Appendix C. This form was sent to the 55 alumni who currently serve on the Board of Directors of the MSM-UMR Alumni

Association. Graduation dates of these alumni range from 1937 to 1981; 52 are male and 3 are female. Seventy-five percent (41/55) of these alumni responded. Of the respondents, seventy-eight percent (32/41) had been fraternity or sorority members as undergraduates.

A compilation is shown here of the responses to question 2, which asked, "How constructive do you believe UMR's fraternities and sororities are in helping members to:

	<u>very</u> <u>const.</u>	<u>const.</u>	<u>not</u> <u>const.</u>	<u>no</u> <u>opinion</u>
Develop social skills	20	21	0	0
Develop leadership skills	20	17	4	0
Develop scholastic skills	3	26	9	3
Become successful professionals	16	17	4	4
Become loyal UMR alumni	18	18	1	4

Precise interpretation of the responses to the open-ended questions (questions 3-6) is impossible, but a brief impression may be summarized as follows:

QUESTION 3: The greatest service performed by UMR fraternities and sororities: Twenty-three respondents mentioned the Greek organizations as providing an extended "family" while away from home and introducing individuals to lifelong friendships. Thirteen respondents mentioned the opportunity for teamwork among peers, eight mentioned the opportunities for leadership experience, five mentioned suitable and pleasant housing and atmosphere, five mentioned charitable projects.

QUESTION 4: The greatest weakness of UMR's fraternities and sororities: Fourteen respondents were concerned about alcohol consumption, the public image of alcohol abuse, and the provision of an environment that failed to discourage alcohol abuse. Three respondents mentioned lack of academic emphasis. Three respondents mentioned lack of faculty supervision and advisement. All other general weaknesses were mentioned by fewer than three respondents.

QUESTION 5: Way the fraternities and sororities could be improved: Six respondents suggested educational programming on responsible drinking, four mentioned increased scholastic awareness and scholastic

competition, four mentioned improved faculty and alumni supervision. All other improvements were mentioned by one or two respondents.

QUESTION 6: Any other comments: Seven respondents variously expressed that the Greek system was essential to the campus. Most responses were quite positive.

Overall, the alumni image of the Greek organizations on the campus is quite positive, and most criticism is constructive.

Community Image. The task force drew on the knowledge of its own membership to assess Rolla's image of the Greek organizations. Overall, the people in Rolla--to the extent that they are aware of Greek activities--either cite the stereotyped behavior (drinking, playing loud music, partying with the opposite sex) or they cite whatever the Greeks are visibly doing at a particular time of the year. Alums value the Greek system, but residents near Greek houses complain about the noise level and loud music. Citizens are aware of charitable activities at those times of the year when the Greek members are collecting funds at street intersections; they are aware of the drinking at those times when the Greeks have party weekends.

Recommendation:

1. The University and Greek organizations should inform campus, community, and alumni of Greek accomplishments including awards, achievements, and activities in national and local charities.

- G. Communication between UMR and the Greek organizations.

The University-Greek organization relationship has been described as a partnership. Relations between these partners must be based upon trust and cooperation, with each partner having specific obligations and responsibilities.

1. Faculty Advisors

Each Greek organization is required to have a faculty advisor. This faculty advisor, depending upon the individual who holds the position and the organization advised, may be variously an advisor, friend, counselor, supervisor, or disciplinarian. The faculty advisor may or may not be an alumnus member of the organization, but membership would appear to enhance the advisor's role.

The advisor should be:

Knowledgeable about the organization and its programs.
Well acquainted with the organization's members,
pledges, officers, and alumni.
Acquainted with the parents of the members and pledges.
Available for organizational advice and individual
advice and counseling.
Involved in financial and programmatic planning.
Recognized by the University for participation in the
educational development of its students.
Fully supported and financially covered by the
University in cases of the faculty advisor's
exposure to liability in the advisor role.
Aware of University resources for consultation and
referral of problems beyond the advisor's expertise.

2. Interfraternity Council and Panhellenic Council

The IFC and Panhellenic are recognized student organizations made up of representatives of the Greek organizations. The role of the faculty advisors to IFC and Panhellenic parallels the role of the faculty advisors to individual Greek organizations. The IFC and Panhellenic coordinate the cooperative activities of the Greek organizations that are represented on the Councils. The Greek organizations allow these Councils to make rules that apply to the activities of the organizations and the Councils have systems in place to discipline organizations which violate the rules.

The Councils work in cooperation with the University, understanding the independent legal status of the University and the Greek organizations.

3. House Corporations

Chapter Houses are the responsibility of the House Corporation as owners of the houses. These Corporations must be responsive to the needs of their organizations insofar as these needs can be satisfied in a financially responsible manner.

4. National Organizations

National organizations having chapters at the University owe those chapters the greatest possible support in the way of programming assistance. The Nationals should maintain open and honest channels of communication with their local chapter and House Corporation and the University.

Recommendations:

We recommend that the University and Greek organizations do the following:

1. Recognize the faculty advisors as an additional communication link between the University and the Greek organization. The faculty advisor should be informed of all that transpires between these partners.
2. Recognize the corporations as an additional communication link between the University and the Greek organization.

MEMO TO: The Academic Council
FROM: The Admissions and Academic Standards Committee
RE: Recommendations for Agenda Items 1, 3, and 4.

Item #1.

The current regulation requires a review of the student's academic record at the department level if the student has been placed on academic probation two or more times. These students are considered scholastically deficient and may be dismissed from the University. Most often the possibility of dismissal coupled with the Department's warm advice and recommendation is sufficient to produce transformation -- frequently amazing transformation.

In some cases the department does not see good prospects for the student's achieving satisfactory academic performance in that department's offering and declines to allow the student to continue. Students who have been dismissed may apply to other departments. Readmission of dismissed students by a different department requires the approval of the admitting department.

A scholastically deficient student may appeal to the dean of the school or college in which he was enrolled or, to the dean of the school or college to which the student wishes to transfer, for reconsideration.

Removal from scholastic probation requires meeting the appropriate grade-point requirement, depending on the semester and passing nine (9) credit hours. (Part-time students are allowed an appeal process). The minimum of nine hours was a deliberate recommendation of the Committee and has been approved by the Council to encourage scholastically deficient students to reduce their academic workload and, hopefully, improve performance level of these students. The Committee believes the current policy is functioning as designed and recommends the following addition to the Manual of Information as a cautionary note:

IX. Unsatisfactory Work

2. c. You may remove scholastic probation at the close of a fall or winter semester by raising your grade point index to meet the minimum requirements for the semester in which you are registered, provided a minimum of nine (9) credit hours are passed. Students are cautioned that removal from scholastic probation with less than 12 hours of coursework may cause ineligibility for some university programs (student financial aid, athletics, etc.). It is the student's

PUBLIC OCCASIONS DATES FOR 1990-91

- Parents Day Saturday, September 29, 1990
- Industry Day Thursday, October 11, 1990
- Homecoming Friday and Saturday
October 12 and 13, 1990
- Commencement Saturday, December 15, 1990
- Science and Engineering Fair. . Friday and Saturday,
March 22 and 23, 1991
- Spring Open House Saturday, April 27, 1991
- Commencement. Saturday, May 11, 1991
- Summer Open House Friday, July 12, 1991

FALL SEMESTER 1991

Fall Semester opens 7:30am	Aug. 20, Tues.
Freshmen Orientation	Aug. 20, Tues.
New Student Orientation	Aug. 21, Wed.
Student Registration 8:15am-3:30pm	Aug. 22, Thurs.
Registration ends 12:00 noon	Aug. 23, Fri.
Classwork begins 7:30am	Aug. 26, Mon.
Labor Day Holiday	Sept. 7, Mon.
Mid-Semester	Oct. 19, Sat.
Thanksgiving vacation begins 7:30am	Nov. 27, Wed.
Thanksgiving vacation ends 7:30 am	Dec. 2, Mon.
Last Class Day	Dec. 13, Fri.
Reading Day	Dec. 14, Sat.
Final Examinations begin 8:00ams	Dec. 16, Mon.
Final Examinations end 5:30 pm	Dec. 20, Fri.
Fall semester closes 5:30 pm	Dec. 20, Fri.
Fall Commencement	Dec. 21, Sat.

SPRING SEMESTER 1992

Spring Semester opens 7:30am	Jan. 13, Mon.
Student Registration 8:15am-4:30pm	Jan. 13, Mon.
Classwork begins 7:30am	Jan. 16, Thurs.
Mid-Semester	Mar. 7, Sat.
Spring recess begins 7:30am	Mar. 12, Thurs.
Spring recess ends 7:30am	March 16, Mon.
Spring break begins 7:30am	March 28, Sat.
Spring break ends 7:30am	April 6, Mon.
Last Class Day	May 8, Fri.
Reading Day	May 9, Sat.
Final Examinations begin 8:00am	May 11, Mon.
Final Examinations end 5:30pm	May 15, Fri.
Spring Semester closes 5:30pm	May 15, Fri.
Annual Commencement	May 16, Sat.

*SUMMER SESSION 1992

Summer Session opens 7:30am	June 8, Mon.
Student Registration 8:15am-3:30pm	June 8, Mon.
Classwork begins 7:30am	June 9, Tues.
Independence Day Holiday	July 3, Fri.
Summer Session closes 12:00 noon	Aug. 1, Sat.

*Schedule shows the regular eight-week Summer Session. Other special course sessions may be scheduled.

CLASS SESSIONS (Excluding final examinations)

	M	Tu	W	Th	F	S
Fall Semester	15	16	15	15	15	14
Spring Semester	15	15	15	15	15	13
Summer Semester	7	8	8	8	7	7

NOTE: For the St. Louis Graduate Center, all class sessions, holidays/examinations will coincide with the calendar of the University of Missouri-St. Louis evening program.

Registration times and dates to be announced later.

The faculty is reminded of the religious and other holidays that a substantial number of students may wish to observe.



UNIVERSITY OF MISSOURI-ROLLA

College of Arts and Sciences

Department of Philosophy

G-4 Humanities-Social Sciences Bldg.
Rolla, Missouri 65401-0249
Telephone (314) 341-4869

October 9, 1989.

MEMO TO: Academic Council Members

FROM: Budgetary Affairs Committee,
Carol Ann Smith, Chair

A handwritten signature in black ink, appearing to read 'CAS', is written over the name 'Carol Ann Smith' in the 'FROM' line.

RE: Proposed B.Sc. in Management Systems.

The following resolution will be presented at the October 19th Council meeting for your consideration:

Recognizing that even within severe budget constraints a university needs to modify its programs,
and, Recognizing that no new dollars are needed initially for this program beyond reallocation dollars,

The Budgetary Affairs Committee recommends that the proposed B.Sc. in Management Systems be approved.

Please note. Council members should be advised that the vote in the Budgetary Affairs Committee on this resolution was extremely close.

Attachment III.E

PUBLIC OCCASIONS DATES FOR 1990-91

Parents Day Saturday, September 29, 1990

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Homecoming Friday and Saturday
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NOTE: For the St. Louis Graduate Center, all class sessions, holidays/examinations will coincide with the calendar of the University of Missouri-St. Louis evening program.

Registration times and dates to be announced later.

The faculty is reminded of the religious and other holidays that a substantial number of students may wish to observe.



UNIVERSITY OF MISSOURI-ROLLA

Academic Council

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SUMMARY
UMR ACADEMIC COUNCIL MEETING
October 19, 1989

President Askeland reported that the Curators met October 12-13. Among the items before them, they approved the building expansion for Electrical Engineering and the UMR Bylaws revision. The proposed benefits package may be approved at the December meeting. The Curators accepted the assessment report and no formal action was taken regarding the Martin Luther King holiday proposal. Dr. Park presented documentation to the Curators showing that support for academic computing in the UM System was falling behind relative to Big 8/10 universities.

Chancellor Jischke reported on funding of UMR athletics. About \$1.3 million per year goes to intercollegiate athletics and about \$0.3 million each goes for intramural and recreational athletics. The crisis arises because the level of funding has decreased as a consequence of the decline in enrollment. In addition, UMR has been unable to fund the quota of athletic scholarships allowed for NCAA Division II schools. Although fund raising efforts have resulted in a 50 percent increase in external funding of athletics, the increase has been insufficient to close the gap created by loss of income due to enrollment drops. The only option available for resolving the problem appears to be reduction of expenditures. Of the three general options considered thus far, dropping out of NCAA Division II, increasing student activity fees, and eliminating some intercollegiate programs, only the latter seems to have promise. The current recommendation of the Director of Athletics is to eliminate mens' and womens' soccer, tennis, and the rifle team. Part of the cost savings would be used to expand intramural facilities and to hire a full time intramural director. However, no decision has been made and the administration is still seeking input regarding possible options. Chancellor Jischke reiterated his commitment to a strong UMR athletic program, including varsity athletics, and cited reasons of tradition, development of healthy life-styles, and the general positive effect that all athletics have on the educational experience at UMR.

Budgetary Affairs submitted resolutions to 1) approve the proposals from the Faculty and Staff Benefits Planning Committee and 2) to recommend that an ongoing study of faculty and staff benefits and an ongoing comparison with Big 10 benefits be initiated. Both resolutions passed unanimously.

Budgetary Affairs, recognizing that academic programs may need to be modified even in times of fiscal austerity and noting that start up dollars beyond reallocation funds would be unnecessary, recommended that the proposed B.Sc in Management Systems be approved. The motion to that effect was passed.

Personnel reported broad based UMR opposition to the proposed "Conflict of Interest Policy" (revised August 15, 1989). It was recommended that a concise policy statement be prepared in accordance with the legislative directive. It was suggested that the statement have the form

Policy: University employees shall faithfully discharge their university duties and avoid from engaging in any outside matters which are not compatible with the principles outlined in the AAUP/ACE Statement on Conflict of Interest (Second Impression, January 1966).

The motion to forward the recommendation passed without dissent.

Public Occasions moved that the date for the 1990 Spring Open House be changed from April 14 to April 28 to avoid a conflict with Easter Weekend. The motion passed.

SPECTRUM

News for faculty and staff from the Oct. 12-13 Board of Curators meeting, UM-Columbia
Curators approved a 9 percent increase in faculty and staff medical plan premiums effective Jan. 1. The University's contributions to the plan, which provide about two-thirds of the total cost, also will rise 9 percent. There are no premium increases in the University's dental or long-term disability insurance programs.

A committee of faculty, staff and students will be formed to make recommendations to the president about how the University should observe the birthday of Martin Luther King Jr. The president hopes to take a recommendation to the board next spring. The committee will be appointed after the chancellors submit recommendations of members. If the University were to add a holiday to the list of existing holidays, the cost would be \$644,000 -- the amount of staff salaries paid for one day. If the University were to add a holiday in exchange for one of the staff's existing four personal days, the cost would be \$71,000 -- the amount of overtime pay for staff members required to work.

Proposals for improving the University's retirement program would provide a higher basic pension for retirees than the state retirement program offers, curators were told, and overall would provide retirement benefits that are comparable to state retirement benefits. The report was a follow-up to a September review comparing the University's current retirement benefits with state benefits. The board in December will receive benefits recommendations from the president, who is considering proposals presented by a special faculty and staff benefits committee.

This meeting of the Board of Curators marked the 150th anniversary of the first meeting of the board in October 1839, also held in Columbia. President C. Peter Magrath used the anniversary as an opportunity to share with curators his vision for the University created in 1839 and recreated in 1963 as a four-campus system. "It is a University System constituted of four strong, diverse and vibrant campuses with strong extension programs working together, each exuding energy and self-confidence, buoyed by its own contributions and sharing the pride of mutual successes that enrich the human condition," Magrath said.

Assessment here reflects assessment trends nationwide, the board was told in a report on 1988-89 assessment. Nationally and throughout the University System, assessment activities focus heavily on specific disciplines and individual majors and result in curriculum improvements. Also here and elsewhere, universities are questioning the value of general education assessment, which has proved to be the least valuable of the academic assessment efforts throughout the UM System.

Academic computing needs more money, says a report given curators by a Systemwide task force. To stay competitive, the University would need to double its investment in academic computing. If it doesn't, the report says, the University will have to triple its investment in five years to catch up to peer universities. That investment is recommended in addition to needed capital expenditures for facilities to support academic computing.

The board is now formally involved in the process of discontinuing programs and academic departments. Curators expressed concern in July that their approval was required for starting, but not for discontinuing, a program. The process will not alter the involvement of faculty, campus administrators and the president in such decisions.

Next meeting: Dec. 7-8, UM-Columbia



UNIVERSITY OF MISSOURI-ROLLA

School of Mines and Metallurgy

Department of Geology and Geophysics

125 McNutt Hall
Rolla, Missouri 65401-0249
Telephone (314) 341-4616

11/15/1989

MEMORANDUM TO: Celia Brotherton
Secretary to the Academic Council

FROM: Robert Laudon, Chairman
Academic Assessment Committee

SUBJECT: Assessment Day Off

The UMR Student Council has passed several resolutions asking for a true day off during the semester that the Assessment proceedings occur. The Student Council has also indicated that if a true day off is not possible, they will support a "day off" that is replaced by a day at the beginning of the semester. It should be made clear that their first choice is a true day off, that is, a day off that is not replaced by an additional day somewhere else in the calendar.

The following resolution was made and seconded during the June meeting of the Academic Council. The resolution was tabled pending certification that such a resolution would satisfy the Student Council.

an "Assessment day off" be granted during the Spring semester on the Friday before preregistration for the Fall semester. To compensate for this day off, a day must be added to the semester, either at the beginning of the semester, at the end of the semester, or from one of the present holidays. It is understood that "Assessment day off" is not the same as "Assessment Day." Students who do not fulfill their assessment requirements on "Assessment Day" must do so on "Assessment day off."

Because of ABET accreditation, North Central accreditation, and "Time on Task" considerations (see attached), the Academic Assessment Committee feels that it is not appropriate to reduce the number of days in either of the present semesters. The Academic Assessment Committee now recommends that the resolution read:

Be it resolved that:

An "Assessment day off" will be granted during the Spring semester on the Friday before preregistration for the Fall semester. To compensate for this day off, classes during the Spring semester will begin one day earlier than at present.

cc: Don Askeland



UNIVERSITY OF MISSOURI-ROLLA

Office of the Registrar

103 Parker Hall
Rolla, Missouri 65401-0249
Telephone (314) 341-4181

MEMO TO: Academic Council
FROM: Curricula Committee
SUBJECT: November 16, 1989, Meeting

EC1's Reviewed:

EC1 239, Philosophy & Liberal Arts, Speech & Media 101, Intercultural Communication. Approved for Winter 1990. 3 hours credit. Prerequisite: Speech 85.

EC1 240, Chemistry 401, Inorganic Polymers. Approved for Winter 1990. 3 hours credit. Prerequisite: Chem 435 or 381.

EC1 241, Economics 301, Finance. Approved for Winter 1990. 3 hours credit. Prerequisite: Econ 230, Econ 240 and Stat 115.

EC1 242, Chemistry 401, Optical & Vibrational Spectroscopy. Approved for Winter 1990. 3 hours credit. Prerequisite: Chem 455.

EC1 243, English 101ML, Introduction to Shakespeare. Approved for Winter 1990. 3 hours credit. Prerequisite: Freshman composition.

EC1 244, Aerospace Engineering 301, Mechanics of Space Flight. Approved for Winter 1990. 3 hours credit. Prerequisite: AE 213.

EC1 245, Mechanical Engineering 401, Computational Heat Transfer and Fluid Flow. Approved for Winter 1990. 3 hours credit. Prerequisite: ME 339.

CC1's Reviewed:

CC1 3173, Engineering Management 344, Interdisciplinary Problems in Manufacturing Automation. Approved new course for Winter 1990. 3 hours credit. Prerequisites: EMgt 334 or ME 335 or approved preparatory courses in ChE or EE. Description reads: Students will gain experience in dealing with a manufacturing automation project. The lecture portion is planned with presentations from faculty and guest speakers. The laboratory portion will be organized as several short courses dealing with an aspect of manufacturing automation.

CC1 3180, English 244, The Bible as Literature. Approved for Winter 1990. Change of course number from 144. Prerequisites changed from English 1 to English 1 and one semester of college literature.

CC1 3181, Philosophy & Liberal Arts 379, Literature of Hispanic Nations. Approved for Winter 1990. New course. 3 hours credit. Prerequisite: Span 170. Description reads: The study of the contemporary literature of Hispanic nations: Chile, Argentina, Mexico, Venezuela, Colombia, Peru or Spain.

CC1 3182, Philosophy 035, Business Ethics. Approved for Winter 1990. New course. 3 hours credit. Prerequisite: Entrance Requirements. Description reads: Develop ethical concepts relevant to deciding the moral issues that arise in business. Topics include: economic systems, government regulations, relations to external groups and environment, advertising, product safety and liability, worker safety and rights, rights and responsibilities of business professionals.

CC1 3184, Computer Science 306, Software Engineering I. Approved for Fall 1990. Change in course title from Designing Information Systems. Changed description reads: Effective use of the ADA programming language in the development of Software Systems. Material covered is, software engineering goals and principles, role of formal specifications, top-down and object oriented design, data types, parallel and real-time system development, input/output, and portability/reuse.

CC1 3185, Computer Science 308, Software Engineering II. Approved for Fall 1990. Change in course title from Software Development. Change in prerequisites from CSc 253 to CSc 306. Changed description reads: Methods for designing, organizing, managing, developing, and verifying large-scale software systems; estimating specification languages, decomposition techniques, serious design techniques, problem-solving strategies, structured programming, and testing.

CC1 3188, Chemical Engineering 381, Corrosion and Its Prevention. Approved for Fall 1990. Change in prerequisites from Chem 223, Chem 243 to Chem 243.

CC1 3191, Mechanical Engineering 345, Non-intrusive Measurement Methods. Approved for Winter 1990. Change in course title from Experimental Methods in Radiative Transfer. Changed description reads: Introduction to measurement methods useful to a mechanical engineer. Emphasis is placed on radiation measurement methods, including the effects of various sources and detectors.

CC1 3192, Chemical Engineering 027, Chemical Engineering Calculations. Approved for Fall 1990. Change in prerequisites from Chem 3, Math 8, ChE 20 to Chem 3, Math 8, accompanied or preceded by ChE 20.

CC1 3193, Civil Engineering 316, Elementary Earthquake Engineering. Approved for Winter 1990. New course. 3 hours credit. Prerequisite: CE 215. Description reads: Survey of damage to Civil Engineering structures during earthquakes, magnitude and intensity scales, theory of vibrations, spectral response, simple soil and structure analysis during earthquakes, ATC and uniform building codes.

CC1 3194, Civil Engineering 427, Optimum Structural Design. Approved for Fall 1990. New course. 3 credit hours. Prerequisite: CE 221, CE 223, CE 320. Description reads: Formulation of optimum design; methods for linear, nonlinear, geometric, and dynamic programming; optimality criterion methods; finite element analysis; applications to reinforced concrete and steel structures subjected to static and dynamic loads; optimal control; computer programs ODSEWS-2D-II and ODRESB-3D.

programs ODSEWS-2D-II and ODRESB-3D.

CC1 3195, Civil Engineering 425, Finite Element Application in Structural Design. Approved for Fall 1990. Changed description reads: Concepts of analysis and design. Generalized coordinate models and isoparametric derivations for one, two, and three dimensional elements. Systems with plate and shell elements. Structural instability problems. Elastic and inelastic systems for static and dynamic loads. Studies of computer programs.

CC1 3196, Engineering Management 389, Packaging Materials II. Approved for Fall 1990. Change in prerequisites from Preceded or accompanied by EMgt 208 to EMgt 383.

CC1 3197, Engineering Management 388, Packaging System Design. Approved for Fall 1990. Change in course title from Case Studies in Packaging System Design. Prerequisites changed from Preceded or accompanied by EMgt 208 and 251 to EMgt 383.

CC1 3198, Engineering Management 332, Engineering Cost Accounting. Approved for Fall 1990. Change in course title from Cost Accounting. Prerequisites changed from Senior or graduate standing to EMgt 230 or graduate standing. Changed description to: Analysis and design of job, process and standard cost accounting methods in manufacturing environment, interrelationship of cost accounting methods, and justification of automation in a technological setting.

CC1 3200, Engineering Management 260, General Management: Design and Integration. Approved for Winter 1990. Changed description to: Integrating and executing marketing, production, finance, and engineering policies and strategies for the benefit of an enterprise. Analysis, forecasting, and design methods using case studies and management simulations.

CC1 3201, Engineering Management 385, Statistical Process Control. Approved for Fall 1990. Change in prerequisites from Math/Stat 215 to Stat 213 or equivalent. Change description reads: The theoretical basis of statistical process control procedures is studied. Quantitative aspects of SPC implementation are introduced in context along with a review of Deming's principles of quality improvement and a brief introduction to sampling inspection.

CC1 3202, Engineering Management 384, Packaging Materials. Approved for Winter 1990. Prerequisites changed from Senior or graduate standing to Preceded or accompanied by EMgt 383.

CC1 3203, Ceramic Engineering 423, Sintering and Microstructure Development. Approved for Fall 1990. Change in course title from Sintering and Grain Growth in Solids. Changed description reads: Theory and practice of densification, microstructure evolution, effect of processing and material factors, grain boundary migration, grain growth.

CC1 3205, Ceramic Engineering 242, Ceramic Processing Lab II. Approved for Winter 1990. Change in course title from Ceramic Materials Lab IV-Fabrication Methods. Changed description reads: The second half of a two-semester sequence that gives students practical knowledge of the methods and techniques used in the fabrication of ceramics.

CC1 3206, Ceramic Engineering 231, Ceramic Processing Lab I. Approved for Winter 1990. Change in course title from Ceramic Materials Lab III-Thermal Processes and Properties. Changed description to: The first half of a two-semester sequence that gives students practical knowledge of the methods and techniques used in the fabrication of ceramics.

CC1 3209, Ceramic Engineering 261, Ceramic Engineering Design Lab. Approved for Winter 1990. Increase of credit hours from 1 to 2.

Larry Vonalt
Larry Vonalt, Chair



UNIVERSITY OF MISSOURI-ROLLA

Office of the Registrar

103 Parker Hall
Rolla, Missouri 65401-0249
Telephone (314) 341-4181

MEMO TO: Academic Council
FROM: Curricula Committee
SUBJECT: November 16, 1989, Meeting

EC1's Reviewed:

EC1 239, Philosophy & Liberal Arts, Speech & Media 101, Intercultural Communication. Approved for Winter 1990. 3 hours credit. Prerequisite: Speech 85.

EC1 240, Chemistry 401, Inorganic Polymers. Approved for Winter 1990. 3 hours credit. Prerequisite: Chem 435 or 381.

EC1 241, Economics 301, Finance. Approved for Winter 1990. 3 hours credit. Prerequisite: Econ 230, Econ 240 and Stat 115.

EC1 242, Chemistry 401, Optical & Vibrational Spectroscopy. Approved for Winter 1990. 3 hours credit. Prerequisite: Chem 455.

EC1 243, English 101ML, Introduction to Shakespeare. Approved for Winter 1990. 3 hours credit. Prerequisite: Freshman composition.

EC1 244, Aerospace Engineering 301, Mechanics of Space Flight. Approved for Winter 1990. 3 hours credit. Prerequisite: AE 213.

EC1 245, Mechanical Engineering 401, Computational Heat Transfer and Fluid Flow. Approved for Winter 1990. 3 hours credit. Prerequisite: ME 339.

CC1's Reviewed:

CC1 3173, Engineering Management 344, Interdisciplinary Problems in Manufacturing Automation. Approved new course for Winter 1990. 3 hours credit. Prerequisites: EMgt 334 or ME 335 or approved preparatory courses in ChE or EE. Description reads: Students will gain experience in dealing with a manufacturing automation project. The lecture portion is planned with presentations from faculty and guest speakers. The laboratory portion will be organized as several short courses dealing with an aspect of manufacturing automation.

CC1 3180, English 244, The Bible as Literature. Approved for Winter 1990. Change of course number from 144. Prerequisites changed from English 1 to English 1 and one semester of college literature.

CC1 3181, Philosophy & Liberal Arts 379, Literature of Hispanic Nations. Approved for Winter 1990. New course. 3 hours credit. Prerequisite: Span 170. Description reads: The study of the contemporary literature of Hispanic nations: Chile, Argentina, Mexico, Venezuela, Colombia, Peru or Spain.

CC1 3182, Philosophy 035, Business Ethics. Approved for Winter 1990. New course. 3 hours credit. Prerequisite: Entrance Requirements. Description reads: Develop ethical concepts relevant to deciding the moral issues that arise in business. Topics include: economic systems, government regulations, relations to external groups and environment, advertising, product safety and liability, worker safety and rights, rights and responsibilities of business professionals.

CC1 3184, Computer Science 306, Software Engineering I. Approved for Fall 1990. Change in course title from Designing Information Systems. Changed description reads: Effective use of the ADA programming language in the development of Software Systems. Material covered is, software engineering goals and principles, role of formal specifications, top-down and object oriented design, data types, parallel and real-time system development, input/output, and portability/reuse.

CC1 3185, Computer Science 308, Software Engineering II. Approved for Fall 1990. Change in course title from Software Development. Change in prerequisites from CSc 253 to CSc 306. Changed description reads: Methods for designing, organizing, managing, developing, and verifying large-scale software systems; estimating specification languages, decomposition techniques, serious design techniques, problem-solving strategies, structured programming, and testing.

CC1 3188, Chemical Engineering 381, Corrosion and Its Prevention. Approved for Fall 1990. Change in prerequisites from Chem 223, Chem 243 to Chem 243.

CC1 3191, Mechanical Engineering 345, Non-intrusive Measurement Methods. Approved for Winter 1990. Change in course title from Experimental Methods in Radiative Transfer. Changed description reads: Introduction to measurement methods useful to a mechanical engineer. Emphasis is placed on radiation measurement methods, including the effects of various sources and detectors.

CC1 3192, Chemical Engineering 027, Chemical Engineering Calculations. Approved for Fall 1990. Change in prerequisites from Chem 3, Math 8, ChE 20 to Chem 3, Math 8, accompanied or preceded by ChE 20.

CC1 3193, Civil Engineering 316, Elementary Earthquake Engineering. Approved for Winter 1990. New course. 3 hours credit. Prerequisite: CE 215. Description reads: Survey of damage to Civil Engineering structures during earthquakes, magnitude and intensity scales, theory of vibrations, spectral response, simple soil and structure analysis during earthquakes, ATC and uniform building codes.

CC1 3194, Civil Engineering 427, Optimum Structural Design. Approved for Fall 1990. New course. 3 credit hours. Prerequisite: CE 221, CE 223, CE 320. Description reads: Formulation of optimum design; methods for linear, nonlinear, geometric, and dynamic programming; optimality criterion methods; finite element analysis; applications to reinforced concrete and steel structures subjected to static and dynamic loads; optimal control; computer programs ODSEWS-2D-II and ODRESB-3D.

programs ODSEWS-2D-II and ODRESB-3D.

CC1 3195, Civil Engineering 425, Finite Element Application in Structural Design. Approved for Fall 1990. Changed description reads: Concepts of analysis and design. Generalized coordinate models and isoparametric derivations for one, two, and three dimensional elements. Systems with plate and shell elements. Structural instability problems. Elastic and inelastic systems for static and dynamic loads. Studies of computer programs.

CC1 3196, Engineering Management 389, Packaging Materials II. Approved for Fall 1990. Change in prerequisites from Preceded or accompanied by EMgt 208 to EMgt 383.

CC1 3197, Engineering Management 388, Packaging System Design. Approved for Fall 1990. Change in course title from Case Studies in Packaging System Design. Prerequisites changed from Preceded or accompanied by EMgt 208 and 251 to EMgt 383.

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CC1 3209, Ceramic Engineering 261, Ceramic Engineering Design Lab. Approved for Winter 1990. Increase of credit hours from 1 to 2.

Larry Vonalt
Larry Vonalt, Chair



UNIVERSITY OF MISSOURI-ROLLA

SUMMARY
Academic Council Meeting
November 30, 1989

Academic Council

Curtis Wilson Library
Rolla, Missouri 65401-0249
Telephone (314) 341-4972

President's Report President Askeland reviewed several recent and on-going items of interest. Chancellor Jischke's plan for intercollegiate, intramural, and recreational athletics, including reduction of the Athletic staff through retirement, hiring a full-time intramural director, and an addition to the Multi-Purpose Building, required an increase in the student athletic fee; this plan was approved by the students. Several items of interest to the campus, including the faculty and staff benefits package, the conflict of interest policy, and admissions performance standards, are expected to be presented to the Board of Curators on December 7 and 8. Planning to improve funding for the University and planning to update the long range plan and integrate it with the agenda for action are underway. A scanner suitable for creating and grading multiple choice exams is available in the Computer Center for faculty use. A progress report on the procedures and instrument for evaluation of teaching effectiveness will be presented at the January Council meeting; Vice Chancellor Park would like to have suggestions for any improvements to this evaluation.

Committee Reports A recommendation for designating an Assessment Day Off on the Friday before preregistration for the Winter semester, to be replaced by an extra class day at the beginning of the semester, was offered by the Academic Assessment Committee. After a lengthy discussion, a motion to approve this recommendation was defeated by the Council.

The Admissions and Academic Standards Committee reviewed the proposed requirements for admission to the university, which will be presented to the Board of Curators in December, and shared a letter to Vice Chancellor Park restating the Committee's objections to the proposal. The Academic Council voted to reaffirm these objections, including the procedure by which a fine arts unit was added to the high school requirements: the Council's view will be sent to the University System.

A recommendation for a policy governing use of the Hockey Puck by the St. Pat's Board, introduced by the Student Affairs Committee, was tabled.

A resolution from the Rules, Procedures, and Agenda Committee was adopted by the Council; this resolution states that the faculty look to the Board of Curators and University administrators for leadership in seeking increased tax support and that the faculty will join in efforts to obtain additional tax revenues for Higher Education and the University of Missouri.

Among other items from the Intercampus Faculty Committee, Dr. Pogue reported that, should the faculty and staff benefits package be adopted by the Board of Curators, the non-retirement aspects of the package would be implemented beginning January but the retirement aspects may not be implemented until September. However some provisions may be made for those persons who wish to retire before September. Dr. Pogue urged that persons planning to retire before next September be very careful to obtain clarification of the policy.

In other actions, Report #3 of the Curricula Committee was approved, along with the constitutions of the Environmental Protection Advocates, the Blue Sabres, and the Association of Guitar Enthusiasts.



UNIVERSITY OF MISSOURI-ROLLA

Academic Council

Curtis Wilson Library
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UMR Faculty

A G E N D A

November 23, 1989

Academic Council Meeting, Thursday, November 30, 1989; 1:30 p.m.; G-5 H/SS.

- I. Approval of minutes of October 19, 1989 (VOL. XIX, NO. 2) meeting.
- II Reports and Responses
 - A. President's Report (5 min.) Don Askeland (4730)
 - B. Referrals
- III. Reports of Standing and Special Committees
 - A. D.6.a Academic Assessment (10 min.) Robert Laudon (4466)
 - *1. Assessment Day Proposal
 - B. D.6.b Academic Freedom (No Report) Don Oster (4817)
 - 1. Academic Freedom and Outside Teaching Assignment Administrative Response (June 15, 1989; XVIII, 7; II.B.4)
 - C. D.6.c Admissions and Academic Standards (10 min.) Thomas Herrick (4507)
 - 1. Revised Regulations for Removing a Student from Academic Probation (April 23, 1987; XVI, 8; IV.A.1)
 - 2. Excused Absence Procedure (May 5, 1988; XVII, 8; II.B.1)
 - 3. Co-op Training Requirements (October 19, 1989; XIX, 2; II.B.2)
 - 4. Admission Performance Standards
 - D. D.6.i Curricula (5 min.) Ron Howell (4638)
 - 1. CAPS and the Graduation Catalogue (June 25, 1987; XVI, 9; IV.A.1)
 - 2. Time Limitation of the Graduation Catalogue (June 25, 1987; XVI, 9; IV.A.2)
 - 3. Fee Structure Inequities (December 8, 1988; XVIII, 3; II.C.1)
 - 4. Infrequently Taught Courses (September 14, 1989; XIX, 1; III.B.1)
 - 5. Procedures for Academic Program Approval (September 14, 1989; XIX, 1; III.B.4)
 - *6. Report No. 3, 1989-90.
 - E. D.6.o Personnel (No Report) Vince Roach (4449)
 - 1. Qualifications for Professorial Ranks (September 14, 1989; XIX, 1; III.B.2)
 - F. D.6.r Rules, Procedure & Agenda (10 min.) Jerry Bayless (4151)
 - *1. Support For Tax Initiative
 - G. D.6.s Student Affairs (5 min.) Ron Howell (4638)
 - 1. Procedures for Student Requests for Waivers of Deadlines (September 14, 1989; XIX, 1; III.B.3)
 - *2. Constitutions - Environmental Protection Advocates
- Association of Guitar Enthusiasts
- Blue Sabres
 - *3. Hockey Puck Sales Resolution
 - H. Intercampus Faculty Council (5 min.) Jim Pogue (4784)
- IV. Old Business
- V. New Business

P & A Cmtt.

LW/cmb/11-14-89

*Supplementary materials sent to Academic Council members and department chairmen.
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UNIVERSITY OF MISSOURI-ROLLA

Academic Council

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VOL. XIX, NO. 3
November 30, 1989

SUMMARY of the reports, actions, referrals and announcements made at the meeting of the Academic Council held on November 30, 1989.

1. Approval of minutes of the October 19, 1989, Council meeting.

2. Reports and responses.

A. President's report - D. Askeland

3. Reports of standing and special committees.

A. Academic Assessment - R. Laudon

1. Assessment day proposal
(Attachment III.A)

B. Admissions and Academic Standards - T. Herrick

1. Admission performance standards
(Attachment III.B)

C. Curricula - R. Howell

1. Report No. 3, 1989-90
a. Seven experimental courses presented
b. Seventeen course/curriculum changes approved
c. Five new courses approved
(Attachment III.C)

D. Rules, Procedure and Agenda - L. Williams

1. Support for tax initiative
(Attachment III.D)

E. Student Affairs - R. Howell

1. Constitutions
a. Environmental Protection Advocates
b. Association of Guitar Enthusiasts
c. Blue Sabres
(Attachment III.E.1)
2. Hockey puck sales resolution
(Attachment III.E.2)

F. Intercampus Faculty Council (ICFC) - J. Pogue

Attachments: III.A
III.B
III.C
III.D
III.E.1
III.E.2



UNIVERSITY OF MISSOURI-ROLLA

Academic Council

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VOL. XIX, NO. 3
November 30, 1989

XIX, 3 The November 30, 1989, meeting of the Academic Council was
.1 called to order at 1:31 p.m. by Prof. Donald R. Askeland,
Academic Council President. The following substitutions
were recognized: Prof. Nicholas Tsoulfanidis for Dean Don
Warner; Prof. Nancy Hubing for Prof. Max Anderson; and Prof.
Darryl Alofs for Prof. John Sheffield. Mr. Richard Turner,
Senior Laboratory Mechanic, was recognized as this month's
Staff Council representative. The motion to approve the
October 19, 1989, Council minutes was made by Prof. Lance
Williams, seconded, and passed.

XIX, 3 REPORTS AND RESPONSES.

.2

A. PRESIDENT'S REPORT. President Donald Askeland, per
Chancellor Jischke's request, reminded Council of the
plan to maintain soccer, tennis, and rifle as inter-
collegiate sports, increase the athletic fee by \$5 per
semester now and \$12.50 later (approved by student
ballot recently), to reduce administrative staff through
retirement (eliminating one coaching position), to
enlarge our multi-purpose facility, and with activity
consolidation, hire a full-time intramural director.

The Board of Curators, at their December meeting, is
expected to act on the faculty/staff benefits package
and the conflict of interest policy (the document to be
discussed is similar to the latest version which we last
reviewed). Vice-Chancellor Park has informed
Vice-President Wallace of our reservations concerning
the above policy statement. Also to be acted on are
admission standards, the final draft of which was
submitted by UMC with additional items attached.

Planning to improve University funding is in progress,
and comments indicated that any increase will require
that we demonstrate more efficient use of existing
resources. Further integration/update of the long-range
plan and agenda for action items is also to be expected.

Comments requested by President Askeland concerning our
mission statement have been received through memorandum
circulation. Faculty request (1) that ample opportunity
to review the mission statement, goals and objectives,
and the five-year plan be provided; (2) that references
to engineering education in urban areas be made within
UMR's mission statement; and (3) that the Arts and

Sciences be emphasized within the statement as important programs unto themselves, not merely complimentary to engineering.

The computing center has available a scanner suitable for multiple-choice exam grading. Also a color printer for use with IBM PC and Macintosh software will be available in the near future for a nominal fee courtesy of the Chemistry Department.

Teaching evaluation using the newly devised instrument has been completed. Vice-Chancellor Park welcomes any comments toward improvement for following semesters and reiterates that self-, peer, and chair evaluations are also important to the evaluative process. A progress report, with input from the Committee on Effective Teaching, has been requested for the January Council meeting.

XIX, 3 REPORTS OF STANDING AND SPECIAL COMMITTEES.

.3

A. ACADEMIC ASSESSMENT.

1. ASSESSMENT DAY PROPOSAL. Prof. Lance Williams moved to remove this issue from the table. Prof. Vincent Roach seconded the motion, which carried. As a follow-up of last month's report, Prof. Robert Laudon indicated that, per Student Council's request for additional information, the Assessment Committee did investigate but found no definition of school year length within North Central or ABET documentation. Governor Ashcroft's "Time on Task" chart with its scatter of data indicates, in Committee opinion, (1) a lack of a defined school year and/or one derived by mere consensus of opinion; and (2) a trend from 1940 on in school year length decrease. In view of the above and Student Council's resolve to support a true day off for assessment day (on a Monday or a Friday) and their concession that a replacement day could be added at the beginning of the Winter Semester, the Assessment Committee now recommended approval of an "assessment day off" to be granted during the Spring Semester on the Friday before Fall preregistration and, as compensation, to begin the Spring Semester one day earlier. Prof. Laudon moved for approval of the above substitute recommendation and Prof. Williams seconded his motion. The motion was defeated following voiced concerns over disruption of class

time and costs/economics of a true day off.
(Attachment III.A)

B. ADMISSIONS AND ACADEMIC STANDARDS.

1. ADMISSION PERFORMANCE STANDARDS. Prof. Thomas Herrick, at President Askeland's suggestion, met with the Admissions and Academic Standards Committee to review their previous resolution and to respond to Vice-Chancellor Park with the results of their deliberations on this subject. The attached memorandum was the result which would be communicated. Prof. Daniel Babcock moved to advise the University's central administration of the Council's concurrence with this memorandum/report. Prof. Donald Cronin provided the second. Prof. D. Ray Edwards requested that a cover memo accompany this report and be composed so as to stress the procedural steps outlined in point number two within the Committee memorandum. The Council approved the motion to endorse.
(Attachment III.B)

C. CURRICULA.

1. REPORT NO. 3, 1989-90. Prof. Ronald Howell moved for approval of Curricula's November 16, 1989, report with one correction: CC1 3181, Philosophy and Liberal Arts 379, Literature of Hispanic Nations, should instead be Spanish 379. Prof. Williams seconded the motion. With regards to course prerequisites, Prof. Babcock requested the editorial change, "Preceded or accompanied by EMgt 383," to follow CC1 3196, Engineering Management 389, Packaging Materials II; CC1 3197, Engineering Management 388, Packaging System Design; and, CC1 3202, Engineering Management 384, Packaging Materials. Council approved the report as corrected. (Attachment III.C)

D. RULES, PROCEDURE AND AGENDA.

1. SUPPORT FOR TAX INITIATIVES. Prof. Lance Williams reported that the UMC Faculty Council recently resolved to encourage the pursuit of a tax initiative toward additional resources for higher education by the University Administration and the State. Included in their statement was an invitation for the other campuses to do the same. As of this date, a like resolution has been approved at UMSL. Prof. Williams moved that the UMR Council resolve to support efforts and leadership by the Curators and UM administrators

to obtain additional state funding for higher education. Prof. Vincent Roach provided the second and the motion carried. (Attachment III.D)

E. STUDENT AFFAIRS.

1. CONSTITUTIONS. Prof. Ronald Howell moved for acceptance of three student organization constitutions: Environmental Protection Advocates, Association of Guitar Enthusiasts, and Blue Sabres. Prof. Williams seconded the motion, which passed. (Attachment III.E.1)
2. HOCKEY PUCK SALES RESOLUTION. Due to complaints concerning St. Pat Sale activities at the Hockey Puck, the Student Affairs Committee was approached to develop a solution to the situation. As requested, Prof. Howell presented and moved for approval of the time and date restriction policy developed by this Committee and pertaining to product sales by the St. Pat's Board. Prof. Roach seconded the motion. Since it was determined that further communication among the variously involved parties was required, Prof. Frank Blum moved to table the issue. Prof. Lance Haynes seconded the motion, which carried. (Attachment III.E.2)

- F. INTERCAMPUS FACULTY COUNCIL (ICFC). As his report, Prof. James Fogue indicated that the Martin Luther King Holiday proposal will be considered by the Board of Curators in January. The Staff Benefit Program will be considered by the Board this December. The non-retirement components, if approved, will become effective in January 1990 while the retirement components become active in September 1990 (January retirees are urged to consider this carefully). Current retirees will probably not be held to this plan's medical revisions.

University administrators have been successful in working with and increasing CBHE's contribution to the University--an increase of approximately \$8-\$9 million.

A committee is to be appointed to review the Weldon Springs Endowment Fund on the following points: (1) basic philosophy of the fund; (2) effectiveness of fund use over the years; and (3) adequacy/type of allocation mechanism. The Council spoke against Vice-President Wallace's inclination to use graduate deans as the review committee on the basis of insufficient representation.

The meeting adjourned at 3:30 p.m.

Respectfully submitted,



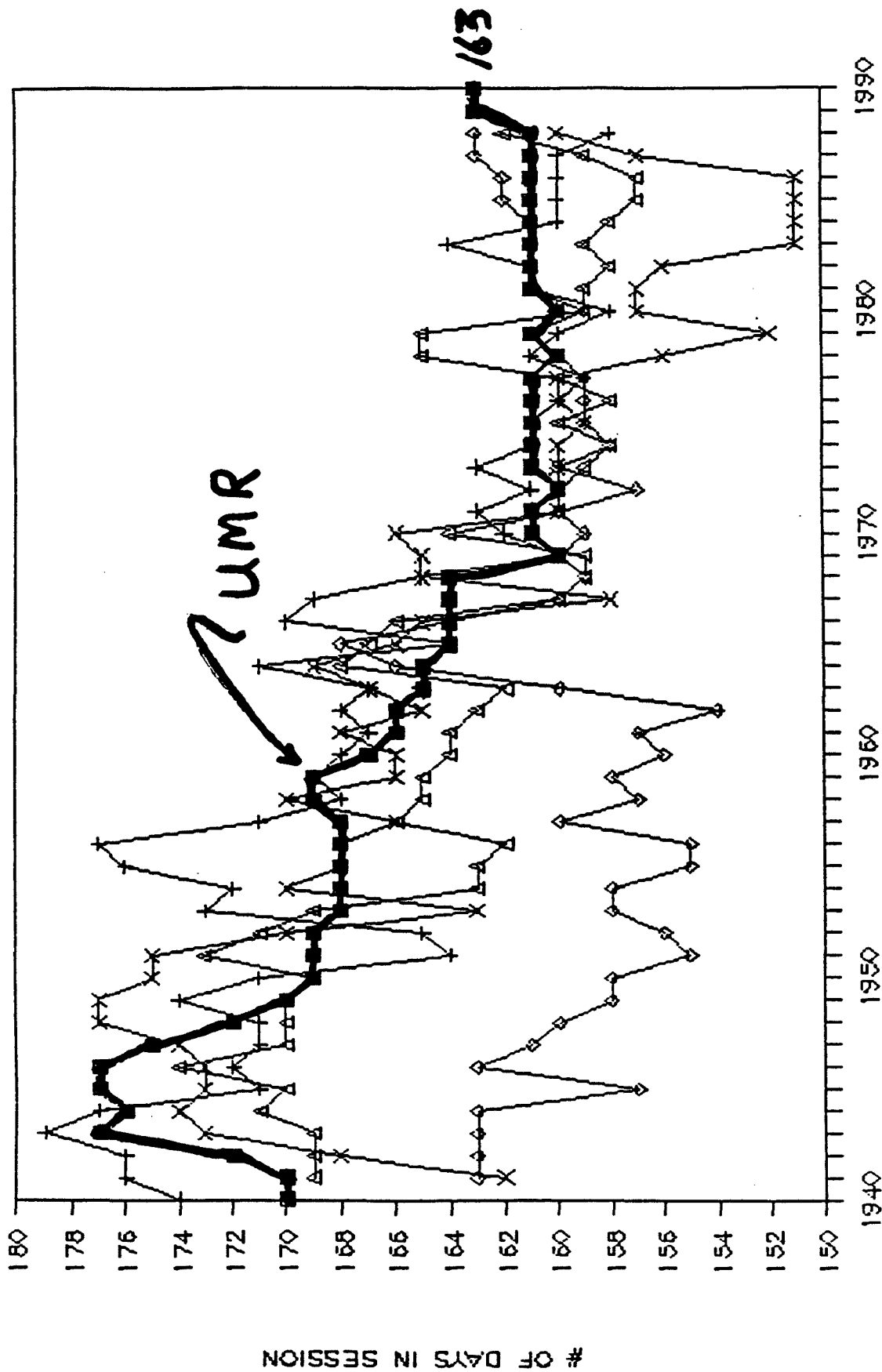
Donald R. Askeland
President

Attachments: III.A
 III.B
 III.C
 III.D
 III.E.1
 III.E.2

*Minutes of the Academic Council Meeting are considered official notification and documentation of actions approved.

PLOT OF DAYS IN SESSION

FIVE MISSOURI UNIVERSITIES



Rules, Procedures & Agenda Committee

R E S O L U T I O N

The UMR Academic Council supports efforts to obtain additional state funding for Higher Education that will restore the programs of the University to a level that meets student needs, faculty/staff expectations, and citizen benefits.

In this endeavor we look to the Board of Curators and University administrators for leadership in seeking increased tax support.

We will join in efforts to obtain additional tax revenues for Higher Education and the University of Missouri.

lw/11.15.89

MEMORANDUM TO: Don Askeland/Lance Williams
Academic Council

FROM: Doreen Schulz, Student Affairs Committee

DATE: November 15, 1989

RE: Report to Academic Council

The Student Affairs Committee recommends to Academic Council the following policy for St. Pat's Green sales on the Hockey Puck:

Sell Monday, Wednesday, and Friday with yelling between classes for the following time periods: (9:20-9:30, 10:20-10:30, 11:20-11:30, and 12:20-12:30)

- a. First 2 weeks green is available
(beginning now)
- b. Week before Thanksgiving
(Nov. 20, 21, and 22)
- c. Week before finals
(Dec. 4, 5, 6, 7, and 8)
- d. First 2 weeks of spring semester
(Jan. 11 through Jan. 24)
- e. Two days before Valentine's Day
(Feb. 12 and 13)
- f. March 1 through March 16

Also forwarded for your approval are the constitutions of the Environmental Protection Advocates, the Association of Guitar Enthusiasts at the University of MO- Rolla, and the Blue Sabres.



October 17, 1989

TO:

FROM: Wendell R. Ogrosky

RE: St. Pat's Green Sales on Hockey Puck

Over the past several weeks we have discussed the difficulties caused by the selling of St. Pat's Board "green" and buttons. The Board has made a proposal to me to continue selling by yelling on the hockey puck. The alternatives proposed by the Board are:

1. Sell Monday through Friday, with yelling between classes on Monday, Wednesday, and Friday. (This procedure would begin immediately and continue through the St. Pat's celebration.)
2. Sell Monday through Friday with yelling between classes for the following time periods:
 - a. First 2 weeks green is available (beginning now)
 - b. Week before Thanksgiving (Nov. 20, 21 & 22)
 - c. Week before finals (Dec. 4, 5, 6, 7 & 8)
 - d. First 2 weeks of spring semester (Jan. 11 through Jan. 24)
 - e. Two days before Valentine's Day (February 12 & 13)
 - f. March 1 through March 16

The Board has suggested that in this proposal, during periods a,c,d & f, they would be willing to yell on M-W-F only, if necessary.

The St. Pat's Board also has assured me there will be absolutely no harassment associated with the selling of the 1990 green.

My question to you is: Is either of the proposals acceptable; and if neither is acceptable, what suggestion(s) would you offer as an alternative?

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Page 2

Since the selling of the green has already begun, your prompt response will be appreciated. Thank you for your concern and involvement in this matter.

WRO:sh

cc: Mr. Dave Bernhardt
Dr. Virgil Flanigan
✓ Ms. Linda Martin



UNIVERSITY OF MISSOURI-ROLLA

Department of Geology and Geophysics

125 McNutt Hall
 Rolla, Missouri 65401-0249
 Telephone (314) 341-4616

11/15/1989

MEMORANDUM TO: Celia Brotherton
 Secretary to the Academic Council

FROM: Robert Laudon, Chairman
 Academic Assessment Committee

SUBJECT: Assessment Day Off

The UMR Student Council has passed several resolutions asking for a true day off during the semester that the Assessment proceedings occur. The Student Council has also indicated that if a true day off is not possible, they will support a "day off" that is repaced by a day at the beginning of the semester. It should be made clear that their first choice is a true day off, that is, a day off that is not replaced by an additional day somewhere else in the calendar.

The following resolution was made and seconded during the June meeting of the Academic Council. The resolution was tabled pending certification that such a resolution would satisfy the Student Council.

an "Assessment day off" be granted during the Spring semester on the Friday before preregistration for the Fall semester. To compensate for this day off, a day must be added to the semester, either at the beginning of the semester, at the end of the semester, or from one of the present holidays. It is understood that "Assessment day off" is not the same as "Assessment Day." Students who do not fulfill their assessment requirements on "Assessment Day" must do so on "Assessment day off."

Because of ABET accreditation, North Central accreditation, and "Time on Task" considerations (see attached), the Academic Assessment Committee feels that it is not appropriate to reduce the number of days in either of the present semesters. The Academic Assessment Committee now recommends that the resolution read:

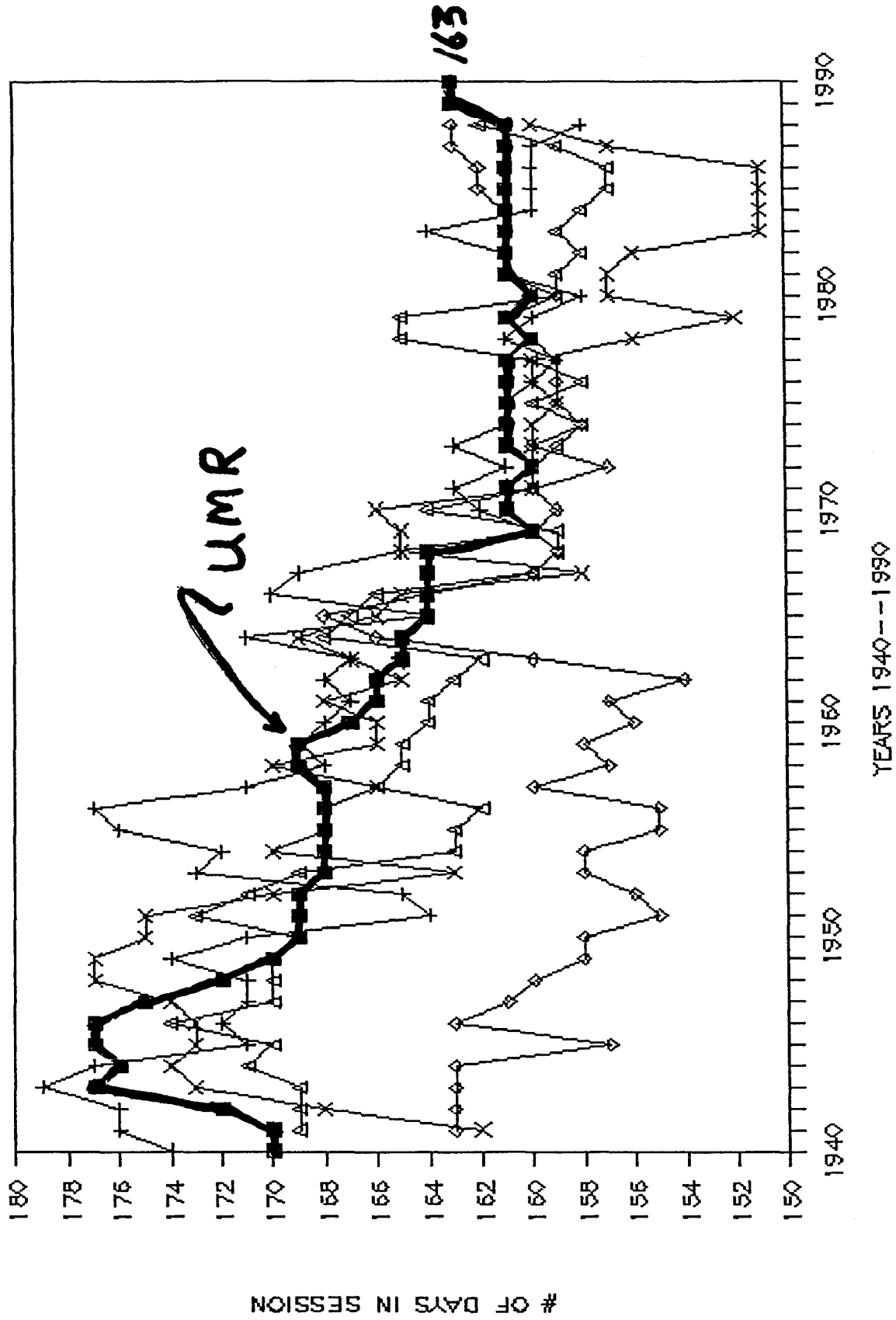
Be it resolved that:

An "Assessment day off" will be granted during the Spring semester on the Friday before preregistration for the Fall semester. To compensate for this day off, classes during the Spring semester will begin one day earlier than at present.

cc: Don Askeland

A handwritten signature in cursive, appearing to be 'RCL'.

PLOT OF DAYS IN SESSION FIVE MISSOURI UNIVERSITIES





UNIVERSITY OF MISSOURI-ROLLA

Department of Electrical Engineering
Thomas J. Herrick, Associate Professor
308 ERL Building
Rolla, Missouri 65401-0249
Telephone (314) 341-4139

MEMO TO: Vice Chancellor John Park
MEMO FROM: The Admissions and Academic Standards Committee
DATE: November 15, 1989
RE: Performance Criterion of the Admissions Standards

On Thursday, November 9, 1989, the Committee met to reevaluate the previous recommendations made to the Academic Council on performance requirements for students seeking admission to UMR with the college preparatory course of study.

The Committee's recommendations remain unchanged from our previous reports. We continue to believe that the term "academic standard" has meaning and the standards that have been forwarded by the committee are the minimum that an entering freshman should meet in order to achieve a 50% prospect for success in the freshman year (not on academic probation after the first year). The 50% figure was the original charge to the Committee years ago. The Committee studied our student records, consulted with those faculty most closely involved with freshmen, with Department Chairman, and with the Admissions Office. The proposals on admissions standards made by the Committee and approved by the Academic Council carry the near-unanimous approval of the faculty and academic administration. There is not a single memorandum or note of a telephone conversation in the Committee's files that indicates the Academic Standards recommended by the Committee for this campus are too stringent.

The Committee has studied the proposal made by the University of Missouri Administration to implement a common admission standard for the four campuses. This proposal is inappropriate for UMR for the following reasons:

1. A common admissions policy on the four campuses would be appropriate if the four campuses were more alike in the general nature of their offerings. Three of the four may be alike, but the Rolla campus is primarily a specialized technical campus. The programs on this campus require strong academic capabilities from the first day of class. Students with sums of 120 or less in the HSCR and ACT percentiles are at high risk in successfully ^{completing} freshman coursework. The general nature of the UMR campus is distinct (see the Knight report) and requires students with advanced academic credentials (see the Saupe report dated September 23, 1989). The performance standards proposed by the University Administration are too low to meet the 50% criterion for success at the Rolla Campus.

The complicated table delineating admission criteria is impractical and inappropriate for general use by the four campuses. It is confusing with the mixture of an HSCR

percentile and a raw ACT score. The sum of percentiles is a normalized number that can be better utilized by students, parents and counselors to help make the decision to attempt university-level studies.

This point leads to a major objection that the Committee finds with the proposed common standard. Namely, there is no mention that students in the lower ranges of academic development should consider strengthening their academic capabilities, typically at a community college, with subsequent transfer to a university program that is compatible with their interests and developmental level.

Admitting students to this campus with the performance measures proposed by the University leads to a situation that is most often tragic. A high percent of the students are eventually dismissed for academic deficiency. Subsequently, these students have considerable difficulty gaining admission to other universities and colleges (including the other campuses of the University of Missouri). Some students must be re-admitted to UMR in a charade so that they can restart their educational career elsewhere. Many are so discouraged they never restart.

The responsibility for these failures rests not on the efforts of these students, which are usually heroic, but on inadequate admission standards that are well-intentioned to allow accessibility to the University, but are in fact, counter-productive in gaining accessibility to the ranks of UMR graduates.

2. As a procedural matter, the Committee has received no prior information on the addition of a fine arts credit to the high school coursework requirements for admission. While the Committee has no objection to the inclusion, it does have an objection to the procedure, which should include the following steps:

- a. Proposals by the University Administration with justification.
- b. Study, comments and recommendations from the campus committees.
- c. Recommendations by the faculties.
- d. Endorsement by the campus's Academic Administration.
- e. Proposal to the Board by the University Administration.

It appears we are at step "e". What happened to "a" through "d"? Any change in Admission Standards should be reviewed by the faculties of the University before being implemented by the Board.

Members of the Committee:

Roger Brown
Jerry Westphal
Dale Elifrits
David Oglesby
Harry Eisenman
T. J. Herrick, Chairman

TJK/hak

Rules, Procedures & Agenda Committee

R E S O L U T I O N

The UMR Academic Council supports efforts to obtain additional state funding for Higher Education that will restore the programs of the University to a level that meets student needs, faculty/staff expectations, and citizen benefits.

In this endeavor we look to the Board of Curators and University administrators for leadership in seeking increased tax support.

We will join in efforts to obtain additional tax revenues for Higher Education and the University of Missouri.

lw/11.15.89

Attachment III.E.2

MEMORANDUM TO: Don Askeland/Lance Williams
Academic Council

FROM: Doreen Schulz, Student Affairs Committee

DATE: November 15, 1989

RE: Report to Academic Council

The Student Affairs Committee recommends to Academic Council the following policy for St. Pat's Green sales on the Hockey Puck:

Sell Monday, Wednesday, and Friday with yelling between classes for the following time periods: (9:20-9:30, 10:20-10:30, 11:20-11:30, and 12:20-12:30)

- a. First 2 weeks green is available (beginning now)
- b. Week before Thanksgiving (Nov. 20, 21, and 22)
- c. Week before finals (Dec. 4, 5, 6, 7, and 8)
- d. First 2 weeks of spring semester (Jan. 11 through Jan. 24)
- e. Two days before Valentine's Day (Feb. 12 and 13)
- f. March 1 through March 16

Also forwarded for your approval are the constitutions of the Environmental Protection Advocates, the Association of Guitar Enthusiasts at the University of MO- Rolla, and the Blue Sabres.



October 17, 1989

TO:

FROM: Wendell R. Ogrosky

RE: St. Pat's Green Sales on Hockey Puck

Over the past several weeks we have discussed the difficulties caused by the selling of St. Pat's Board "green" and buttons. The Board has made a proposal to me to continue selling by yelling on the hockey puck. The alternatives proposed by the Board are:

1. Sell Monday through Friday, with yelling between classes on Monday, Wednesday, and Friday. (This procedure would begin immediately and continue through the St. Pat's celebration.)
2. Sell Monday through Friday with yelling between classes for the following time periods:
 - a. First 2 weeks green is available (beginning now)
 - b. Week before Thanksgiving (Nov. 20, 21 & 22)
 - c. Week before finals (Dec. 4, 5, 6, 7 & 8)
 - d. First 2 weeks of spring semester (Jan. 11 through Jan. 24)
 - e. Two days before Valentine's Day (February 12 & 13)
 - f. March 1 through March 16

The Board has suggested that in this proposal, during periods a,c,d & f, they would be willing to yell on M-W-F only, if necessary.

The St. Pat's Board also has assured me there will be absolutely no harassment associated with the selling of the 1990 green.

My question to you is: Is either of the proposals acceptable; and if neither is acceptable, what suggestion(s) would you offer as an alternative?

an equal opportunity institution

Page 2

Since the selling of the green has already begun, your prompt response will be appreciated. Thank you for your concern and involvement in this matter.

WRO:sh

cc: Mr. Dave Bernhardt
Dr. Virgil Flanigan
✓ Ms. Linda Martin

Proposal
for a
University of Missouri-St. Louis/University of Missouri-Rolla
Cooperative Undergraduate Degree Program
in
Electrical Engineering and Mechanical Engineering
in cooperation
with Washington University

Submitted
by the
Office of Academic Affairs
University of Missouri-St. Louis
University of Missouri-Rolla

1/10/90

Introduction

This document proposes that the University of Missouri-St. Louis and the University of Missouri - Rolla work cooperatively with Washington University to offer two part-time evening undergraduate degrees in engineering. The degrees will be offered jointly by UM-St. Louis and UM-Rolla with both Chancellors signing the diplomas. The proposed degree programs are designed to serve the unmet needs of that group of students living in the St. Louis area who can not leave the area in order to pursue a degree in undergraduate engineering. This group of students, commonly referred to as nontraditional students, includes a greater proportion of women and minority students than does the traditional student cohort.

The proposed program is to offer the Bachelor of Science in Electrical Engineering and the Bachelor of Science in Mechanical Engineering degrees. This program is designed to offer course work beyond the currently existing pre-engineering programs at the University of Missouri-St. Louis. The undergraduate programs in electrical and mechanical engineering would be patterned after those now being offered by the University of Missouri-Rolla campus.

Students will be admitted to upper division courses only after they have completed an acceptable pre-engineering program. In addition to building on existing pre-engineering programs, this cooperative program of the University of Missouri-St. Louis and the University of Missouri-Rolla with Washington University will complement the existing graduate engineering program presently being offered in the St. Louis area by the University of Missouri-Rolla.

Additional resources are requested which will provide the library materials and computer resources needed in support of this program as well as the needed instructional, student activity and support costs.

The proposed degree programs are structured to meet the Accreditation Board for Engineering and Technology's (ABET) criteria for accreditation. Accreditation of the proposed degree programs will be sought as soon as allowed under ABET's rules.

Description of the Proposed Program

- 1a. Consistency with the University of Missouri Mission and the Specific Mission of the University of Missouri-St. Louis Campus and the University of Missouri-Rolla Campus.

The establishment of an undergraduate degree program in engineering on the campus of UM-St. Louis is entirely consistent with the broad mission of the University of Missouri's land-grant tradition of research, distribution of knowledge, and service to Missouri's citizens and to the specific role deemed appropriate for the University of Missouri-St. Louis and the University of Missouri-Rolla. Precisely, the University of Missouri is responsible for:

extending the educational resources of the total University to the people in order to encourage economic development and stability, enhance the quality of life, develop problem-solving skills, . . . and assist citizens in enhancing occupational or professional careers. (reference #1)

The proposed program addresses several aspects of the University's declared mission, particularly in relation to economic development and helping Missouri's citizens realize their occupational or career aspirations.

Since its establishment in 1963, the University of Missouri-St. Louis has carried an important specific responsibility within the University of Missouri mission, a duty determined by the Campus' urban location, its diverse student population, and the importance to Missouri of the St. Louis area's large economic and industrial sector. The campus has particularly specialized in meeting the needs of the non-traditional student. Moreover, as the needs and social environment of Missouri's citizens are different in today's world, so must the University's instructional offerings take new forms, attuned to the increasingly technological environment of our society as well as to the economic realities of both student and University resources.

UM-Rolla has a statewide mission in science and engineering and serves as a core of the University's response to engineering access in urban areas and elsewhere in the State. The University of Missouri-Rolla is dedicated to collaboration with other colleges and universities across the state to address the state's engineering needs.

Thus, this program, is:

- a) uniquely designed to provide St. Louis' diverse urban constituency with affordable access to an engineering education at their local public university;
- b) expected to increase the pool of university-educated engineers available to the region's technologically oriented industries (see Section 5. "Need"); and thereby
- c) expected to enhance Missouri's economic development.

For these reasons, this proposed program is consistent with both the broad University of Missouri mission and the specific charge of the University of Missouri-St. Louis and the University of Missouri-Rolla to provide engineering education for non-traditional students.

1b. Relation to the University of Missouri Long-Range Plan for Program Development

Establishment of a professionally accredited engineering program, which is geographically accessible and permits students to take a part-time -- evening and weekend -- academic schedule fulfills one of the University of Missouri Long-Range Plan's criteria for priority in academic programs--that of increasing student access while maintaining quality. This program would also contribute in a positive way to the University's goal of "attracting qualified minority and female students." (reference #2) Minority students, in particular, have lacked access to engineering study because of geographical and economic circumstances.

In addition, the Long-Range Plan update indicated priority interest in 1986 for a cooperative undergraduate engineering program at the University of

Missouri-St. Louis; undergraduate engineering was included in the list of "Programs for Further Study." (reference #3)

1c. A Cooperative Undergraduate Engineering Program Between UM-Rolla and UM-St. Louis in St. Louis

While a pre-engineering advisement program with a recommended curriculum has been in operation for more than fifteen years at UM-St. Louis, students desiring to continue toward a degree in engineering after completing the prescribed pre-engineering coursework have a sometimes difficult choice:

- They must leave the St. Louis area and transfer to either another University of Missouri campus that offers an engineering degree or to an out-of-state institution. This choice is not possible for many students.
- They can remain in St. Louis and enroll at Washington University School of Engineering, facing high tuition costs and much greater competition for admission. This choice is unlikely for many students enrolled in either the University of Missouri-St. Louis or the St. Louis Community College pre-engineering programs.
- Or they can forego their career aspirations and choose a different degree program such as physics or computer science at UM-St. Louis.

Thus, to serve the unmet needs of that group of students who are living in the St. Louis area and who can not leave the area in order to pursue a degree in undergraduate engineering, an evening undergraduate engineering program offered on a part-time basis is proposed.

The proposed program is to offer the Bachelor of Science in Electrical Engineering and the Bachelor of Science in Mechanical Engineering degrees. This program is designed to offer course work beyond the currently existing pre-engineering programs at the University of Missouri-St. Louis and the St. Louis Community College.

Attachment II.C.3.d

Students will be admitted into the upper division program only after they have completed an acceptable pre-engineering program. In addition to building on existing pre-engineering programs, this cooperative program of the University of Missouri-St. Louis and the University of Missouri-Rolla with Washington University will complement the existing graduate engineering program presently being offered in the St. Louis area by the University of Missouri-Rolla. Additional resources are requested which will provide the library materials and computer resources needed in support of this program as well as the needed instructional, student activity and support costs. The proposed program is to be a cooperative program of the University of Missouri-St. Louis and the University of Missouri-Rolla with Washington University.

2a. Total Number of Credits Required for Graduation from the Program and Number of Credit Hours Applicable to the Degree Program Which Must Be Earned in Residence

The electrical engineering program requires 139 credit hours and the mechanical engineering program requires 140 credit hours. There is a 60 hour residency requirement.

The curriculum is as follows:

Mechanical Engineering Lower Division Curriculum

First Year

Math 80	Analytic Geometry/Calculus I	5
Chem 11	Introductory Chemistry	5
Engl 10	Composition	3
Hist 3	American Civilization	3
	Semester Total	<u>16</u>

Math 175	Geometry/Calculus II	5
Chem 12	Introductory Chemistry II	5
MSci 122	Computers & Programming	3
Phys 111	Phys: Mechanics & Heat	5
	Semester Total	<u>18</u>

Second Year

Math 180	Analytic Geometry/Calc III	5
Phys 112	Phys:Elec-Magnetism & Optics	5
Engr 144	Statistics/Elem Strength/Materials	3
*Elective	Humanities/Social Sciences	3
	Semester Total	<u>16</u>

Mechanical Engineering Lower Division Curriculum (continued)

Second Year

Math 202	Linear Algebra/Diff Equations	3
Econ 51	Principles of Microeconomics	3
Engr 145	Introduction to Dynamics	3
**Engr 30	Engineering Graphics	3
Phys 124	Intro/Electrical Networks I	3
*Elective	Humanities/Social Sciences	3
	Semester Total	<u>18</u>

Total Mechanical Engineering Lower Division Curriculum: 68

* At least three hours of Humanities/Social Sciences requirements must be in the Literature area. Two courses must be taken at the upper division (junior/senior) level and each course must have as a prerequisite one of the Humanities or Social Sciences courses already taken.

** Must include computer graphics.

Mechanical Engineering Upper Division Curriculum

Year One-Junior Level		
Fall Semester		Credit
	EM 110 - Mechanics of Materials	3
	ME 219 - Thermodynamics	3
Winter Semester		
	ME 221 - Applied Thermo.	3
	MET 121 - Metallurgy for Engineers	3
Summer Semester		
	Math or Comp. Sci. Elective	3
Year Two-Junior Level		
Fall Semester		Credit
	EG 25 - Graphical Design Lab.	2
	EM 120 - Materials Testing Lab.	1
	ME 203 - Kinematics	3
Winter Semester		
	ME 204 - Dynamics of Machinery	3
	ME 208 - Machine Design I	3
Summer Semester		
	Humanities/Social Sci. Elective	3
Year Three-Senior Level		
Fall Semester		Credit
	ME 240 - Mechanical Instrmt. Lab.	2
	EE 283 - Electronics for Instrmt.	3

Mechanical Engineering Upper Division Curriculum (continued)

Winter Semester	
ME 279 - Ana./Syn./Mech. Engr. Syst.	3
ME 231 - Thermofluid Mechanics I	3
Summer Semester	
Communications Skills Elective	3
Year Four-Senior Level	
Fall Semester	Credit
ME 280 - Control System Lab.	1
ME 242 - Mech. Engr. Systems Lab.	2
ME 225 - Heat Transfer	3
Winter Semester	
ME 261 - Ana./Syn./Engr. Design	3
ME 053 - Intro. to Manuf. Processes	3
Summer Semester	
Humanities/Social Sci. Elective	3
Year Five-Senior Level	
Fall Semester	Credit
Technical Elective	3
ME 229 - Energy Conversion	3
Winter Semester	
Two Technical Electives at 3 Credits	6
Total Credit Hours/Sections Labs	
Subtotal Lectures - Engr.	51
Subtotal Lectures - Non-Engr.	12
Grand Total Credit Hours	71

Electrical Engineering Lower Division CurriculumFirst Year

Math 80	Analytic Geometry/Calculus I	5
Chem 11	Introductory Chemistry	5
Engl 10	Composition	3
Hist 3	American Civilization	3
	Semester Total	<u>16</u>

Math 175	Geometry/Calculus II	5
*Chem 12	Introductory Chemistry II	5
MSci 122	Computers & Programming	3
Phys 111	Phys: Mechanics & Heat	5
	Semester Total	<u>18</u>

Second Year

Math 180	Analytic Geometry/Calc III	5
Phys 112	Phys:Elec-Magnetism & Optics	5
Engr 144	Statistics/Elem Strength/Materials	3
**Elective	Humanities/Social Sciences	3
	Semester Total	<u>16</u>

Math 202	Linear Algebra/Diff Equations	3
Econ 51	Principles of Microeconomics	3
Engr 145	Introduction to Dynamics	3
Phys 124	Intro/Electrical Networks I	3
Phys 231	Intro to Modern Physics	3
**Elective	Humanities/Social Sciences	3
	Semester Total	<u>18</u>

Total Electrical Engineering
Lower Division Curriculum: 68

* Not required for BSEE degree but may be used for free elective (Six credit hours of free electives are required for the BSEE degree)

** At least three hours of Humanities/Social Sciences requirements must be in the Literature area. Two courses must be taken at the upper division (junior/senior) level and each course must have as a prerequisite one of the Humanities or Social Sciences courses already taken.

Electrical Engineering Upper Division Curriculum

Year One-Junior Level

Fall Semester	Credit
EE 063 - Circuit Analysis II	3
EE 211 - Digital Systems Design	3
EE 210B - Seminar	0.5

Winter Semester

EE 271 - Fields and Waves I	3
EE 207 - Power Systems	3

Summer Semester

Communications Skills Elective	3
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Electrical Engineering Upper Division Curriculum (continued)

Year Two-Junior Level	
Fall Semester	Credit
EE 212 - Electrical Engr. Lab. I	2
EE 273 - Fields and Waves II	3
Winter Semester	
EE 265 - Linear Cont. - Time Systems	3
EE 253 - Linear Electr. Circuits	3
Summer Semester	
Humanities/Social Sci. Elective	3
Year Three-Senior Level	
Fall Semester	Credit
EE 205 - Electrical Machines	3
EE 220 - Electrical Engr. Lab. II	2
EE 230 - Electrical Engr. Lab. III	2
Winter Semester	
EE 267 - Linear Discrete-Time System	3
EE 231 - Control Systems	3
Summer Semester	
Humanities/Social Sci. Elective	3
Year Four-Senior Level	
Fall Semester	Credit
EE 254 - Digital Electronic Circuits	3
EE 240 - Electrical Engr. Lab. IV	2
Winter Semester	
EE 221 - Prin. of Semicond. Devices	3
EE 243 - Communications Systems	3
Summer Semester	
Technical Elective	3
Year Five-Senior Level	
Fall Semester	Credit
EE 243 - Communications Systems	3
ME 227 - Thermal Analysis	3
Winter Semester	
Two Technical Electives at 3 Credits	6
EE 210 A - Seminar	0.5
Total Credit Hours Labs	8
Subtotal Lectures - Engr.	55
Subtotal Lectures - Non-Engr.	9
Grand Total Credit Hours	72

2b. Proposed New Courses

No new courses are required. All pre-engineering courses are presently offered at the University of Missouri-St. Louis, all engineering courses are offered at the University of Missouri-Rolla in its undergraduate engineering programs, and Arts and Sciences upper division non-engineering courses are offered at UM-St. Louis.

2c. Culminating Effort Requirement

(not applicable)

2d. Evaluation of Credit Earned in Innovative Programs, ie.

(not applicable)

3. Significant, Unusual or Innovative features

Because the program is offered to nontraditional students, required curriculum for the upper division courses must be offered during evening hours and oriented for enrollment of part-time students who are working concurrently. A cooperative program between UM-St. Louis and UM-Rolla is thus proposed. The program will be administered and operated by a faculty created for this purpose. (See Section 10, "Faculty") The laboratory facilities of Washington University will be utilized for this program.

4. Subject Fields or Support Areas That Will Need Improvement and/or Expansion

The nontraditional character of the students, who are employed full time and enrolled in the program in the evenings, will require that effective counseling and advising staffs are available in the evening hours. Similarly, additional computer, laboratory resources, library, instructional activity, student activity, and support costs will be needed, as will some additions to staff in these same areas. These additions are fully contemplated as elements of this proposed program and support is requested.

The present pre-engineering program at UM-St. Louis serves 200 students about half of whom are non-traditional students. The initiation of this Engineering Program is expected to significantly increase demand for and enrollment in this program. Increased costs for staff and supplies are reflected in the proposed budget for this program. The use of space off campus will be required. Additional classrooms are being provided by the Normandy School District and laboratory space will be provided by Washington University.

Need for the Proposed Program5. The Need for a Baccalaureate Engineering Program in St. Louis for Nontraditional Students

National Need: The demand for new technologies and products, new energy sources, the solution of environmental problems, and the expansion and modernization of the nation's industrial plant, as well as demands for national defense, are all important national priorities. Competition in the world market and the current trade deficit add emphasis to this concern. The nation's economic health, environmental safety and defense capacity require an adequate supply of trained engineers and will continue to do so for some years to come.

Recent studies indicate that there will be a scarcity of professional engineers over the next two decades, and that more job openings will occur per year for most engineering fields than the number of engineering graduates likely to be provided through existing degree programs.

Based on information from the U.S. Bureau of Labor Statistics (BLS) and using 1984 as the base year, projections through 1996 suggest that, nationally, the number of engineers sought annually by employers will be about 43,000 greater than the number currently available. The greatest projected shortages include electrical, electronics, and mechanical engineers. (reference #4)

"The Science and Engineering Pipeline," a report of the National Science Foundation, also has forecast that there will be a "growing scarcity" of natural scientists and engineers. The study bases its predictions on a supply and demand set of projections that indicate that GNP growth and growth in value of high technology industries are all positively correlated with the employment of new B.S.-level scientists and engineers.

At the same time, the population projections indicate a smaller student body from which to draw new scientists and engineers. With known proportions of undergraduates who choose science or engineering as their field of study, the declining pool of 22-year-olds will affect the numbers of engineers available. This N.S.F. study assumes that the economic and population factors will continue to grow and increase the demand for engineers. It concludes that the cumulative shortage of engineers between 1985 and 2010 will reach a total of 256,000. The authors of this study recommend that one way to ameliorate this problem would be to increase efforts to raise the numbers of minority group members and women, both traditionally under-represented in engineering. (reference #5)

Local Needs: An important factor driving the need for an engineering program in metropolitan St. Louis is that of maintaining the area's economic development and competitive position. The Missouri Division of Employment Security reported that in 1982, 70 percent (15,720 out of a total of 22,582) of the engineers employed in the state of Missouri were employed in the St. Louis area. (reference #6)

The St. Louis region has the largest technologically based industrial sector in the state: McDonnell Douglas Corporation, Emerson Electric Company, Monsanto Company, Sverdrup Corporation, Southwestern Bell Telephone, and Mallinckrodt Inc. are all located in metropolitan St. Louis. St. Louis' Mayor Vincent Schoemehl, Jr., in a recent Letter to the Editor of the St. Louis Post-Dispatch, urged that a program of the type proposed be established:

Our region has made major progress in recent years in economic development, but if we are to maintain a strong economy with good jobs, we will need a work force ready for the needs of business and industry in the 21st century. That requires first-rate technological training, particularly in engineering and related fields....engineering training [that] can be made available at night to the nontraditional student that UM-St. Louis serves so well--students who need to remain in their home area, who need the services of a publicly supported university and

Attachment II.C.3.d

who need flexible schedules. Programs at other universities in outstate Missouri cannot serve the needs of these students. (reference #7)

Using data provided by the Missouri Division of Employment Security, the Missouri Occupational Information Coordinating Committee and the Missouri Division of Manpower Planning, a needs assessment analysis was prepared by the Office of Budgeting, Planning, and Institutional Research at UM-St. Louis. It concluded that Missouri employers' demand for engineers through 1996 will exceed the supply by 500 annually. In the St. Louis Metropolitan area alone, this number will be 300 engineers annually. (reference #8)

Recently, a report by the Strategic Task Force on Technology of the Regional Commerce and Growth Association (RCGA) reported to the RCGA Board of Directors a major deficiency with regard to technical education resources in St. Louis demonstrating the need for a "first-rate, publicly, supported engineering school."

Interviews with major employers of engineers in St. Louis support the establishment of an undergraduate engineering program in St. Louis, particularly one with offerings available in the evening. Such a program would provide an opportunity for employees in technical positions to earn an undergraduate engineering degree on a part-time basis. Recruitment staff for these companies also indicate that they prefer to hire individuals who are from the St. Louis area because such persons are more likely to remain in the area.

It is therefore essential, if the St. Louis area is to remain economically viable and competitive at national and international levels, that the region's technologically based industry be supported by the presence of a local publicly supported undergraduate engineering program.

Student Need for A Nontraditional Program: A significant proportion of the students in the pre-engineering program at UM-St. Louis could be considered

Attachment II.C.3.d

"nontraditional" students. About 12 percent were female and 8 percent were black. Over half were judged to be part-time students since they were enrolled in 11 or fewer hours. (reference #9)

This program proposes active recruitment of women and minority groups and articulation with the area's community colleges and with the UM-St. Louis Bridge Program, which offers enrichment in math and science to area high-school students. Currently most of the Bridge Program students are black and come from low-income homes.

As explained in Section 1c, this program would provide access to an engineering degree program for those students who cannot leave the St. Louis area or afford to attend Washington University. It would give technicians, employed in St. Louis industry, the possibility of advancement by obtaining an engineering degree. Because employment opportunities are better in an urban area, it also would make possible an engineering education for those students who must work at least part-time in order to finance their education.

Finally, this degree program would tap a student group that is currently unserved by publicly supported engineering education.

6. Job Opportunities in Engineering:

In a recent report to the National Science Board (reference 10), a Committee whose membership includes John C. Hancock, Retired Executive Vice President, United Telecommunications, Kansas City, and Howard A. Schneiderman, Senior Vice President for Research and Development, and Chief Scientist, Monsanto Co., St. Louis, made a series of recommendations related to future scientific manpower needs by the United States. One of the recommendations is that "NSF should

give high priority to those programs which attract more (emphasis added) U.S. students to careers in science and engineering." One of the underlying reasons for this recommendation is that previous studies by the National Science Foundation predict a significant cumulative shortfall in the production of undergraduate or baccalaureate degrees in science and engineering over the next generation. By the year 2012, the shortfall relative to demand is projected to be 692,000, with the engineering share being 256,000. (reference #5) Thus, the outlook with respect to job opportunities for the graduates of this program is outstanding. There will be more positions in engineering than there will be potential occupants of those positions.

In addition to the national need for baccalaureate engineers outlined above which is expected to exceed the national supply, the local demand more or less mirrors that of the national need. A needs analysis for the St. Louis Area prepared by Development Strategies, Inc. (reference #11) indicates that there are 1400 currently employed individuals who St. Louis area companies would like to see earn baccalaureate degrees in engineering. Since these individuals will be employed while they are enrolled in the proposed program and because they are expected by their employers to remain with the company, but in new positions, the prospect for job opportunities is also very bright.

7. Advisory Committee Members for Vocational/Technical Programs
(not applicable)

8. Other Engineering Programs in Missouri or Nearby

Within Missouri, there are baccalaureate programs in engineering offered at four institutions: UM-Columbia, UM-Rolla, UM-Kansas City, and Washington University. Southern Illinois University-Edwardsville and the University of Missouri-St. Louis offer a cooperative BSE/MBA degree with majors in civil, electrical, and industrial engineering. This full-time Illinois program is limited in the number of places reserved for Missouri students and is not available in mechanical engineering. It is convenient only to students living in the northernmost parts of the St. Louis area. There is no public transportation available.

Master's degree programs in engineering are available on all four campuses of the University of Missouri. Eight master's emphasis areas are offered by UM-Rolla on the St. Louis campus. Doctoral programs are available at UM-Columbia and UM-Rolla.

Washington University also offers master's and doctoral degrees in chemical, civil, electrical, and mechanical engineering, as well as computer science, systems science, mathematics, and engineering and public policy.

The Coordinated Undergraduate Engineering Program (CUEP) at UM-Kansas City is a program between UM-Kansas City and UM-Columbia, the CUEP faculty are part of the College of Engineering at UM-Columbia and the degree awarded is from UM-Columbia. All of CUEP's upper division courses are taught on the Truman Campus of UM-Kansas City. Students are for the most part older (average age 24) than other UM-Kansas City students. Over half are part-time students and have jobs. Women made up 11 percent of the 1986 enrollment, and about 16 percent were minority students.

At UM-St. Louis, coursework for a pre-engineering curriculum already is available in both daytime and evening schedules. This program can be expanded

easily to serve the needs of the additional students anticipated in this proposed program. Students completing this curriculum, however, now must transfer to another institution offering an engineering degree. This involves travel to either Rolla or Columbia, enrollment out of state, or enrollment at Washington University, which is an independent institution with the only engineering baccalaureate in this region of Missouri. Without doubt, transfer to a full-time engineering program is the preferred route for students who are able to do so. However, the proposed program is designed to serve that group of students who are not able to leave St. Louis for further education.

Initially, all classes will be offered on the UM-St. Louis campus while the laboratories will be offered at Washington University.

Projected Enrollment and Graduates

9. Projected Enrollment and Graduates

Assumptions:

1. A part-time student enrolls in 14-18 credits per year, including summer. Consequently it requires four years for a beginning student to get to the point of matriculation from the Pre-Engineering Program level to the Engineering Program level. An additional five years is required for a matriculated student to complete the 71 or 72-credit upper division Engineering Program for Mechanical or Electrical Engineering, respectively.
2. Needs assessment studies show an existing demand for a non-traditional program by more of the 1370 students who are living and working in the St. Louis area. Most of these students have completed work at the pre-engineering level and in some instances have completed some work in the St. Louis area. It is anticipated that these individuals would be matriculated initially. As they are finishing their degrees the new part-time students in the pre-engineering program will be completing their work and transferring into the upper division engineering program as indicated in point #3.

3. The University of Missouri-St. Louis has 200 students currently enrolled in its pre-engineering program. Approximately 100 are full time students who are expected to transfer to a full-time program such as those at UM-Columbia and UM-Rolla. The remaining 100 are enrolled as part-time students. It is expected that in each of the years for year one through five of the proposed engineering program that an additional 100 part-time students will enroll in the program as shown in Table 1. These students are expected to transfer into the upper division engineering program four years after initial matriculation into the pre-engineering program. Publicity about the availability of the engineering program in St. Louis is expected to lead to modest increases in the full-time enrollment in the pre-engineering program. However, these students are expected to transfer to existing full-time programs as others have done in the past.

Table 1. Estimated Enrollment - Headcount*

Program Level	Fall Year 1	Fall Year 2	Fall Year 3	Fall Year 4	Fall Year 5					
	Full-Time	Part-Time	Full-Time	Part-Time	Full-Time	Part-Time	Full-Time	Part-Time	Full-Time	Part-Time
No. of Pre-Eng. Enrollees	100	200	125	300	150	400	175	500	200	600
No. of Upper Division Engin'rng Enrollees	-	125	-	250	-	375	-	500	-	625
TOTAL	100	325	125	550	150	775	175	1000	200	1225

* Including 100 full-time and 100 part-time (150 FTE) presently enrolled in current pre-engineering program.

Since the proposed program is a part-time program for nontraditional students, the flow of graduates will be determined both by the program size and by the rate at which the students enroll in courses. However, at a steady state enrollment of 625 students in the upper division engineering program the number of graduates is expected to be approximately 125 per year.

Table 2. Estimated FTE Enrollment*

Program Level	Year 1		Year 2		Year 3		Year 4		Year 5	
	Full-Time	Part-Time	Full-Time	Part-Time	Full-Time	Part-Time	Full-Time	Part-Time	Full-Time	Part-Time
No. of Pre-Eng. Enrollees	100	100	125	150	150	200	175	250	200	300
No. of Upper Division Engin'rng Enrollees	-	63.75	-	123.75	-	187.08	-	247.08	-	298.08
TOTAL	263.75		398.75		537.08		672.08		798.08	

* Includes 150 FTE presently enrolled in current pre-engineering program.

Table 3. Estimated Graduates

	Year 1	Year 2	Year 3	Year 4	Year 5
No. of Graduates	0	0	0	0	125

Faculty Resources

10. Faculty of the Proposed Program

The engineering program will be housed in the St. Louis Engineering Education Center operated cooperatively by UM-St. Louis and UM-Rolla, which will be located on the UM-St. Louis campus. The Center will be administered by a Director who will report to both the Chancellor of UM-St. Louis and the Chancellor of UM-Rolla. There will be two departments in the engineering division; i.e., one in electrical engineering and the other in mechanical

engineering. The engineering faculty will have their appointments in one of these two departments.

11. New Faculty Members Needed

When in full operation, the upper level engineering program will need 22.7 new faculty. There will be 8.7 faculty in the mechanical engineering area and 14 in electrical engineering. Three faculty will be needed in upper division Arts and Sciences courses. The pre-engineering program will require an additional 17.5 faculty, most of whom will be in Arts and Sciences.

In the first stages of program development, faculty from UM-Rolla and possibly Washington University will be used to teach the program. It will take five years to bring the program to full operation.

Library Resources

12. Libraries

Students matriculated into the Engineering Program will have full access and full library borrowing privileges at the University of Missouri-St. Louis. The UM-St. Louis library collection consists of over 400,000 volumes, including 400 periodical subscriptions, more than 200,000 U.S. Government documents, and some 1,000,000 items in microform. The UM-St. Louis Library has a very sound scientific/technical materials base which will be further strengthened in support of the Engineering Program. The needed resources are requested in this proposal.

It should be emphasized that materials from the other University of Missouri libraries are available through the Interlibrary Loan Service. The Interlibrary Loan Service allows faculty and students who are engaged in research to request materials from other libraries across the country. An automated database retrieval service providing access to approximately 250 databases is also available to students and faculty.

Facilities such as individual and group study areas, seminar rooms, typing/word processing rooms, phones, and photocopiers are available in areas that are convenient for students use.

Facilities

13. Computing Facilities

The following computing facilities are available for student use on the UM-St. Louis campus. There is an IBM 4381, and a DEC VAX 8600, with a total of 119 terminals attached. Additional timesharing services are provided by three DEC Micro VAX II and two AT&T 3B2 minicomputers. There are 81 PC Compatibles and 10 Apple Macintoshes in 11 public areas located throughout the campus. The UM-St. Louis Campus is a registered site on the Internet and is also part of the University of Missouri Computer Network. Finally, campus staff provide consultation, programming, error analysis, data entry and operations services. Additional computing resources will be required in support of this proposed program. These resources are requested. Specialized and advanced workstations would be purchased for the dedicated use of students in this program.

14. Equipment for Proposed Program

In addition to computing facilities, the area in which major resources will be needed in support of this program is that of the laboratories. Since the laboratory portion of this program will be offered in cooperation with Washington University, the equipment will be provided by Washington University. The budget includes provision for compensation of Washington University for their contribution to this program.

Administration of Proposed Program15. A Cooperative Program

The program will be administered in accordance with the resolution of the Board of Curators of the University of Missouri on the development of a cooperative undergraduate engineering evening program for nontraditional students in St. Louis. The cooperative program will provide electrical engineering and mechanical engineering degree programs for part-time, nontraditional students. This program is to be jointly administered by the University of Missouri-Rolla and the University of Missouri-St. Louis, with laboratory facilities provided by Washington University.

The cooperative engineering program will be administered by a director of engineering education who will report jointly to the Chancellors on both the UM-St. Louis and UM-Rolla campuses. The faculty will be responsible for all academic policies and academic standards connected with the program.

The budget of the cooperative program will be administered by the Director of the Cooperative Program under the joint supervision of the Chancellors of the University of Missouri-Rolla and the University of Missouri-St. Louis.

Students interested in obtaining an engineering degree in this program will enter from various routes. First-time freshmen interested in obtaining a mechanical and electrical engineering degree by means of a part-time program will declare such an intention. Those students will take the first two years of the pre-engineering curriculum from the College of Arts and Sciences on the St. Louis campus. They will be advised by the Director of the UM-St. Louis/UM-Rolla Cooperative Program. On the completion of the lower division engineering curriculum the student will formally apply for admission to the upper division engineering program.

A second group of students will take their pre-engineering program at UM-St. Louis or such institutions as, the St. Louis Community College. Those students will apply to the cooperative program on completion of the pre-engineering program. A third group of students will transfer in after completing a pre-engineering curriculum from an accredited college or university which does not have a specific articulation agreement with this cooperative program. In all cases the admission standards for this program will be those agreed to by both UM-Rolla and UM-St. Louis.

The student upon completion the designated course work will receive a University of Missouri degree signed by the Chancellor of UM-St. Louis and the Chancellor of UM-Rolla.

16. Program Evaluation

The University of Missouri reviews on a comprehensive basis all academic programs. Since ABET accreditation requires review every six years, the engineering program will be reviewed six years after its initiation and every six years thereafter. The review will be administered jointly by the Chancellors of UM-Rolla and UM-St. Louis. In addition, as noted below in answer to question 18, ABET accreditation will be sought for this program.

The Director of the cooperative program will develop a program of assessment of all students in the engineering program and the graduates of the program.

17. External Consultants

Extensive discussions and meetings have been held with Dr. Donald Smith, Director of the Coordinated Undergraduate Engineering Program at the University of Missouri-Kansas City which is a cooperative program between the University of Missouri-Columbia and the University of Missouri-Kansas City.

In addition, consultants will be used throughout the initial five year period in order to advise in the development of a quality program and to prepare for ABET accreditation.

18. Specialized Accreditation

Specialized accreditation will be sought from the Accreditation Board for Engineering and Technology. The address of this agency is:

Accreditation Director for Engineering
Accreditation Board for Engineering and Technology
345 East 47th Street
New York, NY 10017-2397

19. New Program Costs Forms

See tables on the following pages.

Appendix C

Pre-Engineering Program

Mechanical Engineering

First Year

Math 80	Analytic Geometry/Calculus I	5
Chem 11	Introductory Chemistry	5
Engl 10	Composition	3
Hist 3	American Civilization	3
	Semester Total	<u>16</u>

Math 175	Geometry/Calculus II	5
Chem 12	Introductory Chemistry II	5
MSci 122	Computers & Programming	3
Phys 111	Phys: Mechanics & Heat	5
	Semester Total	<u>18</u>

Second Year

Math 180	Analytic Geometry/Calc III	5
Phys 112	Phys: Elec-Magnetism & Optics	5
Engr 144	Statistics/Elem Strength/Materials	5
*Elective	Humanities/Social Sciences	3
	Semester Total	<u>18</u>

Math 202	Linear Algebra/Diff Equations	3
Econ 51	Principles of Microeconomics	3
Engr 145	Introduction to Dynamics	3
**Engr 30	Engineering Graphics	3
Phys 124	Intro/Electrical Networks I	3
*Elective	Humanities/Social Sciences	3
	Semester Total	<u>18</u>

* At least three hours of Humanities/Social Sciences requirements must be in the Literature area. Two courses must be taken at the upper division (junior/senior) level and each course must have as a prerequisite one of the Humanities or Social Sciences courses already taken.

** Must include computer graphics.

Appendix D

Pre-Engineering Program

Electrical Engineering

First Year

Math 80	Analytic Geometry/Calculus I	5
Chem 11	Introductory Chemistry	5
Engl 10	Composition	3
Hist 3	American Civilization	3
	Semester Total	<u>16</u>

Math 175	Geometry/Calculus II	5
*Chem 12	Introductory Chemistry II	5
MSci 122	Computers & Programming	3
Phys 111	Phys: Mechanics & Heat	5
	Semester Total	<u>18</u>

Second Year

Math 180	Analytic Geometry/Calc III	5
Phys 112	Phys: Elec-Magnetism & Optics	5
Engr 144	Statistics/Elem Strength/Materials	5
**Elective	Humanities/Social Sciences	3
	Semester Total	<u>18</u>

Math 202	Linear Algebra/Diff Equations	3
Econ 51	Principles of Microeconomics	3
Engr 145	Introduction to Dynamics	3
Phys 124	Intro/Electrical Networks I	3
Phys 231	Intro to Modern Physics	3
**Elective	Humanities/Social Sciences	3
	Semester Total	<u>18</u>

* Not required for BSEE degree but may be used for free elective (Six credit hours of free electives are required for the BSEE degree)

** At least three hours of Humanities/Social Sciences requirements must be in the Literature area. Two courses must be taken at the upper division (junior/senior) level and each course must have as a prerequisite one of the Humanities or Social Sciences courses already taken.



April 25, 1990

TO: The Honorable James Mathewson
The Honorable Robert Griffin
The Honorable Roger Wilson
The Honorable Al Nilges

Dear Friends:

We are writing to confirm our support for the limited proposal, approved by the University's Board of Curators, to provide a program to offer undergraduate degrees in electrical and mechanical engineering for non-traditional (evening, part-time) students in the St. Louis area.

This program would meet the needs of place-bound students who, for the most part, must hold full-time jobs in order to meet financial and family responsibilities.

The proposed program would be offered jointly by the University of Missouri-Rolla and the University of Missouri-St. Louis, hopefully with cooperation from Washington University. The program would be responsible to a director appointed jointly by the two Chancellors. The President would be responsible for insuring that the program meets high priority needs in a cost-effective, high quality manner. Such an administrative structure works effectively in the academic environment, and it is particularly appropriate in the context of two campuses providing the resources for a single program.

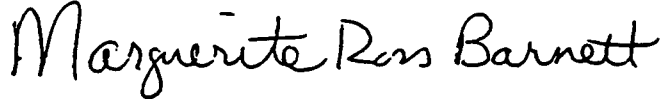
There is absolutely no intent on the part of the University to establish a full-blown college or school of engineering in St. Louis to meet the needs of full-time, traditional students. Rather, the proposed program is limited to two areas (electrical and mechanical) and will be offered only to students willing to take evening courses and to complete the degrees on a part-time basis.

We believe that this program provides an opportunity for the University to meet a high priority need in the St. Louis area and to do so through a cooperative program utilizing resources on two campuses.

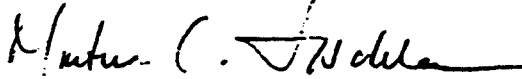
Sincerely yours,



C. Peter Magrath, President
University of Missouri System



Marguerite Ross Barnett, Chancellor
University of Missouri-St. Louis



Martin C. Jischke, Chancellor
University of Missouri-Rolla



Richard L. Wallace, Vice President
for Academic Affairs
University of Missouri System

vsd

POLICY MEMORANDUM

Qualifications for Professorial Academic Ranks

The objectives of this Policy Memorandum are to establish uniform, campus-wide, minimum qualifications for appointment to and promotion to full-time professorial academic ranks. It is to be understood that fulfillment of these minimum professional qualifications does not automatically qualify one for appointment or promotion. These guidelines are intended as general guidelines and not as rigid rules.

I. Guidelines for Appointment to Professorial Rank:A. Minimum Professional Qualifications as indicated for appropriate rank:

1. Assistant Professor (ap): Appropriate doctorate or the degree of education considered to be the terminal degree of the discipline and demonstrable promise of excellent teaching and research/scholarship abilities.
2. Associate Professor (AP): ap qualifications and a superior record in teaching and research/scholarship.
3. Professor (P): AP qualifications and a developing national reputation in teaching or research/scholarship.

II. Guidelines for Promotion: These guidelines are intended to convey in general terms the expectations in faculty development and the requirements for promotion.

All faculty members are expected to be involved in a reasonable level of service to the department and institution through committees and other service activities.

- A. Assistant Professor. Promotion or appointment to an assistant professorship is usually based upon potential. However, promotion from the rank of instructor to that of assistant professor is based partly upon performance.

The following are considerations for promotion to assistant professor:

1. Possess the degree of education considered to be the terminal degree of the discipline.

2. Have the personal qualities, intellectual interests, and the academic competence required for effective teaching and effective research/scholarship.
3. Possess the enthusiasm and the capacity to motivate students.
4. Have demonstrated the capacity for independent creative thinking.
5. Have indicated both the willingness and capability to participate as a respected colleague in deliberations concerning the department, the School/College, and the University.

B. Associate Professor. Promotion to the associate professor rank is based upon demonstrated performance and potential: a critical evaluation of teaching effectiveness and professional growth should be made at this point.

The following are considerations for promotion to associate professor:

1. Satisfy the criteria for promotion to assistant professor.
2. Be recognized as an effective teacher as demonstrated by student and peer evaluation, awards and honors, course and curriculum development activities.
3. Be recognized as an effective researcher/scholar as demonstrated by publication of significant research results, securing of research support, scholarly presentations or publications of pedagogical nature and/or publication of textbooks, transfer of new technology, and/or other scholarly creative attainments recognized in the field through external evaluation by professional peers.
4. Be recognized by colleagues and peers as making significant contributions to departmental and institutional goals.

The length of service on the faculty before promotion will vary with the individual's productivity, qualifications, and rate of development. As a point of reference, promotion to the rank of associate professor may be considered after a minimum of three years service as assistant professor and will normally be considered in the sixth year of service.

C. Professor. Promotion to the rank of professor is intended to recognize status as a mature, excellent, and thoroughly productive scholar and teacher. Promotion to this rank requires that the quality of the individual's work be recognized by professional peers.

The following are considerations for promotion to professor.

1. Satisfy criteria for promotion to associate professor.
2. Have a developing national reputation in teaching or research as demonstrated by external evaluation by professional peers.

While no minimum time in rank is required, under normal circumstances achievement of the stature, maturity, and record of accomplishment required for promotion to the rank of professor will normally require a minimum of three years service as AP.

III. Exceptions:

Recommendations with strong justification for exceptions to any of the above guidelines may be initiated at the departmental level.

Cooperative Training Program
University of Missouri at Rolla
(Approved by the Academic Council 6/14/90)

Eligibility Requirements for Student Participation in Co-op

1. UMR students must be registered to participate in the cooperative training program. Failure to enroll may seriously affect the student's status for insurance, loans, grants, and income tax status. A registration fee, equivalent to one credit hour of lower level coursework must be paid for each work session. Summers are counted as a co-op work session. Registration procedures are outlined in the UMR Manual of Information for regular coursework.
2. Co-op students must be "full-time" and in good academic standing.
 - a. To be eligible to participate in the co-op program, a student should be full-time and in good academic standing. These conditions are defined as passing a minimum of 12 credit hours in a fall or winter semester and a minimum of 6 credit hours in a summer session.
 - b. Students must maintain a cumulative and semester GPA of at least a 2.0/4.-0 to enter and to remain in the co-op program, and must NOT be on any type of university probation.
3. Students must complete at least 12 months of co-op training on an alternative semester basis before graduation. This may include a fall, a winter and a summer semester. Work schedules may not be confined solely to summer or vacation periods.
4. Students, at the option of the academic department, may be granted academic credit for the co-op work experience. The student's department determines procedures and evaluation criteria for granting academic credit and must inform the co-op administration office of their policies or any changes of the policy.
5. Transfer students may begin the co-op work period before they report on campus, if they have participated in a co-op program with their previous institution or if their cumulative GPA exceeds 3.0/4.0, and they have approval from their UMR academic advisor.
6. UMR transfer students may register only through the Co-op Office in Rolla.
7. Efforts should be made by the academic department at UMR to ensure that work assignments are related to the student's academic and career goals and that progressively more

responsible positions are realized in the work experience periods. It is the student's responsibility to report to the Co-op Office and to the academic department that the work assignments are progressively more responsible. The Co-op work experience should be part of an industry training activity, recognized as a part of a professional in-training program.

9. Co-op employers must conduct appraisals and counsel students regarding student work performance for each work period and share appraisal reports with students and the UMR Co-op Office. Performance appraisals records will be kept by the university.

Waiver of Requirements

In unusual circumstances and with approval of the UMR academic departments and the co-op employer, the Director of the Co-op Program may waive eligibility requirements. The petition to waive any requirement must be submitted on a form available from the Co-op Office.

MEMO TO: The Academic Council
FROM: The Admissions and Academic Standards Committee
RE: Recommendations for Agenda Items 1, 3, and 4.

Item #1.

The current regulation requires a review of the student's academic record at the department level if the student has been placed on academic probation two or more times. These students are considered scholastically deficient and may be dismissed from the University. Most often the possibility of dismissal coupled with the Department's warm advice and recommendation is sufficient to produce transformation -- frequently amazing transformation.

In some cases the department does not see good prospects for the student's achieving satisfactory academic performance in that department's offering and declines to allow the student to continue. Students who have been dismissed may apply to other departments. Readmission of dismissed students by a different department requires the approval of the admitting department.

A scholastically deficient student may appeal to the dean of the school or college in which he was enrolled or, to the dean of the school or college to which the student wishes to transfer, for reconsideration.

Removal from scholastic probation requires meeting the appropriate grade-point requirement, depending on the semester and passing nine (9) credit hours. (Part-time students are allowed an appeal process). The minimum of nine hours was a deliberate recommendation of the Committee and has been approved by the Council to encourage scholastically deficient students to reduce their academic workload and, hopefully, improve performance level of these students. The Committee believes the current policy is functioning as designed and recommends the following addition to the Manual of Information as a cautionary note:

IX. Unsatisfactory Work

2. c. You may remove scholastic probation at the close of a fall or winter semester by raising your grade point index to meet the minimum requirements for the semester in which you are registered, provided a minimum of nine (9) credit hours are passed. Students are cautioned that removal from scholastic probation with less than 12 hours of coursework may cause ineligibility for some university programs (student financial aid, athletics, etc.). It is the student's

responsibility to determine the minimum number of hours of coursework that must be passed to be eligible for these programs.

Item #3.

The Director of the Cooperative Training Program believes that the rules and regulations that govern eligibility and participation in the Cooperative Training Program between the university and industry/government employers should be approved by the Academic Council. The existing program has evolved over the years without a review and recommendation from the faculty.

The accompanying document is a set of rules and regulations that the Committee and the Director have assembled. Items 5 and 7 are new. This material is too extensive to be included in the Manual of Information and will be referenced with an addition to the last sentence in the manual in the section entitled:

STUDENT AFFAIRS

COOPERATIVE TRAINING PROGRAM (last sentence)

... More information, including rules and regulations of eligibility and participation, may be obtained at the Career Development Office ...

The Committee believes the operation of the Cooperative Training Program could be improved with the formation of an advisory board whose members are appointed by the Vice Chancellor for Academic Affairs. This board should be principally faculty, but a member or two should be from industry.

Item #4.

The essence of this referral to the committee is that a certain percent of freshmen compile poor academic performance records during their Freshman year. Subsequent work in later semesters is frequently at much higher levels of performance. However, the student's cumulative GPA is distorted, particularly in the early semesters, as the averaging process includes a large percent of unsatisfactory grades.

The question asked of the Committee is the following:

Should the University allow freshmen to retake courses in which poor grades were earned and replace the prior grade with the later grade, up to some maximum number of hours (let us say 15 for discussion purposes) for calculation of the grade point average?

This special provision is justified on the basis that freshmen, in making the transition to university work from the secondary school, frequently have all sorts of adjustment problems.

The Committee is not insensitive to the problems of freshmen in adjusting to the demands of university level work. But students all through their academic program have to accommodate these "dislocations." Transfer students make the same claim of transitional problems in their first semester or so after transferring. Students frequently have personal or family problems that seriously affect their ability to perform at a satisfactory level. There simply is no way to fairly determine a means where one group of students receives preferential treatment over others in calculation of the grade point average.

In general, the proposal is a subset of the old academic grade point average that the Council eliminated some years ago.

It is the feeling of the Committee that the cumulative grade point average calculated over all grades is the fairest representation of the student's performance. If some provision were made to modify the basic calculation, it could not be called a cumulative GPA, but would need a modifier (adjusted, academic, whatever). The real problem begins with the confusion and misrepresentation when there are two different GPA's.

As a comparative note, our sister campus in St. Louis proposed, several years ago, a very similar type of action called academic bankruptcy. A significant number of their students had very poor academic records in early coursework, with later improvements. This proposal would have allowed students to modify the transcript. The faculty would not approve this proposal.

The recommendation of the Committee is that no change be made in the current regulation in calculating the cumulative grade point average.

Attachment III.A

MEMO TO: Academic Council

FROM: Curricula Committee

SUBJECT: January 11, 1990, Meeting

EC1's Reviewed

EC1 246, Math 401, Introduction to Math Logic. Approved for Fall 1990. 3 hours credit. Prerequisites: Math/Stat 305, or CSc 258, or consent of instructor.

EC1 247, History 301ML, Ancient Egypt: The Black Land. Approved for Winter 1990. Prerequisite: Hist 111. 3 hours credit.

EC1 248, History 301ML, Political Exiles in 19th Century Britain. Approved for Winter 1990. Prerequisite: 112 Pol Sci. 3 hours credit.

EC1 250, Chemistry 201, Science Teaching with In-Classroom Computers. Approved for Summer 1990. 2 credit hours. Prerequisite: School Science Teachers.

(Editorial change, deleted the word "Public" from the prerequisite.)

CC1's Reviewed:

CC1 3183, Engineering Management 485, Advanced Topics in Quality Assurance. Approved new course for Fall 1990. 3 hours credit. Prerequisites: EMgt 375 or 385 or 387. Description reads: Selected topics such as cost analysis, organizational structure, Ishikawa diagrams, Pareto analysis, Taguchi methods and other statistical procedures will be examined with regard to their underlying theoretical basis and problems in application.

CC1 3196, Engineering Management 389, Packaging Materials II. Approved for Fall 1990. Change in prerequisites from Preceded or accompanied by EMgt 208 to Preceded or accompanied by EMgt 383.

CC1 3197, Engineering Management 388, Packaging System Design. Approved for Fall 1990. Change in course title from Case Studies in Packaging System Design. Prerequisites changed from Preceded or accompanied by EMgt 208 and 251 to Preceded or accompanied by EMgt 383.

CC1 3202, Engineering management 384, Packaging Materials I. Approved for Winter 1990. Prerequisites changed from Senior or graduate standing to Preceded or accompanied by EMgt 383.

Attachment III.A

CC1 3204, Ceramic Engineering 331, Ceramic Processing. Approved for Winter 1990. Course title changed from Ceramic Materials Processing I. Change in description reads: Powder, colloidal and sol-gel processing, forming methods, drying, sintering and grain growth. Relation of processing steps to densification and microstructure development.

CC1 3207, Ceramic Engineering 210, Seminar. Approved deletion for Winter 1990. To be dropped from curriculum but remain in the database for future use.

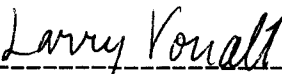
CC1 3210, Engineering Mechanics 170, Statics and Dynamics. Approved deletion.

CC1 3211, Aerospace Engineering 233, Introduction to Aerothermochemistry. Approved for Fall 1990. Prerequisites changed from AE 231, AE 271, Me 225 to Ae 231, AE 271. Change in description reads: Principles of thermochemistry in reacting flow including an introduction to fundamentals of quantum mechanics, statistical mechanics and statistical thermodynamics. Applications in flow through nozzles and shock waves, combustion, aerodynamic heating, ablation and propulsion.

CC1 3212, History 340, Religion and Witchcraft in Early America. Approved new course for Winter 1991. 3 hours credit. Prerequisites: Hist 175 or Hist 112. Description reads: An examination of the role of occult ideas and practices in the religious life of early Americans. Emphasis placed upon Puritan beliefs which contributed to seventeenth century effort to eradicate witchcraft.

CC1 3213, Mechanical Engineering 025, Introduction to Design. Approved for Summer 1990. Course title changed from Mechanical Design. Prerequisites changed from EG 10, Math/Stat 8 to EG 10, preceded by or concurrent with BE 50. Change in description reads: Introduces the process of design with emphasis on creativity and design visualization. Students are taught to produce elementary, workable mechanical designs. Several design projects are involved.

CC1 3214, Mechanical Engineering 213, Machine Dynamics. Approved for Winter 1990. Prerequisites changed from Phy 23, EMe 160 to ME 25, Phy 23, EMe 160.



Larry Vonalt, Chair

MEMO TO: Academic Council

FROM: Curricula Committee

SUBJECT: January 11, 1990, Meeting

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CC1 3207, Ceramic Engineering 210, Seminar. Approved deletion for Winter 1990. To be dropped from curriculum but remain in the database for future use.

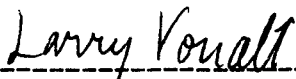
CC1 3210, Engineering Mechanics 170, Statics and Dynamics. Approved deletion.

CC1 3211, Aerospace Engineering 233, Introduction to Aerothermochemistry. Approved for Fall 1990. Prerequisites changed from AE 231, AE 271, Me 225 to Ae 231, AE 271. Change in description reads: Principles of thermochemistry in reacting flow including an introduction to fundamentals of quantum mechanics, statistical mechanics and statistical thermodynamics. Applications in flow through nozzles and shock waves, combustion, aerodynamic heating, ablation and propulsion.

CC1 3212, History 340, Religion and Witchcraft in Early America. Approved new course for Winter 1991. 3 hours credit. Prerequisites: Hist 175 or Hist 112. Description reads: An examination of the role of occult ideas and practices in the religious life of early Americans. Emphasis placed upon Puritan beliefs which contributed to seventeenth century effort to eradicate witchcraft.

CC1 3213, Mechanical Engineering 025, Introduction to Design. Approved for Summer 1990. Course title changed from Mechanical Design. Prerequisites changed from EG 10, Math/Stat 8 to EG 10, preceded by or concurrent with BE 50. Change in description reads: Introduces the process of design with emphasis on creativity and design visualization. Students are taught to produce elementary, workable mechanical designs. Several design projects are involved.

CC1 3214, Mechanical Engineering 213, Machine Dynamics. Approved for Winter 1990. Prerequisites changed from Phy 23, EMe 160 to ME 25, Phy 23, EMe 160.



Larry Vonalt, Chair

Attachment III.A

January 15, 1990

TO: Donald Askeland, President, Academic Council

FROM: Larry Vonalt, Chair, Campus Curricula Committee LV

RE: Curricula Committee's Report Concerning Academic Council Matters

Item No. 1: CAPS and the Graduation Catalogue

This matter has apparently been resolved; consequently, the Curricula Committee has no recommendation.

Item No. 2: Time Limitation of the Graduation Catalogue

The Curricula Committee recommends the following be added to The Manual of Information:

(1) Students continuously enrolled at any university may use the graduation requirements of the catalogue of entry. If the students' enrollment period, continuous or not, extends beyond ten (10) calendar years, then students must fulfill the graduation requirements of the catalogue current at the end of the 10 year period.

(2) If students are not enrolled for three consecutive semesters or for one and a half calendar years, then they must fulfill the graduation requirements of the catalogue at current re-enrollment.

(3) Students who interrupt their enrollment for one semester or more must apply for readmission to the university in their semester of graduation.

Item No. 3: Fee Structure Inequities

The Curricula Committee agrees that its only role in regard to the matter of fee structure inequities is to determine the necessity of proposed courses being cross-listed in departments in the Arts and Sciences College and either the School of Engineering or the School of Mines and Metallurgy. Therefore, the Committee has no recommendation on the matter of fee structure inequities.

Item No. 4: Infrequently Taught Courses

The Curricula committee recommends that departments wishing to remove infrequently taught courses from their curricula do so. It also recommends that courses taught only when needed not be removed from the catalogue and placed in a "preapproved" category. Instead, the Committee recommends that such courses be listed in the catalogue under the title, "Offered Occasionally," by only course

Attachment III.A

number and title at the end of the department's courses.

The Committee also recommends that the procedure for making these changes is for the department chairs to submit a list of courses for deletion to the Vice Chancellor for Academic Affairs and to the Curricula Committee. The department chairs should also submit to the Vice chancellor for Academic Affairs and to the Curricula committee a separate list of courses to be listed under the title "Offered Occasionally." This procedure seems easier than submitting separate CC-1 forms for each of the courses to be deleted or listed under the "Offered Occasionally" title.

Item No. 5: Proposed New Procedures for Academic Program Approval
The Committee has no recommendation concerning this matter.

President's Report

Athletics: Chancellor Jischke has asked me to remind you of the plan for Athletics developed earlier this month. The plan will preserve soccer, tennis, and rifle as intercollegiate sports. The four parts of his decision were

1. reduce the administrative staff in Athletics by retirement
2. require (except for football and basketball) that coaches coach at least two sports, thereby eliminating one coaching position by retirement
3. hire a full-time intramural director
4. construct an addition to the Bullman Multi-Purpose Facility

This plan requires that the students approve an increase in the athletic fee of initially \$5.00 per semester and later an additional \$12.50 per semester. The student ballot took place Tuesday and the students overwhelmingly approved the Chancellor's plan.

Board Expectations: The Board of Curators meets at the end of next week. Three items expected to be presented and acted on include

1. the faculty and staff benefits package
2. the conflict of interest policy -- this appears to be similar to the latest version that we discussed at the last Council meeting. This policy is the result of bargaining that allows the university to establish a conflict of interest rather than having the policy legislated to us by the General Assembly. Dr. Park has informed Vice-President Wallace that our faculty does have reservations concerning the policy statement and urges Dr. Wallace to review the policy, if it is adopted by the Board, after one year to assure that it is working properly.
3. admissions standards -- as Prof. Herrick will describe later, the final draft is essentially that proposed by UMC, with a few extra items attached at the last moment. Admissions and Academic Standards and RP&A have indicated to Vice Chancellor Park that these two committees still prefer UMR's plan. Chancellor Jischke is supportive of our plan and I have heard him lobby with several Curators in favor of our approach.

Planning: I have discovered after only a few months that planning is ever-present. Three items of interest in this regard are

1. planning to improve funding for the university is being carried out on several fronts. Prof. Williams will have a resolution to offer on this subject later this afternoon. Most of the comments I have heard suggest that any increase in funding will also require that the university demonstrate that we are making more efficient use of our existing resources. You should not therefore be totally surprised if requests for further reallocation, program review, etc. are sent to the campus.
2. updating and integration of the long range plan and the agenda for action items has been promised to the Board by the President. The Chancellor, Vice Chancellors, and academic deans will be working on UMR's contribution and I have been promised that faculty will be consulted. Earlier this week I sent you a copy of the UMR mission statement and asked for any preliminary comments that you might have to offer. Several comments have made their way to me and I

will be delivering a note to the Chancellor today incorporating these comments. The note includes that some people believe that the current statement is poorly written, that arts and sciences programs are made to appear complimentary to engineering rather than important programs in their own right, urging that appropriate references to engineering education in the urban areas be included, and requesting that the faculty have as much opportunity to review the mission statement, goals and objectives, and five-year plan as possible. The University Planning Council, containing six representatives from UMR, will also be reviewing these items. I will also be asking you to take a look at the goals and objectives portion of the long range plan and ask for comments on these, as soon as I figure out what questions to ask of you.

Availability of computing accessories: Vice-Chancellor Park reports to me that a scanner particularly suitable for creating, grading, and massaging results of multiple choice exams is available in the computer center for your use. Furthermore, a color printer suitable for use with Macintosh and IBM PC software is expected to be available through the Chemistry Department sometime in the relatively near future.

Evaluation of Teaching Effectiveness: The initial trial run of the instrument for teaching evaluation has been accomplished, with not all favorable reactions. Some type of campus-wide teaching evaluation by students will be done; however Dr. Park believes that this instrument should represent only a part of the evaluation process -- self-evaluations, peer evaluations, and chair evaluations are also essential.

I believe that we are committed to permitting Vice Chancellor Park to continue this experiment for the remainder of the academic year; however Dr. Park emphatically states that he wants and welcomes any comments that the faculty and Council might have for improvements, both for next semester and for further into the future. Consequently I have asked Dr. Park to make every effort to have the results of this first trial available by the beginning of next semester and, with input from the CET (Committee on Effective Teaching), to provide the Council with a progress report at the January Council meeting. Dr. Park believes that this is desirable and possible. At this time, opportunity will also be provided for Council members to voice comments and suggestions regarding the process and instrument.

On the other hand, I personally urge the Council members as well as the faculty as a whole to consider if and how their current evaluation procedures and instruments could be integrated with the administration's procedures and instruments.

January 15, 1990

TO: Donald Askeland, President, Academic Council

FROM: Larry Vonalt, Chair, Curricula Committee LV

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number and title at the end of the department's courses.

The Committee also recommends that the procedure for making these changes is for the department chairs to submit a list of courses for deletion to the Vice Chancellor for Academic Affairs and to the Curricula Committee. The department chairs should also submit to the Vice chancellor for Academic Affairs and to the Curricula committee a separate list of courses to be listed under the title "Offered Occasionally." This procedure seems easier than submitting separate CC-1 forms for each of the courses to be deleted or listed under the "Offered Occasionally" title.

Item No. 5: Proposed New Procedures for Academic Program Approval
The Committee has no recommendation concerning this matter.




UNIVERSITY OF MISSOURI-ROLLA

Academic Council

Curtis Wilson Library
Rolla, Missouri 65401-0249
Telephone (314) 341-4972

January 22, 1990

TO: All Faculty

FROM: Donald R. Askeland 
President, Academic Council

RE: Review of Campus-wide Teaching Effectiveness Evaluations

As you will note from the attached, the Agenda for the next meeting of the Academic Council on Thursday, February 1, includes a review of the procedure and instruments used for the Teaching Effectiveness Evaluations conducted last Fall. Vice Chancellor John Park will review these procedures, describe any problems that developed, provide the Council with his plans to improve the procedure, and ask for comments and suggestions from the Faculty. All members of the Faculty are invited to attend this meeting and participate in the discussion of this evaluation procedure.



UNIVERSITY OF MISSOURI-ROLLA

Academic Council

Curtis Wilson Library
Rolla, Missouri 65401-0249
Telephone (314) 341-4972

UMR Faculty

A G E N D A

January 25, 1990

Academic Council Meeting, Thursday, February 1, 1990; 1:30 p.m.; G-5 H/SS.

I. Approval of minutes of November 30, 1989 (VOL. XIX, NO. 3) meeting.

II. Reports and Responses

A. President's Report (5 min.) Don Askeland (4730)

B. Referrals

1. Non-Regular Academic Appointment Policy to Personnel Committee
2. Informal Procedures for Harassment Complaints to Personnel Committee
3. Discrimination Grievance Procedures for Students to Student Affairs Committee

C. Chancellor's Report on Admission Standards (15 min.) Martin Jischke (4114)

D. Vice-Chancellor's Report on Teaching Evaluation (30 min.) John Park (4138)

III. Reports of Standing and Special Committees

A. D.6.b Academic Freedom (No Report) Don Oster (4817)

1. Academic Freedom and Outside Teaching Assignment Administrative Response (June 15, 1989; XVIII, 7; II.B.4)

B. D.6.c Admissions and Academic Standards (No Report) Thomas Herrick (4507)

1. Revised Regulations for Removing a Student from Academic Probation (April 23, 1987; XVI, 8; IV.A.1)
2. Excused Absence Procedure (May 5, 1988; XVII, 8; II.B.1)
3. Co-op Training Requirements (October 19, 1989; XIX, 2; II.B.2)

C. D.6.i Curricula (15 min.) Ron Howell (4638)

- *1. CAPS and the Graduation Catalogue (June 25, 1987; XVI, 9; IV.A.1)
- *2. Time Limitation of the Graduation Catalogue (June 25, 1987; XVI, 9; IV.A.2)
- *3. Fee Structure Inequities (December 8, 1988; XVIII, 3; II.C.1)
- *4. Infrequently Taught Courses (September 14, 1989; XIX, 1; III.B.1)
- *5. Procedures for Academic Program Approval (September 14, 1989; XIX, 1; III.B.4)
- *6. Report No. 4, 1989-90

D. D.6.o Personnel (10 min.) Vince Roach (4449)

1. Qualifications for Professorial Ranks (September 14, 1989; XIX, 1; III.B.2)
2. Non-Regular Academic Appointment Policy (February 1, 1990; XIX, 4; II.B.1)
3. Informal Procedures for Harassment Complaints (February 1, 1990; XIX, 4; II.B.2)

- E. D.6.s Student Affairs (No Report) Ron Howell (4638)
 - 1. Procedures for Student Requests for Waivers of Deadlines
(September 14, 1989; XIX, 1; III.B.3)
 - **2. Hockey Puck Sales Resolution

IV. Old Business

V. New Business

R, P & A Cmtt.
LW/cmb/1-11-90

*Supplementary materials sent to Academic Council members and department chairmen.

**Motion to remove from table and agenda is expected.



UNIVERSITY OF MISSOURI-ROLLA

Department of Chemistry

142 Schrenk Hall
Rolla, MO 65401-0249
Telephone (314) 341-4420
FAX (314) 341-6033

January 26, 1990

Memo to: Don Askeland
President, Academic Council

From: Personnel Committee
Vince Roach, Chairman

Re: Recommendations regarding referrals:
(1) Policy Memo II-12
(2) Procedures for Sexual and Racial Harassment Complaints

The Personnel Committee has met and deliberated regarding two recent referrals, namely

(1) Revision of Policy Memo II-12 (copy attached).

(2) Proposed Informal Procedures for Sexual and Racial Harassment Complaints (copy attached).

The committee recommends to you and the Academic Council that,

(1) the attached copy of Policy Memo II-12 (revised, dated 12/11/89) be accepted with the following changes:

page 1, section 1. Adjunct Appointments, 1st sentence of paragraph: the proposed change or addition of "... or retired from another..." be replaced with "...with or retired from a"

page 1, section 1, 2nd sentence, line 5, elimination of "... employed outside the university"...

page 3, section 3, Teaching appointments, 4717, Graduate Teaching Assistant, addition to the last sentence "... with a grade of B+ or higher."

(2) that the attached "draft of policy memorandum "Informal Procedures to Handle Sexual and Racial Harassment Complaints" be accepted as written.

DVR:dms

December 11, 1989

NUMBER II-12

NON-REGULAR ACADEMIC APPOINTMENTS

The University of Missouri has a three-fold mission: instruction, research, and service. Faculty are expected to hold the highest degree in their discipline (usually the doctorate) if they are on or are being considered for a permanent (tenure) appointment.

From time to time, needs may require the appointment of qualified personnel for a specified term of service to non-regular, temporary positions. Titles for such appointees may vary according to circumstances. Whatever the circumstances and title, these appointments are temporary in duration, are non-regular in nature, and are not intended to lead to tenure. Appointees will not be candidates for degrees at UMR unless specifically stated otherwise.

1. Adjunct Appointments

102 Adjunct Professor
101 Adjunct Associate Professor
100 Adjunct Assistant Professor

These titles will be used to signify the affiliation of appropriate levels of qualified persons with UMR departments while employed full-time *with* or retired from ~~another~~ department, administrative unit, or organization. It is the intention that this be an honorary or courtesy title for persons with special capabilities ~~employed outside the University~~ who might be available for teaching or research. These titles, however, should not be confused with positions more appropriately staffed with lecturers or instructors.

2. Visiting Appointments

9530 Visiting Professor
9520 Visiting Associate Professor
9510 Visiting Assistant Professor

These titles will be used for staff on leave from other institutions or organizations when qualifications are equivalent to the appropriate title as described by Policy Memorandum II-10. Salaries will be consistent for equivalent qualifications with those provided permanent faculty. Some consideration may be necessary to offset additional living costs.

Attachment III.B

3. Teaching Appointments

3800 Lecturer

This title will be used for full- or part-time employees who usually have a minimum of a master's degree in the discipline of the appointment. Assignments will be limited to full-time classroom and/or laboratory instruction.

4665 Graduate Instructor

This title will be used for a full-time appointee who usually has a master's degree and who is a Ph.D. candidate at UMR. This title and salary level conform to Stipend X recommendations. Acceptance of the GI position commits the recipient to 40 hours per week of effort limited to classroom and/or laboratory instruction. Guidelines for apportioning GI hours and course loads are given under Permissible Schedules in the Graduate Bulletin.

9110 Teaching Fellow

This title will be used for a full-time appointee who possesses a master's degree and is actively pursuing a Ph.D. degree in the department in which the appointment is held. Renewal of the appointment is contingent upon satisfactory progress towards the Ph.D. degree and support is limited to a 4-year period. The acceptance of a TF position commits the recipient to 40 hours per week of effort relative to the appointment. A TF will normally teach from 9 to 12 hours consisting primarily of lecture courses at the undergraduate level. In addition, he/she will participate in departmental committee activities and assist with the departmental undergraduate advising program.

9100 Teaching Associate

This title will be used for full-time employees who usually have a minimum of a master's degree. Primary assignments will be limited to supporting departmental faculty in maintaining quality undergraduate and graduate laboratory programs and may include coordination and management of laboratory programs, development and/or design of new laboratory instructional apparatus, and occasional teaching assignments.

4717 Graduate Teaching Assistant

This title will be used for a part-time appointee who holds a baccalaureate degree and is a candidate for an advanced degree at UMR. This title conforms to Stipend X recommendations. Acceptance of a GTA position commits the recipient to 10, 15, 20, 25, or 30 hours per week. Salaries will be 25%, 37.5%, 50%, 62.5%, or 75% of Stipend X, respectively. Assignments will normally be in assisting with classroom and/or laboratory instruction. Guidelines for apportioning GTA hours and course loads are given under Permissible Schedules in the Graduate Bulletin. Assigned GTA hours are not to be exceeded.

All first-time Graduate Teaching Assistants are required to have completed the UMR Instructional Communications Workshop and to have passed the accompanying evaluation *with a grade of B+ or higher.*

4660 Grader

This title will be used for a part-time appointee who holds a baccalaureate degree and is a candidate for an advanced degree at UMR. This title conforms to Stipend X recommendations. Acceptance of a Grader position commits the recipient to 10, 15, 20, 25, or 30 hours per week of effort relative to the position. Salaries will be 25%, 37.5%, 50%, 62.5%, or 75% of Stipend X, respectively. Duties will usually be in assisting with grading of classroom and/or laboratory assignments. Guidelines for apportioning Grader hours and course loads are given under Permissible Schedules in the Graduate Bulletin. Assigned Grader hours are not to be exceeded.

4. Research Appointments

- 7690 Research Professor
- 7677 Research Associate Professor
- 7676 Research Assistant Professor

These titles will be used for appointments normally on grant and contract funds. Appointments are to be with entry levels and salaries comparable to the respective tenure track appointments.

- 7657 Research Engineer
- 963 Associate Research Engineer
- 1749 Assistant Research Engineer

These titles will be used to give professional status to engineers supporting research activities. Entry levels shall be respectively at the Ph.D., M.S., and B.S. levels. Entry salary monthly rates will range from Stipend X to Assistant Professor levels.

8630 Senior Research Investigator

This title is a research title used in research centers for personnel who have joint appointments in departments. Salaries and qualifications will be consistent with the level of the departmental appointment.

7650 Research Associate and Institute Fellow

These titles are to signify an affiliation of departmental staff members with research center, i.e., Professor of Chemistry and Research Associate in the Materials Research Center, or Professor of Mathematics and Fellow of the Institute of Applied Mathematics.

Draft of Policy Memorandum

Informal Procedures to Handle Sexual and Racial Harassment Complaints

The following procedures supplement the formal University of Missouri Procedures as outlined in University of Missouri's Personnel Policy Manual PE106 and University of Missouri-Rolla Student Manual of Information. In the interests of both complainant and accused, all communications and discussions with Equality Aides and the Affirmative Action Officer will be held in strict confidence except where specified in this policy or when to do so would conflict with the best interests of the university.

In the process of implementing this policy, the Chancellor will designate thirty Equality Aides. They will be faculty, staff, and administrators trained by skilled personnel in interview techniques, assessment of harassment/discrimination complaints and university policies.

I. Informational Contact

- A. The complainant may visit with one of the university's Equality Aides* to discuss a problem he or she suspects may be sexual or racial harassment. The Equality Aid may suggest solution methods or send the complainant to visit with the Affirmative Action Officer.

Equality Aides will notify the Affirmative Action Officer of each contact with a complainant.

- B. Alternatively, the complainant may go directly to the Affirmative Action Officer to discuss the problem. Alternative solution methods will be suggested.

II. Informal Resolution Process

- A. If it is determined, based on the Informational Contact, that the behaviors described by the complainant would constitute sexual or racial harassment, the Affirmative Action Officer will decide, in consultation with the complainant, how to contact the accused to further investigate the complaint and to attempt an informal resolution of the complaint.

- B. The accused will be contacted

- personally or through supervisor
- in person or in writing.

Typically the contact will be made in a timely fashion although delays may occur when deemed to be in the best interest of the complainant.

The informal resolution will include recommendations made by the Affirmative Action Officer for dealing with the complaint.

- C. The complainant will be given feedback about the Affirmative Action Officer's contact with the accused.

Attachment III.B

The Affirmative Action Officer will meet with the complainant for a follow-up visit 2-4 weeks after attempt at informal resolution is made to see if the behavior has stopped.

III. Referral to Formal Process

If the complainant reports that the unwanted behavior is still occurring at the time of the follow-up visit, and it is determined by the Affirmative Action Officer that the recommendations discussed in the Informal Resolution Process have not been followed, the Affirmative Action Officer will contact the supervisor of the accused and encourage the complainant to pursue the formal procedure for dealing with harassment complaints.

Effective Date:

Responsibility:

Basis:

1/30/90

DRAFT

UNIVERSITY OF MISSOURI-ROLLA

MISSION STATEMENT

The University of Missouri-Rolla, established in 1870 as the University of Missouri School of Mines and Metallurgy, serves as Missouri's leading engineering and technological university. A technological university of national distinction, the University of Missouri-Rolla is committed to its historic land-grant missions of teaching, research, and public service in behalf of all the citizens of Missouri.

The University of Missouri-Rolla fulfills its educational mission through its College of Arts and Sciences, School of Engineering, and School of Mines and Metallurgy. The campus offers superior residential programs at the undergraduate and graduate levels that include a full range of engineering degrees as well as a number of liberal arts and sciences programs. The Rolla campus is committed to creating a rich educational environment where, through continued evaluation and improvement, learning and personal development flourish and qualified students are prepared for a lifetime of professional achievement and societal contribution.

The University of Missouri-Rolla shares in the commitment to research, scholarship, and creative activity of the University of Missouri System. Research, both basic and applied, is conducted to advance knowledge, to provide graduate education, and to address the needs of the citizens of Missouri and of the nation. By fostering a community of inquiring and discerning scholars, the campus' research mission enriches the environment for learning and public service. To ensure the widespread benefits of its work, the campus shares the results of its research and scholarly activities with the international academic and scientific communities.

The University of Missouri-Rolla, with its emphasis on engineering, science, and technology, assumes a special responsibility in assisting and promoting the economic development of the state of Missouri and the nation.

Attachment II.C.4

In pursuit of its statewide mission as a technological university, the University of Missouri-Rolla engages in public service that derives from its teaching and research activities. Continuing education in engineering and technology within the state of Missouri is a specific responsibility of the University of Missouri-Rolla. In addition, the campus seeks to serve the engineering education needs of nontraditional students throughout Missouri. The campus furthers the availability of engineering and scientific education through cooperative efforts with other campuses, innovative delivery systems, and specialized extension programs. This mission is enhanced further through the UMR Engineering Education Center in St. Louis and other off-campus educational programs.

The University of Missouri-Rolla will continue to pursue its goals of affirmative action and equal opportunity employment. UMR actively seeks to bring its resources and opportunities to all qualified individuals regardless of race, creed, sex, or national origin.

Attachment II.D
ASSESSMENT HIGHLIGHTS

Academic Assessment

February, 1990

STUDENT OPINION OF TEACHING EFFECTIVENESS QUESTIONNAIRE

We are pleased with the degree of success experienced during the first phase of the pilot study on the "Student Opinion of Teaching Effectiveness Questionnaire." We continue to encourage the UMR community to provide feedback as we plan the second phase of this pilot year. The Committee on Effective Teaching is reviewing procedures and considering changes for the second phase of the pilot study.

PARTICIPATION RATES:

Participation rates were very good for this pilot period. These rates are reported here from both the perspective of students and class sections.

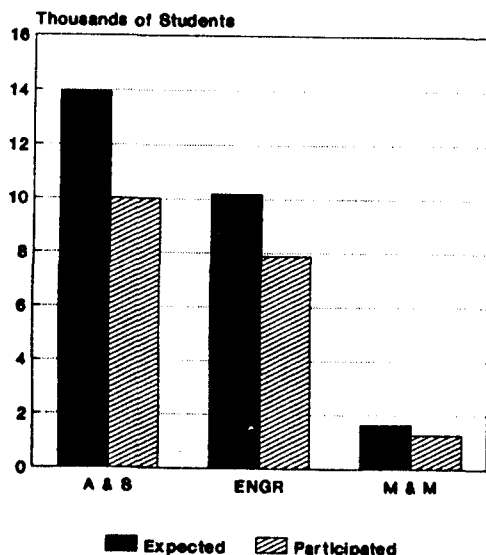
Students--A total of 25,793 surveys were sent out for administration; 19,165 were returned for processing. This means an overall rate of 74.3% of the student body participated, which can be compared to the national rate of 70% for established teaching effectiveness surveys. To obtain representative data, at least 66% of the students must submit responses.

Class Sections--A total of 1,131 sections were expected to administer the survey, while 1,034 actually did. This a 91.4% section participation rate.

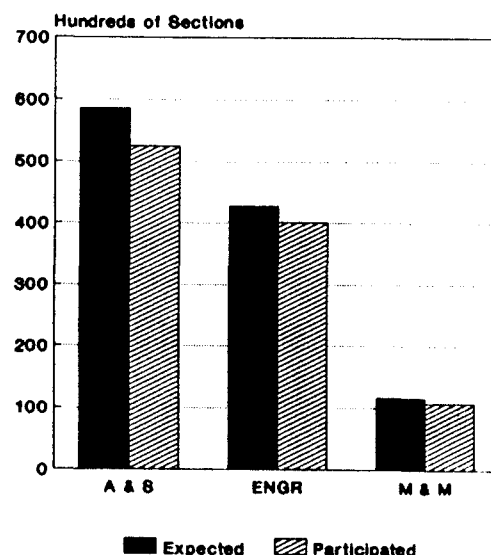
Missing Sections--The 97 missing sections are equivalent to 8-1/2% of all sections expected to be evaluated, and comprise about 2% of the student body expected to participate. Aerospace Studies and Military Science account for about 30% of the 97. Several other sections are missing due to known administration problems of various types. Only a small number of sections remain with no explanation for the zero report.

The following graphs show student and section participation by school/college.

**Student Participation
by Academic Unit**



**Class Section Participation
by Academic Unit**



OBSERVATIONS ABOUT THE SURVEY QUESTIONS

Students Rate the Instructors' Overall Performance Higher Than Their Teaching Effectiveness

Question 18 (How would you rate the overall teaching effectiveness of the instructor) and question 19 (What is your overall evaluation of the instructor) were perceived by students as very different questions. Of all the questions on the survey, the responses to #18 were consistently lower than any other item. The range across departments and curricular areas on #18 was from the high of 4.2 to the low of 2.6. Item 19 was consistently rated higher than 18. Students were more tolerant of the instructor than the instructor's teaching.

Students Value the Instructor Who Cares, and Uses Examples

One question cluster showed a direct relationship among three items. Students tended to rate the following three questions similarly:

#10. The instructor shows concern for the students' understanding of the material.

#16. The instructor uses helpful examples to explain concepts and principles.

#17. I would recommend this instructor to other students.

For example, professors who were rated high on #10 and #16 were also rated high on #17. This suggests that students recommend instructors who convey that they care about students' understanding, and use concrete examples to explain abstract concepts and principles.

Highest Rated Items Across School/College

Three items which were consistently rated high across campus show strengths at UMR.

#1. The instructor returns assignments, homework and tests within a reasonable amount of time.

#7. The instructor is receptive to student questions in class.

#13. The instructor is prepared for class.

Lowest Rated Items Across School/College

The following items tended to be rated lower than other items on the questionnaire.

#18. How would you rate the overall teaching effectiveness of this instructor?

#8. The instructor stimulates interest in the subject matter.

#11. The instructor clearly stated the objectives of the course.

SPRING SEMESTER SCHEDULE

(1st week of class)	The Registrar distributed the greenbar to departments for evaluation assignment. (Survey packets, instructor, and participation reports are based on this information).
April 13	Surveys will be mailed to departments.
April 16-20	Most sections administer and return surveys during this week.
April 23-27	Classes with scheduling problems such as those which meet every other week, administer and return the remaining surveys.

For more information regarding this topic, please contact:

Academic Assessment
Dr. E. V. Leininger, Director
Room 101 Norwood



UNIVERSITY OF MISSOURI-ROLLA

Academic Council

Curtis Wilson Library
Rolla, Missouri 65401-0249
Telephone (314) 341-4972

VOL. XIX, NO. 4
February 1, 1990

SUMMARY of the reports, actions, referrals and announcements made at the meeting of the Academic Council held on February 1, 1990.

1. Approval of minutes of the November 30, 1990, Council meeting.
2. Reports and responses.
 - A. President's report - D. Askeland
 - B. Referrals
 1. Non-regular academic appointment policy to the Personnel Committee
 2. Informal procedures for harassment complaints to the Personnel Committee
 - C. Chancellor's report - M. Jischke
 1. Admission standards
 2. UMR Commission on the Future
 3. Division of University Advancement
 4. UMR mission statement
(Attachment II.C.4)
 - D. Vice-Chancellor's report - J. Park
 1. Teaching evaluation
(Attachment II.D)
3. Reports of standing and special committees.
 - A. Curricula - R. Howell
 1. CAPS and the graduation catalogue
 2. Time limitation of the graduation catalogue
 3. Fee structure inequities
 4. Infrequently taught courses
 5. Procedures for academic program approval
 6. Report No. 4, 1989-90
 - a. Four experimental courses presented
 - b. Four course/curriculum changes approved
 - c. Two new courses approved
 - d. Two course deletions
(Attachment III.A)
 - B. Personnel - V. Roach
 1. Non-regular academic appointment policy
 2. Informal procedures for harassment complaints
(Attachment III.B)

- C. Student Affairs - L. Williams
 - 1. Hockey puck sales resolution

4. New business.

- A. Martin Luther King holiday

Attachments: II.C.4
II.D
III.A
III.B



XIX, 4 The February 1, 1990, meeting of the Academic Council was
.1 called to order at 1:33 p.m. by Prof. Donald R. Askeland,
Academic Council President. The following substitutions
were recognized: Prof. Clyde Wade for Prof. Jim Pogue;
Prof. Raymond Venable for Prof. Frank Blum; and Prof. Wayne
Cogell for Dean Marvin Barker. Ms. Debbie Middendorf,
Senior Secretary, was recognized as this month's Staff
Council representative. The motion to approve the November
30, 1989, Council minutes was made by Prof. Lance Williams,
seconded by Prof. Vince Roach, and passed.

XIX, 4 REPORTS AND RESPONSES.
.2

A. PRESIDENT'S REPORT. President Donald Askeland's report pertained to two Board of Curator meetings: December 7-8, 1989, and January 24-25, 1990. During these meetings, President Magrath presented seven points (new faculty/staff benefits, proposed CBHE funds formula change, increased private fund raising, administrative vacancy review, cutting and consolidating the 1992 budget, streamlining curricula, and removing tuition/fees cap) in which the University could document its contribution toward resource improvement and the 1991 tax initiative; an architect for our library was selected; the faculty/staff benefits package was approved (it will be phased in this year); admission performance standards were adopted; the Conflict of Interest policy for Faculty and Staff was approved; a Martin Luther King holiday for the University was established on the third Monday in January beginning in 1992 (no employee personal days were lost); UMR's 1991-92 academic calendar was rejected and returned for reconsideration; the Ph.D. Aerospace Engineering proposal was forwarded to the Coordinating Board for Higher Education as well as the proposed Coop Engineering Program with UMSL and UMR's VSAP program proposal; student housing and activity fees were increased, a two dollar per credit hour computer fee was set, and the cap on student tuition/fees was removed (President Magrath will establish a committee to review fees).

With regards to the long-range plan, the revision of UMR's mission statement has almost been completed, and changes in university goals/objectives must be completed by May 1.

President Askeland recognized special guests Ms. Mary Ann McCollum, Director of the Associated Students of the University of Missouri (ASUM), and Representative Jim Pauley of Boone County, House sponsor of the Engineering Equipment Bill. Council thanked and applauded Representative Pauley for his support of the Bill.

B. REFERRALS.

1. NON-REGULAR ACADEMIC APPOINTMENT POLICY to the Personnel Committee
2. INFORMAL PROCEDURES FOR HARASSMENT COMPLAINTS to the Personnel Committee

C. CHANCELLOR'S REPORT.

1. ADMISSION STANDARDS. In December, the Board of Curators adopted new requirements for incoming freshmen students on all four campuses. As reported by Chancellor Martin Jischke, these requirements, which will be placed in effect at the beginning of the 1991 Fall Semester, "cannot be described simply as a rule of any one number." However, the new policy adds fine arts to the list of required high school courses. Other major features of the new policy are: (1) students in the top 25 percent of their high school graduating class are admissible regardless of test score; (2) other criteria may be used to admit students unable to meet the prescribed standard; (3) various academic programs can, using specified procedures, adopt more stringent admission standards; and (4) any campus can restrict enrollment if the number of applicants exceeds its available capacity.

The question has arisen as to whether UMR will set higher standards for some or all programs. Chancellor Jischke expressed his wish to delay an answer until Fall enrollment numbers are available, implementation costs of different standards are carefully assessed, and until Vice-Chancellor Ogrosky's committee has had the opportunity to compile and present information on student retention.

2. UMR COMMISSION ON THE FUTURE. To gather input toward developing strategies for the campus during the next five years, Chancellor Jischke announced the appointment of eighteen friends and alumni of UMR to this committee. The Commission has already met once and three and/or four meetings will be held

prior to July to discuss such issues as demographics, changing interest patterns among engineering and science students, continued budget constraints (both federal and state), calls for expanded programs in the state, and elimination of unnecessary duplication, all of which (and more) will affect UMR's future direction. The findings of the Commission will be contained in the five-year plan which the Board of Curators has requested due at the end of this summer.

3. DIVISION OF UNIVERSITY ADVANCEMENT. One goal set by Chancellor Jischke this year has been to increase UMR's visibility off-campus. Studies of other campuses yielded information leading to the January 1 consolidation of alumni relations, development (fundraising), publications, KUMR, and news/public information. Vice-Chancellor Coffman will be responsible for the activities of the Division.
4. UMR MISSION STATEMENT. Attachment is the version of UMR's mission statement due in Columbia on February 15. Its revision is part of a three step process initiated by the Board of Curators. Step two will be to review the long-range plan goals and objectives, and step three will be the campus five-year "game plan" reflecting both the mission statement and the long-range goals/objectives.

During discussion, Prof. Thomas hearrick suggested that the Fort Wood Engineering program deserved mention in this version of the mission statment.
(Attachment II.C.4)

D. VICE-CHANCELLOR'S REPORT.

1. TEACHING EVALUATION. Vice-Chancellor John Park emphasized in this report that the past evaluation was a pilot study and, as such, the Committee on Effective Teaching is soliciting comments (written please) toward improving the evaluation instrument and its administration.

The particulars of the first evaluation included: (1) 25,000-26,000 surveys were distributed and 19,000 were returned yielding a response rate of 74.3 percent (the average national rate is 70 percent and a 66 percent return rate is considered adequate for survey validity); 1,131 sections were available for evaluation and 1,034 actually received evaluation (91.4 percent); departmental averages

were normal for a survey of this type (range was 3.3-4.3 on a 5 point scale); students tended to praise the instructor rather than the instruction (indicated by questions 18 and 19); instructor concern for student understanding of material (question 10) correlated significantly with a high response on teaching effectiveness and the use of the instructor use of helpful examples to explain material (question 16) correlated significantly with a higher response on overall effectiveness; and the wide response range regarding instructor use of course materials (question 12) indicated student thought on minimal use of materials in some departments. Reasons for not evaluating 97 of the 1,131 course sections included lack of arrangements to administer the survey, requests for omission due to evaluation confusion (team-taught courses, et cetera), class dismissal prior to evaluation period, and survey administration without following directions (survey forms enclosed in incorrect folders). Note: Misplaced survey forms can still be evaluated by Dr. Ellen Leininger.

Issues raised following this pilot study included: (1) too much time is required to administer the evaluation; (2) a more accurate list of instructors is necessary; and (3) confusion exists with respect to co-listed, multiple-instructor, and multiple-section courses.

Following lengthy discussion, President Askeland noted that the Academic Council passed the policy regarding the evaluation of teaching and that student evaluation is only one portion of this policy, informed those present that Promotion and Tenure Review Committee members value all input (department chair evaluation, for example) not just student evaluations, and encouraged all to send any remarks on this topic to Prof. Dale Elifrits, Committee on Effective Teaching Chair. (Attachment II.D)

XIX, 4 REPORTS OF STANDING AND SPECIAL COMMITTEES.

.3

A. CURRICULA.

1. CAPS AND THE GRADUATION CATALOGUE. Prof. Ron Howell reported that the Curricula Committee has no recommendation and that the matter has been otherwise resolved. Prof. Vince Roach moved to

remove the issue from the agenda. Prof. Lance Williams seconded the motion, which passed.

2. TIME LIMITATION OF THE GRADUATION CATALOGUE. Prof. Howell moved to approve the Committee recommendation to add three new paragraphs to The Manual of Information:

"(1) Students continuously enrolled at any university may use the graduation requirements of the catalogue of entry. If the students' enrollment period, continuous or not, extends beyond ten (10) calendar years, then students must fulfill the graduation requirements of the catalogue current at the end of the 10 year period.

(2) If students are not enrolled for three consecutive semesters or for one and a half calendar years, then they must fulfill the graduation requirements of the catalogue at current re-enrollment.

(3) Students who interrupt their enrollment for one semester or more must apply for readmission to the university in their semester of graduation."

Prof. Williams seconded the motion.

Prof. Thomas Herrick moved to table the motion. The motion, which was seconded, carried.

3. FEE STRUCTURE INEQUITIES. Prof. Howell indicated that the Committee's only function is to determine department cross-listing of proposed courses, and, therefore, has no recommendation regarding fee structure. His motion to remove from the agenda was seconded by Prof. Williams and passed by Council.
4. INFREQUENTLY TAUGHT COURSES. Prof. Howell moved that the Committee recommendation that departments remove infrequently taught courses from their curricula when they think it necessary. Courses taught only when needed should not be removed but should be placed in a "preapproved" category in the catalogue under the title, "Offered Occasionally." Prof. Williams seconded the motion, which passed.

Prof. Howell further moved that department chairs be required to submit a list of courses for deletion to the Vice-Chancellor for Academic Affairs and the the

Curricula Committee as well as a separate list of courses to be listed as "Offered Occasionally." Prof. Williams provided the second and the motion carried.

5. PROCEDURES FOR ACADEMIC PROGRAM APPROVAL. Prof. Howell reported that the Committee has no recommendation and that it would like the topic removed from the agenda. Prof. Williams moved for removal, Prof. Roach seconded the motion, and the motion was approved.
6. REPORT NO. 3, 1989-90. Prof. Ronald Howell moved for approval of Curricula's third report of the year indicating that CC1 3196, 3197, and 3202 were included to show the corrected version. Prof. Williams seconded the motion, which carried. (Attachment III.A)

B. PERSONNEL.

1. NON-REGULAR ACADEMIC APPOINTMENT POLICY. Prof. Vince Roach reported that the Committee recommended the following changes to Policy Memo II-12 and moved for their approval:

"1 Adjunct Appointments

These titles will be used to signify the affiliation of appropriate levels of qualified persons with UMR departments while employed full-time with or retired from a (instead of "another") department, administrative unit, or organization. It is the intention that this be an honorary or courtesy title for persons with special capabilities (deleted "employed outside the University") who might be available for teaching or research. ...

4717 Graduate Teaching Assistant (Paragraph 2)

All first-time Graduate Teaching Assistants are required to have completed the UMR Instructional Communications Workshop and to have passed the accompanying evaluation with a grade of B+ or higher."

The motion was seconded and passed.

2. INFORMAL PROCEDURES FOR HARASSMENT COMPLAINTS. Prof. Roach presented the revised draft of

harassment procedures to include racial harassment as well as sexual, and moved for approval. Prof. Williams seconded the motion, which carried. (Attachment III.B)

C. STUDENT AFFAIRS.

1. HOCKEY PUCK SALES RESOLUTION. Prof. Lance Williams moved to remove the resolution from the table. Prof. Ray Edwards seconded the motion, and the motion carried.

Prof. Williams then moved to remove the issue from the agenda. Prof. Ray Edwards provided the second and the motion was approved.

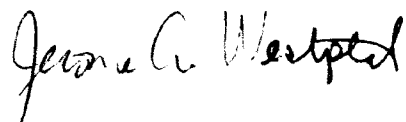
XIX, 4 NEW BUSINESS.

.4

- A. MARTIN LUTHER KING HOLIDAY. Because the Board of Curators recently established this new University holiday, the 1991-92 academic calendar for UMR was out-of-date before it was approved. The Calendar Sub-Committee of the Public Occasions Committee met and, as presented by Prof. Lance Williams, recommended that classes begin January 15, 1992, with the holiday falling on January 20, 1992. Prof. Williams moved for approval. The motion was seconded and passed.

The meeting adjourned at 3:10 p.m.

Respectfully submitted,



Jerome A. Westphal
Secretary

Attachments: II.C.4
II.D
III.A
III.B

*Minutes of the Academic Council Meeting are considered official notification and documentation of actions approved.



UNIVERSITY OF MISSOURI-ROLLA

Academic Council

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Rolla, Missouri 65401-0249
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SUMMARY
UMR ACADEMIC COUNCIL MEETING
February 1, 1990

President Askeland reported that the Curators have met twice since the last Academic Council meeting. A number of actions were taken with regard to increasing income. The goal is now to increase private funding by 150 percent in the next five years, the cap on tuition and fees has been removed, and the CBHE formula has been revised. In addition, a \$2 dollar per credit hour computer use fee has been imposed in an effort to upgrade and maintain computing capabilities on all campuses. In other action, a conflict of interest policy was approved and the faculty/staff benefits package was approved.

State Representative James Pauley was a guest and reported on the engineering equipment bill. The bill will provide matching funding at the rate of \$1200 per student based on the number graduating the previous year.

Chancellor Jischke reported that new admission requirements were approved. While the new requirements are less straightforward, they amount to a sum of class rank and aptitude percentile scores of about 85 plus the addition of a requirement for one credit hour of fine arts. Specific programs can have more stringent standards if the number of qualified students exceeds the capacity of teaching facilities. UMR will wait until the Fall Semester to make an evaluation of the advisability of seeking more stringent standards.

Chancellor Jischke also reported that a Commission on the Future of UMR has been appointed to help formulate a 5-year strategy in view of changing demography, budget constraints and the need for expanded programs. Also, a Division of University Advancement has been created as a move toward administrative consolidation. The Division will be responsible for recruiting and private fund raising and will replace the Division of Alumni Affairs.

Vice-Chancellor Park reported on results of the last teaching evaluation. Although a number of issues have been expressed in relation to the evaluation tool, Dr. Park expressed satisfaction and a sense of success with the first effort. The ad hoc committee in charge of developing the tool has now been disbanded and the Committee on Effective Teaching has been charged with the task of considering comments pertaining to possible revisions. A second pilot evaluation will be conducted during the Spring Semester. It is envisioned that a formal evaluation will be conducted every semester thereafter.

The 1991-1992 calendar was revised to accommodate the Martin Luther King birthday holiday. Classes will begin on Wednesday, January 15, 1992 and the Martin Luther King birthday will be honored on January 21, 1992.

Clyde Wade for Jim Poque
English Dept.

SPECTRUM

News for faculty and staff from the Dec. 7-8 Board of Curators meeting, UM-Columbia

LOOKING AHEAD: IMPROVING THE UNIVERSITY

Curators unanimously passed a motion supporting action outlined by President C. Peter Magrath in a report on improving the University. Magrath's recommendations include ways to generate the University's portion of the additional \$144 million needed annually. The president's report resulted from months of planning since the Board of Curators met in special session in April to outline the University's future.

"We affirm the president's vision of a quality University responding to the competitive and changing world in which Missouri must be a participant and providing academic excellence and service to our state," the board motion says. The curators affirmed Magrath's position that resources must be identified both internally and through increased state investment. They also reinforced Magrath's endorsement of the forthcoming statewide study of Missouri higher education.

The president reaffirmed his commitment to work for a tax increase for all of Missouri higher education. He recommended the following steps to generate a significant amount of the resources needed to improve the University:

1. capitalize on the financial health of the retirement trust fund to finance improvements in faculty and staff benefits programs (\$10 million)
2. work to revise the CBHE formula to increase the portion of the University's budget paid by state funds (\$9 million)
3. increase private giving 150 percent (\$3 million), up from the 100 percent increase outlined in the 1984 long-range plan, and encourage the state to develop a program to match state dollars with private gifts
4. review administrative and executive vacancies as they occur for possible consolidation and elimination
5. develop plans and recommendations for program cuts, consolidations and possible eliminations in fiscal 1992
6. examine course and curricular offerings to determine demand and possible streamlining of curricula
7. consider implementing an instructional computing fee for students (\$2 million)

The recommended actions plus FY90 reallocation (\$5 million) would provide a \$29 million step toward a competitive level of support.

At the president's suggestion, the board rescinded its educational fee policy that ties educational fee increases to a higher education inflation index. Removing the limit on fee increases, Magrath said, leaves the door open for financing University improvements, in part, through fees. "We must face the possibility of significant increases in our tuition for those students who can afford to contribute more to their education."

Copies of the president's full report to the board may be requested from UM System University Relations, 828 Lewis Hall, Columbia, (314) 882-4591. A limited number of copies will be available from campus information offices.

(see page 2)

More news from the Dec. 7-8 Board of Curators meeting

Curators approved an improved benefits package for current faculty and staff that includes better retirement pay, an expanded life insurance plan, a University-paid long-term disability program and additional flexible spending accounts for employees to set aside funds on a pre-tax basis for medical, dental, vision, orthodontic and child care. To offset some costs of the plan, employees will have higher medical plan deductibles and future retirees and their dependents will carry a heavier burden for their medical benefits during retirement. The board heard remarks from representatives of current retirees and civil service employees and retirees, who expressed concerns that the recommended changes discriminate against their employee groups. The University is sympathetic to these concerns, Vice President for Administrative Affairs Jim McGill told curators, but "fundamentally, it comes down to a question of resources." The special committee that made the initial recommendations for improvements in benefits was directed to make benefits for current employees competitive with peer universities, not to review benefits for current retirees. A retiree has been added to the standing benefits committee, McGill said, to assure retiree representation in future benefits discussions.

Some features of the package approved by curators:

Retirement -- Depending on options elected, a 65-year-old employee with 30 years of service will receive a pension equal to about 64 percent of salary compared with the current 45 percent income replacement. The new retirement plan is effective Sept. 1, 1990. Faculty and staff who retire between now and Sept. 1 will receive the new benefits effective Sept. 1.

Medical insurance -- The lowest deductible will be \$250. Other deductibles will be \$500 and \$1,000. Premium increases scheduled for Jan. 1 will be lower than increases announced previously.

Long-term disability -- Disability provisions within the retirement program will be removed. The University will pay 100 percent for basic long-term disability coverage, which previously was optional, with expenses for additional coverage paid by the employee.

Life insurance -- The University will continue to subsidize life insurance coverage (100 percent for coverage equal to salary and 50 percent for coverage equal to salary times two). In lieu of current additional coverage options, low-cost permanent insurance will be offered. Options, to be funded by employees, could also include additional term policies that have many of the characteristics of whole life insurance.

The December issue of Spectrum and mailings from benefits offices will provide further details about the changes.

The board suggested revisions in a conflict of interest policy that creates guidelines for employees on outside business interests, outside employment, outside teaching, receipt of royalties, outside consultation and use of University stationery, logo and confidential information. Revisions will be made in the language that relates to disclosure of outside business interests of University employees to include the opportunity for public scrutiny of disclosures related to University grants and contracts. The policy is expected to be approved by curators next month.

Eva Louise Frazer of St. Louis was elected president of the Board of Curators for 1990. James C. Sterling of Bolivar was elected vice president.

Next meeting: Jan. 24-25, Jefferson City

SPECTRUM

News from the Jan. 24-25 Board of Curators meeting, Jefferson City

Eva Louise Frazer, in her first report as president of the Board of Curators for 1990, told curators the 1990s will be a decade of promise. She listed milestones that marked the University's accomplishments in the 1980s but said the board faces a lengthy, unfinished agenda for the 1990s. "I look forward to the 1990s with optimism, with hope and with the belief that higher education in our state will be even stronger and better for the benefit of all Missourians," she said.

In welcoming Gov. John Ashcroft to the meeting, President C. Peter Magrath said the University System accepts the six challenges the governor issued to Missouri higher education late last year, is making progress in each of the areas the governor identified and "even more progress can be expected in the future." Magrath shared with the governor some of the progress in these areas: refining institutional mission, assessing institutional performance and student learning, improving teacher education, providing equitable access, containing administrative costs, and contributing to efforts to develop a state funding formula and funding mechanisms to reward institutional performance.

Gov. Ashcroft welcomed curators to the capitol and expressed gratitude that the University is making progress toward meeting his challenges. "The citizens of Missouri, I believe, must have solid evidence that their investment in higher education will be spent effectively." Ashcroft suggested the board reserve significant changes in programs and policies until the Missouri Business and Education Partnership Commission makes its report on the preparedness of higher education to meet the needs of Missouri. Other speakers and guests at the board meeting: Rep. Al Nilges, House Budget Committee chairman; Sen. Roger Wilson, Senate Appropriations Committee chairman; Bill Mann, chairman of Missourians for Higher Education; and legislators Jim Mathewson (Senate president pro-tem) and Bob Griffin (speaker of the House).

Beginning in 1992, the University will observe the birthday of Martin Luther King Jr. as an official University System holiday for students, faculty and staff. The board unanimously approved Magrath's proposal for an additional holiday after considerable discussion about the cost of adding a holiday (the loss of one day's productivity). Board president Frazer broke a tie vote, defeating an amendment to exchange the holiday for one of the staff's four personal days.

Curators approved the creation of a \$2 instructional computing fee, to be added to the per-credit hour educational fee, to generate about \$2.5 million each year to improve academic computing throughout the University System. The computing fee is another step in President Magrath's plans, endorsed by curators last month, to generate \$29 million to help improve the University.

A conflict of interest policy approved by the board reflects revisions suggested last month to include opportunities for public scrutiny of disclosures related to grants and contracts.

Heading board committees for 1990 are James C. Sterling, executive; Peter H. Raven, academic affairs; Webb R. Gilmore, finance; Edwin S. Turner, resources and planning; and Fred S. Kummer, physical facilities.

Next meeting: March 22-23, UM-St. Louis



UNIVERSITY OF MISSOURI-ROLLA

Attachment III.B.2

Office of the Registrar

103 Parker Hall
Rolla, Missouri 65401-0249
Telephone (314) 341-4181

MEMO TO: Academic Council
FROM: Curricula Committee
SUBJECT: March 8, 1990, Meeting

EC1's reviewed:

EC1 251, Computer Science 301, Neural Networks and Adaptive Pattern Recog..
Approved for Fall 1990. 3 hours credit. Prereq: Math 203 or Math 208.

EC1 252, Computer Science 401, Advanced Topics in Software Engineering.
Approved for Winter 1991. 3 hours credit. Prereq: CSc 308.

EC1 257, Physics 301, Physics for Elementary School Teachers. Approved for
Summer 1990. 3 hours credit.

EC1 258, Mathematics 301, Introduction to Dynamical Systems I. Approved for
Fall 1990. 3 hours credit. Prereq: Math 309 or consent of instructor.

EC1 259, Mathematics 401, Introduction to Dynamical Systems II. Approved
for Winter 1991. 3 hours credit. Prereq: Math 311 and Intro. to Dynamical
Systems I.

EC1 260, Mathematics 301, Discrete Mathematics. Approved for Summer 1990.
4 hours credit. Prereq: Math 8.

EC1 261, Physics 401, Advanced General Physics. Approved for Summer 1990.
4 hours credit. Prereq: Two semesters of calculus and two semesters
undergraduate general physics.

EC1 262, Mathematics 101, Fundamentals of Algebra. Approved for Fall 1990.
3 hours credit. Prereq: Entrance requirements.

EC1 263, Computer Science 301, Object Oriented Programming. Approved for
Fall 1990. 3 hours credit. Prereq: CSc 253.

EC1 264, Computer Science 401, Introduction to Mathematics Logic. Approved
for Fall 1990. 3 hours credit. Prereq: Math 305, or CSc 258, or consent of
instructor.

EC1 265, Computer Science 401, Object-Oriented Database Systems. Approved
for Winter 1991. 3 hours credit. Prereq: CSc 301 (OOP) & 304 or permission.

EC1 266, Electrical Engineering 201, Controllers for Factory Automation. Approved for Fall 1990. 3 hours credit.

EC1 267, Electrical Engineering 301, Optical Communications. Approved for Fall 1990. 3 hours credit. Prereq: EE 221, EE 273.

EC1 268, Electrical Engineering 301, Fault-Tolerant Digital Systems. Approved for Fall 1990. 3 hours credit. Prereq: EE 211.

EC1 269, Electrical Engineering 401, Solid State Electronics II. Approved for Fall 1990. 3 hours credit. Prereq: EE 421 or equivalent.

CC1's reviewed:

CC1 3215, Metallurgical Engineering 404, Recent Advances in Extractive Metallurgy. Approved for Fall 1990. New course. 2 hours credit. Prerequisite: Met Eng 355. Description: A survey of extractive processes recently developed in the light of modern requirements with respect to raw materials, product quality, environmental impact, energy consumption, capital cost and process control.

CC1 3216, Metallurgy Engineering 304, Introduction to Non-Ferrous Extractive Metallurgy. Approved for Fall 1990. Deletion.

CC1 3217, Metallurgical Engineering 411, Mineral Processing. Approved for Fall 1990. Deletion.

CC1 3218, Metallurgical Engineering 420, The Corrosion of Metals. Approved for Fall 1990. Deletion.

CC1 3220, Chemical Engineering 390, Undergraduate Research. Approved for Fall 1990. New course. Variable credit 0-6 hours. Description: Designed for the undergraduate student who wishes to engage in research. Not for graduate credit. Not more than six hours allowed for graduation credit. Subject and credit to be arranged with the instructor.

CC1 3223, Geological Engineering 236, Basic Weather. New course. Co-list with Physics 236. Approved for Summer 1990. 3 hours credit. Prerequisite: Phys 23, GEoE 50. Description: A course to study basic concepts of atmospheric science such as air masses, frontal weather patterns and weather forecasting. The course also will include topics on climate and severe weather.

CC1 3224, Physics 236, Basic Weather. New course. Co-list with Geological Engineering 236. Approved for Summer 1990. 3 hours credit. Description: A course to study basic concepts of atmospheric science such as air masses, frontal weather patterns and weather forecasting. The course also will include topics on climate and severe weather.

CC1 3227, Nuclear Engineering 221, Reactor Fluid Mechanics. Approved for Winter 1990. Course title changed from Transfer Processes. Description changed to: study of the fundamental principles of incompressible viscous and inviscid flows in ducts, nozzels, tube bundles and applications to nuclear engineering; fluid statics; dimensional analysis and similitude; boundary layer theory.

CC1 3228, Nuclear Engineering 223, Reactor Heat Transfer. Approved for Fall 1990. Course title changed from Nuclear Reactor Heat Transfer.

CC1 3229, Ceramic Engineering 270, Geometric Characterization of Crystal Structures. Approved for Fall 1990. Deletion.

CC1 3230, Geological Engineering 000, Quarry Engineering Emphasis Area. Approved for Fall 1990. Editorial changes: drop CE 230 (requirement for basic GE degree). Change EMech to Basic Engineering; check hours.

CC1 3231, Ceramic Engineering 315, Quality Control in the Ceramic Industry. Approved Fall 1990. Deletion.

CC1 3232, Nuclear Engineering 221, Reactor Fluid Mechanics. Approved Fall 1990. Change of course title from Transfer Processes. Description change reads: A study of the fundamental principles of incompressible viscous and inviscid flows in ducts, nozzles, tube bundles and applications to nuclear engineering; fluid statics; dimensional analysis and similitude; boundary layer theory.

CC1 3233, Nuclear Engineering 223, Reactor Heat Transfer. Approved for Fall 1990. change of course title from Nuclear Reactor Heat Transfer. Description change reads: A study of the fundamental principles of conduction, convection, and thermal radiation with volumetric source terms for nuclear engineering applications; empirical correlations; finite difference methods; analysis of nuclear reactor cores.

CC1 3234, Nuclear Engineering 204, Nuclear Radiation Measurements. Approved for Fall 1990. Change of prerequisites from preceded or accompanied by NE 203 or Phys 107 to Math 215 and preceded or accompanied by NE 203 Phys 107.

CC1 3235, Life Science 118, Plant Biology. Approved for Fall 1990. New course. 3 hours credit. Prerequisite: Life Science 110. Description: A survey course covering the cellular structures unique to plants, their bizarre life cycles, and the mechanisms they use to survive, reproduce, and convert solar energy into a form usable by all other organisms.

CC1 3236, Life Science 221, Microbiology. Approved for Fall 1990. Change of course title from Bacteriology.

CC1 3237, Chemistry 338, Advanced General Chemistry for Secondary Teachers. Approved for Summer 1990. New course. 4 hours credit. Prerequisite: One year of college chemistry. Description: A study of the general principles of chemistry with emphasis on the fundamental laws and their application in practical applications. The laboratory experiments are designed to support lectures and to be used as teaching demonstrations in high schools.

CC1 3238, Computer Science 75, Introduction to Machine Language Programming. Approved for Fall 1990. Deletion.

CC1 3239, Computer Science 175, Block Structured Language Programming. Approved for Fall 1990. Deletion.

CC1 3240, Computer Science 219, Co-op Training. Approved for Fall 1990. Deletion.

Attachment III.B.2

CC1 3241, Computer Science 235, Introduction to File Processing/PL1. Approved for Fall 1990. Deletion.

CC1 3242, Computer Science 253, Data Structures II. Approved for Fall 1990. Description changed to: A continuation of data structures with emphasis on complexity and performance. Topics will include tree balancing algorithms, self balancing trees, networks and graph algorithms, lexical analysis, event driven simulation, memory management, and an introduction to object oriented programming.

CC1 3244, Computer Science 284, Intro to Operating Systems. Approved for Fall 1990. New description reads: This survey introduces examples from the broad variety of operating systems including those designed for single-user operation, batched multi-programming, and time-sharing. Special emphasis is given to Unix.

CC1 3246, Computer Science 304, Data Base Systems. Approved for Summer 1990. Prerequisites changed from CSc 253 and CSc 258 and (CSc 235 or 238 or 274) to CSc 253 and (238 or 274).

CC1 3249, Computer Science 333, The Structure of a Compiler. Approved for Summer 1990. Change of prerequisites from CSc 258 and (236 or 274) to CSc 236 or CSc 274.

CC1 3250, Computer Science 347, Introduction to Artificial Intelligence Programming. Approved for Summer 1990. Change of prerequisites from CSc 253 and CSc 258 to CSc 253.

CC1 3252, Computer Science 363, Deterministic Operations Research. Approved for Summer 1990. Deletion.

CC1 3253, Computer Science 364, Probabilities Operations Research Survey. Approved for Summer 1990. Deletion.

CC1 3254, Computer Science 365, Linear Programming. Approved for Summer 1990. Deletion.

CC1 3257, Computer Science 381, The Structure of Operating Systems. Approved for Fall 1990. Prerequisites changed from CSc 253 or CSc 284 to CSc 284.

CC1 3258, Computer Science 383, The Architecture of Assemblers and Machines. Approved for Summer 1990. Deletion.

CC1 3259, Computer Science 386, Multi-function Operating Systems. Approved for Summer 1990. Deletion.

CC1 3261, Computer Science 435, Theory of Computation. Approved for Fall 1990. Tabled until prerequisite, CSc 330 is approved.

CC1 3262, Computer Science 455, Algorithmics II. Approved for Winter 1991. New course. 3 hours credit. Prerequisites: CSc 355. Description reads: Covers selected classical and recent developments in the design and analysis of algorithms, such as sophisticated Data Structures, Amortized Complexity,

Advanced Graph Theory, and Network Flow Techniques.

CC1 3263, Computer Science 460, Queueing Theory. Approved for Winter 1991. Prerequisites changed from CSc 364, or CSc 368 or Math 343 to CSc 368 or STAT 343.

CC1 3264, Computer Science 465, Integer Programming. Approved for Winter 1991. Prerequisites changed from CSc 360 to CSc 365 to CSc 360.

CC1 3265, Computer Science 466, Nonlinear Optimization. Approved for Summer 1990. Prerequisites changed from CSc 360 and CSc 366 to CSc 360.

CC1 3266, Computer Science 467, Nonlinear and Geometric Programming. Approved for Summer 1990. Prerequisites changed from CSc 360 or CSc 365 to CSc 360.

CC1 3267, Computer Science 469, Game Theory and Applications. Approved for Summer 1990. Deletion.

CC1 3268, Computer Science 483, Macro Systems & Extensible Languages. Approved for Summer 1990. Deletion.

CC1 3269, Computer Science 491, Fault-Tolerant Computing I. Approved for Summer 1990. Deletion.

CC1 3270, Computer Science 492, Fault-Tolerant Computing II. Approved for Summer 1990. Deletion.

CC1 3271, Electrical Engineering, Introduction to VLSI Design. Approved for Fall 1990. New course. 3 hours credit. Prerequisite: EE 213. Description reads: An introduction to the design and implementation of very large scale integrated systems. Procedures for designing and implementing digital integrated systems, structured design methodology, stick diagrams, scalable design rules, and use of computer aided design tools.

CC1 3272, Engineering Management 433, Advanced Management Information Systems. Approved for Fall 1990. New course. 3 hours credit. Prerequisites: EMgt 333. Description reads: Advanced topics in Management Information Systems such as Information Resource Management, Group Decision Support Systems, Knowledge Based Systems, and Communication Systems.

CC1 3273, Computer Science 485, Distributed Computing. Approved for Fall 1990. Course title changed from Networks and Distributed Computing. Change in description reads: The study of organizing networked computers transparently for the purposes of enhancing reliability, performance, and accessibility. Topics will include load balancing protocols, distributed database systems, embedded systems, and distributed software engineering. A major design/implementation project will be required.

CC1 3275, Computer Science 487, Advanced Parallel Computation. Approved for Winter 1991. New course. 3 hours credit. Prerequisites: (CSc 381 or CSc 385) and CSc 355. Description reads: the study of exploiting the potential parallelism of multi-computers. Topics from current research include parallel software engineering through distributed system specification, partitioning mapping, visualization, distributed debugging, and fault tolerance. Operating

paradigms for multi-computers will be covered.

Proposed New Degrees in Statistics approved by the curriculum committee. Three new degree programs, M.S. in Statistics, M.S. in Statistics with Emphasis in Reliability and Quality Assurance, and Ph.D. in Statistics.

Courses to be deleted or moved to offered occasionally status.

COURSES TO BE DELETED

****School of Mines and Metallurgy****

Ceramics:

CER 270: Geometric Characterization of Crystal Structures
CER 315: Quality Control in the Ceramic Industry

Metallurgical Engineering

MET 304: Introduction to Nonferrous Extractive Metallurgy
MET 411: Minerals Processing
MET 420: The Corrosion of Metals

Nuclear Engineering

NE 1: Nuclear Energy I
NE 2: Nuclear Energy II
NE 222: Fluid Flow Laboratory
NE 305: Current Topics in Reactor Physics
NE 451: Advanced Reactor Kinetics

****School of Engineering****

Basic Engineering

EG 11: General Engineering Drawing
EG 12: Descriptive Geometry
EG 23: Machine Drawing

Civil Engineering

CE 332: Experimental Fluid Mechanics and Hydraulics
CE 334: Pipe Flow Formula and Data Analysis
CE 355: Computer in Civil Engineering Design
CE 364: Solid Waste Laboratory
CE 418: Engineering Aspects of Surficial Soils
CE 419: Curvilinear Structures
CE 455: Civil Engineering Applications of the Computer
CE 469: Advanced Sanitary Engineering Design
CE 481: Water Resources Engineering II

****College of Arts and Sciences****

Economics

ECON 355: Economics of Crime

English

ENGLISH 206: Introductory Linguistics
ENGLISH 356: Nineteenth Century English Prose

Physics

PHYSICS 303: Planetary Physics
PHYSICS 404: Experimental Research Techniques
PHYSICS 405: Theoretical Physics I
PHYSICS 406: Theoretical Physics II
PHYSICS 415: Theoretical Mechanics II
PHYSICS 425: Plasma Physics
PHYSICS 465: Relativistic Quantum Theory

COURSES TO BE MOVED TO "OFFERED OCCASIONALLY" CATEGORY****School of Mines and Metallurgy****Mining Engineering

MIN 323: Mining Financial Administration
MIN 340: Rock Mechanics II
MIN 370: Valuation of Mineral properties
MIN 372: Offshore Mining
MIN 430: Economics of the Mineral Industry
MIN 434: Mining Law

****School of Engineering****Basic Engineering

EG 26: Architectural Drawing
EG 292: Advanced Drawing

Chemical Engineering

CH.E. 336: Transport Phenomena
CH.E. 354: Unit Processes Laboratory
CH.E. 357: Industrial Pollution
CH.E. 364: Dynamic Behavior of Separation Processes
CH.E. 373: Energy Conversion and Conservation
CH.E. 383: Chemical Engineering of High Polymers
CH.E. 384: Polymer Science Laboratory
CH.E. 385: Electrochemical Engineering
CH.E. 431: Heat Transmission
CH.E. 432: Filtration and Mechanical Separation
CH.E. 434: Advanced Unit Operations
CH.E. 435: Distillation and Rectification
CH.E. 437: Absorption and Extraction
CH.E. 438: Drying and Humidification
CH.E. 444: Chemical Reaction Engineering
CH.E. 463: Chemical Engineering Computer Calculations
CH.E. 476: Polymer Membranes for Separation
CH.E. 487: Electromechanical Engineering II

Civil Engineering

CE 309: City Planning
CE 321: Housing Systems
CE 325: Building Construction
CE 336: Intermediate Fluid Mechanics II
CE 368: air Pollution Abatement II
CE 433: Mechanics of ideal Fluid Flow
CE 434: Mechanics of Viscous Fluid Flow
CE 466: Wastewater Treatment II
CE 480: Water Resources Engineering I

Env. Engr: 326: Building Planning and Design
Env. Engr: 351: Urban and Regional Planning/Design

****College of Arts and Sciences****Economics

Econ 360: Comparative Economic Systems

English

English 207: Problems of Teaching English
English 378: American Realism and Naturalism

Physics

Physics 435: Cloud Physics
Physics 467: Quantum Statistical Mechanics
Physics 475: Molecular Spectroscopy
Physics 483: Selected Topics of the Solid State
Physics 485: Advanced Quantum Mechanics

Psychology

Psychology 154: Psychology of Human Adjustment
Psychology 290: History of Psychology
Psychology 342: Comparative Psychology
Psychology 358: Psychology of Mental Retardation

Larry Vonalt
Larry Vonalt, Chairman



UNIVERSITY OF MISSOURI-ROLLA

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MEMO TO: Academic Council
FROM: Curricula Committee
SUBJECT: March 8, 1990, Meeting

EC1's reviewed:

EC1 251, Computer Science 301, Neural Networks and Adaptive Pattern Recog.. Approved for Fall 1990. 3 hours credit. Prereq: Math 203 or Math 208.

EC1 252, Computer Science 401, Advanced Topics in Software Engineering. Approved for Winter 1991. 3 hours credit. Prereq: CSc 308.

EC1 257, Physics 301, Physics for Elementary School Teachers. Approved for Summer 1990. 3 hours credit.

EC1 258, Mathematics 301, Introduction to Dynamical Systems I. Approved for Fall 1990. 3 hours credit. Prereq: Math 309 or consent of instructor.

EC1 259, Mathematics 401, Introduction to Dynamical Systems II. Approved for Winter 1991. 3 hours credit. Prereq: Math 311 and Intro. to Dynamical Systems I.

EC1 260, Mathematics 301, Discrete Mathematics. Approved for Summer 1990. 4 hours credit. Prereq: Math 8.

EC1 261, Physics 401, Advanced General Physics. Approved for Summer 1990. 4 hours credit. Prereq: Two semesters of calculus and two semesters undergraduate general physics.

EC1 262, Mathematics 101, Fundamentals of Algebra. Approved for Fall 1990. 3 hours credit. Prereq: Entrance requirements.

EC1 263, Computer Science 301, Object Oriented Programming. Approved for Fall 1990. 3 hours credit. Prereq: CSc 253.

EC1 264, Computer Science 401, Introduction to Mathematics Logic. Approved for Fall 1990. 3 hours credit. Prereq: Math 305, or CSc 258, or consent of instructor.

EC1 265, Computer Science 401, Object-Oriented Database Systems. Approved for Winter 1991. 3 hours credit. Prereq: CSc 301 (OOP) & 304 or permission.

EC1 266, Electrical Engineering 201, Controllers for Factory Automation. Approved for Fall 1990. 3 hours credit.

EC1 267, Electrical Engineering 301, Optical Communications. Approved for Fall 1990. 3 hours credit. Prereq: EE 221, EE 273.

EC1 268, Electrical Engineering 301, Fault-Tolerant Digital Systems. Approved for Fall 1990. 3 hours credit. Prereq: EE 211.

EC1 269, Electrical Engineering 401, Solid State Electronics II. Approved for Fall 1990. 3 hours credit. Prereq: EE 421 or equivalent.

CC1's reviewed:

CC1 3215, Metallurgical Engineering 404, Recent Advances in Extractive Metallurgy. Approved for Fall 1990. New course. 2 hours credit. Prerequisite: Met Eng 355. Description: A survey of extractive processes recently developed in the light of modern requirements with respect to raw materials, product quality, environmental impact, energy consumption, capital cost and process control.

CC1 3216, Metallurgy Engineering 304, Introduction to Non-Ferrous Extractive Metallurgy. Approved for Fall 1990. Deletion.

CC1 3217, Metallurgical Engineering 411, Mineral Processing. Approved for Fall 1990. Deletion.

CC1 3218, Metallurgical Engineering 420, The Corrosion of Metals. Approved for Fall 1990. Deletion.

CC1 3220, Chemical Engineering 390, Undergraduate Research. Approved for Fall 1990. New course. Variable credit 0-6 hours. Description: Designed for the undergraduate student who wishes to engage in research. Not for graduate credit. Not more than six hours allowed for graduation credit. Subject and credit to be arranged with the instructor.

CC1 3223, Geological Engineering 236, Basic Weather. New course. Co-list with Physics 236. Approved for Summer 1990. 3 hours credit. Prerequisite: Phys 23, GCoE 50. Description: A course to study basic concepts of atmospheric science such as air masses, frontal weather patterns and weather forecasting. The course also will include topics on climate and severe weather.

CC1 3224, Physics 236, Basic Weather. New course. Co-list with Geological Engineering 236. Approved for Summer 1990. 3 hours credit. Description: A course to study basic concepts of atmospheric science such as air masses, frontal weather patterns and weather forecasting. The course also will include topics on climate and severe weather.

CC1 3227, Nuclear Engineering 221, Reactor Fluid Mechanics. Approved for Winter 1990. Course title changed from Transfer Processes. Description changed to: study of the fundamental principles of incompressible viscous and inviscid flows in ducts, nozzels, tube bundles and applications to nuclear engineering; fluid statics; dimensional analysis and similitude; boundary layer theory.

CC1 3228, Nuclear Engineering 223, Reactor Heat Transfer. Approved for Fall 1990. Course title changed from Nuclear Reactor Heat Transfer.

CC1 3229, Ceramic Engineering 270, Geometric Characterization of Crystal Structures. Approved for Fall 1990. Deletion.

CC1 3230, Geological Engineering 000, Quarry Engineering Emphasis Area. Approved for Fall 1990. Editorial changes: drop CE 230 (requirement for basic GE degree). Change EMech to Basic Engineering; check hours.

CC1 3231, Ceramic Engineering 315, Quality Control in the Ceramic Industry. Approved Fall 1990. Deletion.

CC1 3232, Nuclear Engineering 221, Reactor Fluid Mechanics. Approved Fall 1990. Change of course title from Transfer Processes. Description change reads: A study of the fundamental principles of incompressible viscous and inviscid flows in ducts, nozzles, tube bundles and applications to nuclear engineering; fluid statics; dimensional analysis and similitude; boundary layer theory.

CC1 3233, Nuclear Engineering 223, Reactor Heat Transfer. Approved for Fall 1990. change of course title from Nuclear Reactor Heat Transfer. Description change reads: A study of the fundamental principles of conduction, convection, and thermal radiation with volumetric source terms for nuclear engineering applications; empirical correlations; finite difference methods; analysis of nuclear reactor cores.

CC1 3234, Nuclear Engineering 204, Nuclear Radiation Measurements. Approved for Fall 1990. Change of prerequisites from preceded or accompanied by NE 203 or Phys 107 to Math 215 and preceded or accompanied by NE 203 Phys 107.

CC1 3235, Life Science 118, Plant Biology. Approved for Fall 1990. New course. 3 hours credit. Prerequisite: Life Science 110. Description: A survey course covering the cellular structures unique to plants, their bizarre life cycles, and the mechanisms they use to survive, reproduce, and convert solar energy into a form usable by all other organisms.

CC1 3236, Life Science 221, Microbiology. Approved for Fall 1990. Change of course title from Bacteriology.

CC1 3237, Chemistry 338, Advanced General Chemistry for Secondary Teachers. Approved for Summer 1990. New course. 4 hours credit. Prerequisite: One year of college chemistry. Description: A study of the general principles of chemistry with emphasis on the fundamental laws and their application in practical applications. The laboratory experiments are designed to support lectures and to be used as teaching demonstrations in high schools.

CC1 3238, Computer Science 75, Introduction to Machine Language Programming. Approved for Fall 1990. Deletion.

CC1 3239, Computer Science 175, Block Structured Language Programming. Approved for Fall 1990. Deletion.

CC1 3240, Computer Science 219, Co-op Training. Approved for Fall 1990. Deletion.

CC1 3241, Computer Science 235, Introduction to File Processing/PL1. Approved for Fall 1990. Deletion.

CC1 3242, Computer Science 253, Data Structures II. Approved for Fall 1990. Description changed to: A continuation of data structures with emphasis on complexity and performance. Topics will include tree balancing algorithms, self balancing trees, networks and graph algorithms, lexical analysis, event driven simulation, memory management, and an introduction to object oriented programming.

CC1 3244, Computer Science 284, Intro to Operating Systems. Approved for Fall 1990. New description reads: This survey introduces examples from the broad variety of operating systems including those designed for single-user operation, batched multi-programming, and time-sharing. Special emphasis is given to Unix.

CC1 3246, Computer Science 304, Data Base Systems. Approved for Summer 1990. Prerequisites changed from CSc 253 and CSc 258 and (CSc 235 or 238 or 274) to CSc 253 and (238 or 274).

CC1 3249, Computer Science 333, The Structure of a Compiler. Approved for Summer 1990. Change of prerequisites from CSc 258 and (236 or 274) to CSc 236 or CSc 274.

CC1 3250, Computer Science 347, Introduction to Artificial Intelligence Programming. Approved for Summer 1990. Change of prerequisites from CSc 253 and CSc 258 to CSc 253.

CC1 3252, Computer Science 363, Deterministic Operations Research. Approved for Summer 1990. Deletion.

CC1 3253, Computer Science 364, Probabilities Operations Research Survey. Approved for Summer 1990. Deletion.

CC1 3254, Computer Science 365, Linear Programming. Approved for Summer 1990. Deletion.

CC1 3257, Computer Science 381, The Structure of Operating Systems. Approved for Fall 1990. Prerequisites changed from CSc 253 or CSc 284 to CSc 284.

CC1 3258, Computer Science 383, The Architecture of Assemblers and Machines. Approved for Summer 1990. Deletion.

CC1 3259, Computer Science 386, Multi-function Operating Systems. Approved for Summer 1990. Deletion.

CC1 3261, Computer Science 435, Theory of Computation. Approved for Fall 1990. Tabled until prerequisite, CSc 330 is approved.

CC1 3262, Computer Science 455, Algorithmics II. Approved for Winter 1991. New course. 3 hours credit. Prerequisites: CSc 355. Description reads: Covers selected classical and recent developments in the design and analysis of algorithms, such as sophisticated Data Structures, Amortized Complexity,

Advanced Graph Theory, and Network Flow Techniques.

CC1 3263, Computer Science 460, Queueing Theory. Approved for Winter 1991. Prerequisites changed from CSc 364, or CSc 368 or Math 343 to CSc 368 or STAT 343.

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PHYSICS 406: Theoretical Physics II
PHYSICS 415: Theoretical Mechanics II
PHYSICS 425: Plasma Physics
PHYSICS 465: Relativistic Quantum Theory

COURSES TO BE MOVED TO "OFFERED OCCASIONALLY" CATEGORY

****School of Mines and Metallurgy****

Mining Engineering

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EG 292: Advanced Drawing

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CH.E. 357: Industrial Pollution
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CH.E. 373: Energy Conversion and Conservation
CH.E. 383: Chemical Engineering of High Polymers
CH.E. 384: Polymer Science Laboratory
CH.E. 385: Electrochemical Engineering
CH.E. 431: Heat Transmission
CH.E. 432: Filtration and Mechanical Separation
CH.E. 434: Advanced Unit Operations
CH.E. 435: Distillation and Rectification
CH.E. 437: Absorption and Extraction
CH.E. 438: Drying and Humidification
CH.E. 444: Chemical Reaction Engineering
CH.E. 463: Chemical Engineering Computer Calculations
CH.E. 476: Polymer Membranes for Separation
CH.E. 487: Electromechanical Engineering II

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Physics 483: Selected Topics of the Solid State
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Psychology 290: History of Psychology
Psychology 342: Comparative Psychology
Psychology 358: Psychology of Mental Retardation

Larry Vonalt
Larry Vonalt, Chairman



UNIVERSITY OF MISSOURI-ROLLA

Office of the Registrar

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 Rolla, Missouri 65401-0249
 Telephone (314) 341-4181

MEMO TO: Donald Askeland, President, Academic Council

FROM: Larry Vonalt, Chair, UMR Curricula Committee

RE: Request to Approve Additional Curricula Changes

At the UMR Curricula Committee's March meeting, the committee voted to return certain Computer Science courses to the department for changes. The Computer Science Department made the requested changes and then asked the Curricula Committee Chair to poll the committee for approval of these changes so that they might be approved by the Academic Council and entered into the registration system in time for the April, 1990 preregistration.

Because the changes needed were minor and because one course in particular, Computer Science 158, is vital to the major program, the Chair polled the Curricula Committee, and the majority approved the Computer Science curricula changes listed below.

The UMR Curricula Committee requests that, in addition to the curricula changes approved at the March meeting of the Curricula Committee, the Academic Council consider these Computer Science curricula changes for approval.

CC1 3243, Computer Science 158, Discrete Mathematics for Computer Science. Approved new course for Fall 1990. 3 hours credit. Prerequisites: Phil 15 and sophomore standing. Description reads: A rigorous treatment of topics from discrete mathematics which are essential to computer science. Includes mathematical logic (propositional, predicate), sets, relations, functions, proof techniques (particularly induction), asymptotic complexity, and an introduction to basic mathematical structures such as groups and graphs.

CC1 3248, Computer Science 330, Formal Language and Automata Theory I. Approved new course for Fall 1990. 3 hours credit. Prerequisites: CSc 158. Description reads: Description of the extended Chomsky hierarchy and the relation of Chomsky language classes to grammars automata. Use of languages, grammars and automata in the compilation of programming languages. Introduction to decidability.

CC1 3260, Computer Science 430, Formal Languages and Automata Theory II. Approved for Fall 1990. Change in course title from Formal Languages and Syntax. Prerequisites changed from CSc 258 to CSc 330. Change of description to: Pumping lemmas for regular and context free languages, closure properties, context sensitive languages, LR(k) grammars, decidability questions, open

questions and selected research topics.

CC1 3261, Computer Science 435, Theory of Computation. Approved for Fall 1990. Change in course title from Mathematical Logic and Compatibility. Prerequisites changed from CSc 258 to CSc 330 (formerly CSc 430).

CC1 3274, Computer Science 000. Approved Curriculum for Fall 1990. New curriculum requirements in Computer Science.

1. Delete CSc 258 and add new course CSc 158 and require it earlier in the curriculum.
2. Drop CSc 260 as a required course.
3. Change Philosophy 15 from a suggested course to a required course.
4. Add 3 hours to the non-skills humanities requirement.
5. Change the two course sequence in EE from EE 61/EE 211 to EE 211/EE 213.
6. Change the computer science elective pair (either CSc 235 or CSc 238) to require CSc 238.
7. Reduce the number of hours of required computer science from 43 to 40.

CC1 3289, Computer Science 258, Abstract Structures. Approved deletion for Fall 1990.

Larry Vonalt

Chairman, Larry Vonalt



UNIVERSITY OF MISSOURI-ROLLA

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UMR Faculty

A G E N D A

March 22, 1990

Academic Council Meeting, Thursday, March 29, 1990; 1:30 p.m.; G-5 H/SS.

I. Approval of minutes of February 1, 1990 (VOL. XIX, NO. 4) meeting.

II. Reports and Responses

- A. President's Report (10 min.) Don Askeland (4730)
- B. Referrals
 - 1. Tuition Policy to Budgetary Affairs Committee
 - 2. Grade Point Average Rules to Admission and Academic Standards Committee
 - 3. Faculty Evaluation of Department Chairs to Personnel Committee
- C. Chancellor's Report on the FY1991 Budget (20 min.) Martin Jischke (4114)
- D. Vice-Chancellor's Report on Recycling (5 min.) Neil Smith (4121)

III. Reports of Standing and Special Committees

- A. D.6.b Academic Freedom (5 min.) Don Oster (4817)
 - *1. Academic Freedom and Outside Teaching Assignment Administrative Response (June 15, 1989; XVIII, 7; II.B.4)
- B. D.6.c Admissions and Academic Standards (No Report) Thomas Herrick (4507)
 - 1. Revised Regulations for Removing a Student from Academic Probation (April 23, 1987; XVI, 8; IV.A.1)
 - 2. Excused Absence Procedure (May 5, 1988; XVII, 8; II.B.1)
 - 3. Co-op Training Requirements (October 19, 1989; XIX, 2; II.B.2)
- C. D.6.i Curricula (5 min.) Ron Howell (4638)
 - 1. Time Limitation of the Graduation Catalogue (June 25, 1987; XVI, 9; IV.A.2)
 - *2. Report No. 5, 1989-90
- D. D.6.o Personnel (5 min.) Vince Roach (4449)
 - 1. Qualifications for Professorial Ranks (September 14, 1989; XIX, 1; III.B.2)
- E. D.6.p Public Occasions (5 min.) Jerry Bayless (4151)
 - 1. Industry and Parents' Days, 1990
- F. D.6.s Student Affairs (No Report) Ron Howell (4638)
 - 1. Procedures for Student Requests for Waivers of Deadlines (September 14, 1989; XIX, 1; III.B.3)
- G. Intercampus Faculty Council (5 min.) Robert Wolf (4733)

IV. Old Business

V. New Business

R, P & A Cmtt.
LW/cmb/3-13-90

*Supplementary materials sent to Academic Council members and department chairmen.



UNIVERSITY OF MISSOURI-ROLLA

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VOL. XIX, NO. 5
March 29, 1990

SUMMARY of the reports, actions, referrals and announcements made at the meeting of the Academic Council held on March 29, 1990.

1. Approval of minutes of the February 1, 1990, Council meeting.
2. Reports and responses.
 - A. President's report - D. Askeland
 - B. Referrals
 1. Tuition policy to the Budgetary Affairs Committee
 2. Grade point average rules to the Admission and Academic Standards Committee
 3. Faculty evaluation of department chairs to the Personnel Committee
 - C. Chancellor's report - M. Jischke
 1. Board of Curators, March 22-23, 1990, meeting
 2. Budget status report
 3. Undergraduate research program
 4. Search - Japanese language professor
 5. Search - Arts and Sciences dean
 - D. Vice-Chancellor's report - N. Smith
 1. Recycling
(Attachment II.D)
3. Reports of standing and special committees.
 - A. Academic Freedom - D. Oster
 1. Academic freedom and outside teaching assignment administrative response
(Attachment III.A)
 - B. Curricula - R. Howell
 1. Time limitation of the graduation catalogue
(Attachment III.B.1)
 2. Report No. 5, 1989-90
 - a. Fifteen experimental courses presented
 - b. Twenty-one course/curriculum changes approved
 - c. Twelve new courses approved
 - d. Forty-six course deletions approved
 - e. Forty-nine courses designated as "offered occasionally"

- f. Three degree proposals approved
 - (1) M.S. - Statistics
 - (2) M.S. - Statistics with Emphasis in Reliability and Quality Assurance
 - (3) Ph.D. - Statistics(Attachment III.B.2)

C. Personnel - V. Roach

- 1. Conflict of interest policy status report
- 2. Research dishonesty policy status report
- 3. Qualifications for professorial ranks status report

D. Public Occasions - J. Bayless

- 1. Industry and parents' days, 1990.

E. Intercampus Faculty Council (ICFC) - R. Wolf

4. New business.

- A. Faculty resolution - College of Arts and Sciences
(Attachment IV.A)

Attachments: II.D
III.A
III.B.1
III.B.2
IV.A



VOL. XIX, NO. 5
March 29, 1990

XIX, 5 The March 29, 1990, meeting of the Academic Council was
.1 called to order at 1:33 p.m. by Prof. Donald R. Askeland,
Academic Council President. Prof. Glen Haddock substituted
for Dean Marvin Barker.

Mr. Bob Whites from Student Financial Aid was recognized as
Staff Council representative. He announced that the UMR
Staff Recognition Day is on June 4. Four programs and eight
awards will be presented that day. Nomination Award forms
have been distributed.

Prof. Lance Williams moved that the February 1, 1990,
minutes be approved. His motion was seconded. Prof. Ron
Howell corrected the last sentence on page five under the
topic, "Infrequently Taught Courses," to read: "Prof.
Howell further moved that department chairs may submit a
list of courses for deletion to the Vice-Chancellor for
Academic Affairs and the Curricula Committee as well as a
separate list of courses to be listed as Offered
Occasionally." The minutes, as corrected, were approved.

XIX, 5 REPORTS AND RESPONSES.

.2

A. PRESIDENT'S REPORT. President Donald Askeland reported
that UMSEL's proposal to increase their computer fee, in
time, from two dollars to three dollars and fifty cents
per credit hour was approved by the Board of Curators.

President Askeland also reminded members that the policy
on teaching evaluation approved by Council included self
and peer evaluations also. Forms have been created for
peer and self evaluations for teaching effectiveness.
These forms were suggested by Vice-Chancellor Park and
reviewed by the Committee of Department Chairs.

B. REFERRALS.

1. TUITION POLICY TO THE BUDGETARY AFFAIRS COMMITTEE.
President Magrath's formation of a task force to
review UM tuition (UMR's representatives are Eugene
Bae, Thomas Herrick and Wendell Ogrosky), and
Student Council's recommendations (for Council

perusal) of possible changes in tuition policy prompted President Askeland to request Budgetary Affairs to form an opinion for the faculty on UMR's tuition policy. The review is to include the Supplemental Engineering fee and upper/lower division course fee differences. The resulting effort will be forwarded to President Magrath's task force.

2. GRADE POINT AVERAGE RULES TO THE ADMISSION AND ACADEMIC STANDARDS COMMITTEE. This referral is a response to an inquiry enlisting help for those freshmen students who, while adjusting to college life, have irrevocably destroyed their grade point average.
3. FACULTY EVALUATION OF DEPARTMENT CHAIRS TO THE PERSONNEL COMMITTEE. At the present time, Department Chairs are evaluated by the Faculty at five year intervals. According to President Askeland, those committees charged with this task develop their own evaluation forms. The Personnel Committee are asked to evaluate proposed standardized forms for use throughout the campus.

C. CHANCELLOR'S REPORT.

1. BOARD OF CURATORS, MARCH 22-23, 1990, MEETING. During the recent Curators meeting, which Chancellor Martin Jischke attended, the missions and their histories of the four campuses, the organization of higher education in Missouri, and the work of the Higher Education Business Commission (led by Curator Cook) were discussed at length.
2. BUDGET STATUS REPORT. Chancellor Jischke reported that the FY1990 budget is in balance. Revenues were as predicted, and expenditures are within budget. For the first time, UMR might be able to fund the Sponsored Research Incentive Program in which individual investigators, deans, departments, and a research equipment fund (contribution amount--1/2 percent of the total) receive a portion of an indirect cost recovery. The total recovery amount is estimated at \$100,000.

The FY1991 budget is marred by uncertainty of Missouri's revenue outlook and of legislative action on certain program improvements. The Governor has requested a four percent increase in UM's core

budget and funding for some targeted items such as \$500,000 for the Engineering Equipment Bill.

The Budget Review Committee has met to discuss funding priorities for the FY1991 budget, and Chancellor Jischke promised to "apprise the Council of future [budget] developments."

With regard to the FY 1992 budget, the Budget Review Committee suggests that program improvement requests focus on matching funds for endowed faculty positions and on the VSAT proposal. Reminder--program improvements are the lowest priority following costs to continue and repair of the base.

3. UNDERGRADUATE RESEARCH PROGRAM. Prof. Don Sparlin's Committee has developed the proposed structure for this program. Following advisement from this Committee, the administration established the Opportunities for Undergraduate Research Experience Program. Funding was set at \$50,000 per annum. The program is administered by the Office of the Graduate Dean, thereby reducing additional administrative costs. Memoranda have been distributed inviting participation from faculty and students in applying for funding. Application deadline is May 1.
4. SEARCH - JAPANESE LANGUAGE PROFESSOR. As background in presentation of his report, Chancellor Jischke stated that he had raised the issue of teaching an Asian language several times in the past three years. This included meetings with language faculty and Dean Marvin Barker. The faculty were asked by Dean Barker to develop a plan to respond to the Chancellor's inquiry.

At the time, it was clear that if a non-European language were offered, it would have to be funded from the resources available in the College of Arts and Sciences. An additional faculty position in foreign languages could not be contemplated since the College had given priority only for faculty salary funding, expense and equipment, and/or additional faculty positions in the mathematics, computer science, or life science departments. Dean Barker and the College did not wish to allocate the position vacated by the French professor to

another department or to reduce the number of languages offered. Dean Barker and Chancellor Jischke discussed this issue and decided to offer Japanese.

Reasons cited for teaching Japanese were enumerated as follows: (1) Japan is a high-technological competitor of the U.S. and more students are becoming interested in the language; (2) Japan is a technically and scientifically important nation with whom our country has growing economic, diplomatic, and cultural relations; (3) many international students are/were Asian residents and are our largest ethnic minority; (4) Japanese literature has interesting topics and poetic forms; and (5) offering a non-European language would be a part of a larger effort to create an educational environment to assist students in dealing with cultural differences.

In conclusion, Chancellor Jischke pointed out that (1) provisions have been made to allow students currently studying French to complete their program, and (2) while there are curricula which require a foreign language, no curriculum requires a specific foreign language. The later premise was debated during Council discussion following this report and in written correspondence received earlier by the Chancellor. Vice-Chancellor Park and Interim Dean Haddock have been asked to review concern over curriculum requirements.

5. SEARCH - ARTS AND SCIENCES DEAN. On January 22, 1990, Dean Marvin Barker resigned. In a February 5 memorandum, Chancellor Jischke reported that he solicited nominations from the Arts and Sciences faculty for an interim dean and search committee members. The twenty-two responses yielded six possible candidates for interim dean (Glen Haddock was one) along with twenty-three faculty, five staff, and six students for committee membership. No faculty questioned the proposed search committee following the communication. Profs. Hall, Trimble and Williams did, however, call attention to the Collected Rules and Regulations which were adopted in 1971 and which state that "the chief executive officer and administrative officer of each school or college is the Dean. When the position is vacated,

the Dean shall be nominated by the Chancellor after formal consultation with a committee elected from and by the School or College Faculty."

After consultation with Profs. Hall, Askeland, and others, including some in the system office, the formation of a second committee (elected from and by the College Faculty) was requested of Dr. Hall and Dean Barker by Chancellor Jischke. Chancellor Jischke could formally consult both before and after candidate interviews with this second committee.

Chancellor Jischke noted that (a) the regulations do not detail the process by which a Dean search is conducted but do require a committee of elected faculty members to provide the Chancellor a formal recommendation on behalf of the faculty prior to an appointment decision; and (b) past search committees, according to recent interpretation, failed to follow the letter of the rules and regulations previously quoted in that non-faculty and faculty members outside the school/college were appointed. For example, (1) the Summer 1979 Arts and Sciences Dean Search Committee included representatives from Chemistry, Computer Science, Mathematics, Humanities, Social Sciences, Physics, and Physical Education (none from Geology/Geophysics, Life Science, or ROTC), two Arts and Science students, and faculty representation from Civil and Ceramic Engineering; (2) the Summer 1979 Engineering Dean Search Committee consisted of representatives from Chemical Engineering, Civil Engineering, Electrical Engineering, Engineering Management, Engineering Mechanics, and Mechanical/Aerospace Engineering, two Engineering students, one representative each from the School of Mines and Metallurgy and the College of Arts and Sciences, and two alumni (requested by the committee itself); and (3) the Summer of 1980 Mines and Metallurgy Dean Search Committee consisted of representatives from Ceramic Engineering, Metallurgical Engineering, Mining Engineering, Petroleum Engineering, Geological Engineering, the College of Arts and Sciences, and the School of Engineering, one alumnus, two students and one staff (Catherine Jenks, Assistant to the Chancellor for Affirmative Action).

With these facts as background, Chancellor Jischke reported that he proceeded, as suggested on February 5, to announce in a March 2 memorandum the appointment of the Interim Dean, Dr. Glen Haddock, and the formation of a search committee of 13 members (Faculty: seven from Arts and Sciences, and one from Engineering; Non-Faculty: one Arts and Science staff member, one University Advancement representative, two Arts and Science students, and one representative from the Deans' Advisory Committee). On March 8, Dean Barker was asked to hold the election for the Faculty Consultation Committee to be comprised solely of faculty from the College of Arts and Sciences.

As stated, Chancellor Jischke's rationale for employing two committees (one entirely of faculty, the other predominantly faculty) stems from the need to aggressively seek the best candidate for the position while following the letter of the regulations and allowing representation/voice (not necessarily of equal weights) for all important constituencies that a dean must work with--faculty, staff, students, and community. Also stated was the belief that in the search process, the nature of the responsibilities and the importance attached to all these important groups should be communicated to any prospective dean.

In order to accomplish the goal of recruiting an individual to effectively lead and represent the College of Arts and Sciences and the University, Chancellor Jischke recognized that he or she "must be selected by a process that is supported by the faculty and by the Chancellor," therefore, "it would be wise and prudent for a representative group of this body--the Academic Council--to work with a like number of people that I would designate, to fashion a proposal that we can all agree to." In response, Council President Askeland indicated that he would request, as soon as possible, each Dean to hold a faculty election for the purpose of selecting two Council members per school/college to form such a committee.

President Askeland also mentioned that there has been a request to change the By-Laws relative to the formation of a dean search committee and anticipates the appearance of this topic in the next few months.

Prof. Ron Howell moved to substitute the Committee's new recommendation for the one previously presented. Prof. Williams seconded the motion, and it carried. The three part recommendation was changed as indicated:

"(1) Students continuously enrolled at UMR or any approved university may use the graduation requirements of the UMR catalogue at the time of entry of their college studies for a period of ten (10) calendar years. If the students' enrollment period, continuous or not, extends beyond ten (10) calendar years, then students must fulfill the graduation requirements of the UMR catalogue current at the end of the 10 year period.

(2) If students are not enrolled for three consecutive semesters or for one and a half calendar years, then they must fulfill the graduation requirements of the catalogue at current re-enrollment.

(3) Students who interrupt their enrollment for one semester or more must be enrolled at UMR (instead of: apply for readmission to the university) in their semester of graduation."

Discussion centered upon concern over the necessity of being enrolled at UMR during the semester of graduation following one semester interruption when some courses (particularly graduate) can last for a period of one year or more, correspondence courses can last six months to a year, and some courses are only offered occasionally or just once a year. Prof. Arlan DeKock moved to amend the motion by deleting paragraph three. Prof. Thomas Herrick seconded the motion. Prof. Roach, uncomfortable with being unable to consult Registrar Myron Parry, moved to table. Prof. Williams seconded the motion, which passed. (Attachment III.B.1)

2. REPORT NO. 5, 1989-90. Prof. Howell moved that the additional report which he handed out be included as part of report number five. Prof. Williams provided the second, and the motion carried. Prof. Howell moved for approval of the

report, and Prof. Williams seconded the motion. Prof. Lance Haynes moved to remove from this action the portion of the report pertaining to the three new degree proposals (M.S. in Statistics and in Statistics with Emphasis in Reliability and Quality Assurance and the Ph.D. in Statistics) and to refer them to the Budgetary Affairs Committee, whose advice was not sought. Prof. Roach seconded the motion. Following discussion, Prof. Williams moved for the question, and the motion was defeated.

Prof. Neil Book moved to amend the motion by inserting the word "Nuclear" in the title of Nuclear Engr 221 (CC1 3227 and 3232) and Nuclear Engr 223 (CC1 3228 and 3233). A second to the motion was received. Prof. Thomas Herrick moved to editorially change the above CC1's by adding the word "Nuclear" to the titles, thereby allowing an opportunity for correspondence between the Committee and the Department. Prof. Williams seconded the motion. After President Askeland observed that the original motion would have the same effect as the editorial change, Prof. Herrick and Prof. Williams withdrew the motion and second, respectively. The amending motion failed and report number five was approved in its entirety. (Attachment III.B.2)

C. PERSONNEL.

1. CONFLICT OF INTEREST POLICY STATUS REPORT. The Committee was requested to form an opinion on the Conflict of Interest policy. Prof. Roach reported that recommendations were sent North by President Askeland with an informative comment that NIH retracted their request for a policy in their guidelines. Background material was forwarded later, but we now have a conflict of interest policy in effect.
2. RESEARCH DISHONESTY POLICY STATUS REPORT. The Committee also was asked to comment on this topic, and it recommended that the policy be rejected because of objections relating to selected clauses on extending anonymity to a person making an accusation and informing NIH when grounds for investigation has been established. Prof. Roach informed Council that the anonymity clause was removed, but the agency clause remains.

3. QUALIFICATIONS FOR PROFESSORIAL RANKS STATUS REPORT. The Promotion and Tenure Committee, Dr. Eversman, Vice-Chancellor Park, and others have advised the Committee, which will in all probability present a revised version at Council's next meeting.

D. PUBLIC OCCASIONS.

1. INDUSTRY AND PARENTS' DAYS, 1990. Prof. Jerry Bayless indicated that date changes were necessary on two of the 1990-91 Public Occasion Dates approved in October. Representatives of participating agencies suggested that Industry Day, originally scheduled for October 11, be changed to September 27. Parent's Day, originally scheduled for September 29 in order to fall on a football weekend, should now be held on November 3. Prof. Bayless moved for approval. Prof. Williams seconded the motion. The motion carried.

E. INTERCAMPUS FACULTY COUNCIL (ICFC). Prof. Robert Wolf's report covered two meetings--February 1 and March 6. Reports and/or discussion included the budget building process; the condition of the University of Missouri Libraries (President Magrath indicated the importance of additional funding); the human relations issue (equal opportunity and affirmative action guidelines, individual campus efforts, and faculty/staff minority statistics per campus were reviewed); the appropriateness and distribution of Curator scholarships (the criteria for continuing support may be too demanding and unrealistic); the University Press selection procedures for manuscript publication; the student fee task force; and the new staff benefits policy (there are continued complaints regarding medical and dental claims). The next meetings will be held on April 17 and May 10.

XIX, 4 NEW BUSINESS.

.4

A. FACULTY RESOLUTION - COLLEGE OF ARTS AND SCIENCES. Prof. Roach forwarned Council that the faculty of the College of Arts and Sciences has requested Council consideration and ratification of a five-part resolution concerning the current formation of a Dean Search Committee and the selection process itself. Two-thirds of the College faculty support the resolution. Presentation will occur during Council's April 26 meeting.

The meeting adjourned at 3:35 p.m.

Respectfully submitted,



Jerome A. Westphal
Secretary

Attachments: II.D
III.A
III.B.1
III.B.2
IV.A

*Minutes of the Academic Council Meeting are considered official notification and documentation of actions approved.

POLICY GUIDELINES FOR INTERDEPARTMENTAL
TEACHING ASSIGNMENTS

I. INTRODUCTION

It is the policy of the University of Missouri-Rolla to encourage faculty members to teach courses in their areas of expertise even if this involves teaching outside of their home departments. Such a policy permits the efficient use of the broad talents of the faculty, aids in the equalization of teaching loads between departments, and assists the campus in meeting short-term changes in student demand.

Whenever possible, department chairs should make outside teaching assignments using the most qualified faculty member within the department to fulfill the assignment. The faculty member's interest in and desire to teach a course outside the department should be considered in making the assignment. However, it is recognized that needs may arise which will require faculty members to teach courses they consider less desirable than courses within the department. If at all possible, such assignments should be temporary. Because the faculty members involved are assisting the campus in resolving a campus-wide problem, such assignments should be recognized and rewarded by both the department receiving the service and the faculty member's home department. In addition, appropriate time should be made available for preparation and for accommodation of the procedures as well as the requirements of the receiving department.

To ease the transition of teaching a course outside the home department, efforts to team-teach courses and to provide an experienced mentor are strongly encouraged.

II. GUIDELINES

1. Department chairs may request that faculty members teach courses outside their disciplines for which the faculty members have clearly defined expertise as evidenced by:
 - a. Prior teaching experience;
 - b. Formal academic training;
 - c. Self-proclaimed competency.
2. Courses taught outside the home department will be given consideration as a part of the faculty member's teaching load and will be rewarded within the faculty member's home department on the same basis as a similar course within the discipline.
3. If the course is being taught for the first time, faculty members will be given the same considerations in work load, release time, and support as would be given for teaching a new course for the first time in their home department.
4. Teaching assignments outside the home department are to be given the same consideration relative to tenure, promotion, and salary increases as would be given to equivalent courses taught within the department.

HANDOUT

Vice Chancellor Report on Recycling

Membership: UMR Solid Waste Management Committee

Randy Stoll, Director of Purchasing and Committee Chairperson,
Marty Blank, News and Publications
Bob Blaylock, Printing and Mail Service
Dave Dearth, Computing Services
Jackie East, Student Dorm Rep
Dale Elifrits, Prof Geological Eng
Virgil Flanigan, Prof Mechanical Eng
Jim Murphy, Residential Life
Kevin Schneider, Student Rep
Joan Singley, Dean's Ofc Mines & Met
Steve Zernicke, Physical Facilities

Missouri's Integrated Waste Management Hierarchy

1. Reduce waste created
2. Reuse, recycle, compost
3. Recover/use energy from solid waste
4. Incinerate or dispose of in sanitary landfill

Ongoing and Future Needs

- o Faculty/staff/student interest and involvement
- o Concern for the problem and understanding of the solutions
- o ideas, Ideas, IDEAS!!

Attachment III.A
POLICY GUIDELINES FOR INTERDEPARTMENTAL
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4. Teaching assignments outside the home department are to be given the same consideration relative to tenure, promotion, and salary increases as would be given to equivalent courses taught within the department.

TIME LIMITATION OF THE GRADUATION CATALOG

ORIGINAL RECOMMENDATION

The Curricula Committee recommends the following be added to The Manual of Information:

- (1) Students continuously enrolled at any university may use the graduation requirements of the catalog of entry. If the students' enrollment period, continuous or not, extends beyond ten (10) calendar years, then students must fulfill the graduation requirements of the catalog current at the end of the 10 year period.
- (2) If students are not enrolled for three consecutive semesters or for one and a half calendar years, then they must fulfill the graduation requirements of the catalog at current re-enrollment.
- (3) Students who interrupt their enrollment for one semester or more must apply for readmission to the university in their semester of graduation.

PROPOSED CHANGE

- (1) Students continuously enrolled at UMR or any approved university may use the graduation requirements of the UMR catalog at the time of entry of their college studies for a period of ten (10) calendar years. If the students' enrollment period, continuous or not, extends beyond ten (10) calendar years, then students must fulfill the graduation requirements of the UMR catalog current at the end of the ten (10) year period.
- (2) If students are not enrolled for three consecutive semesters or for one and a half calendar years, then they must fulfill the graduation requirements of the catalog at current re-enrollment.
- (3) Students who interrupt their enrollment for one semester or more must be enrolled at UMR in their semester of graduation.

RESOLVED

We, the faculty of Arts and Sciences, hereby voice our concern that the dean search and screen committee was not formed in compliance with the campus by-laws¹--laws which clearly require an election, not appointment of the committee by the Chancellor. We note, too, that in cases involving a conflict of the spirit and intent of a law vs. a loophole², the spirit/intent should dictate how the law is carried out.

We reaffirm the role of law in the governance of our institution, and we reaffirm the importance of compliance with the spirit/intent of our laws by all concerned.

We therefore resolve that:

1. In cases involving a conflict between the spirit/intent of a law vs. a loophole, it is the spirit/intent that should determine how the law is carried out.
2. It is the spirit and intent of the by-laws that a dean search and screen committee be constituted by a faculty election.
3. It is the spirit and intent of the by-laws that the dean search and screen committee be composed of elected Arts and Science faculty.
4. It is the spirit and intent of the by-laws that the search and screen committee will propose a list of candidates to be interviewed, will conduct the interview process, and will prepare the final list of acceptable candidates.
5. Since the current search committee was not formed in compliance with the spirit/intent of the by-laws, we hereby declare that this committee was improperly constituted and that a new committee--elected by the faculty in compliance with the spirit/intent of the campus by-laws--should take its place.
6. We request that these resolutions be forwarded to the Academic Council for ratification.

¹"The chief executive and administrative officer of each school or College is the Dean. When the position is vacated the Dean shall be nominated by the Chancellor after formal consultation with a committee elected from and by the School or College faculty." ---(Section V, page V-5, item .0102)

²The election of the search (and screen) committee was sidestepped on the grounds that the word "search" does not appear before "committee" in the by-law, even though the framers of the by-laws clearly intended the elected committee to be a search and screen committee.



UNIVERSITY OF MISSOURI-ROLLA

Academic Council

Curtis Wilson Library
Rolla, Missouri 65401-0249
Telephone (314) 341-4972

SUMMARY
UMR ACADEMIC COUNCIL MEETING
March 28, 1990

Chancellor Jischke reported on four items. With regard to budgets, the FY-90 budget is on target and no major readjustments are anticipated. In fact for the first time, the sponsored research program (a part of the funded research income will be returned PI's) be funded. There is uncertainty in the legislature regarding the FY-91 budget. In preparation of the FY-92 budget, the Budget Review Committee has suggested focusing on two items in the program improvement component. These are matching funds for endowed faculty and funding of the VSAT program.

The UMR Undergraduate Research Experience Program has been funded at an annual level of \$50,000. The program will be administered by Dean of the Graduate School. Formal notification has been sent to faculty and students.

Chancellor Jischke reported some of the factors considered in the decision to eliminate French and to introduce Japanese as a foreign language. Notably, with the departure of Dr. Chamiere, French cannot be taught with existing faculty resources whereas it would be possible to teach Japanese without hiring new faculty. The emergence of Japan as a modern technological and political power seems to dictate that we offer our students the opportunity to learn more about Asian cultures. The largest contingent of foreign students at UMR is from Asia. In any event, Interim Dean Haddock and Vice-Chancellor Park have been asked to review the issue with interested faculty.

Finally, Chancellor Jischke reviewed the justifications he used in setting up the search process for the position of Dean of the College of Arts and Science. He cited precedence at UMR for the proposed search procedure and expressed an opinion that use of an elected faculty committee as an advisory group was within the letter and spirit of the bylaws. It was clear from subsequent discussion that while there is agreement as to conformance to the letter of the bylaws, there is a strong divergence of opinion as to conformance to the spirit. President Askeland asked that the Deans elect two Academic Council representatives from each school to meet with an equal number of administrative counterparts to formulate a compromise on the search procedures.

Vice-Chancellor Smith reported on progress being made by the UMR Solid Waste Management Committee. The committee is chaired by Randy Stoll and is comprised of faculty, staff and students from

divisions and departments with the most direct links to the UMR waste stream. UMR conforms to Missouri's Integrated Waste Management Hierarchy: 1) reduce waste; 2) reuse/recycle/compost; 3) recovery and use of energy from solid waste; and 4) incineration or disposal in sanitary landfills. It is anticipated that a plan will be proposed by July and will be implemented within a year.

The Academic Freedom Committee submitted a report on Policy Guidelines for Interdepartmental Teaching Assignments. It was moved and passed that the report be accepted.

In addition to EC-1 and CC-1 forms, the Curricula Committee report contained a list of courses to be deleted from the UMR bulletins along with a list of courses to be placed in the "Offered Occasionally" category, and three proposed new degree programs in Statistics, an M.S. in Statistics, an M.S. in Statistics with Emphasis in Reliability and Quality Assurance, and a Ph.D. in Statistics. It was moved and passed that the report be accepted.

The Public Occasions Committee recommended that the 1990-91 Calendar be revised to have Industry Day on September 27 and Parents Day on November 3. It was moved to accept the recommendation and the motion passed.

Prof. Roach informed the Academic Council of his intention to present a resolution from the College of Arts and Sciences at the next Council meeting. The Academic Council will be asked to affirm the articles of the resolution.

SPECTRUM

News from the March 22-23 Board of Curators meeting, UM-St. Louis

Curators participated in a curators' seminar on governance of higher education. Discussion focused on patterns of state governance and coordination in other states, especially North Carolina, Texas and California. Suggestions ranged from elimination of the Coordinating Board for Higher Education to adding another level of state governance for four-year institutions. The board agreed that these issues will best be decided by the Missouri Business and Education Partnership Commission now studying the state's system of higher education.

The University System has broad primary missions in teaching, research, service and extension, but those missions have been defined in different ways since the System was created in 1963. After hearing a presentation on the evolution of mission statements, the board discussed at length the University's "Role and Scope" mission statement from the 1970s. The board is embarking on formulation of a new University System mission statement.

The board heard a status report on teacher education programs offered at Columbia, Kansas City and St. Louis. Teacher education enrollment has increased in each program, including a 115 percent increase at UMSL. The education programs have made significant improvements in the 1980s, the board was told, and academic requirements have become much more demanding. The number of graduates has increased, and the graduates' scores in assessment programs are the highest in the state.

Daryl Hobbs, director of University Extension's Office of Social & Economic Data Analysis, gave the board a report on demographic trends affecting Missouri. Missouri clearly divides into four regions demographically: the northern corn belt, the southern sun belt, the east and the west, Hobbs said. Economic development and education enrollment levels vary among these regions.

The new entrance to University Hall, the MU Alumni Center and the A.L. Gustin Golf Course in Columbia will be named Carrie Francke Drive in recognition of the late curator's service to the University as a student, alumna and curator. The new entrance was completed as part of a state project to widen Stadium Boulevard to four lanes.

Paul Matteucci attended his first meeting as the new student representative to the Board of Curators. Matteucci is a senior in business administration at UMSL.

Awards and honors: Robert W. Murray, Curators' Professor of chemistry at UMSL, received the 1990 Presidential Award for Research and Creativity. Murray is a national and international authority in organic oxidation chemistry, particularly ozone chemistry. Joy Eugene Whitener, dean emeritus of the UMSL Evening College and professor of education at UMSL, received this year's Thomas Jefferson Award, given to a faculty member who exemplifies the principles and ideals of Jefferson. Both Murray and Whitener have been faculty members at UMSL for more than 20 years.

Next meeting: May 3-4, UM-Rolla



UNIVERSITY OF MISSOURI-ROLLA

Office of the Registrar

103 Parker Hall
Rolla, Missouri 65401-0249
Telephone (314) 341-4181

MEMO TO: Academic Council
FROM: Curricula Committee
SUBJECT: April 12, 1990, Meeting

ITEM NO. 2: Catalog of Graduation. Approved by the committee.

Students are responsible for knowing and meeting degree requirements stated in the Undergraduate Bulletin, current at the time of their initial enrollment as freshmen. Transfers from community colleges and other universities are permitted to complete degree requirements in effect at the time of their initial enrollment at the community college or university. Students may elect to be graduated under the most recent degree requirements.

Students who interrupt their enrollment for two consecutive semesters, excluding summer sessions, must meet the degree requirements in effect at the time of readmission. Students who interrupt their enrollment for extenuating circumstances may appeal this regulation to the chairman of the degree granting department. The chairman will notify the Registrar's Office if the student's original catalog of graduation is reinstated.

Non-enrolled students who intend to complete the degree requirements by transferring work from another institution or through correspondence courses must do so within a year of leaving UMR. Otherwise, students who exceed this time limitation must meet the degree requirements in effect at the time of graduation. The student may appeal to the chairman of the degree granting department to reinstate the catalog in effect during the last term enrolled.

EC1's Reviewed in Numerical Order:

EC1 255, Physics 101A, Environmental Applications of General Physics. Approved for Fall 1990. 3 hours credit. Prereq: A year of general physics. (Returned and revised from March 8 meeting.)

EC1 256, Physics 101, Environmental Physics Lab. Approved for Fall 1990. 1 hour credit. (Returned and revised from March 8 meeting.)

EC1 270, Computer Science 301, Parallel Processing: Architectures, Languages and Algorithms. Approved for Fall 1990. 3 hours credit. Prereq: CSC 284 and CSC 228 or CSC 260.

EC1 271, Philosophy & Liberal Arts 101, Introduction to Arts & Sciences. Approved for Fall 1990. 1 hour credit. Prereq: Limited to Arts & Sciences Undecided students.

EC1 272, Physics 201, Classical Mechanics. Approved for Fall 1990. 4 hours credit. Prereq: Math/Stat 204, Phys 24 or 25.

EC1 273, Ceramic Engineering 301, Microelectronic Ceramic Processing. Approved for Fall 1990. 3 hours credit. Prereq: Phys 107 or EE 281.

CC1's Reviewed in Numerical Order:

CC1 3219, Metallurgical Engineering 281, Metallurgical Thermodynamics I. Approved for Fall 1990. Change of prerequisites from Math 22; Met 125 to Math 22; Met 122.

CC1 3221, Physics 006, Environmental Physics I. Approved new course for Fall 1990. 3 hours credit. Prereq: None. Description reads: A course for non-science majors which will consider, without mathematics, the production of energy and the environmental consequences of its use, and the physical problems associated with pollution.

CC1 3225, Nuclear Engineering 000, Approved change in curriculum for Fall 1990. Stat 215 substituted for ME 240. Credit hours changed from 1.0 hour credit to .5 hour credit.

CC1 3245, Computer Science 302, Information Processing and Retrieval. Approved for Winter 1991. Change in prerequisites from CSc 253 and CSc 238 or 274 to CSc 253 and CSc 235 or 238 or 274. Change in description reads: Topics will include: Basic files, indexed, hashed and ring files, combining file methods, performance analysis for files, tree-structured files, files using virtual memory, free storage management, distributed files, data representation, cryptography. Emphasis will be on concepts and advanced applications.

CC1 3247, Computer Science 406, Software Engineering II. Approved for Summer 1990. Change in course number from 308 to 406. Justification: This course material is no longer appropriate for the undergraduate level.

CC1 3251, Computer Science 360, Methods of Optimization. Approved for Winter 1991. Change in prerequisites from CSc 260 to CSc 228. Change in description to: N-dimensional geometry, convex sets, convex polyhedral, classical optimization of functions, constrained optimization, search techniques including direct search, conjugate direction methods, Quasi-Newton and Newton methods; the Lagrange function and Kuhn-Tucker Theorem.

CC1 3255, Computer Science 366, Regression Analysis. Approved for Winter 1991. Change in prerequisites from CSc 260 to CSc 228. Change in description to: Computer-oriented statistical methods involving concepts and techniques for experimental research. Computer techniques for methods of estimating parameters and testing hypotheses about them; analysis of variance; multiple linear and nonlinear regression methods; orthogonal comparisons; Numerical methods for linear least squares.

CC1 3256, Computer Science 368, Digital Simulation. Approved for Winter 1991. Change in prerequisites from CSc 260 to CSc 228. Change in description to: Simulation modeling of problems from science, management, and engineering.

Generation of pseudo-random numbers, Monte Carlo solution of deterministic static problems, solution of time dependent discrete random event processes, continuous event simulation. Survey of several simulation languages.

CC1 3276, Geology 224, Stratigraphy Lab. Approved new course for Fall 1990. 1 credit hour. Prerequisite: Concurrent with Geology 223. Description reads: this course re-enforces the principles of stratigraphy and sedimentation through the use of "hands-on" laboratory procedures such as sieve and pipette analyses, correlation problems, fence diagrams and stratigraphic maps.

CC1 3277, Geophysics 384, Gravity and Magnetic Methods. Approved for Fall 1990. Change of prerequisites from Math 325 and Geop 321 to Math 325. Hours changed from lecture 3 hours to lecture 2 hours and lab 1 hour. Change in description to: The theory and practice of gravity and magnetic surveying, data reduction, enhancement and interpretation. Applications of gravity and magnetics for engineering surveys as well as mineral, geothermal, oil and gas exploration.

CC1 3278, Geophysics 382, Mining and Engineering Geophysics. Approved for Fall 1990. Hours change from 3 hours lecture to 2 hours lecture and 1 hour lab. Change in description to: An introduction to the theory and application of the gravity, magnetic, resistivity, self-potential, induced polarization and electromagnetic methods as applied to the solution of engineering problems and mining exploration.

CC1 3279, Metallurgical Engineering 313, Scanning Electron Microscopy. Approved for Fall 1990. Change in course title from Electron Microscopy. Change in description to: A course in the theory and application of scanning electron microscopy and x-ray micro-analysis. Topics considered are electron optics, image formation and analysis; x-ray generation, detection and analysis; and characterization of fracture surfaces.

CC1 3280, Metallurgical Engineering 351, Mineral Processing II (Flotation and Hydrometallurgy). Approved for Fall 1990. Course title change from Mineral Processing II (Flotation).

CC1 3281, Metallurgical Engineering 361, Alloying Principles. Approved for Fall 1990. Change in course title from Physical Metallurgy II. Change of description from Basis for alloy design and property control. Predictions of phase stability, alloy properties and metastable phase possibilities; interfaces in solids and their role in phase transformations.

CC1 3282, Metallurgical Engineering 363, Metal Coating Processes. Approved for Fall 1990. Change in course title from Electrometallurgy of Corrosion and Deposition Processes. Prerequisites changed from Chem 243 to Met 202, Met 203. Change in course description to: Introduction to the current technologies used to enhance metal performance, particularly corrosion resistance, by overlay coatings. Deposition processes are emphasized and the fundamentals of the behavior of the films in high technology and electronic materials applications is discussed.

CC1 3283, Metallurgical Engineering 414, Transmission Electron Microscopy. Approved new course for Fall 1990. 2 hours lecture and 1 hour lab. Prerequisites: Met 313 or permission of instructor. Description reads: A course in the theory and application of transmission electron microscopy.

Topics considered are electronoptics, image formation, defect structures, specimen preparation, contrast theory and electron diffraction.

CC1 3284, Civil Engineering 235, Hydraulic Engineering. Approved for Fall Winter 1991. Prerequisites change from GE 230 with grade of "C" or better and preceded or accompanied by English 160 to CE 233 with grade of "C" or better and preceded or accompanied by English 160.

CC1 3285, Basic Engineering 101, Special Topics. Approved new course for Fall 1990. 0-12 hours variable credit. No prerequisites. Description reads: This course is designed to give the department the opportunity to test a new course.

CC1 3286, Basic Engineering 201, Special Topics. Approved new course for Fall 1990. 0-12 hours variable credit. No prerequisites. Description reads: This course is designed to give the department the opportunity to test a new course.

Larry Vonalt

Larry Vonalt, Chair



UNIVERSITY OF MISSOURI-ROLLA

Attachment III.A

Office of the Registrar

103 Parker Hall
Rolla, Missouri 65401-0249
Telephone (314) 341-4181

MEMO TO: Academic Council
FROM: Curricula Committee
SUBJECT: April 12, 1990, Meeting

ITEM NO. 2: Catalog of Graduation. Approved by the committee. Student are responsible for knowing and meeting degree requirements stated in the Undergraduate Bulletin, current at the time of their initial enrollment as freshmen. Transfers from community colleges and other universities are permitted to complete degree requirements in effect at the time of their initial enrollment at the community college or university. Students may elect to be graduated under the most recent degree requirements.

Students who interrupt their enrollment for two consecutive semesters, excluding summer sessions, must meet the degree requirements in effect at the time of readmission. Students who interrupt their enrollment for extenuating circumstances may appeal this regulation to the chairman of the degree granting department. The chairman will notify the Registrar's Office if the student's original catalog of graduation is reinstated.

Non-enrolled students who intend to complete the degree requirements by transferring work from another institution or through correspondence courses must do so within a year of leaving UMR. Otherwise, students who exceed this time limitation must meet the degree requirements in effect at the time of graduation. The student may appeal to the chairman of the degree granting department to reinstate the catalog in effect during the last term enrolled.

EC1's Reviewed in Numerical Order:

EC1 255, Physics 101A, Environmental Applications of General Physics. Approved for Fall 1990. 3 hours credit. Prereq: A year of general physics. (Returned and revised from March 8 meeting.)

EC1 256, Physics 101, Environmental Physics Lab. Approved for Fall 1990. 1 hour credit. (Returned and revised from March 8 meeting.)

EC1 270, Computer Science 301, Parallel Processing: Architectures, Languages and Algorithms. Approved for Fall 1990. 3 hours credit. Prereq: CSC 284 and CSC 228 or CSC 260.

EC1 271, Philosophy & Liberal Arts 101, Introduction to Arts & Sciences. Approved for Fall 1990. 1 hour credit. Prereq: Limited to Arts & Sciences Undecided students.

Attachment III.A

EC1 272, Physics 201, Classical Mechanics. Approved for Fall 1990. 4 hours credit. Prereq: Math/Stat 204, Phys 24 or 25.

EC1 273, Ceramic Engineering 301, Microelectronic Ceramic Processing. Approved for Fall 1990. 3 hours credit. Prereq: Phys 107 or EE 281.

CC1's Reviewed in Numerical Order:

CC1 3219, Metallurgical Engineering 281, Metallurgical Thermodynamics I. Approved for Fall 1990. Change of prerequisites from Math 22; Met 125 to Math 22; Met 122.

CC1 3221, Physics 006, Environmental Physics I. Approved new course for Fall 1990. 3 hours credit. Prereq: None. Description reads: A course for non-science majors which will consider, without mathematics, the production of energy and the environmental consequences of its use, and the physical problems associated with pollution.

CC1 3225, Nuclear Engineering 000, Approved change in curriculum for Fall 1990. Stat 215 substituted for ME 240. Credit hours changed from 1.0 hour credit to .5 hour credit.

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Larry Vonalt

Larry Vonalt, Chair



UNIVERSITY OF MISSOURI-ROLLA

Academic Council

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SUMMARY
UMR ACADEMIC COUNCIL MEETING
April 26, 1990

President Askeland reported that Professors Jim Pogue, Tom Herrick, Lance Williams, Vince Roach, John Sheffield and Ray Edwards were elected to the committee to formulate possible compromise solutions regarding membership of the Search Committees for Dean of the College of Arts and Sciences. Their recommendation will later be considered by the Faculty of the College of Arts and Sciences and by Chancellor Jischke.

Chancellor Jischke reported that the search for the Dean of the College of Arts and Sciences has been halted pending acceptance of a compromise regarding search procedures and search committee membership. He also reported that state support for the general operating budget will increase by about four percent. Targeted funding for the engineering equipment bill and for minority scholarships appears likely to be achieved. Capital appropriations will probably be restricted to maintenance and repair.

The matter of time limitation of the graduation catalogue was removed from the table. A recommendation was made noting, among other things, 1) that students are responsible for knowing and meeting the graduation requirements delimited in the undergraduate bulletin current at the time of their initial enrollment as freshmen, 2) that students who interrupt their enrollment for two successive semesters (excluding summers) must meet degree requirements in place at the time of readmission, and 3) that non-enrolled students who intend to complete degree requirements with transfer or correspondence credit must do so within one year from leaving UMR. Procedures for appeal were also included in the recommendation. It was moved and passed that the recommendation be implemented.

The Personnel Committee met and deliberated on a resolution from the faculty of the College of Arts and Sciences pertaining to procedures for selection of a new Dean of the College of Arts and Sciences. It was moved and passed that the Academic Council support the resolution as a matter of information, not as a matter of action.

Professor Wolf reported that the Intercampus Faculty Council (ICFC) continued discussion of University Press non-responsiveness in publication of controversial documents,

the stringent criteria for renewal of Curator Scholarships, and problems with the processing of medial claims. At the ICFC meeting, Vice-President Magill reported on progress of the Five-Year Plan. Evidently little or no progress has been made with respect to faculty salaries, library funding, equipment replacement or on-going expense funding. Improvements in academic computing were gained at the expense of the students.

A faculty resolution from the College of Arts and Sciences pertaining to a perceived departure from the letter and spirit of the bylaws as they pertain to a dean search was tabled in recognition of the efforts being made by the Compromise Committee to resolve the issue.

For purposes of information, Professor Roach presented a Compromise Committee recommendation for a search procedure for Dean of Arts and Sciences to submitted to the faculty of that college for approval. No action was taken by the Academic Council.



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UMR Faculty

A G E N D A

April 19, 1990

Academic Council Meeting, Thursday, April 26, 1990; 1:30 p.m.; G-5 H/SS.

I. Approval of minutes of March 29, 1990 (VOL. XIX, NO. 5) meeting.

II. Reports and Responses

- A. President's Report (10 min.) Don Askeland (4730)
- B. Referrals
 - 1. Faculty Resolution - College of Arts and Sciences to Personnel Committee
 - 2. Assessment Test Scheduling to Academic Assessment
- C. Chancellor's Report - Budget Update (10 min.) Martin Jischke (4114)

III. Reports of Standing and Special Committees

- A. D.6.c Admissions and Academic Standards (No Report) Thomas Herrick (4507)
 - 1. Revised Regulations for Removing a Student from Academic Probation (April 23, 1987; XVI, 8; IV.A.1)
 - 2. Excused Absence Procedure (May 5, 1988; XVII, 8; II.B.1)
 - 3. Co-op Training Requirements (October 19, 1989; XIX, 2; II.B.2)
 - 4. Grade Point Average Rules (March 29, 1990; XIX, 5; II.B.2)
- B. D.6.e Budgetary Affairs (No Report) Carol Ann Smith (4869)
 - 1. Tuition Policy (March 29, 1990; XIX, 5; II.B.1)
- C. D.6.i Curricula (10 min.) Ron Howell (4638)
 - *1. Time Limitation of the Graduation Catalogue (June 25, 1987; XVI, 9; IV.A.2; Tabled March 29, 1990)
 - *2. Report No. 6, 1989-90
- D. D.6.o Personnel (10 min.) Vince Roach (4449)
 - 1. Qualifications for Professorial Ranks (September 14, 1989; XIX, 1; III.B.2)
 - 2. Faculty Evaluation of Department Chairs (March 29, 1990; XIX, 5; II.B.3)
 - 3. Faculty Resolution - College of Arts and Sciences
- E. D.6.s Student Affairs (5 min.) Ron Howell (4638)
 - 1. Procedures for Student Requests for Waivers of Deadlines (September 14, 1989; XIX, 1; III.B.3)
 - 2. Constitutions - Student Organizations
- F. Intercampus Faculty Council (5 min.) Robert Wolf (4733)

IV. Old Business

V. New Business

R, P & A Cmtt.
LW/cmb/4-12-90

*Supplementary materials sent to Academic Council members and department chairmen.



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VOL. XIX, NO. 6

April 26, 1990

SUMMARY of the reports, actions, referrals and announcements made at the meeting of the Academic Council held on April 26, 1990.

1. Call to order.
2. Reports and responses.
 - A. President's report - D. Askeland
 - B. Referrals
 1. Faculty resolution - College of Arts and Sciences to the Personnel Committee
 2. Assessment test scheduling to the Academic Assessment Committee
 3. Minimum grade procedures to the Admissions and Academic Standards Committee
 - C. Chancellor's report - M. Jischke
 1. Search - Arts and Sciences dean
 2. Budget status report
3. Reports of standing and special committees.
 - A. Curricula - L. Vonalt
 1. Time limitation of the graduation catalogue
 2. Report No. 6, 1989-90
 - a. Six experimental courses presented
 - b. Fourteen course/curriculum changes approved
 - c. Five new courses approved
(Attachment III.A)
 - B. Personnel - V. Roach
 1. Faculty resolution - College of Arts and Sciences
(Attachment III.B)
 - C. Student Affairs - L. Williams
 1. Constitutions
 - a. History Club
 - b. Bowling Club
 - c. Amnesty International
 - d. Egyptian Students Association
(Attachment III.C.1)
 2. Procedures for student requests for waivers of deadlines
(Attachment III.C.2)
 - D. Intercampus Faculty Council (ICFC) - R. Wolf

- 4. Old business.
 - A. Faculty resolution - College of Arts and Sciences - V. Roach
(Attachment IV.A)

- 5. New business.
 - A. Compromise Committee - V. Roach
 - 1. Recommendation - Arts and Sciences dean search
(Attachment V.A)

Attachments: III.A
 III.B
 III.C.1
 III.C.2
 IV.A
 V.A



VOL. XIX, NO. 6

April 26, 1990

XIX, 6 The April 26, 1990, meeting of the Academic Council was
.1 called to order at 1:35 p.m. by Prof. Donald R. Askeland,
Academic Council President. The following substitutions
were recognized: Major Merle Hoskins for Col. Sam Dent;
Prof. Mike Van de Mark for Prof. Frank Blum; Prof. William
Tranter for Prof. Max Anderson; and Prof. William Ingram for
Prof. Selden Trimble.

Ms. Sherry Stroder, Human Resources, was recognized as Staff
Council's representative this month.

Pres. Askeland indicated this change in Paragraph three of
the March 29 Council meeting summary: "Notably, with the
departure of Dr. Chamiere, French cannot be taught with
existing faculty resources whereas it would be possible to
teach Japanese without hiring new faculty" should read
"Notably, with the departure of Dr. Chamiere, the question
has arisen as to whether French or Japanese should be
offered."

XIX, 6 REPORTS AND RESPONSES.

.2

A. PRESIDENT'S REPORT. President Donald Askeland stated
that the Curators have not met since the Academic
Council meeting. Their next meeting is at UMR on May 3
and 4. Campus mission statements will be discussed
during their Friday session, and some UMR faculty members
will be invited to meet with the Academic Affairs
Committee of the Board of Curators on Friday morning.

Last month a compromise committee, per Chancellor
Jischke's suggestion, was formed. Profs. Jim Pogue, Tom
Herrick, Lance Williams, Vince Roach, John Sheffield and
Ray Edwards were elected and met yesterday with Dr. John
Park and Interim Dean Glen Haddock in order to discuss
the constitution of a Dean Search Committee; their
recommendation will later be considered by the Faculty
of the College of Arts and Sciences and the Chancellor.

B. REFERRALS.

1. FACULTY RESOLUTION - COLLEGE OF ARTS AND SCIENCES to
the Personnel Committee.

2. ASSESSMENT TEST SCHEDULING to the Academic Assessment Committee
3. MINIMUM GRADE PROCEDURES to the Admissions and Academic Standards Committee

C. CHANCELLOR'S REPORT.

1. SEARCH - ARTS AND SCIENCES DEAN. As reported by Chancellor Jischke, seven different proposals concerning the dean search process have been suggested and the Compromise Committee has identified yet another which they believe would enjoy faculty support.

The search process has been held in abeyance awaiting a compromise solution.

Espoused principles for developing a search process still remain as: (1) to ensure a predominant role for faculty; and (2) to develop a representative search committee giving affected groups a voice in the process.

2. BUDGET STATUS REPORT. All evidence indicates that state support for the general operating budget will increase by approximately four percent. Targeted funding for the engineering equipment bill (we are making progress in the General Assembly toward a time extension) and minority scholarships is expected. However, capital appropriations seem to be restricted to maintenance and repair rather than new capital projects. Engineering education in St. Louis remains a subject of considerable debate: the House of Representatives has recommended \$1 million to establish a cooperative program consistent with the Board of Curators' decision; the Senate supports internal budget (UM's) reallocation to form a satellite network to serve the entire state.

XIX, 6 REPORTS OF STANDING AND SPECIAL COMMITTEES.

.3

A. CURRICULA.

1. TIME LIMITATION OF THE GRADUATION CATALOGUE. Prof. Lance Williams moved to remove this item from the

table. The motion was seconded and passed. Prof. Williams moved to substitute the Committee's previous recommendation for the following:

"Students are responsible for knowing and meeting degree requirements stated in the Undergraduate Bulletin, current at the time of their initial enrollment as freshmen. Transfers from community colleges and other universities are permitted to complete degree requirements in effect at the time of their initial enrollment at the community college or university. Students may elect to be graduated under the most recent degree requirements.

Students who interrupt their enrollment for two consecutive semesters, excluding summer sessions, must meet the degree requirements in effect at the time of readmission. Students who interrupt their enrollment for extenuating circumstances may appeal this regulation to the chairman of the degree granting department. The chairman will notify the Registrar's Office if the student's original catalog of graduation is reinstated.

Non-enrolled students who intend to complete the degree requirements by transferring work from another institution or through correspondence courses must do so within a year of leaving UMR. Otherwise, students who exceed this time limitation must meet the degree requirements in effect at the time of graduation. The student may appeal to the chairman of the the degree granting department to reinstate the catalog in effect during the last term enrolled."

The substitute motion was seconded and passed. Prof. Larry Vonalt moved approval of the Committee's current recommendation. Prof. Williams seconded the motion, which carried.

2. REPORT NO. 6, 1989-90. Prof. Vonalt moved for approval with the following editorial changes: CC1 3225, Nuclear Engineering 000, should read "Credit hours for Nuc Engr 310 changed from 1.0 hour to .5

hours credit;" and CC1 3284, Civil Engineering 235, Hydraulic Engineering, should read "Approved for Winter 1991." The motion was seconded and approved. (Attachment III.A)

B. PERSONNEL.

1. FACULTY RESOLUTION - COLLEGE OF ARTS AND SCIENCES. Prof. Vince Roach presented the Personnel Committee's recommendation to support the resolution as a matter for information, not Council action, and moved for acceptance. Prof. Williams seconded his motion, which carried. President Askeland reported that this proposal has been suggested to and considered by the Compromise Committee. (Attachment III.B)

C. STUDENT AFFAIRS.

1. CONSTITUTIONS - STUDENT ORGANIZATIONS. Prof. Williams moved for approval of the proposed constitutions of the Association of Egyptian Students, the Bowling Club, the History Club, and Amnesty International. Prof. Dale Elifrits seconded the motion, which passed. (Attachment III.C.1)
2. PROCEDURES FOR STUDENT REQUESTS FOR WAIVERS OF DEADLINES. Prof. Williams moved to table to allow more time for consideration of this item. The motion was seconded and passed. (Attachment III.C.2)

- E. INTERCAMPUS FACULTY COUNCIL (ICFC). Prof. Robert Wolf reported that the ICFC, at their April meeting, continued its discussion of (1) the University Press' unresponsiveness in publishing controversial documents (Beverly Jarad, University Press Manager, has been invited to join ICFC on May 10); (2) the Curator Scholarships' stringent criteria for renewal past the freshman year (ICFC was informed of the University's reluctance to change the financial obligation by adding more funds or decreasing scholarship numbers); and (3) current medical claims processing which create confusion by breaking claims into so many pieces of mail.

Vice-President Magill reported on the progress of the Five-year Plan. Improvements in academic computing were gained at the expense of the students, and practically no improvements were made in faculty salaries, library

funding, equipment replacement, and on-going expense funding. This apparent lack of progress, according to Prof. Wolf, seemed to indicate starting over.

There is some indication that the Research Dishonesty document will come before the Board of Curators soon.

Academic Council members were encouraged to contact their ICFC members with concerns/problems which should be brought to the President's or Vice-Presidents' attention.

XIX, 6 OLD BUSINESS.

.4

- A. FACULTY RESOLUTION - COLLEGE OF ARTS AND SCIENCES. Prof. Roach moved to ratify the resolution which was previously distributed. Prof. Williams seconded the motion. Prof. Jim Pogue, at Prof. Gerald Cohen's request, moved to table consideration in light of new developments and the Compromise Committee efforts to settle the issue. Prof. Williams also seconded this motion. The motion to table carried.
(Attachment IV.A)

XIX, 6 NEW BUSINESS.

.5

A. COMPROMISE COMMITTEE.

1. RECOMMENDATION - ARTS AND SCIENCES DEAN SEARCH.
Prof. Roach indicated that the Compromise Committee met on April 25 and composed the enclosed recommendation for approval by the faculty of the College of Arts and Sciences.


Prof. Roach reported that the Committee considered many proposals, in particular the three solutions forwarded to all the Faculty of the College of Arts and Sciences in a straw ballot: the two proposals from the Committee of Concerned Faculty and the Personnel Committee compromise recommendation. The straw ballot indicated unacceptability of the Personnel Committee proposal; and while the two proposals from the Committee of Concerned Faculty received varying support, they did not receive support from Chancellor Jischke.

Prof. Roach strongly commented, "our academic administrators ... were all faculty members, are faculty members and they probably will be full-time faculty members again someday, ... and share with us the concerns in faculty governance."

The report was presented as information only. No
Council action was taken. (Attachment V.A)

The meeting adjourned at 2:25 p.m.

Respectfully submitted,



Jerome A. Westphal
Secretary

Attachments: III.A
 III.B
 III.C.1
 III.C.2
 IV.A
 V.A

*Minutes of the Academic Council Meeting are considered official
notification and documentation of actions approved.

2. ASSESSMENT TEST SCHEDULING to the Academic Assessment Committee
3. MINIMUM GRADE PROCEDURES to the Admissions and Academic Standards Committee

C. CHANCELLOR'S REPORT.

1. SEARCH - ARTS AND SCIENCES DEAN. As reported by Chancellor Jischke, seven different proposals concerning the dean search process have been suggested and the Compromise Committee has identified yet another which they believe would enjoy faculty support.

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Tranter for Prof. Max Anderson; and Prof. William Ingram for
Prof. Selden Trimble.

Ms. Sherry Stroder, Human Resources, was recognized as Staff
Council's representative this month.

Pres. Askeland indicated this change in Paragraph three of
the March 29 Council meeting summary: "Notably, with the
departure of Dr. Chamiere, French cannot be taught with
existing faculty resources whereas it would be possible to
teach Japanese without hiring new faculty" should read
"Notably, with the departure of Dr. Chamiere, the question
has arisen as to whether French or Japanese should be
offered."

XIX, 6 REPORTS AND RESPONSES.
.2

A. PRESIDENT'S REPORT. President Donald Askeland stated
that the Curators have not met since the Academic
Council meeting. Their next meeting is at UMR on May 3
and 4. Campus mission statements will be discussed
during their Friday session, and some UMR faculty members
will be invited to meet with the Academic Affairs
Committee of the Board of Curators on Friday morning.

Last month a compromise committee, per Chancellor
Jischke's suggestion, was formed. Profs. Jim Pogue, Tom
Herrick, Lance Williams, Vince Roach, John Sheffield and
Ray Edwards were elected and met yesterday with Dr. John
Park and Interim Dean Glen Haddock in order to discuss
the constitution of a Dean Search Committee; their
recommendation will later be considered by the Faculty
of the College of Arts and Sciences and the Chancellor.

B. REFERRALS.

1. FACULTY RESOLUTION - COLLEGE OF ARTS AND SCIENCES to
the Personnel Committee.

table. The motion was seconded and passed. Prof. Williams moved to substitute the Committee's previous recommendation for the following:

"Students are responsible for knowing and meeting degree requirements stated in the Undergraduate Bulletin, current at the time of their initial enrollment as freshmen. Transfers from community colleges and other universities are permitted to complete degree requirements in effect at the time of their initial enrollment at the community college or university. Students may elect to be graduated under the most recent degree requirements.

Students who interrupt their enrollment for two consecutive semesters, excluding summer sessions, must meet the degree requirements in effect at the time of readmission. Students who interrupt their enrollment for extenuating circumstances may appeal this regulation to the chairman of the degree granting department. The chairman will notify the Registrar's Office if the student's original catalog of graduation is reinstated.

Non-enrolled students who intend to complete the degree requirements by transferring work from another institution or through correspondence courses must do so within a year of leaving UMR. Otherwise, students who exceed this time limitation must meet the degree requirements in effect at the time of graduation. The student may appeal to the chairman of the the degree granting department to reinstate the catalog in effect during the last term enrolled."

The substitute motion was seconded and passed. Prof. Larry Vonalt moved approval of the Committee's current recommendation. Prof. Williams seconded the motion, which carried.

2. REPORT NO. 6, 1989-90. Prof. Vonalt moved for approval with the following editorial changes: CC1 3225, Nuclear Engineering 000, should read "Credit hours for Nuc Engr 310 changed from 1.0 hour to .5

hours credit;" and CC1 3284, Civil Engineering 235, Hydraulic Engineering, should read "Approved for Winter 1991." The motion was seconded and approved. (Attachment III.A)

B. PERSONNEL.

1. FACULTY RESOLUTION - COLLEGE OF ARTS AND SCIENCES. Prof. Vince Roach presented the Personnel Committee's recommendation to support the resolution as a matter for information, not Council action, and moved for acceptance. Prof. Williams seconded his motion, which carried. President Askeland reported that this proposal has been suggested to and considered by the Compromise Committee. (Attachment III.B)

C. STUDENT AFFAIRS.

1. CONSTITUTIONS - STUDENT ORGANIZATIONS. Prof. Williams moved for approval of the proposed constitutions of the Association of Egyptian Students, the Bowling Club, the History Club, and Amnesty International. Prof. Dale Elifrits seconded the motion, which passed. (Attachment III.C.1)
2. PROCEDURES FOR STUDENT REQUESTS FOR WAIVERS OF DEADLINES. Prof. Williams moved to table to allow more time for consideration of this item. The motion was seconded and passed. (Attachment III.C.2)

- E. INTERCAMPUS FACULTY COUNCIL (ICFC). Prof. Robert Wolf reported that the ICFC, at their April meeting, continued its discussion of (1) the University Press' unresponsiveness in publishing controversial documents (Beverly Jarad, University Press Manager, has been invited to join ICFC on May 10); (2) the Curator Scholarships' stringent criteria for renewal past the freshman year (ICFC was informed of the University's reluctance to change the financial obligation by adding more funds or decreasing scholarship numbers); and (3) current medical claims processing which create confusion by breaking claims into so many pieces of mail.

Vice-President Magill reported on the progress of the Five-year Plan. Improvements in academic computing were gained at the expense of the students, and practically no improvements were made in faculty salaries, library



UNIVERSITY OF MISSOURI-ROLLA

College of Arts and Sciences

Department of Chemistry

142 Schrenk Hall
Rolla, MO 65401-0249
Telephone (314) 341-4420
FAX (314) 341-6033

April 18, 1990

Memorandum to: Don Askeland
President, Academic Council

From: Personnel Committee
Vince Roach, Chair *DVR*

Re: Recommendation on referral regarding resolution from the
faculty of the College of Arts and Sciences

The Personnel Committee (all members present) has met and deliberated on the referral regarding the resolution from the faculty of the College of Arts and Sciences concerning procedures of selection of a new dean of Arts and Sciences as related to UMR by-laws. The deliberations followed meeting with Chancellor Jischke and Professor Carol Ann Smith, each of whom supplied valuable background information regarding the resolution. As a result of these conversations and deliberations, the Personnel Committee makes the following recommendations to the Academic Council:

The Personnel Committee recognizes and supports the position of the faculty of the College of Arts & Sciences.

Because of the need to proceed expediently with the search for and appointment of a new Dean of the College of Arts and Sciences, the Personnel Committee proposes a compromise agreement, for this occasion only, looking to subsequent by-law modifications:

Being concerned with adequate representation to the Search and Screen Committee for the Dean of Arts and Sciences, the Personnel Committee recommends that the Search and Screen Committee will include one member elected by and from and thus representing each department of the college; furthermore, the Personnel Committee recommends appointment of representatives of other aspects of a dean's responsibilities, but to a number which constitutes less than one third of the total committee membership.

The above recommendation is made to the Academic Council with unanimous support of all members of the Personnel Committee.

DVR:dms



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UNIVERSITY OF MISSOURI-ROLLA

Office of the Registrar

 103 Parker Hall
 Rolla, Missouri 65401-0249
 Telephone (314) 341-4181

MEMO: Academic Council

FROM: Curriculum Committee

DATE: May 15, 1990, Meeting

EC1's Reviewed:

EC1 275, English 201ML, Shakespeare's Plays. Approved for Fall 1990. 3 hours credit. Prerequisite: English 1; one semester college literature.

CC1's Reviewed:

CC1 3226, Geology & Geophysics. Approved changes in curriculum. Included with the new curriculum are proposals for 4 emphasis areas in Geology and Geophysics. These are Geology, Geophysics, Geochemistry, and Groundwater and Environmental Geochemistry.

CC1 3287, Geological Engineering 340, Field Operations in Ground Water Hydrology. Approved new course for Winter 1991. 3 hours credit. Prerequisite: GeE 331. Description reads: A survey of ground water field operations. Topics include ground water exploration, well drilling methods, drilling fluids, well screens, water and monitoring well design, well development and testing, and pumps. A design project will be completed.

CC1 3288, Life Sciences 102, Introduction to Biological Science. Approved new course for Fall 1990. 1 hour credit. No prerequisites. Description reads: An introduction to the study of modern biology at UMR. Students will consider personal and professional opportunities within the various areas of biology and become familiar with available departmental and campus facilities. (Course number was proposed as 100 but changed to 102 as 100 is the course number for special problems.)

CC1 3290, Statistics 116, Statistics for Social and Behavioral Sciences. Approved new course for Winter 1991. 3 hours credit. No prerequisites. Description reads: A course on statistical methodology for the social and behavioral sciences. Regression, analysis of variance, forecasting, and use of Statistical computer packages.

CC1 3292, Civil Engineering 312, Bituminous Materials. Approved for Fall 1990. Change of description to: Properties, types, and grades of bituminous materials are presented. Emphasis is placed on usage, distress, surface treatment design and asphalt concrete mix properties, behavior, design, manufacture, and construction.

Attachment III.C

CC1 3293, Civil Engineering 386, Groundwater Hydraulics. Approved for Fall 1990. Change of credit hours from 2 hours lecture and 1 hour lab to 3 hours lecture.

CC1 3294, M & AE & EMe, ME 203, Kinematics. Approved deletion for Fall 1990.

CC1 3295, M & AE & EMe, ME 204, Dynamics of Machinery. Approved deletion for Fall 1990.

CC1 3296, M & AE & EMe, ME 209, Engineering Acoustics I. Approved for Fall 1990. Change of prerequisites from ME 207 to Me 211 & ME 213, or AE 213 and Math 204.

CC1 3297, Engineering Management 334, Computer Integrated Manufacturing Systems. Approved for Winter 1991. Change in credit hours from 3 hours lecture to 2 hours lecture and 1 hour lab.

CC1 3298, M & AE & EMe, AE 309, Engineering Acoustics I. Approved for Fall 1990. Change in prerequisites from ME 207 to ME 211 & ME 213, or AE 213 and Math 204.

CC1 3299, M & AE & EMe, AE 311, Composite Materials in Aircraft Structures. Approved new course for Fall 1990. Prerequisites: AE 251 and preceded or accompanied by AE 253. 3 hours credit. Description reads: This course provides the basic mechanics background required for the analysis of structures made out of composite materials and emphasize practical design procedures to be used to take maximum advantage of the capabilities of the materials.

CC1 3300, M & AE & EMe, AE 361, Flight Dynamics Stability and Control. Approved for Winter 1991. Change of description reads: Review of static stability, dynamic equations of motion, linearized solutions, classical control design and analysis techniques, introduction to modern control.

CC1 3301, Petroleum Engineering 141, Properties of Hydrocarbon Fluids. Approved for Fall 1990. Change of prerequisites to Chem 3, preceded or accompanied by CSc 53 or CSc 73 & CSc 77. Change of description reads: Physical properties of petroleum fluids; chemical components of petroleum fluids. Elementary phase behavior; calculations of the physical properties of gases, liquids, and gas-liquid mixtures in equilibrium.

CC1 3302, Petroleum Engineering. Approved for Winter 1991. Curriculum changes designed to strengthen laboratory capability of students in Petroleum Engineering (change is to add Chem 2) and allow flexibility in Math/CSc elective.

CC1 3304, Geophysics 384, Gravity and Magnetic Methods. Approved for Fall 1990. Change in prerequisites from Math/Stat 325 and Geop 321 to Math 204.

CC1 3305, Geophysics 388, Geophysical Instrumentation. Approved deletion for Fall 1990.

CC1 3306, M & AE & EMe, Machine Analysis. Approved deletion for Fall 1990.

Attachment III.C

CC1 3307, Geology. Approved deletion of minor in Groundwater and Environmental Geology effective Fall 1990. This minor was introduced by mistake several year ago. No students have elected the minor.

CC1 3308, Petroleum Engineering 131, Drilling Practices and Well Completion. Approved for Winter 1991. Change in prerequisites from Math 21, Physics 21 to preceded or accompanied by Math 21 and Physics 23.

CC1 3309, College of Arts & Sciences. Approved for Fall 1990. Credit by Examination Brochure. Re-assessed by faculty of the existing Advanced Placement Program and the Advanced Placement Examinations.

CC1 3310, English. Approved for Fall 1990. Credit by Examination Brochure. The English faculty re-evaluated the existing CLEP Examinations and decided that multiple-choice examinations without a written essay do not constitute a basis for credit in English 1. This is also consistent with the written essay requirement for the departmental quiz-out policy.

CC1 3311, Geophysics 281, Geodynamics. Approved for Winter 1991. Change in course number from 481 to 281. Change in credit hours from 3 hours lecture to 2 hours lecture and 1 hour lab. Change in prerequisites from Math 22 and Geol 220 to Geol 51 or GeE 50 and Math 21. Change of description reads: The application of the theory of elasticity to geologic and geophysical phenomena. Topics include stress and strain in solids: elasticity and flexure; flooding and faulting; rock rheology; and tectonic problems. Rock property measurements will be made in the laboratory.

CC1 3312, Geology 113, Physical Mineralogy. Approved for Winter 1991. Change in prerequisites from Chem 3 or 5 to Geol 51 or Chem 1.

CC1 3313, Geophysics 386, Wave Propagation. Approved for Winter 1991. Change in prerequisites from Geop 286 and 321 to Geop 281 and 321.

CC1 3314, Geophysics 383, Electrical Methods in Geophysics. Approved for Winter 1991. Change of prerequisites from Math 325 and Geop 321 to Math 325 and preceded or accompaied by Geop 281.



Larry Vonalt, Chair



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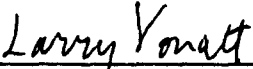
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Larry Vonalt, Chair



UNIVERSITY OF MISSOURI-ROLLA

Academic Council

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VOL. XIX, NO. 7
June 14, 1990

SUMMARY of the reports, actions, referrals and announcements made at the meeting of the Academic Council held on June 14, 1990.

1. Approval of minutes of the March 29, 1990, and the April 26, 1990, Council meetings.
2. Reports and responses.
 - A. President's report - D. Askeland
 - B. Referrals
 1. Hazardous chemicals/waste materials policy draft to the Campus Safety Committee
 2. Unofficial withdrawal policy to the Student Awards and Financial Aid Committee
 3. University of Missouri sexual harassment policy proposal to the Personnel Committee
 - C. Chancellor's report - M. Jischke
 1. Activities of the Missorians for Higher Education
 2. Undergraduate research program
 3. Referrals
 - a. Greek life at UMR
 - b. Campus research enhancements
 - c. Report of the Campus Committee on Retention
 - d. Cooperative engineering program - St. Louis (Attachment II.C.3.d)
 4. Distribution of indirect research recovery funds
 5. Budget status report
 - a. FY1990
 - b. FY1991 (Attachment II.C.5.b)
 6. Foreign languages - French/Japanese
3. Reports of standing and special committees.
 - A. Admissions and Academic Standards - T. Herrick
 1. Revised regulations for removing a student from academic probation
 2. Cooperative training requirements
 3. Grade point average rules (Attachment III.A)
 - B. Budgetary Affairs - C. Smith
 1. New programs in statistics (Attachment III.B.1)
 2. Tuition policy (Attachment III.B.2)

- C. Curricula - R. Howell
 - 1. Report No. 7, 1989-90
 - a. One experimental course presented
 - b. Five course deletions approved
 - c. Four new courses approved
 - d. Seventeen course/curriculum changes approved
(Attachment III.C)

 - D. Personnel - V. Roach
 - 1. Qualifications for professorial ranks
(Attachment III.D.1)
 - 2. University of Missouri sexual harassment policy proposal
(Attachment III.D.2)

 - E. Rules, Procedures and Agenda - J. Pogue
 - 1. Meeting dates, 1990-91
(Attachment III.E)

 - F. Student Affairs - R. Howell
 - 1. Procedures for student requests for waivers of deadlines
(Attachment III.F)

 - G. Committee on Effective Teaching - D. Elifrits
 - 1. Status report
(Attachment III.G)

 - H. Intercampus Faculty Council (ICFC) - J. Pogue
4. New business.
- A. University of Missouri Task Force on Student Fees-T. Herrick

Attachments: II.C.5.b
 II.C.3.d
 III.A
 III.B.1
 III.B.2
 III.C
 III.D.1
 III.D.2
 III.E
 III.F
 III.G



UNIVERSITY OF MISSOURI-ROLLA

Academic Council

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UMR Faculty

A G E N D A

June 7, 1990

Academic Council Meeting, Thursday, June 7, 1990; 1:30 p.m.; G-5 H/SS.

- I. Approval of minutes of March 29, 1990 (VOL. XIX, NO. 5) and the April 26, 1990 (VOL. XIX, NO. 6) meetings.
- II. Reports and Responses
 - A. President's Report (10 min.) Don Askeland (4730)
 - B. Referrals
 - 1. Hazardous Chemicals/Waste Materials Policy Draft to Campus Safety Committee
 - 2. Unofficial Withdrawal Policy to Student Awards and Financial Aid Committee
 - 3. University of Missouri Sexual Harrassment Policy Proposal to Personnel Committee
 - C. Chancellor's Report - Budget Update (20 min.) Martin Jischke (4114)
- III. Reports of Standing and Special Committees
 - A. D.6.a Academic Assessment (No Report) Robert Laudon (4466)
 - 1. Assessment Test Scheduling (April 26, 1990; XIX, 6; II.B.2)
 - B. D.6.c Admissions and Academic Standards (10 min.) Thomas Herrick (4507)
 - *1. Revised Regulations for Removing a Student from Academic Probation (April 23, 1987; XVI, 8; IV.A.1)
 - 2. Excused Absence Procedure (May 5, 1988; XVII, 8; II.B.1)
 - *3. Co-op Training Requirements (October 19, 1989; XIX, 2; II.B.2)
 - *4. Grade Point Average Rules (March 29, 1990; XIX, 5; II.B.2)
 - 5. Minimum Grade Procedures (April 26, 1990; XIX, 6; II.B.3)
 - C. D.6.e Budgetary Affairs (15 min.) Carol Ann Smith (4869)
 - *1. Tuition Policy (March 29, 1990; XIX, 5; II.B.1)
 - *2. New Programs in Statistics
 - D. D.6.i Curricula (5 min.) Ron Howell (4638)
 - *1. Report No. 7, 1989-90
 - E. D.6.o Personnel (10 min.) Vince Roach (4449)
 - 1. Qualifications for Professorial Ranks (September 14, 1989; XIX, 1; III.B.2)
 - 2. Faculty Evaluation of Department Chairs (March 29, 1990; XIX, 5; II.B.3)
 - F. D.6.r Rules, Procedure and Agenda (5 min.) Jim Pogue (4784)
 - *1. Meeting Dates, 1990-91

- G. D.6.s Student Affairs (5 min.) Ron Howell (4638)
 - **1. Procedures for Student Requests for Waivers of Deadlines
(September 14, 1989; XIX, 1; III.B.3)
- H. Committee on Effective Teaching (5 min.) Dale Elifrits (4847)
 - 1. Student Evaluation Form Update
- I. Intercampus Faculty Council (5 min.) Jim Pogue (4784)

IV. Old Business

V. New Business

R, P & A Cmtt.
LW/cmb/5-31-90

*Supplementary materials sent to Academic Council members and department chairmen.

*Attached to April 26, 1990, minutes.

COMMITTEE FOR EFFECTIVE TEACHING

Summary
for
Academic Council, 14 June 1990

During the 89-90 Academic Year, the Committee has considered the evaluation of teaching which followed the deliberations of the Blue Ribbon Committee. The Committee has examined carefully the results of the Fall 89 Semester experimental evaluation, taken faculty input regarding the evaluation of teaching and has reached some conclusions regarding a plan for 1990-91.

In summary, the following points have been agreed upon by the Committee, Vice Chancellor Park and shared with the Committee of Department Chairmen:

- a) written comments regarding teaching effectiveness are important to professional development of teachers,
- b) evaluation of teaching effectiveness is a multi-facitated activity - student evaluations, peer evaluations, self-appraisal, and departmental performance are all parts,
- c) administration of any instrument must be time efficient and non-threatening,
- d) evaluation of teaching effectiveness is a faculty/faculty committee activity, not to be confused with assessment of educational outcomes,
- e) effective teaching data are an important part of each faculty member's performance history.

The Committee is currently working toward the production of a philosophy and methodology to embody these points in an acceptable system of evaluation of teaching effectiveness. Faculty input is not only welcome but encouraged. Our target is to have a system in place for use in the Fall 1990 Semester which will have evolved, in part, from the 1989-90 experimental activities.

C. Dale Elifrits
Chairman
107 Basic Engineering
Phone: 4847

Proposed Policy on Sexual Harassment
University of Missouri

It is the policy of the University of Missouri to maintain an environment free from sexual harassment and intimidation. Sexual harassment is expressly prohibited. It will not be tolerated and offenders are subject to disciplinary action.

This policy on sexual harassment applies equally to students, staff and faculty.

Sexual harassment violates Title VII and Title IX of the Civil Rights Act of 1964. Sexual harassment may also be illegal under civil law when it constitutes a breach of contract or actionable tort.

Sexual harassment is defined as either unwelcome sexual advances or requests for sexual favors, or other verbal or physical conduct of a sexual nature when:

- (1) submission to such conduct is made explicitly or implicitly a condition for an academic or employment opportunity or advancement; or
- (2) submission to or rejection of such conduct is used as the basis for academic or employment decisions; or
- (3) the purpose or effect of such conduct is to interfere unreasonably with the work or academic performance of the person being harassed; or
- (4) the purpose or effect of such conduct is to create an intimidating, hostile, or offensive environment.

As defined above, sexual harassment is a specific form of discrimination in which power inherent in a faculty member's or supervisor's relationship to his or her students or subordinates is exploited. While sexual harassment most often occurs when the parties involved have unequal power, this policy recognizes that sexual harassment may occur between persons of the same University status, i.e., student-student, faculty-faculty, or staff-staff.

Consensual Relationships With Students:

While it is the desire of the University to safeguard the right to privacy of all employees, it is the responsibility of the University to maintain the integrity of the institution's academic mission.

The faculty-student relationship is central to that mission and therefore, it is essential to establish that the standard of expected conduct in that relationship goes beyond the proscription of sexual harassment as defined by the University's policy. Non-academic associations between faculty and students must not be allowed to interfere with the academic integrity of the faculty-student relationship. Intimate relationships, in particular those occurring within the zone of instruction, carry the presumption of

coercion and render the consensual nature of the relationship suspect. In addition, other students may assume that such relationships result in favoritism or unfair academic advantage.

Sexual relationships between faculty and students within the instructional context, as defined below, are prohibited and shall be deemed sexual harassment. Relationships within the instructional context include those between:

- (1) any regular academic staff member, (including all professorial ranks and instructor) and a student for whom that staff member has, or in the foreseeable future could have, an evaluative or supervisory role; or
- (2) any non-regular academic staff member, (including but not restricted to administrator, lecturer, research assistant or associate, graduate instructor, federal or state employee attached to the University, coach, program director, advisor) and a student for whom that staff member has, or in the foreseeable future could have, an evaluative or supervisory role; or
- (3) any non-academic staff member and a student for whom that staff member has a supervisory role.

While sexual relationships between faculty and students outside the instructional context are not specifically prohibited, faculty are strongly cautioned concerning such relationships. Should a complaint of sexual harassment be subsequently lodged after sexual relations have occurred, it will be exceedingly difficult to defend the charge on grounds of mutual consent and the University, in general, will be unsympathetic to a defense based on these grounds.

Procedure:

A complaint of sexual harassment may be lodged either by a party to the relationship or by any member of the University community (faculty, staff or student). In all cases of sexual harassment, the full range of internal institutional disciplinary action may apply.

Each campus within the University system shall have a written procedure for formally resolving allegations of sexual harassment. These procedures should emphasize ease of reporting and presentation of evidence, prompt reporting and prompt resolution of the dispute. The steps to be taken should be clear, well-publicized and easy to follow. Procedures should guarantee internal confidentiality and protect the privacy and individual rights of both parties. Separate procedures may be established for staff, students and faculty. Each campus is also encouraged to develop and publicize informal methods for resolving sexual harassment allegations.

Attachment III.F

JUSTIFICATION FOR OFFICIAL POLICY FOR REQUESTS OF WAIVERS OF DEADLINES, MEDICAL WITHDRAWAL DATES, AND OTHER FACULTY RULES

The Registrar's Office is frequently petitioned for a waiver of deadlines, medical withdrawal dates, and other faculty rules. Because, in most cases these requests for waivers of deadlines for withdrawing from class, etc., occur after the basis for the semester grade is known, these waivers represent a means of removing a failing grade from the transcript. The faculty by-laws have clearly established deadlines and provide no basis for waiver of those deadlines. Because the by-laws do not acknowledge the possibility of the waiver of these deadlines, there is no procedure for appealing a decision on the part of the Registrar to deny a request for a waiver of the deadline. The faculty by-laws, in setting an absolute deadline for dropping a course with extenuating circumstances, has assumed that students becoming ill or otherwise incapacitated within the last two weeks of the semester will be given an incomplete in the course with the opportunity to remove the incomplete and receive a passing grade the next time the student is enrolled on the campus. It should be noted that the instructor of the course has the authority to change a failing grade in the course to either incomplete or a passing grade following the deadline date for withdrawal. Requests for waivers occur in cases where the instructor is unwilling to grant the student either an incomplete or a passing grade.

In spite of the carefully considered logic of the faculty by-laws with regard to deadlines for withdrawing from courses, etc., there are occasions when legitimate reasons for waiving these deadlines exist. The most common case is a student who becomes ill prior to the deadline and, because of that illness, is unable to withdraw until after the deadline passes. In such cases, with the certification of the doctor at the University Health Service, the request is backdated to the first date of the illness. Students who become ill after the deadline date are assumed to qualify for an incomplete in the course. (Since "incomplete" is, in a sense, a grade, refusal of a faculty member to grant an "incomplete" to a student with a legitimate reason, illness, etc., should be handled under the procedures for grade appeal.) There are occasions when waivers to the deadline are requested which the Registrar feels are unjustified and therefore there will be situations when a student will wish to appeal the denial of a waiver by the Registrar. The most common basis for this appeal is that an adviser or administrator misinformed the student relative to his or her responsibility for observing the official deadlines. The following procedure provides a method of handling these appeals.

PROCEDURES FOR REQUESTING A WAIVER OF ADMINISTRATIVE RULES OR ACADEMIC DEADLINES

I. Procedure for Requesting a Waiver of Administrative Rules or Academic Deadlines

1. The normal procedure for requesting a waiver of administrative rules or academic deadlines starts with the student's adviser. The student should obtain counseling from the adviser concerning the rules involved

Attachment III.F

and the various options available to the student. The student's department chairman or the Vice Chancellor for Student Affairs are alternate sources of information.

2. The student should complete all of the appropriate forms and seek the signatures indicating approval which would have been required by the rules if the deadline or administrative rule had been appropriately met. Whether or not all of the required approvals are obtained, the form must be included with the request for a waiver.
3. A written request for a waiver of the rule or deadline should be addressed to the Vice Chancellor for Student Affairs, with the justification and supporting evidence clearly displayed.
4. The Vice Chancellor for Student Affairs, acting as the student's advocate, will verify the evidence provided and forward the request with a recommendation for action to the Registrar. If medical or health-related reasons for the request for a waiver are involved, a statement from the University Health Service's physician will be attached.
5. If the Registrar recommends the waiver of the University rules or deadlines, no further action is required. If the Registrar denies the request for waiver, then the procedures for appealing the administrative decision of the Registrar may be followed.

II. Basis for Appeal

The only basis for appeal is the capricious action of an administrator, adviser, or faculty member. Capricious behavior, as used in this procedure, consists of one of any of the following:

1. An action not in conformance with University rules or guidelines.
2. An administrative action which represents a substantial departure from that individual's previously announced procedures.
3. The assessment of standards to a particular student by a more exacting or demanding criteria than were applied to other students in similar situations.

Specifically, the following are not bases for appeal:

1. Lack of knowledge of the rules, guidelines, or deadline dates in the absence of capricious behavior as defined above;
2. Perception or belief that the rules are wrong or that the deadlines should be changed;
3. An appeal of grades, including refusal to offer an incomplete grade (See the grade appeal process).

Attachment III.F
III. Appeal Procedure

1. The initial step in the appeal procedure shall be for the student to inform the Vice Chancellor for Student Affairs that an appeal of the Registrar's decision to deny a waiver to an administrative rule or deadline is in process.
2. The student shall request in writing that the Registrar supply to the student the basis for his reason for denying the request for a waiver of an administrative rule or deadline. A copy of this justification will be sent to the Vice Chancellor for Student Affairs and the Vice Chancellor for Academic Affairs. Copies of the supporting materials will be attached to this letter.
3. Within five (5) days, the student would meet with the Vice Chancellor for Student Affairs to receive advice about his/her rights under the University rules.
4. If the student decides to proceed with an appeal of the decision of the Registrar, a request, in writing, for consideration should be made to the Vice Chancellor for Academic Affairs within five (5) calendar days from the meeting with the Vice Chancellor for Student Affairs. Within five (5) calendar days, the Vice Chancellor for Academic Affairs will consider the request.
5. If the appeal is denied by the Vice Chancellor for Academic Affairs, the appeal will automatically be referred to the Student Scholastic Appeal Committee.
6. Within 14 calendar days and at least 10 calendar days before the meeting date, the Student Scholastic Appeal Committee will set a date for a meeting to consider the appeal of the decision of the Registrar. The Vice Chancellor for Academic Affairs will notify the student, the individual accused of capricious behavior, the Vice Chancellor for Student Affairs and the Registrar of the date at least five (5) calendar days prior to the meeting of the Student Scholastic Appeal Committee.
7. The Student Scholastic Appeal Committee will consider the appeal by the student of the Registrar's decision to deny a waiver to an administrative rule or deadline. The student, the individual accused of capricious behavior, the Vice Chancellor for Student Affairs, and the Registrar shall be allowed to appear before the Student Scholastic Appeal Committee and present evidence. If any of these individuals are unable to appear, they may designate a representative from the UMR faculty, staff, or student body to appear on their behalf.
8. The decision reached by the ad hoc review group on the question of the appeal of the Registrar's denial of a waiver of an administrative rule or deadline shall be binding and final on both the student and the individual involved.



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June 7, 1990

Memo To: Members of the Academic Council

From: Personnel Committee
Vince Roach, Chair *DOR*

RE: Regular Faculty Involvement in Extension Activities

The Personnel Committee, in the course of examining and recommending revisions to Policy Memo II-10, has become aware of suggestions made in certain administrative discussions that regular faculty members be "assigned" extension activities as part of their academic load.

The Personnel Committee is particularly concerned about the possibility of requiring regular faculty members to participate in extension activities without compensation to themselves or their academic department. While we feel that extension activities are an important component to the University's mission, the transfer of regular academic personnel without compensation would be detrimental to the regular academic and research program. If extension activities result in reduction of the teaching and/or research effort of faculty members, compensation should be made to their home departments. If no reduction in regular activities are made, the faculty members should be individually compensated. Therefore:

Be it resolved that the Academic Council will not permit the transfer of academic personnel to the extension program without just compensation for this effort.

DVR:dms

DRAFT

POLICY MEMORANDUM

Qualifications for Professorial Academic Ranks

The objectives of this Policy Memorandum are to establish uniform, campus-wide, minimum qualifications for appointment to and promotion to full-time professorial academic ranks. It is to be understood that fulfillment of these minimum professional qualifications does not automatically qualify one for appointment or promotion. These guidelines are intended as general guidelines and not as rigid rules.

I. Guidelines for Appointment to Professorial Rank:

A. Minimum Professional Qualifications as indicated for appropriate rank:

1. Assistant Professor (ap): Appropriate doctorate or the degree of education considered to be the terminal degree of the discipline and demonstrable promise of excellent teaching and research/scholarship abilities.
2. Associate Professor (AP): ap qualifications and a superior record in teaching and research/scholarship.
3. Professor (P): AP qualifications and a developing national reputation in teaching or research/scholarship.

II. Guidelines for Promotion: These guidelines are intended to convey in general terms the expectations in faculty development and the requirements for promotion.

All faculty members are expected to be involved in a reasonable level of service to the department and institution through committees and other service activities.

- A. Assistant Professor. Promotion or appointment to an assistant professorship is usually based upon potential. However, promotion from the rank of instructor to that of assistant professor is based partly upon performance.

The following are considerations for promotion to assistant professor:

1. Possess the degree of education considered to be the terminal degree of the discipline.

Attachment III.D.1

2. Have the personal qualities, intellectual interests, and the academic competence required for effective teaching and effective research/scholarship.
3. Possess the enthusiasm and the capacity to motivate students.
4. Have demonstrated the capacity for independent creative thinking.
5. Have indicated both the willingness and capability to participate as a respected colleague in deliberations concerning the department, the School/College, and the University.

B. Associate Professor. Promotion to the associate professor rank is based upon demonstrated performance and potential: a critical evaluation of teaching effectiveness and professional growth should be made at this point.

The following are considerations for promotion to associate professor:

1. Satisfy the criteria for promotion to assistant professor.
2. Be recognized as an effective teacher as demonstrated by student and peer evaluation, awards and honors, course and curriculum development activities.
3. Be recognized as an effective researcher/scholar as demonstrated by publication of significant research results, securing of research support, scholarly presentations or publications of pedagogical nature and/or publication of textbooks, transfer of new technology, and/or other scholarly creative attainments recognized in the field through external evaluation by professional peers.
4. Be recognized by colleagues and peers as making significant contributions to departmental and institutional goals.

The length of service on the faculty before promotion will vary with the individual's productivity, qualifications, and rate of development. As a point of reference, promotion to the rank of associate professor may be considered after a minimum of three years service as assistant professor and will normally be considered in the sixth year of service.

C. Professor. Promotion to the rank of professor is intended to recognize status as a mature, excellent, and thoroughly productive scholar and teacher. Promotion to this rank requires that the quality of the individual's work be recognized by professional peers.

The following are considerations for promotion to professor.

1. Satisfy criteria for promotion to associate professor.
2. Have a developing national reputation in teaching or research as demonstrated by external evaluation by professional peers.

Attachment III.D.1

While no minimum time in rank is required, under normal circumstances achievement of the stature, maturity, and record of accomplishment required for promotion to the rank of professor will normally require a minimum of three years service as AP.

III. Exceptions:

Recommendations with strong justification for exceptions to any of the above guidelines may be initiated at the departmental level.

responsibility to determine the minimum number of hours of coursework that must be passed to be eligible for these programs.

Item #3.

The Director of the Cooperative Training Program believes that the rules and regulations that govern eligibility and participation in the Cooperative Training Program between the university and industry/government employers should be approved by the Academic Council. The existing program has evolved over the years without a review and recommendation from the faculty.

The accompanying document is a set of rules and regulations that the Committee and the Director have assembled. Items 5 and 7 are new. This material is too extensive to be included in the Manual of Information and will be referenced with an addition to the last sentence in the manual in the section entitled:

STUDENT AFFAIRS

.
. .
COOPERATIVE TRAINING PROGRAM (last sentence)
... More information, including rules and regulations of eligibility and participation, may be obtained at the Career Development Office ...

The Committee believes the operation of the Cooperative Training Program could be improved with the formation of an advisory board whose members are appointed by the Vice Chancellor for Academic Affairs. This board should be principally faculty, but a member or two should be from industry.

Item #4.

The essence of this referral to the committee is that a certain percent of freshmen compile poor academic performance records during their Freshman year. Subsequent work in later semesters is frequently at much higher levels of performance. However, the student's cumulative GPA is distorted, particularly in the early semesters, as the averaging process includes a large percent of unsatisfactory grades.

The question asked of the Committee is the following:

Should the University allow freshmen to retake courses in which poor grades were earned and replace the prior grade with the later grade, up to some maximum number of hours (let us say 15 for discussion purposes) for calculation of the grade point average?

This special provision is justified on the basis that freshmen, in making the transition to university work from the secondary school, frequently have all sorts of adjustment problems.

The Committee is not insensitive to the problems of freshmen in adjusting to the demands of university level work. But students all through their academic program have to accommodate these "dislocations." Transfer students make the same claim of transitional problems in their first semester or so after transferring. Students frequently have personal or family problems that seriously affect their ability to perform at a satisfactory level. There simply is no way to fairly determine a means where one group of students receives preferential treatment over others in calculation of the grade point average.

In general, the proposal is a subset of the old academic grade point average that the Council eliminated some years ago.

It is the feeling of the Committee that the cumulative grade point average calculated over all grades is the fairest representation of the student's performance. If some provision were made to modify the basic calculation, it could not be called a cumulative GPA, but would need a modifier (adjusted, academic, whatever). The real problem begins with the confusion and misrepresentation when there are two different GPA's.

As a comparative note, our sister campus in St. Louis proposed, several years ago, a very similar type of action called academic bankruptcy. A significant number of their students had very poor academic records in early coursework, with later improvements. This proposal would have allowed students to modify the transcript. The faculty would not approve this proposal.

The recommendation of the Committee is that no change be made in the current regulation in calculating the cumulative grade point average.

Cooperative Training Program
University of Missouri at Rolla
(Approved by the Academic Council 6/14/90)

Eligibility Requirements for Student Participation in Co-op

1. UMR students must be registered to participate in the cooperative training program. Failure to enroll may seriously affect the student's status for insurance, loans, grants, and income tax status. A registration fee, equivalent to one credit hour of lower level coursework must be paid for each work session. Summers are counted as a co-op work session. Registration procedures are outlined in the UMR Manual of Information for regular coursework.
2. Co-op students must be "full-time" and in good academic standing.
 - a. To be eligible to participate in the co-op program, a student should be full-time and in good academic standing. These conditions are defined as passing a minimum of 12 credit hours in a fall or winter semester and a minimum of 6 credit hours in a summer session.
 - b. Students must maintain a cumulative and semester GPA of at least a 2.0/4.0 to enter and to remain in the co-op program, and must NOT be on any type of university probation.
3. Students must complete at least 12 months of co-op training on an alternative semester basis before graduation. This may include a fall, a winter and a summer semester. Work schedules may not be confined solely to summer or vacation periods.
4. Students, at the option of the academic department, may be granted academic credit for the co-op work experience. The student's department determines procedures and evaluation criteria for granting academic credit and must inform the co-op administration office of their policies or any changes of the policy.
5. Transfer students may begin the co-op work period before they report on campus, if they have participated in a co-op program with their previous institution or if their cumulative GPA exceeds 3.0/4.0, and they have approval from their UMR academic advisor.
6. UMR transfer students may register only through the Co-op Office in Rolla.
7. Efforts should be made by the academic department at UMR to ensure that work assignments are related to the student's academic and career goals and that progressively more

Attachment III.A

responsible positions are realized in the work experience periods. It is the student's responsibility to report to the Co-op Office and to the academic department that the work assignments are progressively more responsible. The Co-op work experience should be part of an industry training activity, recognized as a part of a professional in-training program.

9. Co-op employers must conduct appraisals and counsel students regarding student work performance for each work period and share appraisal reports with students and the UMR Co-op Office. Performance appraisal records will be kept by the university.

Waiver of Requirements

In unusual circumstances and with approval of the UMR academic departments and the co-op employer, the Director of the Co-op Program may waive eligibility requirements. The petition to waive any requirement must be submitted on a form available from the Co-op Office.



XIX, 7 The June 14, 1990, meeting of the Academic Council was
.1 called to order at 1:35 p.m. by Prof. Donald R. Askeland,
Academic Council President. The following substitutions
were recognized: Major Scott McWilliams for Col. Sam Dent;
Prof. Charles Haas for Prof. Norm Smith; Prof. Troy Hicks
for Prof. Selden Trimble; and Prof. James Johnson for Prof.
Neil Book. Virginia Ryle, of the Vice-Chancellor for
Academic Affairs' office and Staff Council President, was
recognized as representing Staff Council at this Council
meeting.

A motion to approve the minutes for March 29, 1990, and
April 26, 1990, was made and seconded. Prof. Vince Roach
corrected the reporting of the Personnel Committee
recommendation in the April 26 minutes on page 4 as follows:
"to accept the resolution," instead of "to support the
resolution." The motion to approve both sets of minutes
carried.

XIX, 7 REPORTS AND RESPONSES.
.2

A. PRESIDENT'S REPORT. President Donald Askeland presented
results of balloting on the Bylaw changes relative to
search committees for department chairs and deans. A
total of 219 ballots were cast at the last General
Faculty meeting. The revision concerning departmental
chair search committees passed (150 in favor, 66 against
and 3 abstentions), and has been forwarded to the
Chancellor for submission to the Board of Curators. The
change regarding Dean search committees failed to
attain the 2/3 majority rule and failed (132 in
favor, 83 against and 4 abstentions).

President Askeland announced that UMR now has Conflict
of Interest disclosure forms available from department
chairs for those faculty who have " a significant
financial interest in a firm or company which dispels
products or services to the University; or has a
decision-making role in the University for awards of
research, purchasing, or construction contracts or
grants; or has a financial or other interest
incompatible with impartial objective and ineffective
performance of their decision-making duties."

Also, procedures governing disposition of charges of
research dishonesty were approved by the Board of
Curators at their May meeting.

The tax initiative to increase funding for the University to the tune of \$350 million is heading toward a June 1991 ballot. Last year, campus representatives met with President Magrath for an information session concerning the tax initiative and this past May, representatives from UM's four campuses met with faculty from several regional colleges and universities. Volunteers are needed by Labor Day at each campus to help organize funding for the campaign. Our University administration is already active with the Missourians for Higher Education and students (Missouri-wide) have been organized for months. Faculty from the various colleges and universities are taking their turn with the creation of the Missouri Higher Education Consortium. The suggestion was made that UMR establish a steering committee involving both faculty and staff (working outside of the Academic and Staff Councils) to act as a "middle-man" between the campaign organizers and the campus-at-large. President Askland is currently seeking volunteers.

The formation of an Ad Hoc Committee to review the practice of awarding diplomas at commencement exercises was announced by President Askland. Members were named: Profs. Tom Herrick, Vince Roach, Bob Wolf, Registrar Myron Parry, and Student Council President, Luke Peterson.

As a recent participant in Bradley University's telephone registration seminar, President Askland related that, contrary to public opinion, phone registration would not jeopardize the advisement process. System safeguards may be installed to encumber particular student numbers for those who require advisement.

B. REFERRALS.

1. HAZARDOUS CHEMICALS/WASTE MATERIALS POLICY DRAFT to the Campus Safety Committee.
2. UNOFFICIAL WITHDRAWAL POLICY to the Student Awards and Financial Aid Committee.
3. UNIVERSITY OF MISSOURI SEXUAL HARASSMENT POLICY PROPOSAL to the Personnel Committee.

C. CHANCELLOR'S REPORT.

1. ACTIVITIES OF THE MISSOURIANS FOR HIGHER EDUCATION. Chancellor Jischke reported that this coalition (composed of Missouri public and private universities/colleges and dedicated to improving higher education) last year produced an economic impact statement, information for the media (new conferences, et cetera), a comprehensive plan to increase higher education funding, a concise statement of needs called "Show Me Missouri Higher Education" (needs of \$367 million); have led the effort to influence legislative support for new revenues gaining active support of key legislative leaders); conducted public opinion polls; aided in the establishment of a legislative/business/education partnership funded to study the educational needs and developed public proposals to meet these needs; and generated a list of 165,000 public opinion leaders ready to become informed on educational issues. The next year will include a higher profile public relations effort aimed at state media, greater involvement in fund-raising efforts, additional public opinion research and a series of public forums culminating in an intense lobbying effort next fall and, in early spring, creation of a statewide computerized voter file.
2. UNDERGRADUATE RESEARCH PROGRAM. Last year, \$50,000 was budgeted to begin the program entitled "Opportunities for Undergraduate Research Experiences." Proposals were solicited from on-campus students in April. Approximately 100 proposals were received involving well over 50 faculty and half were selected for funding (involved are 50 students and 36 faculty from more than half the departments on campus).
3. REFERRALS. Chancellor Jischke invited the Council to review and comment on the following reports:
 - a. GREEK LIFE AT UMR. The task force to review Greek Life on campus was appointed last October; was chaired by Prof. Elizabeth Cummins; and included seven faculty, five students, four staff and two community members. The report defines the relationship between our campus and the Greek social organizations as well as their mutual responsibilities to each other. The report has been shared with all fraternities/

sororities, the Panhellenic and Inter-fraternity Councils. Vice-Chancellor Wendell Ogrosky has been asked to implement those campus administrative responsibilities outlined in this report.

- b. **CAMPUS RESEARCH ENHANCEMENTS.** Last year, the Research Policy Committee of the Graduate Council surveyed the campus research environment with suggestions for research enhancement. In response, Vice-Chancellor John Park led a committee of faculty, administration and staff to review the survey. Since the issues in this survey affect faculty directly, Academic Council should have the chance to comment on the survey and the review committee recommendations prior to any possible administrative implementations.
- c. **CAMPUS COMMITTEE ON RETENTION REPORT.** This standing committee, chaired by Vice-Chancellor Ogrosky, has prepared a report with a number of suggestions to improve the educational environment at UMR and, thereby, enhance retention.
- d. **COOPERATIVE ENGINEERING PROGRAM - ST. LOUIS.** At the last Board of Curators meeting (Rolla), the faculty, primarily Academic Council representatives, had a breakfast meeting with Board members. Discussion focused largely on the Cooperative Engineering Program in St. Louis. A suggestion was made that sharing copies of the May 1989 Board policy, the proposal submitted to the Coordinating Board for Higher Education (CBHE) in February 1990, and the subsequent letter to the legislature would be advisable. Chancellor Jischke then presented these items to the Academic Council for distribution. (Attachment II.C.3.d)
- e. **DISTRIBUTION OF INDIRECT RESEARCH RECOVERY FUNDS.** As the result of a query from the audience, Chancellor Jischke responded that it is estimated we will exceed the targeted base line of \$1.35 million by \$100,000. One half will be channeled to a research equipment fund; the second half, 37 1/2 percent to principle investigators (based on contribution to indirect

cost recovery) and 6 1/4 percent each to the Dean and Department Chair. The funds will be established in accounts for the use of each investigator. Distribution of research equipment monies would, hopefully, be handled through proposals from Departments, reviewed by Deans, and channeled through the Vice-Chancellor for Academic Affairs.

Rather than guessing and making adjustments thereafter, any distributions will be made at the close of the fiscal year once the accounting is done.

5. BUDGET STATUS REPORT.

- a. FY1990. The budget is on target and balanced. However, "we have no hope of gaining the three percent withholding," Chancellor Jischke reported.
- b. FY1991. In FY1990, the general operations appropriation for the entire University of Missouri (UM) budget was \$287,011,500. For FY1991, the UM system submitted its request for \$357,137,417 (an increase of 24.4 percent or in monetary terms \$70,125,917). CBHE thereafter recommended \$336,885,311 (an increase of 17.4 percent or \$49,873,811). Governor Ashcroft's recommendation whittled the general operations request to a total of \$299,212,742 (an increase over last year of 4.3 percent or \$12,201,242). The legislature came back with their recommendation of \$300,996,127 (an increase of \$13,984,627 or 4.9 percent).

Restrictions on the general operations appropriation includes targeted investments of which the UM system requested approximately \$15 million for "Strengthening Graduate and Professional Education" (graduate education and research, engineering education and professional programs/extension). CBHE allotted only \$4 million for targeted investments (Graduate Education and Research in the above). Governor Ashcroft, on the other hand, earmarked only a total of \$450,000 -- \$200,000 to "Food for the 21st Century" and \$250,000 to extension (commercial agriculture). The legislature

recommended \$200,000 toward "Food for the 21st Century," \$2 million toward Engineering Education (in two components: \$1 million for the Engineering Program in St. Louis; and \$1 million for existing engineering education), and \$250,000 for extension (commercial agriculture). The Legislature additionally recommended \$50,000 for a soybean plant breeder program. When subtracting the legislature's total targeted investments of \$2.5 million from their \$14 million recommended general operations appropriations increase, we find that approximately 0.9 percent of the increase is restricted.

On the capital side, the UM system recommended:

Maintenance and Repair	\$87,000,000
Facilities Rehabilitation	25,000,000
New Construction and Major Renovation	93,000,000
Capital Equipment Replacement	21,000,000
Miscellaneous - Compliance with Standards	<u>49,000,000</u>
Total	\$274,000,000

Of the above, CBHE reserved monies for maintenance and repair and renovation funds with an additional \$6 million for Ellis Library. The Governor's and House's capital recommendation both were exclusively repair and maintenance. The General Assembly recommended monies for repair and maintenance and \$340,000 in planning money for the Kansas City Research Park. UMR's share for repair and maintenance would be \$816,100, of which 90 to 90 percent is earmarked for repair of the steamline to the Bullman Multipurpose Building.

The FY1991 estimated budget for UMR's portion of state appropriations compared with expenditures (in order of priority) is attached and is based on the assumption that Governor Ashcroft will approve the budget recommendation of the general assembly. (Attachment II.C.5.b)

6. FOREIGN LANGUAGES - FRENCH/JAPANESE. As requested, Chancellor Jischke announced that due to unanimous support, the French program is to be maintained. However, there was widespread interest in support of Asian Studies (ie, History-Asian History, English-Literature of Asia), and there will be an experimental offering of an Asian language. Vice-Chancellor Thomas Coffman is exploring the possibility of funding a Japanese professorship through industry.

XIX, 7 REPORTS OF STANDING AND SPECIAL COMMITTEES.

.3

A. ADMISSIONS AND ACADEMIC STANDARDS.

1. REVISED REGULATIONS FOR REMOVING A STUDENT FROM ACADEMIC PROBATION. Prof. Thomas Herrick introduced the Committee recommendation for revision of these regulations (the addition of a cautionary notice) and moved for approval. The motion was seconded and passed.

The regulation now reads:

IX. Unsatisfactory Work 2.c. You may remove scholastic probation at the close of a fall or winter semester by raising your grade point index to meet the minimum requirements for the semester in which you are registered, provided a minimum of nine (9) credit hours are passed. Students are cautioned that removal from scholastic probation with less than 12 hours of coursework may cause ineligibility for some university programs (student financial aid, athletics, etc.). It is the student's responsibility to determine the minimum number of hours of coursework that must be passed to be eligible for these programs.

2. CO-OP TRAINING REQUIREMENTS. As indicated by Prof. Herrick, the Director of the Cooperative Training Program requested formalization of the requirements for this program. The Committee and the Director have assembled a set of rules and regulations and believe that the operation of the program could be improved with the formation of an advisory board appointed by the Vice-Chancellor for Student Affairs (not Academic Affairs, as incorrectly stated in the Committee report). This change would be referenced in the Manual of Information. Prof. Herrick moved for approval, and his motion was seconded.

Two editorial changes were noted: the Career Development Office is now called the Career Placement and Co-op Training Office; and there are eight requirements, not nine (enumeration error).

Prof. Glen Haddock moved that the Advisory Committee to the Co-op Program include students. The motion was seconded and passed.

Prof. Herrick further amended the Cooperative Training Program Rules under Item 5 as follows: "Transfer students may begin the co-op work period before they report on campus, if they have been admitted to the University the same semester they will co-op and if they have participated in a co-op program with their previous institution." Prof. Dale Elifrits seconded the amending motion which carried.

The Committee recommendation with the above amendments were approved.

3. GRADE POINT AVERAGE RULES. Prof. Herrick, per the Committee recommendation, moved that no change be made in the current regulations in calculating the cumulative grade point average. Prof. Vince Roach seconded the motion which passed.
(Attachment III.A)

B. BUDGETARY AFFAIRS.

1. NEW PROGRAMS IN STATISTICS. Prof. Carol Ann Smith reported that the Committee recommended that the Council approve the two new proposed degrees in Statistics provided that no new funds are necessary for implementation. Prof. Lance Haynes moved for approval, and Prof. Jim Pogue seconded the motion.

Prof. Frank Blum moved to amend the motion by striking the last line, "provided that no new funds are necessary for implementation" on the grounds that starting a new program will cost money. The amendment was defeated -- 7 for and 8 against.

The recommendation was approved.
(Attachment III.B.1)

2. TUITION POLICY. Prof. Smith relayed the Committee recommended that no action be taken and that the item be removed from the agenda. The Student

Council resolution was directed at the UM Task Force on Student Tuition and Fees and the Council would only be in a position to add its voice to the resolution. Prof. Jim Pogue moved for approval, Prof. Glen Haddock provided the second, and the recommendation was approved. (Attachment III.B.2)

C. CURRICULA.

1. REPORT NO. 7, 1989-90. Prof. Howell moved that the report be approved. The motion was seconded and passed. (Attachment III.C)

D. PERSONNEL.

1. QUALIFICATIONS FOR PROFESSORIAL RANKS. Prof. Vince Roach moved for approval of the recommendation to approve the revision of Policy memorandum II-10. Prof. Herrick seconded the motion, which passed.

Prof. Roach further moved that the Academic Council resolve not to permit the transfer of academic personnel to the extension program without just compensation. The motion was seconded.

Chancellor Jischke countered with, "I'm a little troubled by the spirit of this which is to suggest that there is this activity called extension which is separate and distinct from the responsibilities of the Faculty normally and that there is this program out there to which they are assigned. I would argue that the mission of this University, which is teaching, research and extension, is combined in the work of the Faculty and to create a separate category is quite inappropriate."

Prof. Frank Blum in response maintained that anxiety over the transfer of certain programs from departments to extension prompted this resolution and that the 10 percent reallocation of teaching effort to extension is more than some Academic Programs can afford.

Prof. Lance Haynes offered an amendment, which was not seconded, adding the disclaimer, "We in no way intend by passing this resolution to abrogate, deride [or] restrict the University's effort in extension."

Prof. Blum thereafter recommended that we refer the resolution back to Committee for further consultation with University administration. No

second was received. Prof. Ray Edwards moved to table the motion and Prof. Thomas Herrick provided the second. As Parliamentarian, Dale Elifrits commented that if it were remanded, the originating committee could be allowed to work on the issue without parliamentary maneuvering. Profs. Edwards and Herrick agreed to withdraw the motion to table and instead moved to return to Committee. Council passed this motion. (Attachment III.D.1)

2. UNIVERSITY OF MISSOURI SEXUAL HARASSMENT POLICY PROPOSAL. Prof. Catherine Riordan has been consulted, Committee members have had a chance to review the proposed policy, and as Prof. Vincent Roach reported, "the proposal seems to be excellent." The response deadline is June 20 and Prof. Roach will relay any comments received to Chancellor Jischke for forwarding. (Attachment III.D.2)

E. RULES, PROCEDURE AND AGENDA.

1. MEETING DATES, 1990-91. Prof. Jim Pogue introduced these proposed Council meeting dates and moved for approval. Prof. Ray Edwards seconded his motion, which carried.

F. STUDENT AFFAIRS.

1. PROCEDURES FOR STUDENT REQUESTS FOR WAIVERS OF DEADLINES. Prof. Ron Howell moved to remove from the table the previously proposed procedures. Prof. Dale Elifrits seconded the motion, and the motion passed. Prof. Ron Howell moved for approval. Prof. Glen Haddock seconded the motion. The motion carried. (Attachment III.F)

G. COMMITTEE ON EFFECTIVE TEACHING.

1. STATUS REPORT. Prof. Dale Elifrits reported that the Committee has met with Vice-Chancellor John Park a number of times since Fall 1989 to try to determine exactly what he thought the Committee should take as a charge in view of Faculty concerns over teaching effectiveness evaluation. The Committee has examined copious amounts of faculty input and has recommended that the experimental teaching effectiveness evaluation program, which the Blue Ribbon Committee assembled, be run during the Winter 1990 Semester in order to continue the experimental process. Currently it is developing an instrument which will integrate most parts of the

teaching effectiveness evaluation and which can be utilized effectively by all interested parties. Prof. Elifrits hopes to present a Committee recommendation before this group early in the Fall 1990 Semester. He asks that any comments for his Committee be put in written form.
(Attachment III.G)

- H. INTERCAMPUS FACULTY COUNCIL (ICFC). UMR members were questioned by those from UMSL regarding "unrest" over the Engineering Cooperative Program. Prof. Jim Pogue reported that the response expressed concerns over staffing costs, accreditation, program quality, the definition of "non-traditional student," the impact on the UMR campus and, in general, the lack of knowledge of the intimacies of the program's operation (additional information was requested.)

The new editor of the University Press met with ICFC members regarding its operation. Three concerns were discussed: (1) the Press' efforts toward becoming a regional press; (2) the Press' willingness, or not, to publish new controversial material, and (3) the relationship of its new editor to the Press Committee of elected faculty (principally the change to a less than advisory role). The editor suggested that she was not inclined toward becoming regional nor toward avoiding controversial subjects. However, she did stand firm that in her role as editor she really did not need Press Committee advice.

You may have seen statements in the Spectrum that there were 10,000 medical/dental claims in the first quarter. This figure is probably incorrect in as much as the new administration separated each claim into individual items. Concerning the turn-around time of 40-45 days versus the contracted 10, the previous carrier allowed a backlog to develop and then passed it along to Lincoln National at the first of the year.

The President was asked whether it was in the best interests of the University to continue to ask for funds which greatly exceeds that expected from the Legislature. He indicated that he thought it was.

XIX, 4 NEW BUSINESS.


.7

- A. UNIVERSITY OF MISSOURI TASK FORCE ON STUDENT FEES. Prof. Tom Herrick indicated that the Chair of this Committee, Chancellor George Russell, is planning

to report to the Board of Curators during their August meeting and that this would not give the Academic Council time to review the recommendation(s). Prof. Herrick indicated that he would be comfortable receiving any information/comments/advice by phone or in writing on this matter.

The meeting adjourned at 4:01 p.m.

Respectfully submitted,



Jerome A. Westphal
Secretary

Attachments: II.C.5.b
II.C.3.d
III.A
III.B.1
III.B.2
III.C
III.D.1
III.D.2
III.E
III.F
III.G

*Minutes of the Academic Council Meeting are considered official notification and documentation of actions approved.



UNIVERSITY OF MISSOURI-ROLLA

College of Arts and Sciences

Department of Philosophy

G-4 Humanities-Social Sciences Bldg
Rolla, Missouri 65401-0249
Telephone (314) 341-4869

June 6, 1990.

MEMO TO: Academic Council Members

FROM: Carol Ann Smith, Chair,
Budgetary Affairs Committee

A handwritten signature in black ink, appearing to read 'CAS', positioned to the right of the 'FROM' line.

RE: Proposed New Degrees in Statistics.

Colleagues, the Budgetary Affairs Committee has reviewed the proposal for the new degrees in Statistics.

The Budgetary Committee will recommend the following action at the June 14th Council Meeting:

RESOLVED: that the Academic Council approve the proposed degrees in Statistics (MSc and PhD in Statistics and MSc in Statistics with Emphasis in Reliability and Quality Assurance) provided that no new funds are necessary for implementation.



UNIVERSITY OF MISSOURI-ROLLA

College of Arts and Sciences

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June 6, 1990.

MEMO TO: Academic Council Members

FROM: Carol Ann Smith, Chair,
Budgetary Affairs Committee

A handwritten signature in black ink, appearing to be 'CAS', written over the 'FROM' line of the memo.

RE: UMR Student Council Resolutions on Engineering Supplemental Fee.

Colleagues, the Budgetary Affairs Committee has reviewed the attached resolutions passed by the UMR Student Council for possible action by the Academic Council.

The Budgetary Affairs Committee recommends no action be taken by the Academic Council on this matter. I will so move at the June 14th Council meeting and request that the item be removed from the agenda.

Resolution #8990R7
Meeting Date: March 6, 1990

WHEREAS: The Engineering Supplemental Fee applies only to engineering courses and is paid predominantly by engineering students, but is put into general fund for the benefit of all campus activities, and;

WHEREAS: The Engineering Supplemental Fee is charged only of engineering/mines and metallurgy students in courses co-taught by Departments of Engineering or Mines and Metallurgy and the College of Arts and Science, and;

WHEREAS: The Engineering Supplemental Fee adds 40% - 44% to base educational fees, and;

WHEREAS: The fee is "hidden" to prospective and incoming students, and;

WHEREAS: Even without the Engineering Supplemental Fee, the actual educational fees at UMR are above those at any of the other Big 8 schools, and;

WHEREAS: The Curators of the University of Missouri are planning to discuss the revision of current educational fee policy;

THEREFORE: Be it resolved that:

We, the representatives of the UMR student body, feel that the Engineering Supplemental Fee should be reduced and that a general fee increase should be considered to support the general revenue-funded activities that the Engineering Supplemental Fee now supports, and;

That any Engineering Supplemental Fee be shown to directly support engineering education, i.e., engineering curricula, engineering faculty, and engineering laboratories.

That students in co-taught courses be charged equally.

That policy guidelines be established for:

--determining need for increases of the Engineering Supplemental Fee; and

___increasing the fee.

Respectfully submitted,

Bob Phillips, President
UMR Student Council



UNIVERSITY OF MISSOURI-ROLLA

College of Arts and Sciences

Department of Chemistry

142 Schrenk Hall
Rolla, MO 65401-0249
Telephone (314) 341-4420
FAX (314) 341-6033

June 7, 1990

Memo To: Members of the Academic Council

From: Personnel Committee
Vince Roach, Chair *DVR*

RE: Revision of Policy Memo II-10,
"Qualifications for Professorial Ranks"

The Personnel Committee has held extended discussions regarding revision of Policy Memo II-10, as requested by the Council. The Personnel Committee forwards for Academic Council approval the attached Policy Memorandum titled "Qualifications for Professorial Ranks". In the course of making the revisions contained therein, the Committee received (1) recommendations from the UMR Promotion and Tenure Committee, (2) comments and background information from former Dean Marvin Barker who had previously prepared the first revised version and from Vice Chancellor of Academic Affairs, John Park.

In revising Policy Memo II-10, the Personnel Committee recognizes that the memorandum contains qualifications for academic ranks. The committee has, therefore, focussed on the principal academic activities of teaching and research/scholarship while making the assumption that all faculty members are expected to be involved in a reasonable level of service to the department and institution through committee and other activities. Extension/continuing education activities are not specifically addressed in the proposed revision, but it is to be understood that extension/continuing education encompasses an extremely broad area of activity. To the extent that a faculty member's activity in this area may be categorized as teaching and/or research/scholarship that activity shall be considered in the determination of whether or not the faculty member meets the minimum qualifications for the various academic ranks.

DVR:dms

Enclosure



UNIVERSITY OF MISSOURI-ROLLA

College of Arts and Sciences

Department of Chemistry

142 Schrenk Hall
Rolla, MO 65401-0249
Telephone (314) 341-4420
FAX (314) 341-6033

June 7, 1990

Memo To: Members of the Academic Council

From: Personnel Committee
Vince Roach, Chair *DOR*

RE: Regular Faculty Involvement in Extension Activities

The Personnel Committee, in the course of examining and recommending revisions to Policy Memo II-10, has become aware of suggestions made in certain administrative discussions that regular faculty members be "assigned" extension activities as part of their academic load.

The Personnel Committee is particularly concerned about the possibility of requiring regular faculty members to participate in extension activities without compensation to themselves or their academic department. While we feel that extension activities are an important component to the University's mission, the transfer of regular academic personnel without compensation would be detrimental to the regular academic and research program. If extension activities result in reduction of the teaching and/or research effort of faculty members, compensation should be made to their home departments. If no reduction in regular activities are made, the faculty members should be individually compensated. Therefore:

Be it resolved that the Academic Council will not permit the transfer of academic personnel to the extension program without just compensation for this effort.

DVR:dms



UNIVERSITY OF MISSOURI-ROLLA

Academic Council

Curtis Wilson Library
Rolla, Missouri 65401-0249
Telephone (314) 341-4972

MEETING DATES

1990-91

Rules. Procedures. & Agenda Committee

Tuesday. August 28. 1990
Thursday. October 11. 1990
Tuesday. November 13. 1990
Thursday. January 10. 1991
Tuesday. March 12. 1991
Thursday. April 11. 1991
Thursday. June 6. 1991

Academic Council

Thursday. September 13. 1990
Thursday. October 25. 1990
Thursday. November 29. 1990
Thursday. January 24. 1991
Thursday. March 28. 1991
Thursday. April 25. 1991
Thursday. June 20. 1991

General Faculty

Tuesday. September 4. 1990
Tuesday. December 4. 1990
Tuesday. April 23. 1991



UNIVERSITY OF MISSOURI-ROLLA


Attachment II.C.3.d

Academic Council

Curtis Wilson Library
Rolla, Missouri 65401-0249
Telephone (314) 341-4972

June 22, 1990

TO: Faculty representatives to the Academic Council

FROM: Donald R. Askeland 
President, Academic Council

RE: Cooperative Engineering Program in St. Louis

At a recent Intercampus Faculty Committee meeting, UMR's representatives were asked why UMR faculty are uncooperative in regards to offering engineering degrees to nontraditional students in St. Louis. One of the responses from our representatives was that the UMR faculty are generally unaware of the details of the proposal. Our IFC representatives, acting through the Rules, Procedures, & Agenda Committee, asked that these details be provided to the Academic Council.

At the June 14 Council meeting, Chancellor Jischke provided me with copies of (1) the Board of Curators Policy on Engineering Education, (2) the proposal to the Coordinating Board for Higher Education, and (3) a letter to Legislative leaders. These are included for your information. (Note that I did not include several pages from the CBHE proposal, which contained no relevant information, in an effort to minimize bulk.) I hope that you will share these copies with colleagues in your department.

You might note that, according to this plan, students in the cooperative program are expected to require 5 years to complete the upper division engineering courses, after the 68 hours of pre-engineering coursework have been completed.

ENGINEERING EDUCATION

It is the policy of the Board that its two established Engineering schools at UMC and UMR have statewide missions and must serve as the core of the University's response to Engineering access in the urban areas and elsewhere in the State. This policy is particularly compelling with regard to the University of Missouri-Rolla, which serves as Missouri's lead engineering and technological university. Even as we seek collaboration with other sectors of colleges and universities, we affirm that the long-term solution to the State's engineering needs must rest within the University of Missouri System and its two Engineering schools.

On the recommendation of President C. Peter Magrath, the Board of Curators requests that the President, the Chancellors, and the faculty take the following steps towards meeting the needs for improved access to engineering and technological education in Missouri. These steps are to be contingent upon the availability of resources and should be within the context of already established University priorities:

Therefore:

- (1) To improve access in Kansas City, the Chancellors of UMC and UMKC should continue to work cooperatively to accomplish these objectives:
 - (a) combine the existing UMC/UMKC cooperative programs at the graduate and undergraduate levels with the UMKC programs in Computer Science and Telecommunications to form an Institute for Science and Technology;
 - (b) strengthen these programs and add new opportunities, particularly at the doctoral level, by adding new engineering faculty (approximately 35 FTE) and staff; and, in time, move these programs into a new facility to be established in, or near, the UMKC North Campus Development Project.
- (2) To improve access in St. Louis, the Chancellors at UMR and UMSL should work cooperatively to accomplish these objectives:
 - (a) provide undergraduate degree programs in electrical and mechanical engineering for part-time students (nontraditional students);
 - (b) if there is mutual interest, involve Washington University as an interim partner in doing so;

- (c) award the degrees and administer the programs on a joint UMR and UMSL basis;
 - (d) seek CBHE approval for a cooperative program; and,
 - (e) in time, consolidate the new undergraduate programs, and the existing UMR Engineering Education Center under a single director in an appropriate new facility in the science complex on the UMSL campus (the Director would report to the two Chancellors).
- (3) To improve access in other parts of the State, the Chancellor at UMR is asked to:
- (a) continue to assess statewide needs for engineering education for part-time students (nontraditional students) and to develop plans for meeting these needs through telecommunications and satellite technology;
 - (b) develop plans for meeting these needs through the integration of classroom instruction, telecommunications and satellite technology.



Office of the Vice President for Academic Affairs

February 2, 1990

309 University Hall
Columbia, Missouri 65211
Telephone (314) 882-6361

UNIVERSITY OF MISSOURI SYSTEM

Dr. Michael McManis, Associate Commissioner
 Planning and Academic Programs
 Coordinating Board for Higher Education
 101 Adams Street
 Jefferson City, MO 65101

Dear Michael:

Enclosed are three copies of a proposal for a University of Missouri-St. Louis/University of Missouri-Rolla cooperative undergraduate degree program in Electrical Engineering and Mechanical Engineering. The University of Missouri Board of Curators approved this proposal as a component of a plan to meet statewide engineering educational needs at its meeting on May 5, 1989. The Board reviewed the proposal at its meeting on January 25, 1990, and authorized the submission of the proposal to the CBHE. This proposal contains both of the undergraduate engineering degree programs that were "grandfathered" for the St. Louis campus when your new policies came into effect.

You will note that this is a cooperative intercampus degree program between the University of Missouri-St. Louis and the University of Missouri-Rolla. Although we are still discussing with Washington University the extent and terms of their involvement, we anticipate Washington University will play a significant role during the initial stages of this program. Even though this is a cooperative program, its formulation required special efforts to determine the needs for such programs in the state and especially in the urban areas and to make a determination of the additional resources needed to implement the program. Because of this, we decided to subject it to the more rigorous procedures used for new degree programs.

I will be pleased to provide additional information about the degree program if needed.

Sincerely,

Arvarh E. Strickland
 Associate Vice President
 for Academic Affairs

jt

Enclosures

cc: Chancellor William H. Danforth
 President C. Peter Magrath
 Chancellor Marguerite R. Barnett
 Chancellor Martin C. Jischke
 Vice President Richard L. Wallace ✓

COLUMBIA KANSAS CITY ROLLA ST. LOUIS

Attachment II.C.5.b

Academic Council

June 14, 1990

FY90 UPDATE

FY91 BUDGET

° Status Report on State Appropriations

° Preliminary Estimates

Revenue (excluding targeted investments)	
State appropriations (4.0%)	\$1,353,195
Nonstate funds (5.2%)	<u>773,963</u>
Total	\$2,127,158

Expenditures	
Mandatory	194,356
Salary and Wage (5.0%)	1,552,985
Expense and Equipment (3.0%)	196,629
Student Recruitment and Retention (recruiting expenses, teaching professorship, advising and teaching support, Mathematics position, telephone registration)	124,536
Other (minority faculty position, Curators professor, Staff Council)	70,150
Total	<u>\$2,138,656</u>

Targeted Investments	
Opening Castleman Hall	\$ 110,000
Engineering Equipment	\$ 320,200
Instructional Computing	\$ 240,000
Preservation	\$ 816,100



UNIVERSITY OF MISSOURI-ROLLA

Department of Philosophy

G-4 Humanities-Social Sciences Bldg.
Rolla, Missouri 65401-0249
Telephone (314) 341-4869

June 6, 1990.

MEMO TO: Academic Council Members

FROM: Carol Ann Smith, Chair,
Budgetary Affairs Committee

A handwritten signature in black ink, appearing to be 'CAS', written over the 'FROM' line of the memo.

RE: Proposed New Degrees in Statistics.

Colleagues, the Budgetary Affairs Committee has reviewed the proposal for the new degrees in Statistics.

The Budgetary Committee will recommend the following action at the June 14th Council Meeting:

RESOLVED: that the Academic Council approve the proposed degrees in Statistics (MSc and PhD in Statistics and MSc in Statistics with Emphasis in Reliability and Quality Assurance) provided that no new funds are necessary for implementation.



UNIVERSITY OF MISSOURI-ROLLA

Attachment III.B.2

College of Arts and Sciences

Department of Philosophy

G-4 Humanities-Social Sciences Bldg.
Rolla, Missouri 65401-0249
Telephone (314) 341-4869

June 6, 1990.

MEMO TO: Academic Council Members

FROM: Carol Ann Smith, Chair,
Budgetary Affairs Committee

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RE: UMR Student Council Resolutions on Engineering Supplemental Fee.

Colleagues, the Budgetary Affairs Committee has reviewed the attached resolutions passed by the UMR Student Council for possible action by the Academic Council.

The Budgetary Affairs Committee recommends no action be taken by the Academic Council on this matter. I will so move at the June 14th Council meeting and request that the item be removed from the agenda.

Attachment III.B.2

Resolution #8990R7

Meeting Date: March 6, 1990

WHEREAS: The Engineering Supplemental Fee applies only to engineering courses and is paid predominantly by engineering students, but is put into general fund for the benefit of all campus activities, and;

WHEREAS: The Engineering Supplemental Fee is charged only of engineering/mines and metallurgy students in courses co-taught by Departments of Engineering or Mines and Metallurgy and the College of Arts and Science, and;

WHEREAS: The Engineering Supplemental Fee adds 40% - 44% to base educational fees, and;

WHEREAS: The fee is "hidden" to prospective and incoming students, and;

WHEREAS: Even without the Engineering Supplemental Fee, the actual educational fees at UMR are above those at any of the other Big 8 schools, and;

WHEREAS: The Curators of the University of Missouri are planning to discuss the revision of current educational fee policy;

THEREFORE: Be it resolved that:

We, the representatives of the UMR student body, feel that the Engineering Supplemental Fee should be reduced and that a general fee increase should be considered to support the general revenue-funded activities that the Engineering Supplemental Fee now supports, and;

That any Engineering Supplemental Fee be shown to directly support engineering education, i.e., engineering curricula, engineering faculty, and engineering laboratories.

That students in co-taught courses be charged equally.

That policy guidelines be established for:

--determining need for increases of the Engineering Supplemental Fee; and

__increasing the fee.

Respectfully submitted,

Bob Phillips, President
UMR Student Council



UNIVERSITY OF MISSOURI-ROLLA

Attachment III.D.1

College of Arts and Sciences

Department of Chemistry

142 Schrenk Hall
Rolla, MO 65401-0249
Telephone (314) 341-4420
FAX (314) 341-6033

June 7, 1990

Memo To: Members of the Academic Council

From: Personnel Committee
Vince Roach, Chair *DVR*

RE: Revision of Policy Memo II-10,
"Qualifications for Professorial Ranks"

The Personnel Committee has held extended discussions regarding revision of Policy Memo II-10, as requested by the Council. The Personnel Committee forwards for Academic Council approval the attached Policy Memorandum titled "Qualifications for Professorial Ranks". In the course of making the revisions contained therein, the Committee received (1) recommendations from the UMR Promotion and Tenure Committee, (2) comments and background information from former Dean Marvin Barker who had previously prepared the first revised version and from Vice Chancellor of Academic Affairs, John Park.

In revising Policy Memo II-10, the Personnel Committee recognizes that the memorandum contains qualifications for academic ranks. The committee has, therefore, focussed on the principal academic activities of teaching and research/scholarship while making the assumption that all faculty members are expected to be involved in a reasonable level of service to the department and institution through committee and other activities. Extension/continuing education activities are not specifically addressed in the proposed revision, but it is to be understood that extension/continuing education encompasses an extremely broad area of activity. To the extent that a faculty member's activity in this area may be categorized as teaching and/or research/scholarship that activity shall be considered in the determination of whether or not the faculty member meets the minimum qualifications for the various academic ranks.

DVR:dms

Enclosure



UNIVERSITY OF MISSOURI-ROLLA

Attachment III.E

Academic Council

Curtis Wilson Library
Rolla, Missouri 65401-0249
Telephone (314) 341-4972

MEETING DATES

1990-91

Rules. Procedures. & Agenda Committee

Tuesday, August 28, 1990
Thursday, October 11, 1990
Tuesday, November 13, 1990
Thursday, January 10, 1991
Tuesday, March 12, 1991
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Thursday, November 29, 1990
Thursday, January 24, 1991
Thursday, March 28, 1991
Thursday, April 25, 1991
Thursday, June 20, 1991

General Faculty

Tuesday, September 4, 1990
Tuesday, December 4, 1990
Tuesday, April 23, 1991



UNIVERSITY OF MISSOURI-ROLLA

Academic Council

Curtis Wilson Library
Rolla, Missouri 65401-0249
Telephone (314) 341-4972

SUMMARY
ACADEMIC COUNCIL MEETING
June 14, 1990

President Askeland announced the results of the ballot concerning by-law changes: the General Faculty approved the proposed change for a search committee for a department chair, but did not approve the change for a dean search committee. He also reminded employees that disclosure forms for potential conflict of interest are available from each unit.

Askeland also noted that a serious attempt is underway to put a proposal for increased university funding before the voters in a June, 1991 ballot. As a part of this effort, UMR employees (both faculty and staff) are asked to participate in this process. The Missouri Higher Education Consortium (MOHEC) has recently been formed and is made up of faculty representatives from all of the colleges and universities in Missouri. MOHEC's first newsletter has been created and Askeland will arrange to have copies sent to each faculty member at UMR. Part of the planning for the funding drive includes establishing committees of faculty and/or staff at each campus by Labor Day. Askeland pleaded for volunteers or suggestions for volunteers to participate in this activity.

President Askeland also announced the formation of an ad hoc committee (composed of Tom Herrick, Bob Wolf, Vince Roach, Myron Parry, and Luke Peterson) to provide a recommendation to the Academic Council concerning the awarding of diplomas at Commencement.

Finally, Askeland reported on a visit to Bradley University with a group of UMR staff and faculty to discuss telephone registration: he noted that many of the fears that faculty might have concerning the effect on student advisement can be alleviated by appropriate controls. Administration, staff, and students at Bradley appear to be very pleased with their system.

Chancellor Jischke transmitted reports to the Academic Council concerning Research Enhancement, Greek Life, and Retention; these reports will be referred to appropriate Council Committees for review. In addition, the plans for the cooperative engineering program in St. Louis, which were approved by the Board of Curators earlier this year, were shared with the Council. President Askeland will make these plans available to Council members. The Chancellor reported on the latest activities of the Missourians for Higher Education, remarked about the successful kick-off of the Opportunities for Undergraduate Research Experience program, and announced that French will continue to be offered, along with additional exposure to Asian studies. The desirability of a teaching professorship, similar to the existing Curators' Professorships, was also discussed.

Finally, Chancellor Jischke provided the Council with a budget update. Salaries are expected to increase by 5%, while an average increase in E&E of 3% is expected. Of the increase in E&E, 2% will be across the board, while the remaining 1% will be allocated to those departments which have

unusually low E&E/faculty ratios. Several mandated budget expenses were noted, including opening and operation of Castleman Hall (expected in Spring, 1991) and desperately needed repairs to the steam line to the Multipurpose Building.

Several actions were taken in response to committee reports. Among other items, the Cooperative Training Program eligibility requirements, which have evolved over the years, were reviewed by the Admissions and Academic Standards Committee and were formally approved by the Council; these requirements will be referenced in the Manual of Information. Council approved a resolution from Budgetary Affairs noting that the new degree programs in Statistics are approved only if new funds are not required. The Budgetary Affairs Committee reviewed a Student Council resolution concerning the Engineering Supplementary Fee and the Council followed the committee's recommendation that the faculty take no action. The Council approved a revised policy memorandum concerning Qualifications for Professorial Rank that was offered by the Personnel Committee. The committee report noted that the most important criteria for promotion are teaching and research; extension activities can typically be categorized as either teaching or research while service is an expected function of faculty. The 1990-91 meeting dates for the Academic Council and the General Faculty, offered by Rules, Procedures, & Agenda, were approved:

General Faculty: September 4, December 4, April 23

Academic Council: September 13, October 25, November 29,
January 24, March 28, April 25, June 20

A set of procedures for requests of waivers of deadlines, such as medical withdrawal dates, reviewed by the Student Affairs Committee, was approved. The Committee for Effective Teaching reported that the teaching evaluation procedure recommended by the Blue Ribbon Committee has been carried out as a trial run during the past year. The CET is formulating plans for next year: the committee believes that written comments by students are important, evaluation of teaching effectiveness must be multi-faceted, the evaluation process must be time efficient and non-threatening, teaching evaluation should not be confused with assessment of educational outcomes, and effective teaching data are an important part of each faculty member's performance history. Professor Elifrits encouraged written faculty input concerning changes in the evaluation process that might be put into effect in future years. The last Inter-campus Faculty Committee meeting focussed largely on the cooperative program to extend undergraduate engineering to the St. Louis area: our representatives indicated that part of the UMR faculty reluctance to embrace the program is lack of information concerning the details of the program. Our representatives hope that the wider circulation of the plans submitted to the Board, which will be made available to all Council representatives, will be of help.

The final item of discussion concerned the President's task force on tuition: Professor Herrick, UMR's faculty representative, seeks input from the faculty, particularly concerning increases in student tuition and fees. Indications are that the chair of the task force wishes to have a report by August, too early for any formal Council action. Faculty are encouraged to contact Professor Herrick with their comments.

Academic Council

June 14, 1990

FY90 UPDATE

FY91 BUDGET

° Status Report on State Appropriations

° Preliminary Estimates

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Expense and Equipment (3.0%)

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Student Recruitment and Retention

124,536

(recruiting expenses, teaching
professorship, advising and teaching
support, Mathematics position,
telephone registration)

Other

70,150

(minority faculty position, Curators
professor, Staff Council)

Total

\$2,138,656

Targeted Investments

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\$ 110,000

Engineering Equipment

\$ 320,200

Instructional Computing

\$ 240,000

Preservation

\$ 816,100



UNIVERSITY OF MISSOURI-ROLLA

College of Arts and Sciences

Department of Mathematics and Statistics

326 Mathematics-Computer Science Building
Rolla, Missouri 65401-0249
Telephone (314) 341-4641

June 1, 1990

I nominate Troy L. Hicks
as my replacement at
the June 1~~7~~, 1990, meeting
of the Academic Council.

Alders Trimble

6-14-90

J.W. Johnson substituting for
N.C. Book, Chem Engr Dept representative.

SPECTRUM

News for faculty and staff from the May 3-4 Board of Curators meeting, UM-Rolla

Budget planning for fiscal 1991 awaits final action on the University's appropriations by the General Assembly and the governor, but current projections indicate the total operating budget could increase about 4.5 percent after dedicated and earmarked revenues are excluded. Faculty and staff salaries will be given a high priority in plans for allocating new funds, President Magrath told curators, and he hopes the pay increases can average 5 percent. Curator Peter Raven called a 5 percent increase "so inadequate it can only be described as pitiful. The fiscal and morale state of this University continues to decline. It becomes increasingly more difficult to sit on this board and watch it happen. You do begin to wonder what kind of fairyland you're dealing with." The board will consider the FY91 budget at its June meeting.

Newton Cattell, director of the Midwestern Universities Alliance, gave curators a briefing on federal issues affecting higher education. The Alliance has opposed the taxation of student workers for Social Security taxes. It also has initiated a Consortium for Defense Research and Development, which will pair 14 historically black and seven historically white colleges and universities to seek Department of Defense research contracts.

Working drafts of new mission statements for the University System and each campus were reviewed. Mark Burkholder, associate vice president for academic affairs, discussed the ideal characteristics of a mission statement. Vice President Richard Wallace addressed a postscript to faculty representatives in the audience: "We have not forgotten that we work together with the faculty, particularly on an important statement like this, and we will work with you every step of the way. We need mission statements that are supported not only by the board, but also by the faculty."

The board gave its approval for the University to enter into an agreement with the Missouri State Cancer Commission for the transfer of Ellis Fischel State Cancer Center in Columbia to the University.

Curator John Lichtenegger suggested the possibility of raising the minimum number of faculty members who can petition a chancellor to call a special faculty meeting. Academic Affairs Committee Chairman Peter Raven asked administrators to prepare a report on that possibility for future board discussion.

Awards and honors: Three faculty members received \$4,000 Burlington Northern Faculty Achievement Awards for outstanding teaching: George F.W. Hauck, professor of civil engineering in the UMC/UMKC cooperative engineering program; John L. Bullion, professor of history at UMC; and Hans W. Uffelmann, professor of philosophy and medicine at UMKC.

Next meeting: June 21-22, Springfield