

The background features a grayscale image of a mechanical gear system on the left and a vertical ruler in the center. The ruler is labeled 'Flexible Stainless Steel Ruler' and has markings from 1 to 30. The year '1999' is printed in large, bold, black font on the right side of the ruler.

1847 150 1999
EASTERN MICHIGAN
UNIVERSITY

1999

College
of
& Arts
Sciences

Undergraduate
Symposium
XIX

WELCOME TO SYMPOSIUM XIX

For 19 consecutive years, increasing numbers of EMU students have displayed their scholarship and creativity in this distinctive annual event. Working together with dedicated faculty as advisers and mentors, they have experienced and exemplified the highest ideals of our learning University.

Although the Symposium originated within the College of Arts and Sciences, it has expanded in recent years to include students from throughout the University. I am therefore pleased to welcome students, faculty, sponsors and guests from all of EMU's colleges to today's events and activities.

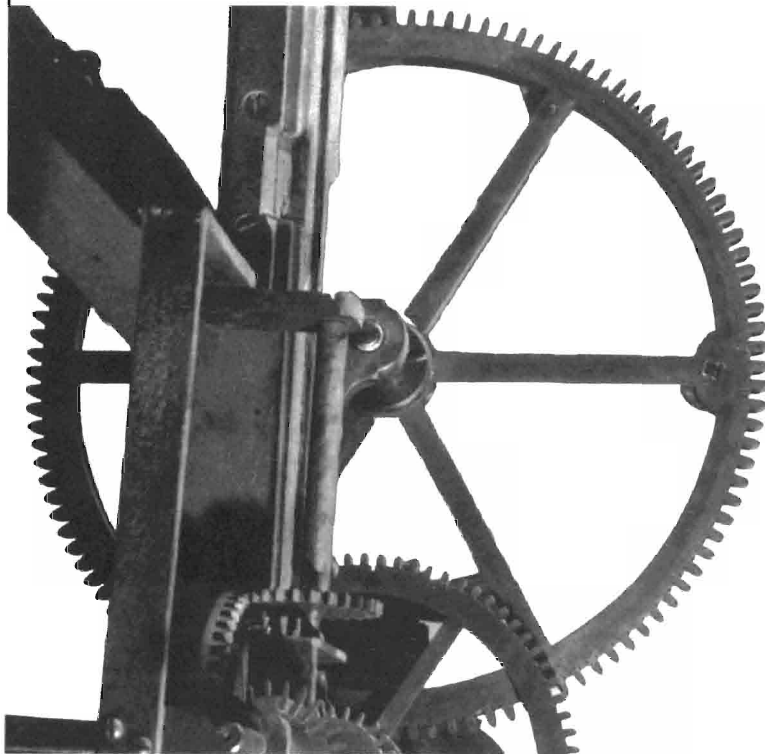
Many persons working together make the Symposium successful. Members of the Symposium Planning Committee, once again headed by longtime chair Dennis Beagen, merit special acknowledgment. I take particular pleasure in welcoming our distinguished keynote speaker, Andrei Codrescu, and look forward with you to learning from him.

Hearty congratulations go to the students who are presenting their outstanding achievements today, and to numerous faculty and family members, sponsors and guests, for their essential support. I hope you enjoy this year's Symposium and welcome you to celebrate excellence with us.

Cordially,



Barry Fish, Dean
College of Arts and Sciences



Schedule

Of Events

8:30 - 9:45 a.m.

Session A

Student Presentations
McKenny Union
1st and 2nd Floor Rooms

9 a.m. - 12:30 p.m.

Poster Presentations

Guild Hall
2nd Floor

10 - 11:15 a.m.

Session B

Student Presentations
McKenny Union
1st and 2nd Floor Rooms

11:30 a.m. - 12:45 p.m.

Session C

Student Presentations
McKenny Union
1st and 2nd Floor Rooms

1 - 2:30 p.m.

Symposium Luncheon

McKenny Union Ballroom
Luncheon Speaker: Andrei Codrescu
Professor of English
Louisiana State University
Student Emcee: Andrew Milstein
Political Science

College
of
Arts
&
Sciences



Undergraduate
Symposium
XIX

Friday

March 26

1999

Poster Presentation Abstracts

COLLEGE OF ARTS AND SCIENCES

Department of Biology

STACY ALLEN

- Professor Robert Winning, Sponsor

Effect of Pagliaccio Inhibitory Peptides on Amphibian Embryos. Pagliaccio is a receptor that is developmentally regulated in amphibian embryos. To examine its function in embryos, peptides designed to inhibit Pagliaccio function were injected into single-cell amphibian embryos, and the effects of the peptides (and therefore the effects of inhibition of Pagliaccio) were assessed by examining embryonic morphology at various stages of development.

NEIL NOBLE

- Professor Michael Angell, Sponsor

Identification of the 5' and 3' Ends of a Putative CD40 Homologue by RACE-PCR. Recent reports of the expression of the CD40 protein on human keratinocytes indicate it may play a role in immune processes in the skin. We have previously cloned 231 nucleotides of a putative rabbit CD40 homologue. This report describes attempts to clone both the 5' and 3' ends of this cDNA by using the RACE-PCR technique. Analysis of sequence homology between the cloned segments and previously reported human, bovine and mouse CD40 sequences will be presented.

ALEX PARKER

- Professor Michael Angell, Sponsor

In Vitro Expression of a Rabbit CD40 cDNA Fragment. Immunoregulatory proteins expressed on the surface of keratinocytes may be important in immune system recognition of virus infections of the skin. In order to generate antibodies to detect the cell surface expression of one such protein (CD40), we have subcloned and expressed a rabbit CD40

cDNA fragment in a mouse fibroblast cell line. Successful expression of this cDNA was verified by protein detection using antibodies directed to a vector-encoded epitope tag.

MELISSA RAYNOR and KWESI BOOKER

- Professor David Kass, Sponsor

Identification of Recent Integrations of the Mouse B1 Transposable Element. An evolutionary analysis depicts four different subfamilies of B1 transposable elements as recently mobile. By scanning the genomic database, 10 genetic loci containing these "young" B1 elements were identified. Use of the polymerase chain reaction technique identified that B1 elements representing three subfamilies were recently integrated in the mouse genome. This implies that there are concurrently active B1 master genes.

TAMMY WHISMAN

- Professor Glenn Walker, Sponsor

Differentiated IMR32 Neuroblastoma Cells as Appropriate Models for the Identification of Neuronal (N-type) Voltage-gated Calcium Channel Blockers. Voltage-gated calcium channels are integral proteins that change conformation, upon depolarization of the plasma membrane, and form a pore through which calcium enters the cell. The N-subtype of calcium channel, found only in neurons, is blocked by a component of cone snail venom, conotoxin MVIIA. This study investigates differentiated IMR32 human neuroblastoma cells as a potential model for testing drugs that block N-type channels. An assay protocol for such testing is also defined.

THOMAS WILLIAMS

- Professor David Kass, Sponsor

Identification of DNA Alterations of Cancerous Breast Tissue by Interspersed Repeat Sequence Polymerase Chain Reaction (IRS-PCR). The

Poster Presentation Abstracts

genetic basis of breast cancer is heterogeneous in origin, thus requiring an assessment of the entire genome for detection of impacting DNA alterations. Application of the technique of Interspersed Repeat Sequence polymerase chain reaction yielded a unique DNA profile representing a subset of the genome. DNA alterations can then be identified by comparison of the generated DNA profiles between both cancerous and normal breast tissue DNA by using high-resolution agarose gel electrophoresis.

TAMARA WOOD

- Professor Robert Winning, Sponsor
Scanning Electron Microscopy (SEM) Analysis of *Xenopus Laevis* Renal Epithelial Cells and the Effect of Pagliaccio (Pag) on Cell Morphology. Pagliaccio is a receptor tyrosine kinase that appears to alter cell morphology when expressed at high levels in *Xenopus laevis* embryos. *Xenopus* kidney epithelial cells have a characteristic morphology and thus can serve as a controlled environment in which to test the effects of Pag activity. Pag was expressed in these cells, which were then analyzed using SEM to observe any morphological changes that occurred.

Department of Chemistry

CHADD S. CORWIN

- Professor Steven J. Pernecky, Sponsor
Neurological Pathogenesis from Impaired Liver Function. Key intermediates in the citric acid cycle also play important roles in the transport of ammonia from muscle to the liver, where it is processed for excretion as urea. These same intermediates are readily taken up into dopamine receptor-containing cells in the thalamus. Parkinsonism is marked by death of these cells. When urea formation in the liver is impaired,

accumulation of ammonia may cause toxicity in thalamic cells, which leads to Parkinson's disease.

HRANT P. HRATCHIAN

- Professor Maria C. Milletti, Sponsor
Theoretical Investigation of the Degree of Bonding in Five Silylene Complexes. Five compounds, $\text{Cp}^*(\text{PMe}_3)_2\text{RuSi}[\text{S}(\text{Tol-p})]_3$, $\text{Cp}^*(\text{PMe}_3)_2\text{RuSi}[\text{S}(\text{Tol-p})]_2\text{Otf}$, $\text{Cp}^*(\text{PMe}_3)_2\text{RuSi}[\text{S}(\text{Tol-p})]\text{Otf}_2$, $\{\text{Cp}^*(\text{PMe}_3)_2\text{RuSi}[\text{S}(\text{Tol-p})]_2(\text{NCMe})\}\text{BPh}_4$, $[\text{Cp}^*(\text{PMe}_3)_2\text{RuSiMe}_2(\text{NCMe})]\text{BPh}_4$, where $\text{Cp}^* = \eta^5\text{-C}_5\text{Me}_5$ and $\text{Otf} = \text{OSO}_2\text{CF}_3$, were studied to investigate the relative stability of the silicon center as compared to the reference complex $\text{Cp}^*(\text{PMe}_3)_2\text{RuSi}[\text{S}(\text{Tol-p})][\text{Os}(\text{CO})_4]$. *Ab initio* molecular orbital calculations were performed on this group of molecules to determine which factors influence the magnitude and location of π electron density in the Ru - Si - S bonds.

GREG MISZTURA

- Professor Steven J. Pernecky, Sponsor
Oxidation of Substituted N,N-Dimethylanilines by Cytochrome P450: Analysis of Molecular Orbital Characteristics Through the Use of Molecular Modeling Software. The redox potentials of N, N-dimethylaniline and eight para- or meta-substituted N, N-dimethylanilines were determined experimentally in other laboratories and correlated with the rate constants of product formation for each compound to obtain evidence for one-electron oxidation as the rate-limiting step in catalysis. Molecular modeling software has been used to attempt to correlate molecular orbital characteristics with the experimental data, thereby enabling prediction of kinetic data for metabolism of other substrates by P450.

Poster Presentation Abstracts

SANDRA L. PARENT

- Professor Jose C. Vites, Sponsor

An Undergraduate Experiment for the Analysis of Organic Carbon in Soils. Because of increasing industrial activities and farming, soils accumulate a variety of organic pollutants. To reverse pollution, knowing the natural organic content of soils is necessary. This analysis uses the dry oxidation method employing CuO as a catalyst.

CHRIS ZYSKOWSKI

- Professor Vance Kennedy, Sponsor

Design and Synthesis of Subphthalocyanine Derivatives for Use in Light-Based Tumor Therapy. A series of four subphthalocyanine derivatives has been synthesized by a mixed cyclization reaction. Each compound has been thoroughly characterized by NMR and UV/Vis spectroscopy. The visible spectra of the compounds span a range of nearly a hundred nanometers.

*Department of Communication
and Theatre Arts*

SALLY L. CONVERSE DOUCETTE

- Professor Katie Strand-Evans, Sponsor

Producing Synthetic Semi-Precious Stones with Polymer Clay. Believable looking semi-precious stones can be made using Fimo or Sculpy polymer clays. This presentation explains details of the materials and methods developed to transform flat-colored clay into gleaming, translucent baubles.

MICHAEL W. LEMIEUX

- Professor Kerry Graves, Sponsor

Original Hair and Make-up Design for Lionel Bart's *Oliver*. This project shows the hair and make-up designs for EMU's production of *Oliver*. Wigs, facial hair and make-up showed

the characters' economic status and brought the characters to their proper historic period. These designs came to life through reading the script and collaborating with the other designers involved in the production.

Department of Fine Arts

PHILLIP RIZZI

- Professors Fredrick Hunter and Bob Chew, Sponsors

The Development of a Jewelry Area Web Site. This project seeks to design and construct a dynamic, maintainable web site for the jewelry area within EMU's Fine Arts Department. It explores the use of essay, still digital images, virtual panoramas and sound files to represent student work within a studio environment. Other considerations include the effect of tools on the discipline of metalsmithing, anecdotal versus substantial user interactivity, backward browser compatibility, minimizing page size, and utilizing an appropriate, WWW-specific design vocabulary.

*Department of Geography and
Geology*

CHRISTOPHER M. GORDON

- Professor Michael Bradley, Sponsor

Geologic Hot Spots: The Emperor Seamount-Hawaiian Islands Example. Geologic hot spots are relatively stationary localized areas of high heat flow in the mantle that cause localized melting of the lithosphere (tectonic plate) passing over them, leaving a definable path. Absolute dating of the volcanic rocks and distances traversed permits determination of velocities for the plates that move over these hot spots. For the Emperor Seamount-Hawaiian Island chain, the calculated velocity for the Pacific plate is 9.45 cm/yr.

Poster Presentation Abstracts

M. CATHERINE JONES

- Professor Ted Ligibel, Sponsor

The Oxford Phoenix: The Evolution of the Warren G. Lombard House 1897-1998. The process of restoring and rehabilitating a multi-family dwelling unit used as a University of Michigan fraternity house to its original design as a residential single family home is chronologically illustrated, including internal and external structural adaptations, floor plan modifications, community impact and historic synopsis.

Department of Mathematics

MINDE BOLZ

- Professor David Folk, Sponsor

An Emerging Scholars Program Pilot. This project seeks to enable students to gain a greater understanding of the topics developed in calculus through a learning experience incorporating lecture, daily homework and quizzes, 2 two-hour weekly workshops with challenging and application-type problems, regular get-togethers, and a faculty mentor for each student. The emphasis of this project is on building community and teamwork skills among students, tutors and faculty.

KARL FRINKLE

- Professor Kenneth Shiskowski, Sponsor

Chaotic Behavior in the Lorenz System. This project examines the Lorenz system of differential equations for chaotic behavior and analyzes some of its amazing properties. The analysis uses the software Maple V Release 5.

STEVEN MARK and GARY VANDERWILL

- Professor Kenneth Shiskowski, Sponsor

Fantastic Fractal Imaging. This project

examines how fractal images can be generated by random (affine) function iteration and can be used to reproduce, store, and manipulate complicated color images. The analysis uses the software Maple V Release 5.

Department of Physics and Astronomy

TAMI EVANS

- Professor Diane Jacobs, Sponsor

Astronomical Investigations: Hands-on Projects for Grades K-6. The curriculum of a typical university-level astronomy class rarely focuses on how to teach the material. The end result is that many pre-service elementary teachers store the information without any plans to disseminate what they learned. A small group of EMU students who took a new hands-on, project-based course after the traditional astronomy class will present an overview of the course and display specific projects from the class.

Department of Psychology

JASON R. ANGIONE

- Professor Silvia von Kluge, Sponsor

People's Beliefs in Nature-Nurture and Where They Got 'em. A 51-item survey on beliefs about the relative influence of nature and nurture on human characteristics such as aggression, risk-taking, and humor was administered to 200 participants (88% non-student). Descriptive and multivariate analyses focused on the differences between the beliefs of men and women, and among ethnic groups. Rated most biologically determined was "emotional bonding between mother and child," and rated most socially determined was "prejudice." The reported sources of these beliefs differed according to demographic variables.

Poster Presentation Abstracts

SUZANN SHAFER

- Professor Elliott Bonem, Sponsor

Implementing an Alternative Form of Communication with a Developmentally Disabled Individual. This project demonstrates the progress of one nonverbal, developmentally disabled individual by using the Picture Exchange Communication System (PECS). PECS allowed the individual to enhance his communication skills with non-signing individuals. In five sessions, the individual acquired 52 new picture symbols that can be used in communication. The individual exceeded all objectives. Follow-up data is not included, due to the continuance of the program.

JULIE SMITH

- Professor Dennis Delprato, Sponsor

Needs Analysis of Parents of Autistic Children. Results of this study indicate how parents of autistic children rate the effectiveness of behavioral intervention, whether they believe their school district needs more information and expertise on providing behavioral intervention, parents' evaluations of local schools, and other concerns.

KATHRYN M. WRUBEL

- Professor Kenneth W. Rusiniak, Sponsor

Mouse Strain Differences in Radial-Maze Performance. Comparisons were made of the performance of different genetic strains of mice on acquisition of various response schedules in an automated radial-arm maze. Strain differences were evident in the acquisition of these schedules. This study will be used to validate this procedure as a model for further research examining the performance of a transgenic strain of mice which overexpresses certain Alzheimer's-related proteins.

COLLEGE OF HEALTH AND HUMAN SERVICES

Department of Associated Health Professions

SARA A. ARNDT

- Professor Sandra L. Drake, Sponsor

Differences and Similarities of Reptilian, Amphibian and Mammalian Blood Cells. Blood consists of red blood cells, white blood cells and platelets that function in oxygen delivery, immune defense and hemostasis. This study compares and contrasts the morphologic structure and function of red blood cells, white blood cells and platelets between humans and other mammals.

BETH ELEY

- Professor Sandra L. Drake, Sponsor

A Study of *Helicobacter pylori* on the Campus of Eastern Michigan University. *Helicobacter pylori* is associated with the cause of various gastrointestinal diseases, including duodenal and gastric ulcer, non-ulcer dyspepsia, and active and chronic gastritis. This presentation focuses on how a student's age and/or nationality correlates with a positive *H. pylori* test.

Session A

Alumni Room 2nd Floor

Moderator:

Edward Sidlow

- 8:30 a.m. 1. **DANIEL SIMMONS** - Professor Heather Smith, Sponsor
Application of Chemometric Techniques to the Separation of Complex Chemical Mixtures.
Chemistry
- 8:45 a.m. 2. **JASON L. SONNENBERG** - Professor Maria C. Milletti, Sponsor
Ab initio Investigation of the Synthesis of (3-(2,3,4,5-tetramethylcyclopentadienyl) propoxy) titanium Dichloride.
Chemistry
- 9:00 a.m. 3. **TRACY L. WENZLICK** - Professor Heather Smith, Sponsor
Computer Controlled Sample Injection for Retention Time Stabilization in Gas Chromatography.
Chemistry
- 9:15 a.m. 4. **ROBERT LEDERER** - Professor Anne Nerenz, Sponsor
Implementing Interactive Web Activities in the Foreign Language Classroom.
Foreign Languages and Bilingual Studies
- 9:30 a.m. 5. **ANDREW MILSTEIN** - Professor Edward Sidlow, Sponsor
Bill, Hillary, Linda and Me: Using Technology to Teach American Government.
Political Science

Tower Room 2nd Floor

Moderator:

Sandra McClennen

- 8:30 a.m. 6. **SHARON CRUTCHFIELD** - Professor Chris Wood Foreman, Sponsor
Learning Gender: Perceptions Across Family Lines.
Communication and Theatre Arts
- 8:45 a.m. 7. **RONDA LEE BESLER** - Professor Heather Neff, Sponsor
Are Downriver Public Schools Teaching Multiculturalism in Their Classrooms?
English Language and Literature
- 9:00 a.m. 8. **ELLEN L. AUGUST** - Professor Sandra McClennen, Sponsor
Depression: It Isn't "Just a Phase."
Special Education
- 9:15 a.m. 9. **WENDY FAITH ROGOWSKI** - Professor Sandra McClennen, Sponsor
Depression: It Isn't "Just a Phase."
Special Education
- 9:30 a.m. 10. **JEANNE JOHNSTON** - Professor Sandra McClennen, Sponsor
Rolling Along: A Look at Wheelchair Accessibility at EMU.
Special Education

Reception Room 2nd Floor

Moderator:

Bette Warren

- 8:30 a.m. 11. **MATTHEW BROOKS** - Professor James VandenBosch, Sponsor
Promoter and Signal Sequence Effects on Baculovirus Gene Expression.
Biology
- 8:45 a.m. 12. **PENNY NICHOL** - Professor Bette Warren, Sponsor
Lottery's Lucky Numbers.
Mathematics
- 9:00 a.m. 13. **EVELYN BREZNIK** - Professor Ernie Behringer, Sponsor
Modeling Magnetic Rotation Spectroscopic Signals.
Physics and Astronomy
- 9:15 a.m. 14. **AUGUST J. CLARK** - Professor Silvia von Kluge, Sponsor
What is the Mechanism of Taste-Potentiation? A Test of Two Theories.
Psychology
- 9:30 a.m. 15. **NICOLE M. BATTJES** - Professor Liza Cerroni-Long, Sponsor
Evolution of the Human Brain.
Sociology, Anthropology, and Criminology

Session A

Faculty Lounge 2nd Floor

Moderator:

Roger King

- 8:30 a.m. **16. TROY DUNHAM** - Professor Richard Fairfield, Sponsor
The Path to Printmaking: One Artist's Personal Journey.
Fine Arts
- 8:45 a.m. **17. SUZANNE KELSEY** - Professor Brian Schorn, Sponsor
Process: The Making of a Design Standards Manual.
Fine Arts
- 9:00 a.m. **18. AMON ALLISON KRIST** - Professor Julie Myers, Sponsor
Dante Gabriel Rossetti and the Victorian Ideal.
Fine Arts
- 9:15 a.m. **19. MICHELLE L. DONNELLY and JULIE E. EADEH** - Professor Janice Terry, Sponsor
The Ill-fated King-Crane Commission: The Devastating Consequences of an Inquiry Forced into Obscurity.
History and Philosophy
- 9:30 a.m. **20. JULIE EADEH** - Professor Roger King, Sponsor
The Pseudo-Success of the Camp David Accords.
History and Philosophy

Main Lounge 1st Floor

Moderator:

Ira Wasserman

- 8:30 a.m. **21. ERIN HUNT and VINCENT CICILLINI** - Professor Alida Westman, Sponsor
Attitudes toward Choice in Dying (Physician-Assisted Suicide).
Psychology
- 8:45 a.m. **22. WANDA HEINZ** - Professor Ira M. Wasserman, Sponsor
Long-Term-Care and the Elderly: A Focus on Finance.
Sociology, Anthropology, and Criminology
- 9:00 a.m. **23. PATRICIA LINDSAY** - Professor Ira M. Wasserman, Sponsor
Attitudes Toward Euthanasia and Physician-Assisted Suicide.
Sociology, Anthropology, and Criminology
- 9:15 a.m. **24. ANGELA SCHMENK** - Professor Ruth Ann Hansen, Sponsor
Ethical and Legal Dimensions of Confidentiality in Health Care.
Associated Health Professions

Intermedia Gallery 1st Floor

Moderator:

Ronald Westrum

- 8:30 a.m. **25. KATHERINE BECK-EI** - Professor Ronald Westrum, Sponsor
Evolution of Social Welfare Organizations.
Sociology, Anthropology, and Criminology
- 8:45 a.m. **26. STACEY BOND** - Professor Michael Harris, Sponsor
Welfare Reform of 1996.
Political Science
- 9:00 a.m. **27. VICTORIA MCKINNEY** - Professor Michael Harris, Sponsor
Ordinary Men.
Political Science
- 9:15 a.m. **28. MELANIE A. BUTZ** - Professor Anita Rich, Sponsor
Through the Looking Glass: Intertextuality and the Clinton Cacophony.
Communication and Theatre Arts

Session A

Gallery I 1st Floor

Moderator:

William Tucker

- 8:30 a.m. **29. GARFIELD WRIGHT** - Professor Abdullah A. Dewan, Sponsor
Central Bank Independence and Economic Performance.
Economics
- 8:45 a.m. **30. DALE H. OWEN** - Professor William Tucker, Sponsor
Paper on Voice and Style.
English Language and Literature
- 9:00 a.m. **31. SHAWN RENEE RUFFER** - Professor William Tucker, Sponsor
Bobby Finally Likes English, Not to Mention the Writing Part.
English Language and Literature
- 9:15 a.m. **32. HEATHER ONDERCIN** - Professor Jeffrey Bernstein, Sponsor
What Women (in Congress) Want.
Political Science
- 9:30 a.m. **33. THOMAS WERNER** - Professor Margaret Howard, Sponsor
The Media's Capital Gains.
Political Science

Salon 2nd Floor

Moderator:

Glenda Kirkland

- 34. TIMOTHY SOMERS** - Professor Derek Weller, Sponsor
Bottesini, Concerto No. 2 in B minor for Double Bass and Piano: Allegro.
Music
- 35. PAUL MICHAEL KOMIVES** - Professor Dady Mehta, Sponsor
Sonata in E Flat Major, Op. 81 a, by Beethoven.
Music
- 36. BRYAN BERRY** - Professor David Pierce, Sponsor
Concerto for Bassoon by Launy Grondahl.
Music
- 37. CAROL ELIZABETH BROWN** - Professor Glenda Kirkland, Sponsor
Deh Vieni, Non Tardar from "Le Nozze di Figaro," Act IV, by Wolfgang Amadeus Mozart.
Music
- 38. KIYOMI SAKURAI** - Professor Daniel Foster, Sponsor
Scherzo in C minor for Violin and Piano, by Johannes Brahms.
Music
- 39. ETHAN BRADLEY ALLEN** - Professor John F. Dorsey, Sponsor
Velocities for Solo Marimba by Joseph Schwantner.
Music
- 40. SARAH BETH ALLEN, MARY DURBIN, CHRIS HUGHEY, EMILY SHOUP and CARLA WHITE** - Professor Joann McNamara, Sponsor
Suite Romance.
Health, Physical Education, Recreation and Dance

Session B

Alumni Room 2nd Floor

Moderator:

Mildred Lintner

10:00 a.m.

- 41. GERALD DAVID ARTMAN II** - Professor Arthur S. Howard, Sponsor
Microwave-Enhanced Synthetic Pathways to Nitrogen Heterocycles.

10:15 a.m.

- Chemistry
42. CHRISTOPHER BROWN - Professor Mildred Lintner, Sponsor
The Program Debugging Process: A Real World Example.

10:30 a.m.

- Computer Science
43. KEVIN MARKMAN and CRAIG NOONAN - Professors Mildred Lintner and Kurt Lauckner, Sponsors
Rewriting the COSC 136 Course Pack: A Modular, Integrative Approach.

10:45 a.m.

- Computer Science
44. MARY TAYLOR - Professor Roger Peterson, Sponsor
"Fortress Europe": The American Perspective.
Marketing

Tower Room 2nd Floor

Moderator:

Weidian Shen

10:00 a.m.

- 45. KIMBERLY BORIS** - Professor Victor Okafor, Sponsor
The War on Drugs: A Critical Appraisal.

10:15 a.m.

- African American Studies
46. AIMEE DANIELLE VAILLANCOURT - Professor Sandy Norton, Sponsor
The Reality of Illusion in A *Streetcar Named Desire*.

10:30 a.m.

- English Language and Literature
47. KRISTIE ELAYNE KING - Professor Richard Rubinfeld, Sponsor

Franz Marc's Composition, Style, Color Choice and Purpose as Analyzed in *Horse in a Landscape*.

10:45 a.m.

- Fine Arts
48. PATRICK J. MEKLED - Professor Norbert Vance, Sponsor
Acquisition and Digital Enhancement of Astronomical CCD Images at Sherzer Observatory.

11:00 a.m.

- Physics and Astronomy
49. KATHLEEN IVANOFF - Professor Ellen C. Schwartz, Sponsor
Two Ways of Looking at Feminist Films: The Hidden Male and The Female Gaze.
Women's Studies

Reception Room 2nd Floor

Moderator:

Carl Ojala

10:00 a.m.

- 50. CRAIG STUMPF** - Professor Robert Winning, Sponsor
Effects of Pagliaccio Activation on Epithelial Cells.

10:15 a.m.

- Biology
51. SOLOMON KNICELY - Professor Stephen Brewer, Sponsor
Characterization of a Thermoelectrically-Cooled Cryotrap for Accelerated Gas Chromatography.

10:30 a.m.

- Chemistry
52. SHANNON BAUMAN - Professor Steve LoDuca, Sponsor
Functional Morphology of the Devonian Brachiopod *Mucrospirifer prolificus*.

10:45 a.m.

- Geography and Geology
53. JASON GOLD - Professor Ted Ligibel, Sponsor
The Landscape of Salvation: Imminent Past and Distant Future.

11:00 a.m.

- Geography and Geology
54. GERALD TIERNAN - Professor Michael Bradley, Sponsor
Seismic Interpretation of Deep Crustal Structures, Wind River Mountains and Vicinity, Wyoming.
Geography and Geology

Session B

Faculty Lounge 2nd Floor

Moderator:

Joseph Engwenyu

- 10:00 a.m. **55. DIANA MARIE AGY** - Professor Joseph Engwenyu, Sponsor
A New Line: An Analysis of the Religious Foundation of Afrikaner Racist Nationalism.
History and Philosophy
- 10:15 a.m. **56. KATHERINE BECK-EI** - Professor Robert M. Citino, Sponsor
The Six Religious/Worldview Dimensions of the Third Reich and the Schutzstaffel.
History and Philosophy
- 10:30 a.m. **57. AMY HOSKI** - Professor Joseph Engwenyu, Sponsor
The Women of Phokeng.
History and Philosophy
- 10:45 a.m. **58. RAMSEY TRACY** - Professor Gersham Nelson, Sponsor
The Politics of Violence in Guatemala.
History and Philosophy
- 11:00 a.m. **59. JENNIFER WOLAK** - Professor JoEllen Vinyard, Sponsor
Reds, Radicals, Rallies, and Raids: Communists in Michigan in the 1920s and 1930s.
History and Philosophy

Main Lounge 1st Floor

Moderator:

James Robinson

- 10:00 a.m. **60. TOMOKO FURUTANI** - Professor Gabe Cherem, Sponsor
Come and Explore Unique Japanese Culture.
Geography and Geology
- 10:15 a.m. **61. DIANE THOMAS-SCHLICHER** - Professor Gabe Cherem, Sponsor
Visiting a Fijian Resort.
Geography and Geology
- 10:30 a.m. **62. RONALD MAYS** - Professor Clovis E. Semmes, Sponsor
Streetball: A Structured Institution Without Written Rules.
African American Studies
- 10:45 a.m. **63. MONICA SYNOWIEC** - Professor James A. Robinson, Sponsor
Ethnocentric Communication in Racist America.
Communication and Theatre Arts
- 11:00 a.m. **64. DEBORAH J. GEROMETTE** - Professor James A. Robinson, Sponsor
Understanding Race as it Relates to Communication and Socialization.
Communication and Theatre Arts

Intermedia Gallery 1st Floor

Moderator:

William Miller

- 10:00 a.m. **65. TOULA SARATSIS and DAVID ADAMS** - Professor Anne Nerenz, Sponsor
La Conexión Artística / The Artistic Connection.
Foreign Languages and Bilingual Studies
- 10:15 a.m. **66. KIRA MYER** - Professor Anne Nerenz, Sponsor
Football and Bullfighting: A Cross-Cultural Comparison.
Foreign Languages and Bilingual Studies
- 10:30 a.m. **67. CARIN WOREK** - Professor Anne Nerenz, Sponsor
Making Foreign Language Instruction More Meaningful Through Culture.
Foreign Languages and Bilingual Studies
- 10:45 a.m. **68. MAUREEN WARREN RAY** - Professor Patricia Williams-Boyd, Sponsor
Celebrate Our Differences!
Teacher Education
- 11:00 a.m. **69. KATHRYN KRUPA, MATT ANTON, ALLISON RODNEY, ADRIENNE GOSS and MICHELLE BEEBE** - Professor Rebecca Martusewicz, Sponsor
What Does it Mean to Become Educated? Putting Our Visions into Practice.
Teacher Education

Session B

Gallery I 1st Floor

Moderator:

Jeff Duncan

10:00 a.m.

70. SARAH NADOLNY - Professor Jeff Duncan, Sponsor
Mama and Me.

10:15 a.m.

English Language and Literature
71. KIMBERLY SUE PIPER - Professor Paul McGlynn, Sponsor
Fragments of Poetic Tendencies.

10:30 a.m.

English Language and Literature
72. JESSICA VAN GOMPEL - Professor Jeff Duncan, Sponsor
Indecent Exposure.

10:45 a.m.

English Language and Literature
73. DAVID CHARLES WELPER - Professor Jim Angle, Sponsor
From Witness.

11:00 a.m.

English Language and Literature
74. RACHEL ELLEN WOODWARD - Professor Jeff Duncan, Sponsor
The Porch.
English Language and Literature

Session C

Alumni Room 2nd Floor

Moderator:

Dennis Grady

- 11:30 a.m. **75. JOSHUA BARRICKLOW** - Professor Dennis Grady, Sponsor
How to Get a Man's Attention Anywhere, Anytime: An Analysis of Nonverbal Communication Advice in Popular Magazines.
- 11:45 a.m. **76. JENNIFER (BAILEY) MEAD** - Professor Rachel Brett Harley, Sponsor
Communication and Theatre Arts
Fem C.O.R.E.: Building a Grassroots Political Organization.
- 12 noon **77. ANDREW DORR** - Professors Roberto Torres and Richard Douglass, Sponsors
Women's Studies
The Growing Health Insurance Gaps of the Medicaid Population, Working Poor and the Near Old.
- 12:15 p.m. **78. KARA FOURMAN** - Professor Ben Atchison, Sponsor
Associated Health Professions
Looking for Occupation in Occupational Therapy: A Study of Physical Disabilities Treatment Settings.
- 12:30 p.m. **79. DAVID SCHULTZ** - Professor Pamela Becker, Sponsor
Associated Health Professions
Y2K: Live, Die, or Something In-Between?
Interdisciplinary Technology

Tower Room 2nd Floor

Moderator:

David Geherin

- 11:30 a.m. **80. DIANA MARIE AGY** - Professor Bill Hauer, Sponsor
Blood Stained Gate: An Analysis of Frederick Douglass' Autobiography.
- 11:45 a.m. **81. MARY AGNES GUNN** - Professor David Geherin, Sponsor
English Language and Literature
The Motivations for Murder in Dostoyevsky's *Crime and Punishment* as Contrasted with Three of Poe's Short Stories.
- 12 noon **82. LINDA A. HAFHEY** - Professor Jeff Duncan, Sponsor
English Language and Literature
His Name was Billy.
- 12:15 p.m. **83. DANA QUICK** - Professor Jeff Duncan, Sponsor
English Language and Literature
The Square Peg.
- 12:30 p.m. **84. KELLY MARIE STEYAERT** - Professor Sandy Norton, Sponsor
English Language and Literature
Wuthering Heights: Class Struggle and Spirituality.
English Language and Literature

Reception Room 2nd Floor

Moderator:

Ellen Schwartz

- 11:30 a.m. **85. PAUL SALAH** - Professor Barbara Bilg , Sponsor
Palestinian Refugees Speak of Their Dispossession.
- 11:45 a.m. **86. KATE BARRANCO** - Professor Ellen Schwartz, Sponsor
Sociology, Anthropology, and Criminology
Finding Their Way: Female Artists Working in Polymer Clay.
- 12 noon **87. SALLY L. CONVERSE DOUCETTE** - Professor Patricia Williams, Sponsor
Fine Arts
Using Children's Imagery in Textiles.
- 12:15 p.m. **88. MARY CHAMBERS** - Professor Gabe Cherem, Sponsor
Fine Arts
Iran: A Cultural Interpretation.
- 12:30 p.m. **89. RACHEL COOPER** - Professor Gabe Cherem, Sponsor
Geography and Geology
Cultural and Historical Aspects of Brittany, France.
Geography and Geology

Session C

Faculty Lounge 2nd Floor

Moderator:

John McHoskey

- 11:30 a.m.
90. DAWN MORSE - Professor Richard Goff, Sponsor
Mother Ann Lee: A Feminist Investigation into Religious Behavior and Autonomy.
History and Philosophy
- 11:45 a.m.
91. JANET SALMINEN - Professor Richard Goff, Sponsor
Fact and Fiction Revisited: The Folklore of the Southern Appalachian Feuds.
History and Philosophy
- 12 noon
92. JENNIFER A. KODRIK - Professor John W. McHoskey, Sponsor
Ambivalent Sexism.
Psychology
- 12:15 p.m.
93. JOSHUA MCCULLOUGH - Professor John W. McHoskey, Sponsor
Reduction of Prejudice Through Intergroup Contact.
Psychology
- 12:30 p.m.
94. BRIAN DAWSON and RACHEL SMITH - Professor Patrick Easto, Sponsor
The Effect of Religiosity on Homophobia.
Sociology, Anthropology, and Criminology

Main Lounge 1st Floor

Moderator:

Clovis E. Semmes

- 11:30 a.m.
95. SHARON R. H. LEE - Professor Clovis E. Semmes, Sponsor
Larceny of a Legacy.
African American Studies
- 11:45 a.m.
96. SCOTT ST. CLAIR - Professor Clovis E. Semmes, Sponsor
How Linguists Look at the Ebonics Debate.
African American Studies
- 12 noon
97. JEANENE FERENCE - Professor Ron Delph, Sponsor
Powerful Women: A Study of the Persecution of Women in the European Witch-Hunts.
History and Philosophy
- 12:15 p.m.
98. SARAH LOMAS - Professor Ron Delph, Sponsor
The Cult of Relics in the Middle Ages.
History and Philosophy
- 12:30 p.m.
99. NATALIE HOLBROOK - Professor Laura George, Sponsor
Haunting as a Form of Political Knowledge in Popular Culture.
Women's Studies

Intermedia Gallery 1st Floor

Moderator:

Michael McGuire

- 11:30 a.m.
100. SARA BESS - Professor Anne Nerenz, Sponsor
Incorporating Real Communication in Textbook Activities.
Foreign Languages and Bilingual Studies
- 11:45 a.m.
101. PEGGY ANN O'NEILL - Professor Anne Nerenz, Sponsor
Enhancing Foreign Language Instruction Through Music.
Foreign Languages and Bilingual Studies
- 12 noon
102. ANNA YOUNG - Professor Anne Nerenz, Sponsor
Teaching Foreign Languages in the Elementary School.
Foreign Languages and Bilingual Studies
- 12:15 p.m.
103. ERIC BERG - Professor Gordon McQuere, Sponsor
Dramatic Contrast in Beethoven's Sonata "Pathétique" in C Minor, Op. 13, 1st Mvt.
Music
- 12:30 p.m.
104. MICHAEL ALAN BOKATSCH - Professor Michael McGuire, Sponsor
Assessment of Clients for Advanced Music Therapy Practicum Students.
Music

Session C

Gallery I 1st Floor

Moderator:

Marian Aitches

- 11:30 a.m. **105. JESSE J. ESQUIERDO** - Professor Marian Aitches, Sponsor
Word of Survival.
English Language and Literature
- 11:45 a.m. **106. LUZ CELESTE FIGUEROA** - Professor Marian Aitches, Sponsor
Storytellers and Stories.
English Language and Literature
- 12 noon **107. GEORGE E. RHODES** - Professor Marian Aitches, Sponsor
Socrates I Hear Not.
English Language and Literature
- 12:15 p.m. **108. JENNIFER K. SMITH** - Professor Alfonso Illingworth-Rico, Sponsor
Culture, Recipes and Symbolism from Como Agua Para Chocolate.
Foreign Languages and Bilingual Studies
- 12:30 p.m. **109. KELLY L. TEACHOUT** - Professors Daryl Hafter and Mark Higbee, Sponsors
Lesbianism in Romantic Friendships: English Boarding Schools 1870-1920.
History and Philosophy

Gallery II 1st Floor

Moderator:

Betty Lou Barber

- 11:30 a.m. **110. CURTIS A. MURRAY** - Professor Jane Zukin, Sponsor
Protect the Innocent: A Call for Hate Crime Legislation.
English Language and Literature
- 11:45 a.m. **111. ERIN MCVEIGH, JAIME HONEYCUTT and EMILIE MENA** - Professor Betty Lou Barber, Sponsor
Beyond the Classroom Boundaries: Techniques for Learning About Infants.
Teacher Education
- 12 noon **112. CYNTHIA EDMONDS** - Professors Marjorie Ziefert and Kaaren S. Brown, Sponsors
The Role of Qualitative Research in a Quantitative Research Project.
Social Work

Session Presentation Abstracts

COLLEGE OF ARTS AND SCIENCES

Department of African American Studies

KIMBERLY BORIS

- Professor Victor Okafor, Sponsor

The War on Drugs: A Critical Appraisal. This examination of the implementation of the federal illicit drug containment policy, the "war on drugs," uses statistical and analytical data to expose the discrepancy between the policy's goals and its results. The "war's" inefficacy is demonstrated, along with its adverse effects on the African American community and society at-large. The principle of illicit drug containment is supported, but alternative implementation strategies are urged. Session B - Number 45.

SHARON R. H. LEE

- Professor Clovis E. Semmes, Sponsor

Larceny of a Legacy. This research is an oral history of the rise and demise of a prominent nightclub in Detroit. The death of this nightclub was part of the destruction of the famous African-American business district in Detroit called the Black Bottom. Session C - Number 95.

RONALD MAYS

- Professor Clovis E. Semmes, Sponsor

Streetball: A Structured Institution Without Written Rules. This research is an ethnographic analysis of everyday basketball culture. It reveals the vocabulary, work ethic, and norms used to play this game on playgrounds and in gyms, and how the values and norms of basketball culture present important lessons for life. Session B - Number 62.

SCOTT ST. CLAIR

- Professor Clovis E. Semmes, Sponsor

How Linguists Look at the Ebonics Debate.

This research critiques the public conception of the Ebonics debate in light of scholarly research on Black English showing that knowledge of Ebonics is a useful tool for bridging the achievement gap. Session C - Number 96.

Department of Biology

MATTHEW BROOKS

- Professor James VandenBosch, Sponsor

Promoter and Signal Sequence Effects on

Baculovirus Gene Expression. Production of a biologically active, highly glycosylated, recombinant protein (e.g., HIV-1 gp120) in baculovirus-infected insect cells requires the proper glycosylation and signals for secretion from the infected insect cells. Four different recombinant Baculoviruses were constructed utilizing two native baculovirus signal sequences, egt and gp67, and two different Baculovirus promoters, the very late polH and the late BPP. These constructs were used to determine the effects of promoter and signal sequence on the expression of a cloned gp120. Session A - Number 11.

CRAIG STUMPF

- Professor Robert Winning, Sponsor

Effects of Pagliaccio Activation on Epithelial

Cells. Development of embryonic tissues requires conversion of cells from an epithelial (tightly adherent) phenotype to a mesenchymal (loosely adherent) phenotype. The receptor Pagliaccio causes a loss of cell adhesion in *Xenopus laevis* embryos. Pagliaccio may therefore regulate epithelial to mesenchymal transitions. This study tests that hypothesis by examining the effects of Pagliaccio activation on protein synthesis in cultured epithelial cells, specifically changes in the levels of proteins specific for epithelial or mesenchymal cells. Session B - Number 50.

Session Presentation Abstracts

Department of Chemistry

GERALD DAVID ARTMAN II

- Professor Arthur S. Howard, Sponsor
Microwave-Enhanced Synthetic Pathways to Nitrogen Heterocycles. Several reaction pathways using "solvent-free" microwave-enhanced conditions were investigated. Various nitrogen heterocycles were synthesized with the target molecules primarily being substituted imadazoles. The heterocycles were synthesized much more rapidly than, and in yields comparable to, those obtained by using conventional procedures. The presentation describes the advantages of this novel procedure and contrasts the results obtained with those of more conventional procedures. Session B - Number 41.

SOLOMON KNICELY

- Professor Stephen Brewer, Sponsor
Characterization of a Thermoelectrically Cooled Cryotrap for Accelerated Gas Chromatography. In fast gas chromatography, rapid injection is needed to obtain well-resolved peaks. Often, samples are immobilized in tubes chilled by cryogenic fluids. The samples are injected by ballistic heating of the tubes. Cryogenic fluid cooling is expensive, requiring frequent human attention. Two types of Peltier coolers have been used to cool cryotrap to -38°C and -67°C . Electrical, thermal, and chromatographic characteristics of both sorts of chillers are described. Session B - Number 51.

DANIEL SIMMONS

- Professor Heather Smith, Sponsor
Application of Chemometric Techniques to the Separation of Complex Chemical Mixtures. Gas chromatography is used to separate and quantitate chemical analytes of interest. As mixtures become more complex, physical separation can be difficult or impossible. The goal of this project is to evaluate the algorithm Direct Classical Least Squares in order to mathematically separate analytes when physical resolution is not possible. The algorithm is described, and example separations are presented. Session A - Number 1.

JASON L. SONNENBERG

- Professor Maria C. Milletti, Sponsor
Ab initio Investigation of the Synthesis of (3-(2,3,4,5-tetramethylcyclopentadienyl) propoxy) titanium Dichloride. The synthesis of $[\text{C}_5\text{Me}_4(\text{CH}_2)_3\text{O}]\text{TiCl}_2$ from $\eta^5\text{-C}_5\text{Me}_4(\text{CH}_2)_3\text{OMe TiCl}_3$ was investigated through molecular orbital calculations. *Ab initio*, Hartree-Fock calculations at the 6-311G basis-set level were carried out on the product and an intermediate, $\eta^5\text{-C}_5\text{Me}_4(\text{CH}_2)_3\text{OMeTiCl}_2(\text{CHPh}_3)$, to elucidate the mechanism of reaction and the nature of the bond between the metal and the ylide ligand. Session A - Number 2.

TRACY L. WENZLICK

- Professor Heather Smith, Sponsor
Computer Controlled Sample Injection for Retention Time Stabilization in Gas Chromatography. The goal of this project was to build and to test a gas chromatograph designed to stabilize the retention times of the chemical analytes of interest. The instrument incorporates computer-controlled sample injection and electronic pressure control of the sample flow. The design of the instrument is discussed, and example chromatograms showing the separation of environmentally and industrially important chemicals are presented. Session A - Number 3.

College
of Arts
Sciences



Undergraduate
Symposium
XIX

Session Presentation Abstracts

Department of Communication and Theatre Arts

JOSHUA BARRICKLOW

- Professor Dennis Grady, Sponsor

How to Get a Man's Attention Anywhere, Anytime: An Analysis of Nonverbal Communication Advice in Popular Magazines. Although many popular magazines give their readers advice on nonverbal communication and relationships, the soundness of that advice is often questionable. Are there really secret signals one can use to lure potential romantic partners? Does your posture reveal how happy you are in your current relationship? In this study the validity of nonverbal communication advice is questioned through a critical examination of articles appearing in *Mademoiselle*, *Men's Health*, and other popular magazines. Session C - Number 75.

MELANIE A. BUTZ

- Professor Anita Rich, Sponsor

Through the Looking Glass: Intertextuality and the Clinton Cacophony. This presentation features a solo performance which juxtaposes the best of Lewis Carroll's 1870s nonsense literature and the "best" of the current nonsense in Washington. Focused through the lens of an individual's performance, the combination of social commentary and aesthetic enjoyment is seen. Included in the presentation is a discussion of how these sites of performance are guided by the intertextuality of the performer and channeled through the performance process. Session A - Number 28.

SHARON CRUTCHFIELD

- Professor Chris Wood Foreman, Sponsor

Learning Gender: Perceptions Across Family Lines. Responding to current research on learning and reinforcement of gender, this paper presents findings from a small multi-generational survey, illustrating gender reinforcement and attitudinal changes over a

70-year time span. The impact of this piece stems from the voices of those interviewed, as they struggle to explain their own identities, and in so doing, come to understand better the world in which they live. Session A - Number 6.

DEBORAH J. GEROMETTE

- Professor James A. Robinson, Sponsor

Understanding Race as it Relates to Communication and Socialization. This paper analyzes a performance review of Geraldine, one of the author's employees for over eight years. Communication was always awkward and incomplete. Initially, it was hypothesized that the communication problem was rooted in Geraldine's socialization. Three key findings resulted: 1) race is an intricate part of and cannot be separated from our socialization; 2) the author's socialization was the real roadblock to successful communication; and 3) acknowledgement and understanding of race issues are necessary for effective communication. Session B - Number 64.

MONICA SYNOWIEC

- Professor James A. Robinson, Sponsor

Ethnocentric Communication in Racist America. Ethnocentrism is the theory that one's own culture is superior to another's, and the world should accept the same beliefs/values of that person. This paper studies a personal experience in which a confrontation between the author and a person with ethnocentric views that led to racism, and analyzes the situation using the six barriers to effective interracial/interethnic communication. Other cases are cited in which racism has occurred and suggestions are offered for the future. Session B - Number 63.

Session Presentation Abstracts

Department of Computer Science

CHRISTOPHER BROWN

- Professor Mildred Lintner, Sponsor

The Program Debugging Process: A Real World Example. Computers are widely used in our everyday lives. Unfortunately, computer programs, even those produced commercially, are often imperfect and contain errors, commonly called bugs. This presentation gives a real world example of the discovery and identification of bugs in a computer program and how we went about debugging the problems. Session B - Number 42.

KEVIN MARKMAN and CRAIG NOONAN

- Professors Mildred Lintner and Kurt Lauckner, Sponsors

Rewriting the COSC 136 Course Pack: A Modular, Integrative Approach. This presentation discusses the updating and enhancement of current Microsoft Office 98 projects based on the Winter 99 COSC 136 course pack. By adding a modular, tri-level, integrative approach to Office 98 projects, in concert with the addition of enhanced Internet features to the "Build a Web Page" project, the experienced student will have the option of a challenge with a more advanced application of the programs. Session B - Number 43.

Department of Economics

GARFIELD WRIGHT

- Professor Abdullah A. Dewan, Sponsor

Central Bank Independence and Economic Performance. This paper reviews empirical and theoretical studies of central bank independence to examine and answer three questions: (a) why is the idea of an independent central bank popular? (b) are there economic benefits of having an

independent central bank? and (c) is coordination between monetary and fiscal policies preferable? Session A - Number 29.

Department of English Language and Literature

DIANA MARIE AGY

- Professor Bill Hauer, Sponsor

Blood Stained Gate: An Analysis of Frederick Douglass' Autobiography. This presentation focuses upon the methods Frederick Douglass used to question 20th-century American ideology. Special attention is given to Douglass' skillful use of metaphor in condemnation of peculiar American virtues, such as *noblesse oblige*, the Southern idea of chivalry, and Calvinism. Session C - Number 80.

RONDA LEE BESLER

- Professor Heather Neff, Sponsor

Are Downriver Public Schools Teaching Multiculturalism in Their Classrooms? This two-part survey first examines whether Downriver school districts are teaching multiculturalism and, if they are not, whether they will be doing so by the years 2000 or 2005. The second part of the survey reports the results of a polling of educators within 16 Downriver public school districts regarding issues that directly affect multicultural teaching in their respective classrooms. Session A - Number 7.

JESSE J. ESQUIERDO

- Professor Marian Aitches, Sponsor

Word of Survival. This presentation reveals that among the many messages apparent in Native American literature, the most important is that the vicious oppression faced by Native Americans was never enough to kill their spirit. Indeed, Native culture has survived through their words – words that say despite four hundred years of oppression, Native culture goes on...and will go on. Session C - Number 105.

Session Presentation Abstracts

LUZ CELESTE FIGUEROA

- Professor Marian Aitches, Sponsor

Storytellers and Stories. This presentation focuses on the importance of Native American stories and storytellers, from the old oral tradition to today's printed stories. Inspired by this tradition, the works of several Native Americans are used to demonstrate that Native American writers are the modern storytellers, continuing the traditional ties that honor the connections among ancestral memories, spiritual life, and the world community. In the end, these are our links to nature, history, and the circular harmony necessary for balance. Session C - Number 106.

MARY AGNES GUNN

- Professor David Geherin, Sponsor

The Motivations for Murder in Dostoyevsky's Crime and Punishment as Contrasted with Three of Poe's Short Stories. Dostoyevsky and Poe are masters of portraying the psychological torment of the murderer. Specifically, these authors discuss the subjective forces that motivate a murderer in committing a crime. In this presentation the motivation for Raskolnikov's act of murder in Dostoyevsky's *Crime and Punishment* is discussed and contrasted with the motivations of Poe's three narrators in "The Black Cat," "The Tell-Tale Heart," and "The Cask of Amontillado." The presenter supports her claims with references from the disciplines of psychiatry and philosophy. Session C - Number 81.

LINDA A. HAFFEY

- Professor Jeff Duncan, Sponsor

His Name was Billy. In this autobiographical essay the author recounts the special relationship between a small girl and a large horse. The essay describes the writer's "Billy Experience," how she came to own the horse, how she came to understand him, love him, and eventually lose him. Billy emerges as a remarkable friend and eccentric character who just happened to be a horse. Session C - Number 82.

CURTIS A. MURRAY

- Professor Jane Zukin, Sponsor

Protect the Innocent: A Call for Hate Crime Legislation. This presentation calls for legislation to protect those faced with sexual orientation confrontations, both homosexual and heterosexual. Protecting the oppressed was one of the founding philosophies of our country, and the presentation insists that we must continue to protect the oppressed of our great nation. Session C - Number 110.

SARAH NADOLNY

- Professor Jeff Duncan, Sponsor

Mama and Me. This narrative is an autobiographical account of a day in the life of a young girl and her mother. The girl's interactions with her mother, through chores and play, are recounted as seen through the wonder-filled eyes of a child and serve to illustrate the strength of the mother-daughter bond, the definition of love, and the truly important things in life. Session B - Number 70.

DALE H. OWEN

- Professor William Tucker, Sponsor

Paper on Voice and Style. Voice is an important tool for the writer who wants to develop an individual and versatile writing style. However, voice is a difficult skill to discuss in concrete terms and even more difficult to teach. By relating the art of writing to that of jazz music, this presentation elaborates on the concepts of voice and style. The importance of audience is also discussed and two sample essays are reviewed to illustrate these concepts. Session A- Number 30.

KIMBERLY SUE PIPER

- Professor Paul McGlynn, Sponsor

Fragments of Poetic Tendencies. Produced after studying such poets as Sylvia Plath, T. S. Eliot, Allen Ginsberg, and e. e. cummings. A compilation of the author's poems, ranging from three lines to a full page and from free verse to rhyme. Session B - Number 71.

Session Presentation Abstracts

DANA QUICK

- Professor Jeff Duncan, Sponsor

The Square Peg. This series of short stories depicts different events from the writer's childhood, including incidents concerning her relationships with her mother, and one of her sisters, and her memories of Christmas in the third grade. Session C - Number 83.

GEORGE E. RHODES

- Professor Marian Aitches, Sponsor

Socrates I Hear Not. This presentation examines how the Native American ethos diverges from the traditional Western ethos. Whereas the latter concentrates on a strictly human, moral community, the former encompasses all nature. The profound difference between the two systems has resulted in tension and turmoil clearly evident in works of Native American literature. Session C - Number 107.

SHAWN RENEE RUFFER

- Professor William Tucker, Sponsor

Bobby Finally Likes English, Not to Mention the Writing Part. Many high school students want to write well, yet lack the strategies and self-confidence to do so. This presentation reports the results of a case study, recording the growth of one young writer, a high school freshman named Bobby, who overcame a disability, gained self-confidence, and strengthened his belief that he is a good writer. Session A - Number 31.

KELLY MARIE STEYAERT

- Professor Sandy Norton, Sponsor

Wuthering Heights: Class Struggle and Spirituality. This presentation offers a critical analysis of Emily Bronte's *Wuthering Heights*. Its method is a combination of Marxist and theological criticism, and its specific focus entails both a reconciliation of class conflict with spirituality within the novel and a reconciliation of Marxist theory and theology as a way of perceiving the novel from without. Session C - Number 84.

AIMEE DANIELLE VAILLANCOURT

- Professor Sandy Norton, Sponsor

The Reality of Illusion in A Streetcar Named Desire. This presentation consists of an in-depth exploration of two characters from Tennessee Williams' play, *A Streetcar Named Desire*. Stanley Kowalski appears to have a clear sense of reality. His hatred for his sister-in-law, Blanche DuBois, becomes understood as she is seen to represent everything that Stanley hates about himself. Thus, although Stanley and Blanche have been raised quite differently, they, in fact, exist in very similar realities. Session B - Number 46.

JESSICA Van GOMPEL

- Professor Jeff Duncan, Sponsor

Indecent Exposure. This presentation is an autobiographical essay, a reliving of a childhood experience. It describes the event, and in so doing evokes the age-old contest between staid and solid rectitude and the exuberant celebration of life, with the author opting for the latter. Session B - Number 72.

DAVID CHARLES WELPER

- Professor Jim Angle, Sponsor

From Witness. This collection of poems is taken from the presenter's book, *Witness*. This sample, as well as the entire book, serves primarily as an autobiography with three purposes: 1) to record, as faithfully as possible, the author's experiences over the past five years as a young man maturing into the independence of adulthood; 2) to record the process and effects of this maturing; and 3) to record the various ways the author conveys these experiences as a writer. Session B - Number 73.

Session Presentation Abstracts

RACHEL ELLEN WOODWARD

- Professor Jeff Duncan, Sponsor

The Porch. This essay presents a reflection of the author's childhood in rural Ohio. The author is one of four siblings who used their imaginations to transform a porch into a stage on which they practiced growing up. By reliving her childhood memories, the author discovers the importance of her home. Session B - Number 74.

Department of Fine Arts

KATE BARRANCO

- Professor Ellen Schwartz, Sponsor

Finding Their Way: Female Artists Working in Polymer Clay. This presentation explores a fairly new art medium, and emphasizes the experimentation of several female artists whose work in it has been instrumental in stimulating interest in the artistic use of this plastic-based clay. Session C - Number 86.

SALLY L. CONVERSE DOUCETTE

- Professor Patricia Williams, Sponsor

Using Children's Imagery in Textiles. Starting with original refrigerator art, this presentation will focus on children's imagery in various forms of textile art. Reproduction of crayon textures in weaving and silk-screening, repetition of patterns and uses of the same motifs in different ways will all be addressed. Session C - Number 87.

TROY DUNHAM

- Professor Richard Fairfield, Sponsor

The Path to Printmaking: One Artist's Personal Journey. A presentation investigating one artist's imagery through experimentation with a variety of techniques, with an emphasis on various printmaking processes and with a culmination in the use of the most appropriate printmaking media to the subject matter is presented. Session A - Number 16.

SUZANNE KELSEY

- Professor Brian Schorn, Sponsor

Process: The Making of a Design Standards Manual. This demonstration of the research process for determining the creative visual representation (identity system) of a company includes the sketching and design of individual elements such as logo, colors, font, and image placement on documentation and signage and ends with the completion of a Design Standards Manual. Session A - Number 17.

KRISTIE ELAYNE KING

- Professor Richard Rubenfeld, Sponsor

Franz Marc's Composition, Style, Color Choice and Purpose as Analyzed in "Horse in a Landscape". This presentation explores the symbolism behind Franz Marc's color theory in his painting, "Horse in a Landscape" (1910). Marc's style and composition will be stressed in addition to a personal and contemporary interpretation of the work. The artist's powerful passion and connection with nature will be revisited as a look into the meaning of his enchanting masterpiece. Session B - Number 47.

AMON ALLISON KRIST

- Professor Julie Myers, Sponsor

Dante Gabriel Rossetti and the Victorian Ideal. This paper explores the theme of romantic love in the works of Dante Gabriel Rossetti. Rossetti was influenced by medieval courtly love, Dante, Shakespeare and contemporary Victorian attitudes. Rossetti's depictions display a pessimistic attitude toward romantic love resulting from the unattainable ideals placed on relationships between men and women. Session A - Number 18.

Session Presentation Abstracts

Department of Foreign Languages and Bilingual Studies

SARA BESS

- Professor Anne Nerenz, Sponsor
Incorporating Real Communication in Textbook Activities. Many foreign language textbooks used today claim to provide communicative activities that help students learn and practice the target language. Although these activities may encourage students to use language, they do not allow students to create and exchange information in real life situations. This presentation proposes alternatives that maximize students' opportunities for real communication. Session C - Number 100.

ROBERT LEDERER

- Professor Anne Nerenz, Sponsor
Implementing Interactive Web Activities in the Foreign Language Classroom. This session will demonstrate introductory Web-based activities for teaching German at the high school level. Examples of exercises designed from the Web and exercises on the Web itself will illustrate the practical use of the World Wide Web in the foreign language classroom. This session will be of special interest to those interested in computer-assisted language learning. Session A - Number 4.

KIRA MYER

- Professor Anne Nerenz, Sponsor
Football and Bullfighting: A Cross-Cultural Comparison. Comparisons of languages and cultures are an integral part of the new *Standards for Foreign Language Learning*. This presentation shows how culture can be taught in the foreign language classroom. The comparative lesson format encourages students to analyze and appreciate diverse cultural behaviors. In addition, it demonstrates how the use of prior knowledge enhances

understanding, acceptability, and retention of new material. Some examples in Spanish. Session B - Number 66.

PEGGY ANN O'NEILL

- Professor Anne Nerenz, Sponsor
Enhancing Foreign Language Instruction Through Music. This session focuses on how the use of target-language music helps to enhance meaning in foreign language instruction. The use of music can help to establish context, to invoke student interest, and to provide an enjoyable atmosphere for learning. Participants will witness a sample lesson demonstrating these principles. Session C - Number 101.

TOULA SARATSI and DAVID ADAMS

- Professor Anne Nerenz, Sponsor
La Conexión Artística / The Artistic Connection. This presentation focuses on the incorporation of art into the foreign language curriculum. It examines how students explore art to gain an understanding of historical, political, and social aspects which the artist presents. In addition, students discover new vocabulary and grammar through the lesson. Some examples in Spanish. Session B - Number 65.

JENNIFER K. SMITH

- Professor Alfonso Illingworth-Rico, Sponsor
Culture, Recipes and Symbolism from Como Agua Para Chocolate. This presentation focuses on the Mexican cultures and traditions represented by Ms. Esquivel in her influential novel. The presentation gives an overview of the cultural aspects expressed in her novel and discusses in depth the most important aspects. Special emphasis will be placed on Ms. Esquivel's use of recipes and other symbolism to express meaning. Session C - Number 108.



Session Presentation Abstracts

CARIN WOREK

- Professor Anne Nerenz, Sponsor

Making Foreign Language Instruction More Meaningful Through Culture. Learning about cultural practices, products, and perspectives, and comparing them with one's own are two goals of the new *Standards for Foreign Language Learning*. A sample lesson focusing on the role of the family in Spain will emphasize the importance of avoiding stereotypes during culture lessons. Some examples in Spanish. Session B - Number 67.

ANNA YOUNG

- Professor Anne Nerenz, Sponsor

Teaching Foreign Languages in the Elementary School. This presentation focuses on the importance of early foreign language instruction. Content-based and content-related foreign language programs for elementary school learners are described and compared and the importance of mirroring first language acquisition through exclusive use of the foreign language is stressed. The role of culture and cultural comparisons is also considered. The presentation concludes with a demonstration lesson in Spanish. Session C - Number 102.

Department of Geography and Geology

SHANNON BAUMAN

- Professor Steve LoDuca, Sponsor

Functional Morphology of the Devonian Brachiopod *Mucrospirifer prolificus*. Functional morphology seeks to explain how the form of an organism is related to where and how it lived. This study investigated the functional morphology of the brachiopod *Mucrospirifer prolificus* using specimens recovered from two habitats (shale and limestone layers) of the Devonian age Silica Formation in northern Ohio. Measurements of the commissure, sulcus, hinge, and interarea of specimens from the two habitats showed a distinctive difference

in the length of the commissure relative to the sulcus width, likely indicating that this species modified its shell form in response to reduced oxygen levels in the shale habitat. Session B - Number 52.

MARY CHAMBERS

- Professor Gabe Cherem, Sponsor

Iran: A Cultural Interpretation. Iran (Persia) has a long history of hospitality toward visitors. Tours to Iran are selling as fast as tour companies announce departure dates. This presentation is designed to prepare prospective guests for a tour of Iran. Travelers are informed of "cultural mannerisms" to expect while in the country. In addition, several topics such as weather, dress, home-styles, and daily schedules will be discussed. Many items that may be found for purchase in Iran will be displayed. Session C - Number 88.

RACHEL COOPER

- Professor Gabe Cherem, Sponsor

Cultural and Historical Aspects of Brittany, France. Brittany, a region of France, is said to be the most "cultural" and unique of all France, making it a region like no other in the world. The presentation will include the story of Brittany costume, aspects of establishing a French friendship and marriage, the extreme importance of the family, and the roles that parents and children play in society. Session C - Number 89.

TOMOKO FURUTANI

- Professor Gabe Cherem, Sponsor

Come and Explore Unique Japanese Culture. Did you know that if a man looks a woman in the eye too much when he is speaking, the woman may think that he likes her? There are many interesting cultural differences between the U.S. and Japan like this one that you may not know. This presentation discusses traditional Japanese culture and customs, especially those rooted in the northern part of Japan, by introducing local crafts, clothes, and manners. Session B - Number 60.

Session Presentation Abstracts

JASON GOLD

- Professor Ted Ligibel, Sponsor

The Landscape of Salvation: Imminent Past and Distant Future. The goal of most projects intended for preservation of small-town heritage is to revitalize the town and create a solid community base. This project asks what happens to a town when success in preserving its heritage counteracts the original goal of revitalization. Alternatively, with the rebirth of the new small town in the U.S., is a true sense of community built physically or philosophically? Session B - Number 53.

DIANE THOMAS-SCHLICHER

- Professor Gabe Cherem, Sponsor

Visiting a Fijian Resort. Fijian cultural mannerisms are quite different from those in the United States. The presentation explores Fijian "dos and don'ts" with regard to dress, language, and other mannerisms. Covered also are a Fijian "meke" traditional dance, the kava ceremony, and general travel advice. Session B - Number 61.

GERALD TIERNAN

- Professor Michael Bradley, Sponsor

Seismic Interpretation of Deep Crustal Structures, Wind River Mountains and Vicinity, Wyoming. Seismic reflection profiles shot in 1977 by the Consortium for Continental Reflection Profiling (COCORP) yield information on the depth of the Green River and Wind River Basins and the geometry of the Wind River thrust. The COCORP line reveals that flat-lying Phanerozoic rocks extend to a depth of 7186 kilometers in the Green River Basin but within the Wind River Basin dip 30 degrees eastward, reaching a depth of 11.2 kilometers at the eastern edge of the seismic line. The Wind River Mountains were uplifted by the west verging Wind River thrust, which extends along the southwestern border of the range and uniformly dips 30 degrees eastward to a depth of 36.2 kilometers. Session B - Number 54.

Department of History and Philosophy

DIANA MARIE AGY

- Professor Joseph Engwenyu, Sponsor

A New Line: An Analysis of the Religious Foundation of Afrikaner Racist Nationalism. This presentation focuses on the initial religious background and subsequent foundation of racist Afrikaner nationalism in the course of their immigration and settlement in South Africa after 1652. Special emphasis is placed on their Calvinistic vision and their self-determination. The evidence suggests that nature, the native, and natural law all contributed to the formation of South Africa's later policies of segregation and apartheid. Session B - Number 55.

KATHERINE BECK-EI

- Professor Robert M. Citino, Sponsor

The Six Religious/Worldview Dimensions of the Third Reich and the Schutzstaffel. In the opinion of theologian Ninian Smart most, if not all, religious/secular worldviews have six dimensions: doctrinal, ritual, ethical, experiential, mythical and social. This presentation demonstrates how the Third Reich and the Schutzstaffel ("SS") of Nazi Germany exemplify Smart's model. Session B - Number 56.

MICHELLE L. DONNELLY and JULIE E. EADEH

- Professor Janice Terry, Sponsor

The Ill-fated King-Crane Commission: The Devastating Consequences of an Inquiry Forced into Obscurity. The King-Crane Commission was an effort on behalf of the Allied Powers to seek an Arab response to the division of the Ottoman Empire at the end of World War I. This presentation outlines the genesis of the commission and the obstacles it faced, and discusses its findings and its effects on the current state of affairs in this tumultuous region. Session A - Number 19.



Session Presentation Abstracts

JULIE EADEH

- Professor Roger King, Sponsor

The Pseudo-Success of the Camp David Accords. The Camp David Accords were an effort by U.S. President Jimmy Carter, Egyptian President Anwar Sadat, and Israeli Prime Minister Menachem Begin to secure peace in the Middle East. While the agreements reached provided for peace between two major powers, Egypt and Israel, they also had fatal flaws. This presentation discusses the agreements reached at Camp David, the aftermath, and specifically the failure of the Camp David Accords. Session A - Number 20.

JEANENE FERENC

- Professor Ron Delph, Sponsor

Powerful Women: A Study of the Persecution of Women in the European Witch-Hunts. In the European witch-hunts of the modern period (1470-1750), over 80 percent of the victims were women. To illustrate why women were targeted, this presentation discusses the misogynistic views about women and their abilities at this time and then considers what sorts of women were generally hunted. Session C - Number 97.

AMY HOSKI

- Professor Joseph Engwenyu, Sponsor

The Women of Phokeng. This paper examines the experience of South African women during the period of South Africa's harsh policies of segregation and apartheid. The paper focuses specifically on women from the small township of Phokeng, located near Johannesburg, integrating the women's accounts, in their own words, and the author's analysis. Session B - Number 57.

SARAH LOMAS

- Professor Ron Delph, Sponsor

The Cult of Relics in the Middle Ages. This paper investigates the often misunderstood cult that surrounds the relics of saints in the Middle Ages. Particular attention is given to

both the social roles and the religious function of relics. How people related to relics and how relics were perceived to relate to people are discussed, along with the phenomena of relic theft. Session C - Number 98.

DAWN MORSE

- Professor Richard Goff, Sponsor

Mother Ann Lee: A Feminist Investigation into Religious Behavior and Autonomy. This presentation considers theories presented by some feminist historians arguing that eccentric religious behavior in female figures, such as Ann Lee of the Shakers, relates directly to a subversion of patriarchal power and a desire for individual autonomy. Previous misconceptions about such behavior are redefined to support Lee as a woman worthy of feminist consideration, not in spite of her behavior, but rather, as a direct result of it. Session C - Number 90.

JANET SALMINEN

- Professor Richard Goff, Sponsor

Fact and Fiction Revisited: The Folklore of the Southern Appalachian Feuds. This research paper explores the circumstances surrounding development of the cultural stereotype of 19th-century feuds that occurred in the Southern Appalachian Mountains. It discusses the feud stereotype itself, the ways information about feuds was disseminated, facts showing how the feuds both conformed with and deviated from the stereotype, and concludes with brief attention to why this bit of folklore gained acceptance and retains its currency. Session C - Number 91.

KELLY L. TEACHOUT

- Professors Daryl Hafter and Mark Higbee, Sponsors

Lesbianism in Romantic Friendships: English Boarding Schools 1870-1920. Boarding schools in 19th-century England made possible lifetime careers for young women, allowing independence from the separate male sphere

Session Presentation Abstracts

of larger society. Single-sex environments fostered intimate relationships between students and teachers, some lasting beyond school-age years. Educated women no longer required "traditional" marriage for financial stability. As the public began to take notice, writings by sexologists began casting suspicions on romantic friendships. Sexologists' theories enabled the development of lesbian communities by separating lesbians from womankind. Session C - Number 109.

RAMSEY TRACY

- Professor Gersham Nelson, Sponsor
The Politics of Violence in Guatemala. Guatemala has been plagued with turmoil throughout its history. This presentation examines some of the political actors and policies that sought to perpetuate pervasive social inequalities in the Guatemalan society, focusing upon the period, 1970-1986, characterized by conservative control, military repression, and peasant resistance. Session B - Number 58.

JENNIFER WOLAK

- Professor JoEllen Vinyard, Sponsor
Reds, Radicals, Rallies, and Raids: Communists in Michigan in the 1920s and 1930s. In the 1920s and 1930s, Michigan's industrial bent, high immigrant population, and tendency toward one-party politics planted seeds of dissent among citizens and produced an environment receptive to radicalism and an active Communist Party. However, the true degree of Communist influence in Michigan is debatable. Here, voting records and written accounts are used to consider the nature and effectiveness of Communist Party activity in Michigan during this era. Session B - Number 59.

Department of Mathematics

PENNY NICHOL

- Professor Bette Warren, Sponsor
Lottery's Lucky Numbers. State lotteries, in theory, should be unpredictable and random. But, patterns in randomness often occur. Computer random number generation is used to simulate lottery drawings to find such patterns and to determine if these patterns are statistically significant in order to disclaim notions of randomness. Session A - Number 12.

Department of Music

ETHAN BRADLEY ALLEN

- Professor John F. Dorsey, Sponsor
Velocities for Solo Marimba by Joseph Schwantner. Joseph Schwantner, born in Chicago in 1943, is Professor of Composition at the Eastman School of Music and has also served on the faculty of the Julliard School. His orchestral works have earned him a Pulitzer Prize and two Grammy nominations. "Velocities" is a highly demanding, virtuosic work for solo marimba written in a perpetual motion style. The work was composed in 1990 under a Consortium Commission from the Percussive Arts Society. Session A - Number 39.

ERIC BERG

- Professor Gordon McQuere, Sponsor
Dramatic Contrast in Beethoven's Sonata "Pathétique" in C Minor, Op. 13, 1st Mvt. This presentation examines the 1st movement of Ludwig van Beethoven's piano sonata in C minor, Op. 13, known by the title "Pathétique". It looks at Beethoven's use of contrasting material as the primary means of creating the dramatic power for which he is known. This examination attempts to show how this dramatic contrast reflects the turbulent emotions of Beethoven as he was confronted with the tragic loss of his hearing. Session C - Number 103.



Session Presentation Abstracts

BRYAN BERRY

- Professor David Pierce, Sponsor

Concerto for Bassoon by Launy Grondahl.

This performance is of the first movement of the Norwegian composer's bassoon concerto which was composed in 1942. Grondahl's musical style was influenced by the music of Sibelius and Carl Nielsen. The soaring lyricism of the bassoon line is complemented by the rhythmic energy of the accompaniment which is performed by Brian Bartusch.

Session A - Number 36.

MICHAEL ALAN BOKATSCH

- Professor Michael McGuire, Sponsor

Assessment of Clients for Advanced Music Therapy Practicum Students.

This presentation is an outgrowth of a project to develop forms for helping advanced music therapy students to learn about methods of assessment. A review of the literature identified items to be assessed in the social, emotional, cognitive, and motor domains. The presentation discusses the reasoning that led to the development of specific items on these forms. Session C - Number 104.

CAROL ELIZABETH BROWN

- Professor Glenda Kirkland, Sponsor

Deh Vieni, Non Tardar from "Le Nozze di Figaro," Act IV, by Wolfgang Amadeus Mozart.

This operatic intrigue finds Susanna and the Countess Almaviva conspiring to catch Count Almaviva in his attempts to seduce Susanna by disguising themselves as each other. Susanna, dressed as the Countess, sings of her love for the count, her "husband," while her fiancé, Figaro, jealously listens to her words as he hides in the courtyard. Ms. Brown's pianist is Marcia Koster. Session A - Number 37.

PAUL MICHAEL KOMIVES

- Professor Dady Mehta, Sponsor

Sonata in E Flat Major, Op. 81 a, by Beethoven.

Completed in Vienna in 1809, this sonata was written towards the end of Beethoven's second "period" of composition, often termed *Sturm und Drang* or Storm and Stress. The work tells the story of the departure of Beethoven's dear friend, Archduke Rudolf of Austria, and their subsequent, joyful reunion. The commonly used title, "Les Adieux," reflects Beethoven's own German title, "Das Lebewohl," meaning "farewell." Beethoven actually syllabically inscribed Le-be-wohl upon the three opening, descending chords.

Session A - Number 35.

KIYOMI SAKURAI

- Professor Daniel Foster, Sponsor

Scherzo in C minor for Violin and Piano, by Johannes Brahms.

Brahms (1833-1897) composed this piece in 1853, as the third movement of a joint sonata, in celebration of the birthday of violinist Joseph Joachim. Robert Schumann and his pupil, Albert Dietrich, wrote the remaining movements. Today this "Scherzo" usually stands alone. Violinist Kiyomi Sakurai will be joined by pianist Tae Min Han for this performance. Session A - Number 38.

TIMOTHY SOMERS

- Professor Derek Weller, Sponsor

Bottesini, Concerto No. 2 in B minor for Double Bass and Piano: Allegro.

Giovanni Bottesini, a Romantic composer, lived from 1821 to 1889 and composed this work for double bass in 1847. A virtuoso double bassist himself, Bottesini wrote volumes of music for his instrument to help strengthen its role as a solo instrument. Brian Bartusch is the pianist for this presentation. Session A - Number 34.

Session Presentation Abstracts

Department of Physics and Astronomy

EVELYN BREZNIK

- Professor Ernie Behringer, Sponsor
Modeling Magnetic Rotation Spectroscopic Signals. Nitric oxide, a by-product of high temperature fuel combustion in air, is known to destroy ozone and can remain in the stratosphere for years. The technique of magnetic rotation spectroscopy (MRS) can be used to determine concentrations of this emission. Expanding on previous research, students at EMU are exploring the MRS technique in both theoretical and experimental aspects. This presentation reports theoretical results and explains the principles upon which the theoretical model is based. Session A - Number 13.

PATRICK J. MEKLED

- Professor Norbert Vance, Sponsor
Acquisition and Digital Enhancement of Astronomical CCD Images at Sherzer Observatory. Digital images of astronomical objects with high aesthetic quality have recently been acquired at Sherzer Observatory. Using the ST-8 CCD imager and 10 inch refracting telescope, faint celestial objects can be adequately imaged by adjusting the telescope's optical system to produce a near-true representation of the intended object with reasonably short exposure times. Furthermore, after calibrating images for known defects, powerful enhancement techniques can be employed to reveal fine details not apparent in the raw image. Session B - Number 48.

Department of Political Science

STACEY BOND

- Professor Michael Harris, Sponsor
Welfare Reform of 1996. This project analyzes the Personal Responsibility and Work Opportunity Reconciliation Act of 1996 (H.R. 3734), based on data from national and state levels. The study offers examples of states with model programs and states with severe shortcomings in their programs. Also included are a discussion of problems with data collection and recommendations for future legislation and programs regarding welfare policy. Session A - Number 26.

VICTORIA MCKINNEY

- Professor Michael Harris, Sponsor
Ordinary Men. This paper critically examines the thesis of Christopher Browning's *Ordinary Men*, that members of Reserve Police Battalion 101, who participated in mass murders of Jews in occupied Poland during WWII, were "ordinary men." Based on extensive research including Daniel J. Goldhagen's *Hitler's Willing Executioners* and other scholarship debating the validity of the opposing analysis, the study affirms Browning's thesis. Session A - Number 27.

ANDREW MILSTEIN

- Professor Edward Sidlow, Sponsor
Bill, Hillary, Linda and Me: Using Technology to Teach American Government. Students in two "Introduction to American Government" Honors classes were given Web-based exercises to enhance their learning experience. Utilizing an established chat room, Web links, and the Infotrac research engine, the students were guided through a series of assignments that culminated in a learning journal. The presentation includes a synopsis of the project, an evaluation of its outcome and a review of existing literature on supplemental student instruction. Session A - Number 5.

Session Presentation Abstracts

HEATHER ONDERCIN

- Professor Jeffrey Bernstein, Sponsor
What Women (in Congress) Want. Members of Congress have numerous goals, one of which is to represent their constituency. The study examines if female members of Congress seek not only to represent their constituency but also to represent womankind. The research examines committee assignments and transfers for female members of Congress for the past four sessions of Congress. It then compares these findings to male representatives' assignments and transfers to determine if women have a distinct agenda in Congress. Session A - Number 32.

THOMAS WERNER

- Professor Margaret Howard, Sponsor
The Media's Capital Gains. This project explores the level of capitalist bias in nightly news programs. Using a five-point scale, the study coded stories for bias, comparing NBC, CBS, ABC and PBS. The former three shared roughly the same amount of bias, while PBS remained relatively bias-free. The study suggests the difference in bias may be attributed to levels of corporate involvement, and explores other theories that may explain the findings. Session A - Number 33.

Department of Psychology

AUGUST J. CLARK

- Professor Silvia von Kluge, Sponsor
What is the Mechanism of Taste-Potential? A Test of Two Theories. Taste-potential occurs when a taste and an odor are combined and followed by illness, that is, both taste and odor become aversive by virtue of being presented together. To determine which theory of associative conditioning accounts for the taste-potential, we conditioned such an aversion and then extinguished one of the components. One theory predicts this should eliminate the aversion ("within compound"), and the other predicts no effect ("indexing"). Session A - Number 14.

ERIN HUNT and VINCENT CICILLINI

- Professor Alida Westman, Sponsor
Attitudes toward Choice in Dying (Physician-Assisted Suicide). 218 Michigan voters answered a questionnaire about assisted suicide during the two weeks prior to the 1998 election in which it was on the ballot. Both the written comments and alternative answers chosen indicate that the differences in attitudes reflect experiences others don't consider, or philosophies of life others would not be willing to accept. Session A - Number 21.

JENNIFER A. KODRIK

- Professor John W. McHoskey, Sponsor
Ambivalent Sexism. Glick and Fiske's (1996) concept of Ambivalent Sexism is outlined. They identify two types of sexism: 1) Hostile Sexism, which includes sexually based prejudice as traditionally defined; and 2) Benevolent Sexism, which includes positive but prejudicial attitudes toward women (e.g., women should be cherished). Relationships between these two types of sexism and other socio-political attitudes (e.g., acceptance of rape myths, interpersonal violence, sexual aggression and sexual conservatism) were examined. Session C - Number 92.

JOSHUA MCCULLOUGH

- Professor John W. McHoskey, Sponsor
Reduction of Prejudice Through Intergroup Contact. Gordon Allport's (1954) original Contact Hypothesis for reducing intergroup prejudice is outlined. Contemporary revisions of Allport's theory, based on subsequent empirical assessments, are presented. Relevant experimental and quasi-experimental studies are employed to illustrate the application of the Contact Hypothesis in intergroup settings. Process-oriented theories of prejudice which can account for the prejudice-reducing effects of intergroup contact are outlined. Session C - Number 93.

Session Presentation Abstracts

*Department of Sociology,
Anthropology, and Criminology*

NICOLE M. BATTJES

- Professor Liza Cerroni-Long, Sponsor
Evolution of the Human Brain. The study summarizes the new perspective on thinking processes currently emerging from the interdisciplinary analysis of evolutionary processes, neurochemical responses to sensory input, and cultural conditioning of perception and cognition. Session A - Number 15.

KATHERINE BECK-EI

- Professor Ronald Westrum, Sponsor
Evolution of Social Welfare Organizations. The paper considers the changing forms taken by organizations that administered charity during the preceding four hundred years in England and the United States. Particular attention is given to the ideologies that have shaped the activities of such organizations as the Charitable Organization Societies and the Settlement House movement. Session A - Number 25.

BRIAN DAWSON and RACHEL SMITH

- Professor Patrick Easto, Sponsor
The Effect of Religiosity on Homophobia. Findings relating religiosity and homophobia based on an accidental sample involving students in a classroom are compared to those based on a random sample of EMU students. The results have implications for exploring the relationship between religiosity and homophobia, as well as for the validity of the two sampling techniques. Session C - Number 94.

WANDA HEINZ

- Professor Ira M. Wasserman, Sponsor
Long-Term Care and the Elderly: A Focus on Finance. Provision and utilization of long-term care for the elderly presents economic challenges for both the public and private sectors. Analysis of the coverages and limitations of Medicare, Medicaid, and private insurance reveals the catastrophic out-of-pocket expenses incurred by the elderly, leaving many of them poverty stricken. The need for reform prompts two opposing political views, making movement toward a solution slow and costly. Session A - Number 22.

PATRICIA LINDSAY

- Professor Ira M. Wasserman, Sponsor
Attitudes Toward Euthanasia and Physician-Assisted Suicide. This paper examines attitudes toward euthanasia and physician-assisted suicide among health care professionals and the general American population in relation to the age, gender, race, education, political orientation, marital status, and religiosity of the two groups of respondents. Session A - Number 23.

PAUL SALAH

- Professor Barbara Bilgé, Sponsor
Palestinian Refugees Speak of Their Dispossession. As a result of the Arab-Israeli conflict and Israeli land acquisition, many dispossessed Palestinians have migrated to other nations, including the United States. Interviews with Detroit Palestinian refugees about how their eviction and resettlement affects their lives and outlooks today adds a dimension to the understanding of the Arab-Israeli conflict rarely reported in U.S. media. Session C - Number 85.

Session Presentation Abstracts

Women's Studies Program

NATALIE HOLBROOK

- Professor Laura George, Sponsor

Haunting as a Form of Political Knowledge in Popular Culture. This paper examines the prevalence of metaphors of ghosts and haunting in popular culture, arguing that these metaphors provide a particularly compelling way to address issues of historical oppression and violence. Haunting is a language of the people, present in popular culture from literature to hip hop, and addresses a deep cultural need to engage with lost and silenced voices in order to think critically about the world. Session C - Number 99.

KATHLEEN IVANOFF

- Professor Ellen C. Schwartz, Sponsor

Two Ways of Looking at Feminist Films: The Hidden Male and The Female Gaze. This presentation analyzes two "feminist" films, *Thelma and Louise*, and *The Piano*, exploring the symbolic and filmic techniques which make one a traditional example of "the male gaze" and the other a representation of a female point of view. Two short film clips will accompany the paper. Session B - Number 49.

JENNIFER (BAILEY) MEAD

- Professor Rachel Brett Harley, Sponsor

Fem C.O.R.E.: Building a Grassroots Political Organization. This presentation articulates the experience of founding Fem C.O.R.E., the Feminist Coalition Organizing for Rights and Equality. Specifically, it focuses on the experiences of fundraising, political action, consciousness raising, networking, and publicity. Discussion of obstacles and conflicts encountered and how these were resolved is also included. Session C - Number 76.

COLLEGE OF BUSINESS

Department of Marketing

MARY TAYLOR

- Professor Roger Peterson, Sponsor

"Fortress Europe": The American Perspective. "Fortress Europe" is the idea that in the wake of the Economic Union in Europe, protectionist policies will escalate, creating trade barriers for the United States. This presentation focuses on how this concept has evolved and how the U.S. can, sometimes with restrictions, become an "insider" instead of an "outsider." It also considers whether this concept has materialized and offers recommendations for U.S. firms who wish to be successful in the EU market. Session B - Number 44.

COLLEGE OF EDUCATION

Department of Health, Physical Education, Recreation and Dance

SARAH BETH ALLEN, MARY DURBIN, CHRIS HUGHEY, EMILY SHOUP and CARLA WHITE

- Professor Joann McNamara, Sponsor

Suite Romance. This dance has been reconstructed in memory of former dance faculty member Linda Crum Hemmelgarn (1948 - 1998), and is performed in celebration of her choreographic gifts to us. Choreographer: Linda Crum Hemmelgarn. Reconstructed by: Chris Hughey. Music: Nat King Cole. Session A - Number 40.

Session Presentation Abstracts

Department of Special Education

Department of Teacher Education

ELLEN L. AUGUST

- Professor Sandra McClennen, Sponsor

Depression: It Isn't "Just a Phase". Teachers of students at every grade level are seeing an increase in children and adolescents diagnosed with depression. This presentation offers current and future teachers strategies for identifying and helping the depressed child in school. Reasons, symptoms, treatment, and myths of childhood and adolescent depression in our schools are addressed. Session A - Number 8.

JEANNE JOHNSTON

- Professor Sandra McClennen, Sponsor

Rolling Along: A Look at Wheelchair Accessibility at EMU. Following leg surgery, the author needed to use a wheelchair for several months. Her experience using a wheelchair on the EMU campus identified many unexpected physical obstacles. This presentation is based on this experience, interviews with EMU staff and students who use wheelchairs, and on research in the *Eastern Echo* archives. Session A - Number 10.

WENDY FAITH ROGOWSKI

- Professor Sandra McClennen, Sponsor

Depression: It Isn't "Just a Phase". Depression is not just a phase or unhappy stage of normal development. This presentation focuses on the myths and realities surrounding childhood and adolescent depression. It includes emphasis on the "who", "what" and "why" of depression and provides information to educators concerning recent research on interventions for depression in our school-age population. Session A - Number 9.

ERIN MCVEIGH, JAIME HONEYCUTT and EMILIE MENA

- Professor Betty Lou Barber, Sponsor

Beyond the Classroom Boundaries: Techniques for Learning About Infants. A family study was designed to guide student learning about the importance of the first 30 months of a child's life. During home observations, students interview a family to learn how physical space, time, and energy assist or constrict access to satisfaction of the young child's cognitive, emotional and social needs. Developmental changes are documented and activities are designed and implemented to understand the complexities and realities of the influence of caregivers and parents. Session C - Number 111.

MAUREEN WARREN RAY

- Professor Patricia Williams-Boyd, Sponsor

Celebrate Our Differences! This presentation features an eighteen day unit of instruction on the exploration, demonstration and creation of spontaneous and deliberate art associated with the cultures of medieval England, the Native American Indian, African Americans, women artists, and the student's personal culture. The lessons will challenge the student to explore issues of human and self purpose and will promote freedom of creation as well as a celebration of self and others. Session B - Number 68.

KATHRYN KRUPA, MATT ANTON, ALLISON RODNEY, ADRIENNE GOSS and MICHELLE BEEBE

- Professor Rebecca Martusewicz, Sponsor

What Does it Mean to Become Educated? Putting Our Visions into Practice. This panel presentation explores the important relation between theory and practice in education. Drawing on and analyzing both personal values and educational theory, students develop a philosophy of education, connecting their vision of the kind of person the world needs to actual classroom practices they hope to engage as public school teachers. Session B - Number 69.



Session Presentation Abstracts

COLLEGE OF HEALTH AND HUMAN SERVICES

Department of Associated Health Professions

ANDREW DORR

- Professors Roberto Torres and Richard Douglass,
Sponsors

The Growing Health Insurance Gaps of the Medicaid Population, Working Poor and the Near Old. This presentation focuses on the United States health care industry's failure to provide quality health care and health care insurance to the Medicaid population, the working poor and the near old. Potentially devastating ramifications for the health care industry and U.S. society of continued growth of the number of uninsured and underinsured in these populations is also considered. Session C - Number 77.

KARA FOURMAN

- Professor Ben Atchison, Sponsor

Looking for Occupation in Occupational Therapy: A Study of Physical Disabilities Treatment Settings. This qualitative research project studies the use of occupation – activity that is meaningful to the client – in settings that focus on the treatment of persons with physical disabilities. An apparent decline in occupation-centered activity and an increased emphasis on the use of exercise programs and other modalities which are more specific to physical therapy practice has blurred roles and created confusion among health care consumers and payers. Session C - Number 78.

ANGELA SCHMENK

- Professor Ruth Ann Hansen, Sponsor

Ethical and Legal Dimensions of Confidentiality in Health Care. In a recent survey, breach of patient confidentiality was a prevalent concern identified by occupational therapists. Health care professionals are required ethically and

legally to keep confidential any private information that a consumer discloses. This presentation uses a case as a means of discussing courses of action that a professional may take to resolve an ethical dilemma about confidentiality. Attendees will develop courses of action that are satisfactory resolutions to this situation. Session A - Number 24.

Department of Social Work

CYNTHIA EDMONDS

- Professors Marjorie Ziefert and Kaaren S. Brown,
Sponsors

The Role of Qualitative Research in a Quantitative Research Project. This presentation highlights the ways in which qualitative information, gained from a series of focus groups, can be used in the development of a quantitative survey. Process steps will be outlined utilizing information gained from a research project designed to measure levels of violence against female students and the effects this has on their on academic lives. Session C - Number 112.

COLLEGE OF TECHNOLOGY

Department of Interdisciplinary Technology

DAVID SCHULTZ

- Professor Pamela Becker, Sponsor

Y2K: Live, Die, or Something In-Between?

The possible effects of the Y2K problem vary from nothing happening at all, to things as common as a coffee maker shutting down, or possibly to things as major as a 100% power grid failure. In the next 10 years will we be returning to a hunting and gathering society or will we be flying our cars to work? The answers to these and other Y2K concerns lie not in knowing how to fix computers but in deciding what computers to fix. Session C - Number 79.

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Thank You

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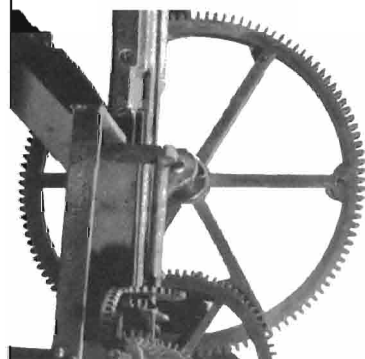
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Andrei Codrescu

Widely known for his distinctive perspective and brilliant musings on American culture, today's speaker, Andrei Codrescu, has for 15 years been a contributor to National Public Radio's *All Things Considered*. An accomplished author and poet, he further enjoys a distinguished international reputation in both verbal and visual media.

Born in Romania in 1946, Codrescu immigrated to the United States 20 years later and is now a U.S. citizen. His 1991 book, *The Hole in the Flag*, presented an exile's view of the 1989 revolution in his homeland. Currently he is Professor of English at Louisiana State University in Baton Rouge. Aside from his radio commentary, he edits a literary journal, *Exquisite Corpse*.

His extensive list of publications includes three novels, four collections of his poetry, a translation of poems by Romania's great modern poet, Lucian Blaga, three modern poetry anthologies and 10 collections of social commentary essays. Additionally he has produced several audio tapes, including *The Valley of Christmas*, described by one reviewer as "a Transylvanian folk tale twisted into a modern fable," and a 1993 film, *Road Scholar*.

Among his many awards are the Big Table Poetry Award (1970), the A.D. Emmart Humanities Award (1983), the ACLU Freedom of Speech Award (1995), the George Foster Peabody Award (1996), the Literature Prize of the Romanian Cultural Foundation (1996) and the Pope Foundation Journalism Award (1997).

Codrescu has been termed "one of our most prodigiously talented and magical writers," cited for his "superb" command of language and praised as "a wordsmith par excellence." His work on film and on the radio, according to a *New York Times* review, "is defined by the tensions at play between humor and sentiment, between one-liners and aphorism, and between immigrant optimism and dissident cynicism." We are delighted to welcome this distinguished literary artist as this year's Symposium speaker.

