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AIR FORCE INSTITUTE OF TECHNOLOGY CONTRIBUTIONS TO AIR FORCE RESEARCH AND DEVELOPMENT

CALENDAR YEAR 1987

APRIL 1988

DEPARTMENT OF THE AIR FORCE
AIR UNIVERSITY

AIR FORCE INSTITUTE OF TECHNOLOGY
Wright-Patterson Air Force Base, Ohio

AFIT

CONTRIBUTIONS TO AIR FORCE RESEARCH AND DEVELOPMENT

CALENDAR YEAR 1987

I. INTRODUCTION

The primary mission of the Air Force Institute of Technology (AFIT) is education, but research and consulting are essential integral elements in the process. This report highlights AFIT's contributions to Air Force research and development activities. If the readers desire any further information or wish to obtain reprints of reports they may contact the author directly by calling the department extension listed on pages 5 and 6 of this report or they may contact the Dean for Research and Professional Development, AFIT/NR, in Room 2016 of Building 125 on extension 55835.

AFIT welcomes the opportunity to do research on topics of interest to the Air Force and other DoD organizations. Thesis or faculty research topics may be sent directly to the appropriate departments or mailed to AFIT, Dean for Research and Professional Development, AFIT/NR, Wright-Patterson Air Force Base, Ohio 45433-6583.

For commercial calls add the prefix 25- to the extension shown on pages 5 and 6. The Area Code is 513. For AUTOVON calls add the prefix 78- to the extension number.

II. DEPARTMENT SYMBOLS AND LOCATIONS

School of Engineering (EN) Bldg 640

		Room	Extension
EN	Office of Dean Dr. J.S. Przemieniecki	100	53025
ENC	Dept of Matematics Dr. Vadim Komkov	114	53098
ENG	Dept of Electrical Engineering Dr. J.J. D'Azzo	218	52024
ENP	Dept of Physics Dr. R.L. Hengehold	106	52012
ENS	Dept of Operational Sciences Col M.A. Nichols	204	53362
ENY	Dept of Aeronautics and Astronautics Dr. P.J. Torvik	201	53069

School of Systems and Logistics (LS) Bldg 641

		Room	Extension
LS	Office of Dean Col L.L. Smith	100	55361
LSM	Dept of Logistics Management Lt Col J.M. Halliday	327	55023
LSL	Dept of Contract Law Dr. J.W. Garrett	213	53809
LSP	Dept of Contracting Management Dr. W.C. Pursch	213	53944
LSQ	Dept of Quantitative Management Lt Col R.E. Peschke	217	56280
LSR	Dept of Communications & Organiza- tional Science Lt Col J.A. Lindsey	324	52254
LSY	Dept of System Acquisition Management Lt Col John Dumond	220	53355

Civil Engineering School (DE) Bldg 125	Room	Extension
DE Office of Dean		
Col G.E. Cannon, Jr.	2266	52004
DEE Dept of Engineering Applications		
Maj S.T. Tom	2267	54552
DEH Dept of Housing and Services		
Maj J.C. Rutledge	2267	58387
DEM Dept of Management Applications		
Maj M.N. Goltz	2267	54552

Civilian Institutions Programs (CI) Bldg 125

	Room	Extension
CI Office of Dean		
Col E.M. Gleason	1050	52259

III. FACULTY CONSULTATIONS

910 Consulting Activities - Calendar Year 1987

Summary

SPONSORS

Base Civil Engineers	110
ASD	98
USAF Contractors	66
HQ AFLC	51
USA	47
AFPROs & DCASRs	44
AFAL	33
USN	30
HQ USAF	28
DOD	28
ALCs	27
AFWL	25
AFESC	23
FTD	21
SPACECOM	17
HQ AFWAL	16
AFFDL	15
MAC	14
SAC	13
UNIVERSITIES	10
AAMRL	9
AFML	9
AFTAC	9
FOREIGN GOVERNMENTS	9
RADC	8
AFCC	8

DEPARTMENTS*

LSP	167
ENG	119
DET	111
DEM	97
LSQ	89
LSY	89
ENP	77
LSM	46
ENY	38
ENS	26
LSR	26
ENC	24
TOTAL	910**

**INCLUDES SOME
 FROM DEAN'S
 OFFICE

6 each from USAFE, HQ AFSC, AU, SD, AFCOLR, DESC
5 each from PACAF, 4950 TW, AD AFAPL, AFALC, AFAA
4 each from AFOSR, DARPA, 2750 ABW, DOT, TAC, ESD, AFFTC
3 each from NSF AFTWAC, DOE, AFRCE, AF Academy, DOV, AFMPC
        Merchant Marine Academy, House Appropriations
        Committee
2 each from SDIO, NPGS, AFHRL, Coast Guard
1 each from AEDC, AFISC, NASA, SBA, AFATL, ATC, AFRPL, AFBRMC,
        VA, GAO, National Guard, Federal Acquisition
        Institute, Education Test Service

* Department symbols and location shown on pages 5 and 6.

CY 1987 CONSULTING ACTIVITIES

Jan 87-1   HQ AFLC/MMLP   P. Bresnahan, C.F. Youther.
                            Redesign of Initial Process (LSM)

Jan 87-2   AFLC/XO   Capt R.D. Mabe. Modeling Tech-
                            niques for Non-Aircraft Systems
                            (LSM)

Jan 87-3   McDonnell-   Capt J.H. Kutzke. RCM on the C-17
            Douglas   (LSM)

Jan 87-4   AFLC/MMTRP   Capt J.H. Kutzke. RCM Publications
                            (LSM)

Jan 87-5   ASD/YPLI   Lt Col R.E. Peschke. Equipment
                            Tracking System (LSQ)

Jan 87-6   AFWAL/MLTC   Lt Col R.E. Peschke. CAD/CAM DBMS
                            Interface (LSQ)

Jan 87-7   ASD/SIR   Lt Col R.E. Peschke. MIS for ASD
                            (LSQ)

Jan 87-8   House Appropri- Capt H.R. Conner. Source Selection
            ation Committee Procedures (LSP)

Jan 87-9   AF/RDCL   Capt H.R. Conner. Contract Admin
                            for Base Level Contracting (LSP)

Jan 87-10   Ogden ALC   Capt H.R. Conner. Contract Delin-
                            quencies (LSP)

Jan 87-11   SAC/LGT   Capt H.R. Conner. Contracts for
                            SATO (LSP)

Jan 87-12   DCASMA Dayton   Maj B.C. Cox. Cost Breakdown (LSP)

Jan 87-13   TROSCOM   Lt Col L.A. Ewart. Education for
            St. Louis   Contracting (LSP)

Jan 87-14   DESC, Dayton   M. Wiviott. Contracting Authority
                            (LSP)

Jan 87-15   NSC-Alerneda   J.F. Gill. Responsiveness of Bids
                            (LSP)

Jan 87-16   OCALC   H.M. Pryor. VECP Ideas. (LSP)

Jan 87-17   RDB Corp   H.M. Pryor. Preliminary VECP (LSP)

Jan 87-18   DESC Columbus   H.M. Pryor. Contract Termination
                            (LSP)

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Jan 87-19   DESC Richmond   H.M. Pryor. VECP Sharing (LSP)

Jan 87-20   Pine Bluff   H.M. Pryor. VE Sharing (LSP)
             Arsenal

Jan 87-21   ASD/B-1B   D.N. Goetz. Disposal of Government
                              Property (LSP)

Jan 87-22   AFLC   L.J. Mercier. Cost Benefit Study
                              (LSQ)

Jan 87-23   AFPRO Aerojet   L.J. Mercier. Model Specifications
                              (LSQ)

Jan 87-24   AFLC   L.J. Mercier. Statistical Housing
                              Study (LSQ)

Jan 87-25   NSWSC Dahlgren   Capt B.J. Faenga. Negotiating
                              Tactics (LSQ)

Jan 87-26   AFCOLR   Maj J.A. Ballard. Survey Develop-
                              ment (LSR)

Jan 87-27   AFLC/XR   Capt K.R. Jennings. Reorganization
                              (LSR)

Jan 87-28   FTD   J.A. Muller. Ethics (LSR)

Jan 87-29   ASD/C-17   Capt R.L. Davis. Production Readi-
                              ness Review (LSY)

Jan 87-30   Canada   Capt D. Gleason. Covariance
                              Analysis (ENY)

Jan 87-31   Grummen   M.E. Franke. Fluid Control (ENY)

Jan 87-32   Lockheed   M.E. Franke. Thrust Vector Control
                              (ENY)

Jan 87-33   AAMRL   Capt S. Kramer, C. Spenny. Design
                              Project (ENY)

Jan 87-34   AFWL/TAL   S. Mall. Laser Induced Fracture
                              (ENY)

Jan 87-35   AF/LE-RD   Lt Col T. Schuppe. Decision Making
                              in Procurement (ENS)

Jan 87-36   Space Com   Lt Col G. Parnell, Maj B. Attack
                              Assessment Analysis (ENS)

Jan 87-37   Space Com/XP   Lt Col G. Parnell, Maj B. Morlan.
                              Space Strategy and Survivability
                              (ENS)

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Jan 87-38	AFWL/ARDA	E.A. Dorko. Chemical Laser (ENP)
Jan 87-39	AFWL/AWPP	Maj J.A. Luko. MHD Simulations (ENP)
Jan 87-40	AFWL/NTCAS	G. John. Geigh-Mueller Detectors (ENP)
Jan 87-41	ASD/YPR	Maj J.P. Mills. Flight Test Program (ENP)
Jan 87-42	SDIO	Lt Col R.F. Tuttle. Space Nuclear Reactor (ENP)
Jan 87-43	AFRPL/CW	Lt Col H.E. Evans. Chemical Propulsion (ENP)
Jan 87-44	AAMRL/CC	Maj E.S. Kolesar. Piezoelectric Toctility (ENG)
Jan 87-45	AFCC	Maj D. Hibner. Computer Network Security (ENG)
Jan 87-46	AFWAL/AAAT	Maj D.A. King. Fast Forien Transforms (ENG)
Jan 87-47	ASD/TAPB	Maj D.A. King. Spectrum of Modulated Signals (ENG)
Jan 87-48	AFWAL/AAT	M. Kabrisky, Capt S. Rogers. MAVIS Program (ENG)
Jan 87-49	AFWAL/AARM	M. Kabrisky, Capt S. Rogers. SAR Images (ENG)
Jan 87-50	AFWAL/AAAJ	Capt S. Rogers. HAVE LACE Program (ENG)
Jan 87-51	AFWAL/AA	Maj G.E. Prescott. Modulation Detection (ENG)
Jan 87-52	AFWAL/AAA	Maj G.E. Prescott. Digital EW Receiver (ENG)
Jan 87-53	FTD/TQC	Maj G.E. Prescott. Network Vulnerability (ENG)
Jan 87-54	AFWAL/AAL	Lt Col R.R. Gross. VHSIC Hardware Language (ENC)
Jan 87-55	AFWAL/FIG	J. Jones. Flight Control Problems (ENC)

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Jan 87-56	AFFTC	A.H. Moore. Non-Parametric Modeling (ENC)
Jan 87-57	4950th TW	Maj D.C. Herge, D.R. Barr. Statistical Problem (ENC)
Jan 87-58	NFCTC	D. Osgood. Quality Assurance (DEM)
Jan 87-59	OEHL	P. Kokoropoulus. HW Mixtures and Solution (DEM)
Jan 87-60	Penn State	D. Osgood. Quality Control/ Assurance (DEM)
Jan 87-61	SAC-Minot	D.H. Shavers. Readiness (DEM)
Jan 87-62	DEI-Minot	J.W. Gaffney. Customer Service (DEM)
Jan 87-63	ASD/YW	D. Osgood. Facility Readiness (DEM)
Jan 87-64	HQ MAC/DEEC	D. Osgood. Contract Management (DEM)
Jan 87-65	AF/LEEV	Maj M.N. Goltz. AFR 19-11 Review (DEM)
Jan 87-66	BCE/George AFB	Maj M.N. Goltz. Staff Assist Visit (DEM)
Jan 87-67	HQ MAC/DEPR	Capt A.P. Negri. Building Renovation (DEM)
Jan 87-68	BCE/Tinker AFB	Capt A. Luebben. Customer Services (DEM)
Jan 87-69	BCE/Travis AFB	Capt A. Luebben. Facility Replacement (DEM)
Jan 87-70	BCE/Little Rock	Capt S.E. Streifert. COCESS Contracts (DEM)
Jan 87-71	BCE/WPAFB	Capt A.P. Negri. APF/NAF Funds Mixing (DEM)
Jan 87-72	BCE/WPAFB	Capt D.P. Colman. Community Planner (DEM)
Jan 87-73	AFLC	Capt W.D. Alley. CADD Systems (DET)
Jan 87-74	Space Com	Maj W.J. Bierck. EMCS Functions (DET)

Jan 87-75   AFLC   Capt W.D. Alley. Maintenance Funds
                          (DET)

Jan 87-76   AFLC   Capt W.D. Alley. Computer
                          Inventory (DET)

Jan 87-77   HQ USAF   Capt W.D. Alley. IG Systems (DET)

Jan 87-78   AFESC   Capt W.D. Alley. IG Systems (DET)

Jan 87-79   BCE/WPAFB   Capt P. Transmeier. Life Cycle
                          Costing (DET)

Jan 87-80   AFLC   Capt W.D. Alley. Preparing DPA
                          Documents (DET)

Jan 87-81   AFLC   Capt W.D. Alley. Preparing APR
                          (DET)

Jan 87-82   HQ AFLC/SI   Capt W.D. Alley. IGS at ORNL (DET)

Jan 87-83   AFESC/SI   Capt W.D. Alley. Air Force IGS
                          Program (DET)

Jan 87-84   AFMPC/DPMSXC Capt W.D. Alley. Commerical
                          Systems (DET)

Jan 87-85   HQ AFLC   Capt W.D. Alley. CADD System
                          Tracking Tools (DET)

Jan 87-86   2750 ABW/DEM Capt P. Transmeier. VAV Control
                          (DET)

Jan 87-87   HQ SAC   Capt J.L. Monserrate. Shielding
                          (DET)

Jan 87-88   BCE/WPAFB   Capt J.L. Sullivan. Boiler Silica
                          (DET)

Feb 87-89   ASD/ZG   D.E. Campbell. Decision Making
                          (LSM)

Feb 87-90   AF/LETZ   Maj K.N. Goudin. Education
                          Programs (LSM)

Feb 87-91   ASD/YPLI   Capt R.D. Mabe. Import of
                          Reliability Change (LSM)

Feb 87-92   AFWAL/MLTC   Lt Col R.E. Peschke. Design
                          Optimization (LS)

Feb 87-93   ASD/SI   Lt Col R.E. Peschke. Information
                          Systems Design (LSQ)

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Feb 87-94	AFCOLR	Lt Col R.D. Matrina. New Technologies (LSM)
Feb 87-95	AFISC	Lt Col B.P. Christensen. Time Series Forecasting of Aircraft Accidents (LSY)
Feb 87-96	DCASMA, IN	R.L. Wells. Subcontracting Plan (LSP)
Feb 87-97	TROSCOM St Louis	Lt Col L.A. Ewart. DOD 5000.48 (LSP)
Feb 87-98	DESC	M. Wiviott. Contracting Officer Authority (LSP)
Feb 87-99	USN	R.L. Wells. ST/STE Design (LSP)
Feb 87-100	DCASMA Dayton	LCDR B. Davenport. Consideration for Delinquency (LSP)
Feb 87-101	Space Com	Maj R.H. Sand. Contract Training (LSP)
Feb 87-102	ESD	H.M. Pryor. Value Engineering (LSP)
Feb 87-103	ARADCOM	J.F. Gill. Contract Time Extension (LSP)
Feb 87-104	Eglin AFB	R.L. Wells. Warranties (LSP)
Feb 87-105	AFPRO, GE	R.L. Wells. Modifications (LSP)
Feb 87-106	House Appro.	Capt H.R. Conner. Contract Source Selection Criteria (LSP)
Feb 87-107	HQ SAC	Maj R.H. Sand. Training Opportunities (LSP)
Feb 87-108	USN	M. Wiviott. Indefinite Quantity Contract (LSP)
Feb 87-109	USA, Ft Lee	Capt H.R. Conner. Scheduling Methods (LSP)
Feb 87-110	AFLC/GPAS	J.F. Gill. Waivers in Software Contracts (LSP)
Feb 87-111	TROSCOM-USA	Lt Col L.A. Ewart. Professional Designation (LSP)
Feb 87-112	HQ SAC	Capt B.J. Faenza, P.H. Stein. SATO Contract Type (LSQ)

Feb 87-113   DGSC/PCBA   Capt W.L. Motlong. Admin. Overhead
                               Rats (LSQ)

Feb 87-114   Grand Forks AFB   C.J. Adams. Catalog Pricing (LSQ)

Feb 87-115   DPSC-LO   L.J. Mercier, J.C. Danerman.
                               Marketing Segmentation (LSQ)

Feb 87-116   USN   L.J. Mercier, J.C. Danerman. Bill
                               of Material (LSQ)

Feb 87-117   SM-ALC   L.J. Mercier. Raw Inflation
                               Indices (LSQ)

Feb 87-118   AFLC/MA   Lt Col J.T. Lindsey. Evaluation
                               Research (LSR)

Feb 87-119   USN   Maj J.A. Ballard. Organizational
                               Assessment (LSR)

Feb 87-120   AFLC/XRX   Capt K.R. Jennings. Evaluation
                               Research (LSR)

Feb 87-121   BMO/ACCI   R.C. Antolini. APSCP 73-5 (LSY)

Feb 87-122   AD-Eglin AFB   R.C. Antolini. MIL-STD-88/A
                               Requirements (LSY)

Feb 87-123   Bell Labs   R.C. Antolini. CPR Analysis (LSY)

Feb 87-124   ASD/B-1   A.P. D'Angelo. Budget-Facilities
                               Support (LSY)

Feb 87-125   ASD/C-17A   Capt R.L. Davis. C-17 Software
                               Management (LSY)

Feb 87-126   USAF/RDXM   W.A. Dean. Draft AFR 14-XX (LSY)

Feb 87-127   AFSC/SDXP   W.A. Dean. Configuration
                               Management (LSY)

Feb 87-128   AFLC   S.J. Epstein. Data Management
                               (LSY)

Feb 87-129   ASD/F-16   Capt M. Kwon. Acquisition
                               Management (LSY)

Feb 87-130   ASD   Capt M. Kwon. FMS (LSY)

Feb 87-131   USAF/AC   D. McCarty. Cost Estimating (LSY)

Feb 87-132   AD Eglin AFB   Lt Col A.H. Presutti. Revision of
                               Baseline (LSY)

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Feb 87-133	USA	Lt Col A.H. Presutti. Subcontracted Material (LSY)
Feb 87-134	BMO/MGPM	Lt Col A.H. Presutti. Zero Budget War Packages (LSY)
Feb 87-135	AFWAL/FIG	J. Jones. Multiparameter Simulation (ENC)
Feb 87-136	4950th TW	Maj D.C. Herge, D.R. Barr. Statistical Problem (ENC)
Feb 87-137	DFVLR Wes Germany	Capt D.W. Fautheree. Artificial Intelligence (ENG)
Feb 87-138	AFWAL	Capt R.W. Linderman. VLSI Research (ENG)
Feb 87-139	FTD/QTA	Capt R.W. Linderman. VLSI Program (ENG)
Feb 87-140	AFWAL/AAW	P.S. Maybeck. Tracker for Missile Threats (ENG)
Feb 87-141	NRL	T.C. Hartrum. Hypercube Computer (ENG)
Feb 87-142	AFWAL	Capt R. Yost. Lightning Interaction (ENG)
Feb 87-143	FTD	Capt D.W. Fautherce. Classified Project (ENG)
Feb 87-144	AV/AC	Capt M. Roth. Wargamming (ENG)
Feb 87-145	COMSEC Ctr	Maj D.V. Hibner. Computer Security (ENG)
Feb 87-146	AFWAL/AARJ	Capt S. Rogers, Maj J. Mills. Agile Beam Steering (ENG)
Feb 87-147	ASD/ENFTC	P.S. Maybeck. Kalman Filter (ENG)
Feb 87-148	AFWAL/ML	G. Lamont. Robotics and AI (ENG)
Feb 87-149	FTD	Maj G.E. Prescott. Spread Spectrum Communications (ENG)
Feb 87-150	ASD/ENAMA	T.E. Luke. FR Infrared Signatures of Jets (ENP)
Feb 87-151	USAF/SA	T.E. Luke. Lois Observables (ENP)

Feb 87-152	AFWAL/POOC	W.F. Bailey. Negative Ion Sources (ENP)
Feb 87-153	AFWL/ARBC	T.E. Luke. Infrared Detectors (ENP)
Feb 87-154	AFWAL/AARI	Maj J.P. Mills. Agile Beam Steering (ENP)
Feb 87-155	ASD/YPRC	Maj J.P. Mills. Classified Subject (ENP)
Feb 87-156	AFWAL/MLPB	G. John. Synthetic Fibers (ENP)
Feb 87-157	AFWL	W.F. Bailey. Chemical Laser Systems (ENP)
Feb 87-158	AFCOMS	Col M.J. O'Connell. Operations Research (ENS)
Feb 87-159	Corning Glass	M.L. Williams. Research Review (ENY)
Feb 87-160	AFLC/LOC	Capt D. Robinson. Data Analysis Techniques (ENY)
Feb 87-161	AFFTC	P.J. Torvik. Technical Advisor (ENY)
Feb 87-162	AFLC	Capt W. Alley. AFLC CADD Systems (DET)
Feb 87-163	BCE-Rickenbac	Capt R.M. Benson. Urethane Floor Coat (DET)
Feb 87-164	ASD	Capt R.M. Benson. Life Cycle Costing (DET)
Feb 87-165	HQ PACAF	Capt L.J. Blake. Labor Utilization (DEM)
Feb 87-166	BCE-Norton AFB	Capt L.J. Blake. PFMR (DEM)
Feb 87-167	BCE-Scott AFB	Capt L.J. Blake. Reimbursements (DEM)
Feb 87-168	HQ PACAF	Capt L.J. Blake. Shop Rates (DEM)
Feb 87-169	BCE/WPAFB	Capt J.A. Hudson. Constructions (DET)
Feb 87-170	BCE/Kelly AFB	Maj H.F. Kelly. Soils Evaluations (DET)

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Feb 87-171   AFLC   Capt J.L. Monsenate. Contract
                                Litigation (DET)

Feb 87-172   HQ PACAF   Capt L.A. Morris. Corrosion (DET)

Feb 87-173   BCE-Beale AFB   Capt A.P. Negri. Work flow Process
                                (DEM)

Feb 87-174   BCE-Scott AFB   Capt A.P. Negri. MC Projects (DEM)

Feb 87-175   384 CSG/DEEV   Capt A.P. Negri. P-341 Programming
                                (DEM)

Feb 87-176   Yokota AFB/DE   Capt A.P. Negri. Project
                                Programming (DEM)

Feb 87-177   ESD/DEPD   Capt A.P. Negri. Work Classifica-
                                tions (DEM)

Feb 87-178   HQ MAC/DEEC   D. Oagood. Contract Modification
                                (DEM)

Feb 87-179   BCE Fairchild   Lt G.W. Simpson. WIMS (DEM)

Feb 87-180   BCE Ellsworth   Capt J.L. Sullivan. Industrial
              AFB   Water (DET)

Mar 87-181   BCE Beale AFB   A. Rogers. Education (LSM)

Mar 87-182   Merchant Marine   Maj K.N. Gourdin. Transportation
              Academy   (LSM)

Mar 87-183   AFLC/MMTR   Maj J.H. Kutzke. RCM
                                Policy/Procedures (LSM)

Mar 87-184   AFLC/LOC   Capt R.D. Mabe. WSMIS Management
                                (LSM)

Mar 87-185   AFLC/LSMC   Capt R.D. Mabe. Comm. Electronics
                                Systems (LSM)

Mar 87-186   AFWAL/MLTC   Lt Col R.E. Peschke. Design
                                Optimization (LSQ)

Mar 87-187   ASD/B1   Lt Col R.E. Peschke. DBMS
                                Development (LSQ)

Mar 87-188   ASD   Lt Col J. Halliday. MISAWA Survey
                                Report (LSM)

Mar 87-189   Synergy   Lt Col J. Halliday. TSAR
                                Simulation Models (LSM)

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Mar 87-190	AFHRL	Lt Col R.D. Materma. Aircraft Maintenance (LSM)
Mar 87-191	AFLC/MMLP	P. Bresnahan, C.F. Youther. Provisioning Procedures (LSM)
Mar 87-192	AFLC/MMM	W.S. Barnes. Material Requirements (LSM)
Mar 87-193	House Appropriations Committee	Capt H.R. Connor. Contracting for Medical Services (LSP)
Mar 87-194	Space Com	Maj R.H. Sand. Contracting Policies (LSP)
Mar 87-195	ASD/ENFE	Lt Col L.A. Ewart. Quality Problems - Cruise Missiles (LSP)
Mar 87-196	TROSCOM-USA	Lt Col L.A. Ewart. Procurement Career Development (LSP)
Mar 87-197	Honeywell	H.M. Pryor. VE Collateral Savings (LSP)
Mar 87-198	Ogden ALC	H.M. Pryor. VECP Material (LSP)
Mar 87-199	TACOM-USA	H.M. Pryor. VECP-Multiple Applications (LSP)
Mar 87-200	USA-Redstone	H.M. Pryor. Contract Interaction VECP (LSP)
Mar 87-201	AFCMC	D.N. Goetz. Analysis Applications (LSP)
Mar 87-202	BCE-Eglin AFB	H.M. Pryor. Sharing Period (LSP)
Mar 87-203	Westinghouse	H.M. Pryor. FPIF Sharing (LSP)
Mar 87-204	CCAD	J.S. Jins. SSEB Procedures (LSP)
Mar 87-205	DCASMA-Dallas	J.S. Jins. Certification (LSP)
Mar 87-206	AD-Eglin	H.M. Pryor. Dual Source Sharing (LSP)
Mar 87-207	MICON-USA	H.M. Pryor. Dual Source Sharing (LSP)
Mar 87-208	NASA	R.L. Wells. Negotiations (LSP)
Mar 87-209	Navy-SPPC	H.M. Pryor. Units Covered by VECP (LSP)

Mar 87-210   USN-Seattle   J.B. Wyatt. Contractor Claims
                             (LSP)

Mar 87-211   AFPRO-Boeing   R.L. Wells. Audit Resolution (LSP)

Mar 87-212   ASD   R.L. Wells. ACO Duties and Job
                             Description (LSP)

Mar 87-213   Magnavox   R.L. Wells. Contract
                             Administration (LSP)

Mar 87-214   SBA   Capt H.R. Conner. Small Buisness
                             Trade Fair (LSP)

Mar 87-215   ASD/CV   P.H. Stein, Capt T. Brown.
                             Overhead (LSQ)

Mar 87-216   AFALC/ERR   C.W. Widenhouse. Deficient R&M
                             Information Systems (LSQ)

Mar 87-217   HQ SAC   P.A. Stein. SATO Replacement
                             Contract (LSQ)

Mar 87-218   AFCC, HQ   L.J. Mercier. Raw and Weighed
                             Inflation Indices (LSQ)

Mar 87-219   AF Audit Agency Capt B.J. Faenza. Subcontract Cost
                             (LSQ)

Mar 87-220   SM-ALC/DS   V.R. Rehy. Statistical Process
                             Control (LSQ)

Mar 87-221   ASD/ACCC   J.L. Robbins. Learning Curve
                             Applications (LSQ)

Mar 87-222   ASD/RWVW   Capt C.L. Campbell. Modifications
                             to F-4G (LSQ)

Mar 87-223   DCASR-Chicago   J.C. Daneman. Canvert Computer
                             Programs (LSQ)

Mar 87-224   HQ SAC/LGC   Capt T.W. Brown, P.H. Stein, Capt
                             B.J. Faenza. COPARS Contracts
                             (LSQ)

Mar 87-225   Loring AFB   J.A. Muller. Military Ethics.
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Mar 87-226   USN   R.C. Antolini. Operating
                             Procedures (LSY)

Mar 87-227   ASD/SBA   R.C. Antoline. Component Breakout
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Mar 87-235	OSD	Lt Col R.R. Gross. ADA Software Education (ENC)
Mar 87-236	AFWAL/AAAI	Maj W.P. Baker. Effective Radiation Pattern (ENC)
Mar 87-237	SDIO	J. Jones, Jr. BM/C^3 Program (ENC)
Mar 87-238	TAC	Col W.W. Taylor, Computer Assisted Planning Aids (ENC)
Mar 87-239	FTD/TQTA	Capt R. Linderman. Reverse-Engineering VLSI Chip Design (ENG)
Mar 87-240	AAMRL/BBA	Capt M. Leahy. Robotics Telepresence Program (ENG)
Mar 87-241	Fort Gordon	Maj D.S. Woffinden. Automation and Communications (ENG)
Mar 87-242	EOARD	Matt Kabrisky, Gary Lamont. Image Processing (ENG)
Mar 87-243	AAMRL/CC	Maj E.S. Kolesar. CHEMFET Research (ENG)
Mar 87-244	A.F. Patent Office	Maj E.S. Kolesar. Solid State Sensors (ENG)
Mar 87-245	AFWAL/FIGL	C.C. Houpis. Review of Proposals (ENG)

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Mar 87-247   ASD/YPRC   Maj J.P. Mills. F-16 (ENP)

Mar 87-248   2750 ABW   G. John. Radiological Hazards
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Mar 87-249   AFWAL/AARS-2   Maj J.P. Mills. Agile Beam
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Mar 87-250   STD   W.F. Bailey. Plasma Sheath of RV
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Mar 87-251   AFWL   W.F. Bailey, W.B. Roh. Diagnostic
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Mar 87-252   Precision   Lt Col H.E. Evans. Hollow
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Mar 87-253   AFTAC/TNT   Lt Col R.F. Tuttle. Cross Section
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Mar 87-254   AF SPACECOM   Col M. O'Connell. Research Chair
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Mar 87-255   USAFE   Lt Col Valusek. Decision Aids
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Mar 87-256   IBM   Lt Col G. Parnell. Expert System
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Mar 87-257   AF SPACECOM   Lt Col Robinson. Cost Estimation
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Mar 87-258   AF SPACECOM   Maj B. Morlan. Granite Vista (ENS)

Mar 87-259   AF SPACECOM   Lt Col G. Parnell. Expert Systems
              XPX1   for Space Operations (ENS)

Mar 87-260   AF SPACECOM   P.J. Torvik. Research Opportunites
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Mar 87-261   AFCOLR   A. Halim. Computational Fluid
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Apr 87-263   National Guard   Capt R.D. Mabe. Dyna-METRIC (LSM)

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Apr 87-298	SD/GPS	Capt M. Kwon. GSP Integration (LSY)
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Apr 87-301	FTD	Capt T. Triscari. Management Information Systems (LSY)
Apr 87-302	HQ AFRSC	Capt W.D. Alley. IGS (DET)

Apr 87-303	ASD/EN	Capt M.H. Ufnal. Branch Circuit Design (DET)
Apr 87-304	FTD	Capt S.D. Rosenbaun. FD SVS Appraisals (DEM)
Apr 87-305	SPACECOM	Capt L.J. Blake. Retrieval System (DEM)
Apr 87-306	BCE Pease AFB	J.W. Gaffney. Customer Service (DEM)
Apr 87-307	BCE McGuine AFB	J.W. Gaffney. Production Control Center (DEM)
Apr 87-308	SARPMA	J.W. Gaffney. Customer Service (DEM)
Apr 87-309	AFESC	Capt R.E. Luebben. Productivity (DEM)
Apr 87-310	BCE-Dyers AFB	Capt A.P. Negri. MILCON (DEM)
Apr 87-311	BCE Nellis	Capt A.P. Negri. Customer Requirements (DEM)
Apr 87-312	AFCG/DEPD	Capt A.P. Negri. Tenant Funding (DEM)
Apr 87-313	HQ MAC/DEEC	D.C. Osgood. Mistake in Bid (DEM)
Apr 87-314	LMI	D.C. Osgood. Inovative Contracting (DEM)
Apr 87-315	AFLC/DEEC	D.C. Osgood. Guide Specifications (DEM)
Apr 87-316	BCE-McGuine AFB	Capt D.H. Showers. Production Control (DEM)
Apr 87-317	AFESC	Capt S.C. Streifert. ESRB Planning (DEM)
Apr 87-318	HQ AFLC	Capt W.D. Alley. AFLC CADD System (DET)
Apr 87-319	BCE WPAFB	Maj W.J. Bierck. Fire Protection (DET)
Apr 87-320	AFRCE	Capt D.K. Dickson. AFM 88-15 (DET)
Apr 87-321	BCE WPAFB	Capt D.K. Dickson. Valve Selection (DET)

Apr 87-322	BCE Eglin AFB	Capt H.F. Kelly. Pavement Inspection (DET)
Apr 87-323	CLC	Capt H.F. Kelly. Claims Against the Government (DET)
Apr 87-324	BCE Chanute AFB	Capt H.F. Kelly. Pavement Management (DET)
Apr 87-325	BCE March AFB	Capt J. Monsenate. Exterior Lighting (DET)
Apr 87-326	BCE McGuine	Capt L.A. Morris. Corroded Water Lines (DET)
Apr 87-327	AFESC	Capt L.A. Morris. Cathodic Protections (DET)
Apr 87-328	WR-ALC	Capt L.A. Morris. Cathodic Protection (DET)
Apr 87-329	AF Academy	Capt J.L. Sullivan. Corroded Water Lines (DET)
Apr 87-330	AFWAL	Maj S.T. Tom. Electric Heat (DET)
Apr 87-331	WPAFB BCE	Maj S.T. Tom. Optimized Dry Bulb (DET)
Apr 87-332	ASD/EN	Capt Ufnal. Computer RM Design (DET)
Apr 87-333	DARPA	Lt Col Gross, Capt Linderman. VLSI (ENC/ENG)
Apr 87-334	2nd Weather Sq	D.R. Barr, Maj D.C. Herge. Data Analysis (ENC)
Apr 87-335	AF SpaceCom	Lt Col Parnell. Satellite Control (ENS)
Apr 87-336	ONR	M. Williams. Adhesive Research (ENY)
Apr 87-337	AFFDL	Lt Col E. Jumper. Supermaneuverability (ENY)
Apr 87-338	AFFDL	M.E. Franke. High Lift Aerodynamics (ENY)
Apr 87-339	Volkswagenwerh	Capt M. Roth. Relational Databases (ENG)

Apr 87-340	AF ICG	Lt Col Z. Lewantowicz. Inertial Navigation (ENG)
Apr 87-341	AFWAL	Capt S. Rogers. Radar Imagery (ENG)
Apr 87-342	USA Ft Gordon	Maj D.S. Woffinden. Automation Training (ENG)
Apr 87-343	TAC-Nellis	Maj P. Amburn. Decision Aids (ENG)
Apr 87-344	ASD	Maj A. Garcia. Review Contract Proposal (ENG)
Apr 87-345	VPI	Maj E. S. Kolesar. Electrod Materials (ENG)
Apr 87-346	AF TWAC	Capt B.J. Donlan. Fiber Optics System (ENG)
Apr 87-347	DARPA	Lt Col C. Bisbee. Pilots Association Program (ENG)
Apr 87-348	NRL	T.C. Hartrum. Parallel Simulation (ENG)
Apr 87-349	2750 ABW/SP	Capt M. Roth. Vehicle Registration (ENG)
Apr 87-350	ASD/EN	Maj E.S. Kolesar. R&M Study Team (ENG)
Apr 87-351	AFWAL/POOC	W. Bailey. Discharge in Electronegative Gases (ENP)
Apr 87-352	AFATL/DLMR	T.E. Luke. Nonlinear Signal Processing (ENP)
Apr 87-353	AFWAL/AARI	Maj J.E. Mills. Agile Beam Steering (ENP)
Apr 87-354	AFWL/AWPP	Maj J. Lupo. March 1 Conversion Effort (ENP)
Apr 87-355	AFWL/SC	Maj J. Lupo. Parallel Processors (ENP)
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May 87-364	ALC	J.F. Gill. Walsh Healy Act (LSL)
May 87-365	USA SATCOM	Maj S.D. Squires. Production Readiness Review (LSP)
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May 87-369	ASD C-17 SPO	D.N. Goetz. Impact of New Special Tooling (LSP)
May 87-370	ATT	H.G. Hoehl. Revised In-Plant Phase (LSP)
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May 87-374	DESC	V.R. Rehy. Quality Improvement (LSQ)
May 87-375	NAVAIR	J.L. Robbins. Estimating Production Costs (LSQ)
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May 87-378   Montgomery   Maj J.A. Stibravy. Volunteer
              County   Program Impact (LSR)

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                               (LSY)

May 87-382   ASD/PMD   Maj C.M. Farr. Consulting Network
                               (LSM)

May 87-383   ASD/ENAS   D.V. Ferens. Review of Draft DOD-
                               STD-2167A (LSY)

May 87-384   Martin Maietta   D.V. Ferens. IR&D Review (LSY)

May 87-385   STSC   A.A. Munguia. Automation of Tech
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May 87-388   SD   Lt Col E.J. Rowland. Satellite
                               Acquisition (LSY)

May 87-389   TAC/DR   Capt T.Triscari. Decision Support
                               for Battle Management (LSY)

May 87-390   AFOSR   W.B. Roh. Boron Combustion
                               Diagnostics (ENP)

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May 87-392   AFRPL   Maj J. Lupo. Anti-Matter
                               Propulsion (ENP)

May 87-393   AFWL   Maj J. Lupo. Current Advance in
                               Beam Weapon (ENP)

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May 87-398	AFWAL/AAAN	D.W. Quinn. Solution of Stiff Differential Equations (ENC)
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May 87-401	AFCOLR	A.A.M. Halim. IR&D Evaluation (ENY)
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May 87-405	AFMPC	Maj J. Lupo. SLAM Programming Language (ENS)
May 87-406	Sperry Corp	Capt N.J. Davis. IR&D Review (ENG)
May 87-407	AFAL	D. Hopper. Optical Information Processing (ENG)
May 87-408	TAC/DRI	Maj P. Amburn. Tactical Mission Planning (ENG)
May 87-409	USN	T.C. Hartrum. OBP Parallel Simulation (ENG)
May 87-410	AFAL	Lt Col C. Bisbee. Parallel Processor Requirements (ENG)
May 87-411	AFWAL/FIX	Maj E.S. Kolesar. Technology Initiatives (ENG)
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May 87-413	FTD	D. Hopper. Classified Consultations (ENG)

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May 87-417	AEDC	J.W. Gaffney. Customer Service (DEM)
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May 87-419	DNA	D.C. Osgood. Other Than F&DC (DEM)
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May 87-422	USAFE	Capt S.E. Streifert. PAT Team (DEM)
May 87-423	AFESC	Capt S.E. Streifert. ESRB (DEM)
May 87-424	HQ AFLC	Capt W.D. Alley. CADD Systems (DET)
May 87-425	BCE WPAFB	Maj W.L. Bierck. Fire Protection (DET)
May 87-426	OC-ALC	Capt D.K. Dickson. Fan Ratings (DET)
May 87-427	USAFMA	Capt D.K. Dickson. VAV System (DET)
May 87-428	BCE Tinker	Capt D.K. Dickson. Thermal Expansion (DET)
May 87-429	USA	Capt J.A. Hudson. Multi-Zone Systems (DET)
May 87-430	USAFE	Maj H.F. Kelly. Pavements (DET)
May 87-431	AFLC/DER	Maj H.F. Kelly. Taxiway Conditions (DET)
May 87-432	CLC	Maj H.F. Kelly. Claims Against Government (DET)
May 87-433	ASD	Maj H.F. Kelly C-17 Jack (DET)

May 87-434	USAFMA	Capt J.L. Sullivan. Industrial Water Treatment (DET)
May 87-435	AFLC	Capt J.L. Sullivan. Water Plant Problem (DET)
May 87-436	USA Corp	Maj S.T. Tom. Review Standards (DET)
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June 87-439	AF/XOR	Lt Col J.M. Halliday. Capatibility Assessment Program (LSM)
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June 87-444	Merchant Marine	Maj K.N. Gourdin. Logistics (LSM) Academy
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                           Model (LSQ)

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                           Contractor Proposal (LSQ)

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                           (LSR)

June 87-457 MICOM   H.M. Pryor. Value Engineering
                           Sharing (LSP)

June 87-458 OER Study   Lt Col J.A. Ballard. Performance
                           Appraisal (LSR)

June 87-459 AFLC/XRXD   Capt K.R. Jennings. Strategic
                           Objective Six (LSR)

June 87-460 AFWAL   R.C. Antolini. Cost Schedule
                           Control Systems Criteria (C/SCSC)
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June 87-461 ASD/ACCM   R.C. Antolini. Restriction of
                           Competition (LSY)

June 87-462 GAO   R.C. Antolini. Evaluation of Data
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June 87-463 Justice Dept   Maj W.F. Bowlin. Stokes Case (LSQ)

June 87-464 DCASPRO/Ford   Maj W.F. Bowlin. Maj W.F. Bowlin
                           DIVAD Termination (LSQ)

June 87-465 SA-ALC   S.J. Epstein. Overview of Data
                           Management (LSY)

June 87-466 Basic Tech Corp S.J. Epstein. Component Breakout
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June 87-467 Pratt & Whitney S.J. Epstein. Electronic
                           Transmittal of Data (LSY)

June 87-468 ASD/ACCR   D.V. Ferens. Proposed Cost Data
                           Item (LSY)

June 87-469 ASD/EN   D.V. Ferens. Comments on Proposed
                           Software Data (LSY)

June 87-470 DOT   A.A. Mungier. Automation of
                           Technical Publications (LSY)

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June 87-474	AFWAL/AARI	Maj J. P. Mills. Non-Linear Oktics (ENP)
June 87-475	AFWAL	T. E. Luke. Technology Transfer (ENP)
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June 87-477	AFTAC/TN	Lt Col R. F. Tuttle. Reacts By-Products (ENP)
June 87-478	Cincinnati Elect.	T. E. Luke. Infrared Retector Arrays (ENP)
June 87-479	JCS/J8	Lt Col J. R. Valusek. Modern Aids to Planning Program (ENS)
June 87-480	ASD	Lt Col G. Parnell. Intelligent Decision Systems (ENS)
June 87-481	Univ of Colorado	Lt Col G. Parnell. Spare Operations (ENS)
June 87-482	Commissary Service	Maj J. R. Titko. Forecasting and Inventory Simulation (ENS)
June 87-483	AAMRL/BRA	Capt M. Leahy. Robotics Telepresence (ENG)
June 87-484	Lockheed Corp	Lt Col C. Bisbee. Pilot Associate Program (ENG)
June 87-485	Tectronics Corp	G. Lamont. Computer-Aided Software (ENG)
June 87-486	AFWAL/FI	C. H. Houpis. Flight Control Chair (ENG)
June 87-487	AFFDL	Capt D. Gleason. Tech Reprot Review Committee (ENY)
June 87-488	AAMRL/BBM	C. H. Spenny. Human Response Models (ENY)

June 87-489 USAFE   J. W. Goffney. Customer Service
                             (DEM)

June 87-490 RAF Lakenhealth J. W. Goffney. Customer Service
                             (DEM)

June 87-491 BCE Luke AFB   Capt D. H. Showers. Readiness
                             (DEM)

June 87-492 D-M AFB, BCE   Capt D. H. Showers. Readiness/OPS
                             Management (DEM)

June 87-493 HQ AFLC   Capt W. D. Alley. AFLC CADD System
                             (DET)

June 87-494 USA   Capt D. K. Dickson. Mixed Air
                             Control (DET)

June 87-495 USARK   Capt L. A. Morris. Cathodic
                             Protection (DET)

June 87-496 OC-ALC   Capt L. A. Morris. Corrosion (DET)

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                             Protection (DET)

June 87-498 Tajes AFB   Capt J. L. Sullivan. Corrosion
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July 87-512	NPGS	R. L. Wells. Sole Space Small Purchase (LSP)
July 87-513	AF Audit Agency	R. L. Wells. Cost Control Closeout (LSP)
July 87-514	VAREL Corp	J. S. Jines. Just-In-Time Inventory Management (LSP)
July 87-515	DCSC	R. L. Wells. Contract Administrations (LSP)
July 87-516	USA	Lt Col L. A. Evant. Disputes and Terminations (LSP)
July 87-517	DCASMA	R. L. Wells. Unsolicited Proposals (LSP)
July 87-518	Univ of Maryland	M. Wiviott. Potential Evaluation (LSL)
July 87-519	DCASMA-Chicago	Maj C. L. Reea. Value Engineering Change Proposals (LSP)
July 87-520	ASD/YSE	W. C. Widenhouse. Program Support (LSQ)
July 87-521	USN	Capt B. V. Falnza. Limitations on Negotiation Team Members (LSQ)
July 87-522	ASD/B1-B	Lt Col R. E. Peschkke. Information Systems Design (LSQ)
July 87-523	USN-JDMAO	Lt Col J. A. Ballard, Capt C. L. Davis. Organizational Feedback (LSR)
July 87-524	AFLC/XRY	Capt K. R. Jennings. AFLC Reorganization (LSR)

July 87-525	NSF	Maj W. F. Bowlin. Proposal Review (LSQ)
July 87-526	ASD	Capt T. Triscari. AI in Systems Acquisition (LSY)
July 87-527	AFWAL	Capt T. Triscari. Intelligent Decision Systems (LSY)
July 87-528	Elect Indust Assoc	W. A. Dean. Status Accounting (LSY)
July 87-529	HQ AFJC/JAT	S. J. Epstein. Data Rights Challenges (LSY)
July 87-530	AFSC/SD	S. J. Epstein. Engineering Data Management Class Support (LSY)
July 87-531	Hill AFB	S. J. Epstein. Engineering Drawing Workshop (LSY)
July 87-532	RG&G Comp	S. J. Epstein. Data Management Career (LSY)
July 87-533	ASD/AWZ	S. J. Epstein. Systems Managment (LSY)
July 87-534	AFWAL/AAAI	W. Baker. Acquisition Scan Pattern Analysis (ENC)
July 87-535	Univ Oklahoma	D. R. Ban. Teaching Statistics Courses (ENC)
July 87-536	FTD	D. Hopper. Optical Information Tech Review (ENG)
July 87-537	AFWA	P. J. Maybeck. Tracker Research (ENG)
July 87-538	AFWAL/AARM	Capt S. Rogers, M. Kabrisky. Automated Recognition Algorithms (ENG)
July 87-539	AFWAL/AAAT	Capt S. Rogers, M. Kabrisky. Neurocomputer (ENG)
July 87-540	RADC/ESE	Maj J. Degroat. CMOS VLSI Design (ENG)
July 87-541	ASD/ENECE	Maj E. S. Kolesar. Solid State Thermoelectric (ENG)
July 87-542	Honeywell	Maj E. S. Kolesar. Technical Evaluation of JR&D Project (ENG)

July 87-543	ASD/CC	Maj E. S. Kolesar. Reliability and Maintainability (ENG)
July 87-544	OSD	D. Hopper. Optical Processing Technology Strategy (ENG)
July 87-545	AFWAL/ML	Maj J. P. Mills. Narrow Band Optical Filters (ENP)
July 87-546	AFTAC/TN	Lt Col R. F. Tuttle. Modification of ORIGEN II Code (ENP)
July 87-547	RADC	Lt Col J. P. Mills, Neural Networks (ENP)
July 87-548	DOE	Lt Col R. F. Tuttle, Loss of Coolant Incidents (ENP)
July 87-549	AFCOLR	Y. K. Yeo. IR&D Evaluation-Boeing (ENP)
July 87-550	AFWL	R. L. Hengekold. Atmospheric Laser Research (ENP)
July 87-551	HQ AFCOMS	Naj Litko. Inventory Management (ENS)
July 87-552	TAWC/JNA	M. E. Franke. Weapons Effects (ENY)
July 87-553	AFWL	Lt Col E. Jumper. Chemical Lasers (ENY)
July 87-554	HQ AFESC	Capt W. D. Alley. CADD System (DET)
July 87-555	Carswell AFB	Capt R. P. Fink. Commissary Problems (DEM)
July 87-556	AFRSC	Capt R. P. Fink. Control Law (DEM)
July 87-557	Sheppard AFB	Capt D. L. Sullivan. Amine Treatment in Hospital (DET)
July 87-558	RAF Takenheath	J. W. Gaffney. Customer Service (DEM)
July 87-559	4392 Aero Sq	D. C. Osgood. FY Funding (DEM)
July 87-560	MAC/DEEC	D. C. Osgood. Contract Funding (DEM)
July 87-561	Newark AFS	Capt S. E. Streifert. Environmental Overview (DEM)

July 87-562	Travis AFB	Capt D. K. Dickerson. Value Controls (DET)
July 87-563	Tinker AFB	Capt R. P. Fink. Hazardous Locations (DEM)
July 87-564	WPAFB	Capt J. L. Sullivan. IWT (DET)
July 87-565	Vandenberg AFB	Capt J. L. Sullivan. Santa Ynez WTP (DET)
July 87-566	Chanute AFB	Maj S. T. Tom. Boiler Feedwater Pump (DET)
July 87-567	NAS	Maj S. T. Tom. Explain DDC Terins (DET)
July 87-568	McClellan AFB	Maj S. T. Tom. VAV Return Fan (DET)
Aug 87-569	USA	M. Wiviott. Use of Copyright Material (LSL)
Aug 87-570	Coast Guard	J. W. Garrett. Bankruptcy of Prime Contractor (LSL)
Aug 87-571	WPAFB	Lt Col R. E. Peschke. Contract Evaluation (LSQ)
Aug 87-572	Ontario AFS	J. L. Robbins. Cost Estimating Methods (LSQ)
Aug 87-573	Maekstrom AFB	Capt W.L. Motlong. Pricing on Contrast Modification (LSQ)
Aug 87-574	ASD/YSR	C. C. CWidenhouse. R&M Problems (LSQ)
Aug 87-575	Ogden ALC	Lt Col J. T. Lindsey. Evaluation of Pacer Impact Project (LSR)
Aug 87-576	AFALC/LSY	Capt R. D. Mabe. Initial Spare Parts Cost (LSM)
Aug 87-577	Dynamic Research Corp	Capt R. D. Mabe. Dyna-METRIC Model (LSM)
Aug 87-578	Merchant Marine Academy	Maj K.N. Gourdin. Transport Curriac (LSM)
Aug 87-579	DOT	A. A. Munguia. Engineering Data Development (LSY)

Aug 87-580   SAF   Lt Col E. J. Rowland. Book Review
                                      (LSY)

Aug 87-581   DCASPRO   Maj W. F. Bowlin. Contract
                                      Termination (LSQ)

Aug 87-582   ASD-NASP   Capt M. H. Kwon. Request for
                                      Proposal Package (LSY)

Aug 87-583   Electrical   W. A. Dean. Configuration Status
              Industry Assoc.   Accounting (LSY)

Aug 87-584   Coast Guard   R. C. Antolini. Establish Cost
                                      Schedule Systems (LSY)

Aug 87-585   DCASMA   R. C. Antolini. Handling Cost
                                      Decrease and Increase (LSY)

Aug 87-586   USA-MICOM   H. M. Pryor. Value Engineering
                                      Sharing (LSP)

Aug 87-587   USA-TACOM   H. M. Pryor. VE Change Proposal
                                      (LSP)

Aug 87-588   E-Systems   H. M. Pryor. Nature of VE
                                      Change Proposal (LSP)

Aug 87-589   AROSR   Capt J. Clark, Space Selection
                                      (LSQ)

Aug 87-590   AFPRO   J. S. Jines. Types of Contracts
                                      (LSP)

Aug 87-591   Raytheon   J. S. Jines. In-Plant Visit Phase
                                      PPM 153 (LSP)

Aug 87-592   HQ DLA   J. S. Jines. VE Applications to
                                      Subcontractors (LSP)

Aug 87-593   AFRSC   H. G. Hoehl. Line of Balance (LSP)

Aug 87-594   WPAFB   J. S. Jines. Defense Priority and
                                      Allocation System (DPAS) (LSP)

Aug 87-595   Fed Acquisition   R. L. Wells. Contract Specialist
              Inst.   Competencies (LSP)

Aug 87-596   HQ MAC   Maj R. H. Sand. Flight Training
                                      Contracts (LSP)

Aug 87-597   HQ SAC   R. L. Wells. Progress Payments
                                      (LSP)

Aug 87-598	ASD/AEES	Maj D. Herge, O. Reynolds. Mean Time Between Failure (ENC)
Aug 87-599	AFWAL/AAAI	Maj R. P. Baker. Optimal Coding (ENC)
Aug 87-600	6585TG	Lt Col Z. Lewantowicz. Integrated INS-GPS (ENG)
Aug 87-601	Lockheed	Capt M. Leahy. Optimal Motion Stablization (ENG)
Aug 87-602	USA	Maj D. S. Woffinden. Occupational Survey (ENG)
Aug 87-603	AFEWC	Maj P. Amburn. Mission Planning Software (ENG)
Aug 87-604	AMD/RD	Maj E. S. Kolesar. CW Agent Detector and Dosimeter (ENG)
Aug 87-605	RADC	G. B. Lamont. Knowledge-Based Software (ENG)
Aug 87-606	ASD/RNETV	Capt S. Rogers, M. Kabrisky. Autonomous Target Finding (ENG)
Aug 87-607	AFWL/ARBB	Capt S. Rogers, M. Kabriksy, Lt Col J. P. Mills. High Resolution Imaging Thru Atmosphere (ENG)
Aug 87-608	USA	CAPT N. Davis. Academic Standards (ENG)
Aug 87-609	JTFPMO FA McClean	CAPT N. Davis, Tactical Fusion Program (ENG)
Aug 87-610	AFWAL	Capt R. Linderman. VHDL System Discriptions (ENG)
Aug 87-611	FTD	D. Hopper. Optical Processing and Computing (ENG)
Aug 87-612	Univ Southern Mississippi	LTC A. B. Garcia. Teleprocessing Science (ENG)
Aug 87-613	AF/XOORS	Maj P. Amburn. Mission Planning (ENG)
Aug 87-614	Army Research Inst.	Y. Chan. MANPRINT Project (ENS)

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Aug 87-615	NPGS	Lt Col J. Faix. Analysis for Operational Testing (ENS)
Aug 87-616	HSD	Lt Col G. Parnell, Capt T. Triscari. Intelligent Decision Systems for Acquisition (ENS) (LSY)
Aug 87-617	AU/CADRE	Lt Col J. N. Robinson. Space Wargaming (ENS)
Aug 87-618	AFWAL/NTCOD	Lt Col J. P. Mills. Neural Networks to Process 2-D Imagaing
Aug 87-619	AFTAC	Lt Col C.J. Bridgeman. Nuclear Research (ENP)
Aug 87-620	AFTA/TN	Capt D. E. Beller. Detection of Radio Xenon Isotopes (ENP)
Aug 87-621	DNA	Maj D. H. Stone. High power Microwave (ENP)
Aug 87-622	AFTA/XR	Lt Col R. F. Tuttle. Radioisotope Survey Missions (ENP)
Aug 87-623	AFWL	W. F. Bailey. Oxygen-Iodine High Energy Laser (ENP)
Aug 87-624	LANL	LCDR K. A. Mathews. Transport Research (ENP)
Aug 87-625	AFWL/ARBI	W. B. Roh. Thesis Research (ENP)
Aug 87-626	2750th ABW	G. John. Radiological (ENP)
Aug 87-627	DOE	Lt Col R. F. Tuttle. SP-100 Ground Engineering System (ENP)
Aug 87-628	HQ SAC	P. J. Torvick. Damage to Radar Domes (ENY)
Aug 87-629	AFWL	P. J. Torvick. Laser Effects on Solids (ENY)
Aug 87-630	Lockheed	M. E. Franks. IR&D Inspection (ENY)
Aug 87-631	ARTPS	R. A. Calico. Joint Programs (ENY)
Aug 87-632	HQ AFLC	Capt W. D. Alley. IGS (DET)
Aug 87-633	Hq AFLC	Capt W. D. Alley. CADD Systems (DET)

Aug 87-634	Tinker AFB	Capt J. L. Monsenate. Shielding (DET)
Aug 87-635	Grand Forks AFB	Capt L. A. Morris. Cathodic Protection (DET)
Aug 87-636	March AFB	Capt L. A. Morris. Corrosion (DET)
Aug 87-637	Scott AFB	Capt L. A. Morris. CP Design (DET)
Aug 87-638	AF/LEEEV	Maj S. T. Tom. DDC Implementation Plan (DET)
Aug 87-639	WPAFB	Capt M. H. Ufnal. Low Voltage Problem (DET)
Aug 87-640	Minot AFB	J. W. Gaffney. Customer Service (DEM)
Aug 87-641	Rickenbacker AFB	J. W. Gaffney. Productivity Control Center (DEM)
Aug 87-642	93 CSG/DEED	D. C. Degood. Brand Name Specification (DEM)
Aug 87-643	Elmendorf AFB	Capt D. H. Shoevers. Work Order Schedule (DEM)
Sep 87-644	AFWAL	Lt Col R. Gross. VHDL Database Management Systems (ENC)
Sep 87-645	MAC/ACD	P. Nagarsenker. Configuration Management Matrix (ENC)
Sep 87-646	AFWAL/FIESD	M. E. Oxley. Survivability (ENC)
Sep 87-647	SAC/NR	A. H. Moore. Reliability Education (ENC)
Sep 87-648	DARPA	Capt S. Rogers, M Kabrisky. Neural Networks (ENG)
Sep 87-649	FTD	D Hopper. Optical Computing (ENG)
Sep 87-650	AFWAL/AFAL	D. Hopper. Optical Computing (ENG)
Sep 87-651	RADC	D. Hopper. Optical Computing (ENG)
Sep 87-652	AFWAL/AARM	Capt S. Rogers, M . Kabrisky. Smart Autonomous Weapons (ENG)
Sep 87-653	FTD/TQC	Maj D. E. Meer. Radar Research (ENG)

Sep 87-654	AFWAL/AAAM	Maj D. E. Meer, Capt R. Jost. Radar-AI Research (ENG)
Sep 87-655	USA	Maj D. S. Woffinden. Education Requirements (ENG)
Sep 87-656	USA	Maj D. S. Woffinden. Selection Board Member (ENG)
Sep 87-657	McDonnell Douglas	F. M. Brown. IR&D Evalution (ENG)
Sep 87-658	AU	Capt M. Roth. Wargaming (ENG)
Sep 87-659	AFWAL/AAD	Capt R. Linderman. Thin Film Research (ENG)
Sep 87-660	FTD	Maj G. E. Prescott. Soviet Spread Spectrum Systems (ENG)
Sep 87-661	AFWAL/AAW	Maj G. E. Prescott. Modulation Detection (ENG)
Sep 87-662	AFWAL/AAI	Maj G. E. Prescott. Patent Evaluation (ENG)
Sep 87-663	Univ of Kansas	Maj G. E. Prescott. Communication System Simulation (ENG)
Sep 87-664	DSD	D. Hopper. Optical Processing (ENG)
Sep 87-665	SAC/NR	Capt M. Roth. Wargaming Simulation (ENG)
Sep 87-666	DCEC	Maj G. E. Prescott. Defense Data Network (ENG)
Sep 87-667	AFTAC	Lt Col R. F. Tuttle. Modification of Isotope Production Code (ENP)
Sep 87-668	DRNL	Lt Col R. F. Tuttle. Modification of ORIGEN Codes (ENP)
Sep 87-669	LANL	Lt Col R. F. Tuttle. Core Coding Problems (ENP)
Sep 87-670	AFWL	R. L. Hengehold. Laser Damage to Thin Optical Coatings (ENP)
Sep 87-671	AFWL	R. L. Hengehold, W. F. Bartey, W. B. Roh. Laser Optics (ENP)

Sep 87-672	Argonne National Lab	Capt M. J. Jabochick. Plasma Research (ENP)
Sep 87-673	NSF	Y. K. Yeo. Proposal Evaluation (ENP)
Sep 87-674	MAC	Y. Chan. Operations Research (ENS)
Sep 87-675	ASD	Lt Col G. Parnell, Capt T. Triscari. Decision Aids (ENS) (LSY)
Sep 87-676	Rockwell	Lt Col G. Parnell. Advanced Computing and Project Management (ENS)
Sep 87-677	AFML	M. E. Franke. Laser Effects on Materials (ENY)
Sep 87-678	AFFDL	M. E. Franke. Gun Range Problems (ENY)
Sep 87-679	AFWL	Lt Col R. Bagley. Optical Transmissiviiity in Solider (ENY)
Sep 87-680	AFWL	Maj T. Hinnericks. Structural Damping of Composite Materials (ENY)
Sep 87-681	AF/LE-RD	Maj T. Hinnericks. Proposal Evaluation (ENY)
Sep 87-682	WPAFB	Lt Col J. M. Halliday, Maj L. W. Emmelhaing. Advisors to AF Tiger Team (LSM)
Sep 87-683	AFLC/MN	E. W. Spitzer. Reliaibility Centered Maintenance (LSM)
Sep 87-684	AFLC/MAJ	Maj F. J. Barciak. Industrial Fun (LSM)
Sep 87-685	AFISC	Lt Col B. P. Christensen. Forecasting Aircraft Accidents (LSM)
Sep 87-686	OC-ALC	H. M. Pryor. Value Engineering (LSP)
Sep 87-687	SM-ALC	H. M. Pryoe. Value Engineering Sharing (LSP)
Sep 87-688	USN	R. L. Wells. Progress Payments (LSP)

Sep 87-689	NAVPRO	R. L. Wells. Progress Payments (LSP)
Sep 87-690	CDC	H. G. Hoehl. In-Plant Program PPM-153 (LSP)
Sep 87-691	Honeywell	D. N. Goetz. Resolution of Title Rights (LSP)
Sep 87-692	NAVPRO	D. N. Goetz. Resolution of Title Rights (LSP)
Sep 87-693	USA-TROSCOM	Lt Col L. A. Evart. Procurement Training Program Requirements (LSP)
Sep 87-694	USA	H. M. Pryor. Value Engineering Sharing (LSP)
Sep 87-695	UNISYS Corp	H. G. Hoehl. In-Plant Program PPM-153 (LSP)
Sep 87-696	DSMC	J. S. Jines. Membership on Education Committee (LSP)
Sep 87-697	DCASMA	R. L. Wells. Loss Ratio Factor Analysis (LSP)
Sep 87-698	Reflectone, Inc	H. G. Hoehl. In Plant Program PPM-153 (LSP)
Sep 87-699	USA	J. S. Jines. Functions of Defense Industrial Base Organization
Sep 87-700	ASD/AEG	R. D. Kankey, LCDR C. W. Schumaker. Applicability of Inflation Factor for Fuel Useage (LSQ)
Sep 87-701	AFPRO	J. L. Robbins. Identification of Estimating Methods (LSQ)
Sep 87-702	WPAFB	Capt C. L. Campbell. Auditing R&M During Acquisition (LSQ)
Sep 87-703	DCASPRO	Capt B. J. Faenza. Pricing of Subcontracts (LSQ)
Sep 87-704	ASD/AACCE	J. C. Daneman. Mehthods for Deriving Cost Indices (LSQ)
Sep 87-705	USN	LCDR G. R. Kauffman. Contract Pricing (LSQ)

Sep 87-706	WPAFB	Lt Col R. E. Peschke. Data Base Transfer (LSQ)
Sep 87-707	ASD/YZLR	L. J. Mercier. Cost Benefit Analysis for Engine Replacement (LSQ)
Sep 87-708	DCASMA	L. J. Mercier, J. C. Daneman. Prediction Internal for Learning Curve Data (LSQ)
Sep 87-709	ASD/YSE	W.C. Widenhouse. Reliability (LSQ)
Sep 87-710	SM/ALC	Capt K.R. Jennings. Info Systems and Organizational Structure (LSR)
Sep 87-711	DESC	R.P. Steel. Management Feedback Project (LSR)
Sep 87-712	AFALC/ERC	D.V. Ferens. Post Development Software Support (LSY)
Sep 87-713	DOT	A.A. Munguia. Technical Data Automation (LSY)
Sep 87-714	SD/CND	Lt Col E.J. Rowland. Satellite Acquisition (LSY)
Sep 87-715	OADS/DPPO	Capt D.S. Christensen. Productivity Investment Fund Procedures (LSY)
Sep 87-716	ASD/YYHS	Capt R.A. Andrews. Program Management Review (LSY)
Sep 87-717	Pratt & Whitney	S.J. Epstein. New Data Rights Clauses (LSY)
Sep 87-718	DCASPRO	Maj W.F. Bowlin. Termination Costs (LSQ)
Sep 87-719	AFLC	Capt W.D. Alley. CADD Systems (DET)
Sep 87-720	BCE-McDill	Capt D.K. Dickson. CERL Panels (DET)
Sep 87-721	BCE-WPAFB	Capt D.K. Dickson. Humidity Control (DET)
Sep 87-722	BCE-WPAFB	Capt D.K. Dickson. Natural Draft Towers (DET)

Sep 87-723   AF RCE   Capt D.K. Dickson.   Duct Desgin
                              (DET)

Sep 87-724   PACAF   Capt D.K. Dickson.   New ETL 83-1
                              (DET)

Sep 87-725   WPAFB   Capt D.K. Dickson.   Positive
                              Pressure (DET)

Sep 87-726   Bergstrom AFB   Capt D.K. Dickson.   Return Fans
                              (DET)

Sep 87-727   Nellis AFB   Capt D.K. Dickson.   Controls (DET)

Sep 87-728   March AFB   Maj H.F. Kelly.   T/W Project March
                              (DET)

Sep 87-729   AFESC/DEMP   Maj H.F. Kelly.   MARS Seminar (DET)

Sep 87-730   513 CES   Capt R.A. Bascomb.   Field
                              Accounting (DEM)

Sep 87-731   AFESC   Capt S.D. Rosenbaum.   Billeting
                              Improvement (DEM)

Sep 87-732   ASD   Capt D.P. Colman.   Programming
                              (DEM)

Sep 87-733   Holloman AFB   J.W. Gaffney.   Prediction Control
                              Center (DEM)

Sep 87-734   2849 ABG/DEEB   D.C. Osgood.   Warranties (DEM)

Sep 87-735   Elmendorf AFB   Capt D.H. Showers.   Work Order
                              Allocation (DEM)

Sep 87-736   Newark AFS   Capt S.E. Streifert.   Regional
                              Conference (DEM)

Oct 87-737   DESC   Lt Col J.A. Ballard.   Org and
                              Product Quality Improvements (LSR)

Oct 87-738   ASD/CC   Capt K.R. Jennings.   Longitudinal
                              Organizational Development (LSR)

Oct 87-739   AU/JA   J.W. Garrett.   Faculty Status (LSL)

Oct 87-740   DLA   M. Wiviott.   Patents for Government
                              Employees (LSL)

Oct 87-741   ASD/EN   J.B. Wyatt.   Value Engineering
                              (LSP)

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Oct 87-742   DLA   R.L. Wells. Progress Payment
                                 Training (LSP)

Oct 87-743   HQ MAC   R.L. Wells. Source Selection (LSP)

Oct 87-744   WR/ALC   R.L. Wells. Control Administration
                                 (LSP)

Oct 87-745   King Industries   H.M. Pryor. Meaning of "Unit"
                                 (LSP)

Oct 87-746   Nellis AFB   R.L. Wells. Increased Quantities
                                 (LSP)

Oct 87-747   DOT   Maj R.H. Sand. Competition
                                 Advocate (LSP)

Oct 87-748   NAVPRO   R.L. Wells. Working Capital
                                 Adjustment on Profit (LSP)

Oct 87-749   DOD   R.L. Wells. Cost Contract Vouchers
                                 (LSP)

Oct 87-750   HQ MAC   Maj R.H. Sand. Contract Award
                                 Vouchers (LSP)

Oct 87-751   DCASPRO/IBM   R.L. Wells. Sole Source Threshold
                                 (LSP)

Oct 87-752   DCASMA   Lt Col L.A. Ewart. Advanced
                                 Contract Training (LSP)

Oct 87-753   USN   S.J. Epstein. Overpriced Spare
                                 Parts (LSY)

Oct 87-754   SD/CND   Lt Col E.J. Rowland. Contract
                                 Support (LSY)

Oct 87-755   ASD/YYJ   A.A. Munguia. Level 3 Engineering
                                 Data (LSY)

Oct 87-756   ASD/YZFL   A.A. Munguia. Contracting for
                                 Technical Orders (LSY)

Oct 87-757   ASD/RWK   Lt Col G.L. Delaney. Review of REP
                                 (LSM)

Oct 87-758   AFLC/MMTE   D.V. Ferens. Statement of Work
                                 (LSY)

Oct 87-759   AF Cost Ctr   D.V. Ferens. Collecting Software
                                 Support Data (LSY)

Oct 87-760	AFWAL/FIX	Capt T. Triscari. Research Programs (LSY)
Oct 87-761	AFWAL/MLTC	Lt Col R.E. Peschke. Design Optimization Methods (LSQ)
Oct 87-762	ASD/B1-B	Lt Col R.E. Peschke. Ejection Seat Interface (LSQ)
Oct 87-763	DCASPRO	J.L. Robbins. Learning Curves (LSQ)
Oct 87-764	DCSC	Lt Col G.R. Kaufman. DoD Profit Policy (LSQ)
Oct 87-765	ASD/YZ	V.R. Rehg. Reliability Data (LSR)
Oct 87-766	AFALC/ERR	W.C. Widenhouse. R&M Data Analysis (LSQ)
Oct 87-767	ASD/AEG	R.D. Kankey. Estimate POL Infalation Factor (LSQ)
Oct 87-768	JUSMAG	R.D. Kankey, Lt Col C.W. Schumaker. Life Cycle Costing (LSQ)
Oct 87-769	Sinclair College	J.D. Meadows. Computer Information Advisory Committee (LSY)
Oct 87-770	Canada	P.M. Bresnahan. LOG-PLAN-X (LSM)
Oct 87-771	McDill AFB	Capt R.M. Benson. BUR (DET)
Oct 87-772	Minot AFB	J.W. Gaffney. Customer Service (DEM)
Oct 87-773	21 CSG	D.C. Osgood. Guide Specifications (DEM)
Oct 87-774	AFLC/DEMG	D.C. Osgood. Construction Inspection (DEM)
Oct 87-775	AFLC/DEEC	D.C. Osgood. Postaward Conference (DEM)
Oct 87-776	Tinker AFB	Capt S.E. Sheifert. EPC Subjects (DEM)
Oct 87-777	AFLC	Capt W.D. Alley. AFLC CADD System (DET)
Oct 87-778	ASD	Capt R.M. Benson. Life Cycle Costing (DET)

Oct 87-779	Seymore Johnson	Capt D.K. Dickson. Pneumatic Controls (DET)
Oct 87-780	Kessler AFB	Capt D.K. Dickson. Relays (DET)
Oct 87-781	WPAFB	Capt J.A. Hudson. Thrift Shop (DET)
Oct 87-782	ASD/DE	Capt J.L. Sullivan. Ind. Water Treatment (DET)
Oct 87-783	2750 ABW/DEM	Maj J.T. Tom. Repair DDC Control (DET)
Oct 87-784	McMahon Ass.	Maj S.T. Tom. Humidity Sensors (DET)
Nov 87-785	AFWL/AR	W.F. Bailey. Kinetic Studies in ROTO Coil (ENP)
Nov 87-786	DNA	Maj D.H. Stone. Radiation Effects (ENP)
Nove 87-787	OSD	Maj D.H. Stone. Radiation Effects (ENP)
Nov 87-788	ORNL/RSIC	Lt Col R.F. Tuttle. ORIGEN2 Code (ENP)
Nov 87-789	DOE	Lt Col R.F. Tuttle. Progress Review (ENP)
Nov 87-790	RADC	Dr. Hopper. Proposal Review (ENG)
Nov 87-791	AFWAL/AAAI	Dr. Hopper. 3-D Holographic Display (ENG)
Nov 87-792	FTD	Dr. Hopper. Foreign Electro Optics Technology (ENG)
Nov 87-793	RADC	Capt S.K. Rogers, Matt Kabrisky. Photorefractive Nonlinear Crystals (ENG)
Nov 87-794	ESD/PLET	Maj J. DeGroat. VHDL in the Acquisition Process (ENG)
Nov 87-795	AFWAL/AADE	Capt R. Linderman. VHDL Data Items Description (ENG)
Nov 87-796	FTD/TQCs	Maj G.E. Prescott. Block Oriented System Simulator (ENG)

Nov 87-797	AAMRL/THB	D.W. Quinn. Mathematical Modeling (ENC)
Nov 87-798	AFWAL/POTX	M.E. Oxley. Reliability of Solar Power (ENG)
Nov 87-799	AF/SCT	Capt D. Umphress. ADA Programming (ENC)
Nov 87-800	McDonnel-	Lt J. Planeaux. Composite Manufacture (ENY)
Nov 87-801	AFTPS	Maj D. Gleason. Thesis Topics (ENY)
Nov 87-802	AFSC/SDXP	W.A. Dean. Configuration Management (LSY)
Nov 87-803	DoD	A.A. Munguia. Automation of Technical Data (LSY)
Nov 87-804	AFLC/MMTEF	D.V. Ferena. Life Cycle Cost Model (LSY)
Nov 87-805	AD	Lt Col A.H. Presculti. Control Reporting Requirements (LSY)
Nov 87-806	RADC	R.C. Antolini. Cost Scheduling (LSY)
Nov 87-807	Canada	R.C. Antolini. Cost Scheduling (LSY)
Nov 87-808	WPAFB	S.J. Epstein. Data Management Handbook (LSY)
Nov 87-809	FTD	Capt M.H. Kwon. Source Selection (LSY)
Nov 87-810	SAC/CC	V.R. Rehy. Quality Teams (LSQ)
Nov 87-811	ASD/PMFA	Capt S.A. Marcy. Pricing/Cost Analysis (LSQ)
Nov 87-812	AFPRO	Capt B.J. Faenza. Technical Evaluators Checklist (LSQ)
Nov 87-813	ASD/YSES	W.C. Widenhouse. Reliability Data (LSQ)
Nov 87-814	AFALC/ERR	W.C. Widenhouse. Data Base Analysis (LSQ)

Nov 87-815	AFLC/MMAI	E.W. Spitzer. Reliability Centered Maintenance (LSM)
Nov 87-816	SA-ALC	E.W. Spitzer. Reliability Centered Maintenance (LSM)
Nov 87-817	AFLC/MMTQA	Capt R. Wizimirski. Reliablity (LSM)
Nov 87-818	AF/LE	A.H. Rogers. Logistic Education For Reserves (LSM)
Nov 87-819	ASD	Maj P.E. Miller. R&M on AF-1 Project (LSM)
Nov 87-820	ASD/AI	Capt J. Clark. Cost Plus Fixed for Contract (LSQ)
Nov 87-821	Allison Div.	J.S. Jines. In Plant Production Management (LSP)
Nov 87-822	ITT	J.S. Jines. In Plant Production Management (LSP)
Nov 87-823	Westinghouse	J.S. Jines. In Plant Production Management (LSP)
Nov 87-824	Gen Dynamics	J.S. Jines. In Plant Production Management (LSP)
Nov 87-825	John Deerk	J.S. Jines. In Plant Production Management (LSP)
Nov 87-826	McDonnell Douglas	J.S. Jines. In Plant Production Management (LSP
Nov 87-827	ASD/YYDA	Capt M.L. Bergeron. Letter of Delegation (LSP)
Nov 87-828	DCIDO	Capt J. Clark. Adapation of PPM 1525 (LSQ)
Nov 87-829	DCASMA	R.L. Wells. Negotiation (LSP)
Nov 87-830	USA	Lt Col L.A. Ewart. Flexbee-Progress Payment (LSP)
Nov 87-831	ASD/YK	Capt J. Clark. Use of Videotapes (LSQ)
Nov 87-832	MPC	J.S. Jines. Requirements and Curriculum (LSP)

Nov 87-833   VA   R.L. Wells. Pre-Award Checklist
                               (LSP)

Nov 87-834   DMAFB   Capt W.D. Alley. CADD (DET)

Nov 87-835   AFLC   Capt D.P. Coleman. Visiting
                               Officer Quarters (DEM)

Nov 87-836   2750/CES   Capt D.P. Coleman. FY 90 and 91
                               MCP (DEM)

Nov 87-837   Mirat/DEI   J.W. Gaffney. Customer Service
                               (DEM)

Nov 87-838   AFESC   Capt R.E. Luebben. IF Image
                               Workshop (DEM)

Nov 87-839   AFESC   Capt R.E. Luebben. Consultation
                               Techniques (DEM)

Nov 87-840   AFESC   Capt A.P. Negri. Project IMAGE
                               (DEM)

Nov 87-841   AFESC   D.C. Osgood. Project IMAGE Review
                               (DEM)

Nov 87-842   Elmendorf AFB   D.C. Osgood. MFH Maintenance
                               Contract (DEM)

Nov 87-843   Luke AFB   Cpat D.H. Showers. Operations
                               Management (DEM)

Nov 87-844   McGuire AFB   Capt D.H. Showers. Work Force
                               Management (DEM)

Nov 87-845   AFLC   Capt W.D. Alley. AFLC CADD System
                               (DET)

Nov 87-846   AFESC/SI   Capt W.D. Alley. IGS (DET)

Nov 87-847   Kessler AFB   Capt D.K. Dickson. Humidity
                               Control (DET)

Nov 87-848   Chanute AFB   Capt D.K. Dickson. VAV (DET)

Nov 87-849   WPAFB   Capt J.A. Hudson. Thrift Shop
                               (DET)

Nov 87-850   WPAFB   Capt J.A. Hudson. New Wing DDC
                               (DET)

Nov 87-851   Guam   Capt J.A. Hudson. Humidity Control
                               (DET)

Nov 87-852   WPAFB   Lt Col J. Dustin. Modular Doors
                             (DE)

Dec 87-853   Tinker AFB   Capt S.D. Rosenbaum. Billeting
                             Management (DEM)

Dec 87-854   2750/CES   Capt D.P. Colman. FY90 and FY91
                             MCP (DEM)

Dec 87-855   Offult AFB   Capt R.A. Hamel. WIMS Software
                             Implementation (DEM)

Dec 87-856   AFESC   Capt R.E. Luebben. IE Film (DEM)

Dec 87-857   2854 CES   Capt A.P. Negri. Project
                             Programming (DEM)

Dec 87-858   PACAF/DEH   Capt A.P. Negri. Facility
                             Programming (DEM)

Dec 87-859   MAC/DEPR   Capt A.P. Negri. Building
                             Renovation (DEM)

Dec 87-860   Lowrey AFB   D.C. Osgood. Material Submittals
                             (DEM)

Dec 87-861   MAC/DEEC   D.C. Osgood. Contract Management
                             Manuals (DEM)

Dec 87-862   AF/DEH   D.C. Osgood. FY Funding Contract
                             (DEM)

Dec 87-863   Luke AFB   Capt D.H. Showers. Prime Beef
                             (DEM)

Dec 87-864   Fairchild AFB Capt G.W. Simpson. WIMS (DEM)

Dec 87-865   AFESC   Capt W.D. Alley. IGS (DET)

Dec 87-866   AFLC   Capt W.D. Alley. AFLC CADD Systems
                             (DET)

Dec 87-867   Chaunute AFB   Capt D.K. Dickson. Fiberglass Duct
                             (DET)

Dec 87-868   Tinker AFB   Capt D.K. Dickson. Plenum Returns
                             (DET)

Dec 87-869   Offutt AFB   Capt D.K. Dickson. Ceiling Mildew
                             (DET)

Dec 87-870   IVT   D. Hopper. Proposal Review (ENG)

Dec 87-871	AU	Capt M.A. Roth. Wargaming Simulation (ENG)
Dec 87-872	AFWAL/FIGL	C.H. Houpis. Multivariable Control Systems (ENG)
Dec 87-873	AFWAL/AADE	Capt B. George. Interactive VHDL Workstation (ENG)
Dec 87-874	ASD/ENA	C.H. Houpis. Quantitative Feedback Theory (ENG)
Dec 87-875	DoD	D. Hopper. Technical Advisory Group (ENG)
Dec 87-876	RADC/COTC	D. Hopper. Digital Optics (ENG)
Dec 87-877	AFWAL/AAAT	D. Hopper. Cockpit Display Holography (ENG)
Dec 87-878	University of Illinois	Maj J. DeGroat. Fault Simulation (ENG)
Dec 87-879	ESD/PLET	Maj J. DeGroat. VHDL in the Acquisition Process (ENG)
Dec 87-880	AAMRL/BBA	Capt M. Leahy. Robotics (ENG)
Dec 87-881	AFESC	Capt R. Linderman. Research Opportunities (ENG)
Dec 87-882	DARPA	Capt R. Linderman. VLSI Design Centers (ENG)
Dec 87-883	FTD/TQC	Maj D.E. Meer. Classified Research (ENG)
Dec 87-884	ASD	Lt Col G. Parnell, Capt T Triscari. Intelligent Decision Systems (ENS)
Dec 87-885	AU	Lt Col J. Robinson. Space Game (ENS)
Dec 87-886	NSF	S. Mall. Proposal Review (ENY)
Dec 87-887	Egypt	M.E. Franke. Wind Tunnels (ENY)
Dec 87-888	AFWAL/POSF	Lt L. Planeaux. Co-Flow of Jet Plane (ENY)
Dec 87-889	AFWAL/AARI	Lt Col J.P. Mills. Prediction of Fer-Field Patterns of Laser Radar Apertures (ENP)

Dec 87-890   USDRE   Maj D.H. Stone. High Power Micro Weapons (ENP)

Dec 87-891   DNA   Maj D.H. Stone. High Power Microwaves (ENP)

Dec 87-892   AFEWC   Maj D.H. Stone. Millimeter Wave Testing (ENP)

Dec 87-893   AFTAC/TNT   Lt Col R.F. Tuttle. CANDU Reactor (ENP)

Dec 87-894   AFSC/SDXP   Maj C.L. Rees. Post Award Conference (LSP)

Dec 87-895   USA   Maj C.L. Rees. Army Air/Land Battle Doctrine (LSP)

Dec 87-896   Randolph   H.G. Hoehl. Copper Top (LSP)

Dec 87-897   DCASMA   R.L. Wells. Loss Ratio Factor on Progress Payments (LSP)

Dec 87-898   Miami Univ.   R.L. Wells. Negotiations (LSP)

Dec 87-899   USA   Lt Col L.A. Ewart. Procurement Inspection Process (LSP)

Dec 87-900   Lowrey AFB   R.L. Wells. Terminations (LSP)

Dec 87-901   USAFE   J.S. Jines. Production Management Training (LSP)

Dec 87-902   USA   J.S. Jines. Value Engineering Change Proposal (LSP)

Dec 87-903   USA   Lt Col L.A. Ewart. Contracting Out Health Care (LSP)

Dec 87-904   Int. Latex   H.M. Pryor. Value Engineering Sharing (LSP)

Dec 87-905   AF Audit Agency Capt C.L. Campbell. Peace Keeper Reliability (LSQ)

Dec 87-906   ASD   J.C. Daneman. QMT 540 Topics (LSQ)

Dec 87-907   AFETC/ACC   Capt A.J. R. Cukr. Flight Test Cost Estimates (LSQ)

Dec 87-908   ASD/AEL   R.L. Kankey, LCDR C.W. Schumaker. Ground Pwered Generator (LSQ)

Dec 87-909   HQ AFLC   <u>Capt K.R. Jennings</u>.   Organizational
                       Structures (LSR)

Dec 87-910   Ed Test Service   <u>D.K. Vaughan</u>.   Writing for
                               Supervisors (LSR)

IV. FACULTY RESEARCH PROJECTS - Summary

485 Research Projects - Calendar Year 1987

Departments*

ENG	125
ENY	104
ENC	53
ENP	33
LSR	29
LSQ	26
LSM	25
LSY	25
ENS	22
DET	13
LSP	12
DEM	9
DEE	9
TOTAL	485

*Department symbols and locations listed on pages 5 and 6

CY 1987 RESEARCH PROJECTS

LSM 87-1   Adult Learner's Adaptation of Learning Methods.
D.E. Campbell

LSM 87-2   Assessing Communication Systems. Capt R.D. Mabe

LSQ 87-3   Interfacing CAD/CAM and DBMS Using Expert Systems.
Lt Col R.E. Peschke

LSP 87-4   Government Contract Law. J.F. Gill

LSQ 87-5   Nonparametric Extrapolative Forecasting. R.D. Kankey

LSR 87-6   Psychology of Combat. Maj J.A. Ballard

LSP 87-7   Government Property Administrator. D.N. Goetz

LSQ 87-8   Dynamic Costing - Modular Costing in Logistics Systems.
R.D. Kankey

LSR 87-9   Statistical Process Control for White Collar
Organizations. V.R. Rehy

LSM 87-10   Logisticians and Risk. Maj L.W. Emmelhaing

LSM 87-11   Learning and Personality Types. D.E. Campbell

LSM 87-12   Expert Systems for Material Management. Maj M.K. Allen

ENY 87-13   Dynamic Stall by Modified Momentum - Integral Method.
Lt Col E. Jumper

ENY 87-14   Metal Matrix Composites in Aerospace Applications.
A. Palazotto

ENY 87-15   Collapse of Composite Cylindrical Panels with Cutouts.
A. Palazotto

ENY 87-16   Flow Effects on Dynamic Pressure Measurements.
M.E. Franke

ENY 87-17   Prediction of Separated Flour Over Arbitrary Airfoils.
A. Halim

ENY 87-18   Material Damping Measurements of Brittle Matrix
Composite Beams. Maj T. Hinnerichs

ENY 87-19   Improved Modeling of Structural Joint Damping.
Maj T. Hinnerichs

ENY 87-20   Relativistic Electromagnetism. B. Kaplan

ENG 87-21   DoD Applications of Pattern Recognition.
             M. Kabrisky, Capt S. Rogers

ENG 87-22   Bandwidth Model for Shuffle-exchange Interprocessor
             Communications Network. Lt Col C. Bisbee

ENG 87-23   Failure Dependent Bandwidth in Shuffle Exchange
             Networks. Lt Col c. Bisbee

ENG 87-24   Moving-Bank Multiple Model Adaptive Algorithms.
             P.S. Maybeck

ENG 87-25   Analysis of Digital Satellite Links. Maj D.V. Hebner,
             Capt C. Jackson

ENG 87-26   Parameter-Adaptive Model-Following for In-Flight
             Simulation. Lt Col D. Biezad

ENG 87-27   Evaluating Large Aircraft During Landing.
             Lt Col D. Biezad

ENG 87-28   Using the ROBSIM Computer Simulation. Lt Col D. Biezad

ENG 87-29   Paralled Computation of the Vector Wave Equation.
             Maj J.W. DeGroat, Capt J. Strauss

ENG 87-30   Microcoded RISC Processor for the Vector Wave Equation.
             Maj J.W. DeGroat

ENG 87-31   Operating System Simulator in ADA. Maj J.W. DeGroat

ENG 87-32   A VLSI Processor Engine for the Vector Wave Equation.
             Maj J.W. DeGroat

ENG 87-33   Computer Architecture for Numerical Solution of
             Electromagnetic Fields. A. Terzondi, A. Lain,
             Capt J. Straus, Maj J.W. DeGroat

ENG 87-34   Analysis of Accumulated Jitter in Communication
             Systems. Maj G.E. Prescott

ENG 87-35   Integrated Navigation Systems. Lt Col D. Biezad

ENC 87-36   Multi-Dimensional Systems Theory and Supercomputers.
             J. Jones

ENC 87-37   Goodness of Fit Tests in Reliability. A.H. Moore

ENC 87-38   Uniqueness for the Characteristic Cauchy Problem. A.V.
             Lair

ENC 87-39   Equivalence and Similarity of Multi-Parameter Matrics.
             J. Jones

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ENC 87-40   Goal-Oriented Simulation Environment Systems.   Capt D.A.
             Umphress

ENC 87-41   Scattering by a Cavity-Backed Baffled Membrane.
             Maj W.P. Baker

DEM 87-42   Environmental Assessment Handbook.   P. Kokoropoulos

DEM 87-43   Programmers Handbook.   Capt D. Colman

DEM 87-44   Groundwater Contaminations.   Maj M. Goltz

DEM 87-45   Contract Management for Civil Engineers.   D. Osgood

ENG 87-46   Estimations of Covariance Components for Linear
             Multiparameter Matucs.   J. Jones

ENC 87-47   Numerical Solutions of Functional Inequalities.
             J. Jones

ENC 87-48   Matrix Equations and Lyapumov Transformations.
             J. Jones

ENC 87-49   Modeling of Lightening.   D. Quinn

ENG 87-50   Quantitative Feedback Theory for Multivariable Control
             Systems.   C.H. Houpis

ENG 87-51   A 70MHz 1.2 Micron CM05 DFT Processor.   Capt R.W.
             Linderman

ENG 87-52   An optimizing XROM Silicon Compiles.   Capt R.W.
             Linderman

ENG 87-53   PUMA Manipulator Model-Referenced Adaptive Controller.
             Capt M.E. Leaky

ENG 87-54   Design of Relational Databases into Nested Normal Form.
             Capt M. Roth

ENG 87-55   Characterization of Error Performance of QPSK
             Communication System.   Maj G.E. Prescott

ENG 87-56   Satellite Code Division Multiple Access.   Maj G.E.
             Prescott

ENG 87-57   Validation of GEMACS for Aircraft Lightning Analysis.
             Capt R. Jost

ENG 87-58   Multiple Angle of Incidence Measurement Technique.
             Capt R. Jost

ENG 87-59   Multiplexed Multi-Electrode Semiconductor Brain
             Implant. M. Kabrisky, Maj E. Kolsar, Maj J. Mills

ENG 87-60   LISP Garbage Collection Using Content Addressable
             Memory. Capt R. Linerman

ENG 87-61   NRL Computer Simulator on the Hypercube Computer.
             T.C. Hartrum

ENP 87-62   Surface Depletion Effect Correction to Non-Uniform
             Carrier Distribution. Y.K. Yeo, R.L. Hengehold

ENY 87-63   Ceramic Matrix Composites in Aerospace Applications.
             A. Palazotto

ENY 87-64   Improvement of End Boundary Conditions for Off-Axis
             Tension Specimen. A. Palazotto

ENY 87-65   Effects of Midplane Delamination on Instability of
             Composite Panels. A. Palazotto

ENY 87-66   Experimental Study of Curved Composite Panel with
             Cutout. A. Palazotto

ENY 87-67   Bayesian Parameter Estimation. Capt S. Kramer

ENY 87-68   Cyclic Debonding in Adhesively Bonded Composite Joints.
             S. Mall

ENY 87-69   Debond Growth in Bonded Composite Joints. S. Mall

ENY 87-70   New Nonparametric Growth Model. Capt D. Robinson

ENY 87-71   Numerical Simulation of Trailing Vortex Bursting.
             Lt P. Beran

ENY 87-72   Effect of Cutouts on Natural Frequencies of Curved
             Composite Panels. Maj R.L. Hinrichsen

ENY 87-73   Energy Dissipation Due to Friction Simple Beam Joints.
             Maj R.L. Hinrichsen

ENY 87-74   Composite Plates with Large Displacements. A.N.
             Palazotto, Maj R.L. Hinrichsen

LSM 87-75   Requirements Computation Method for Non-Aircraft
             Systems. Capt R.D. Mabe

LSM 87-76   Civilian Logisticians Mobility. Lt Col D.E. Lloyd

LSM 87-77   Role of Senior Military Logisticians. Lt Col D.E.
             Lloyd

LSM 87-78   Performance Measurements of Weapon Systems Procurement
             Offices. Lt Col G.L. Delamer

LSQ 87-79   Taxonomy for Cost Models. Lt Col J.A. Long

LSY 87-80   Investment Consumption Strategies. Lt Col J.J.
             Phillips

LSY 87-81   Assessing Communication-Electronics in WSMIS.
             Lt Col J.J. Phillips

LSP 87-82   Assessing Production Risks. Maj S.D. Squires

LSR 87-83   Importance of Youth to Organizational Longevity.
             Maj J.A. Stribrary

LSR 87-84   Evaluation Research. Lt Col J.T. Lindsey, G.S. Shane

LSY 87-85   New Car Warranty Repair: Theory and Evidence.
             Lt L. Gill

LSY 87-86   Research Agenda for AI in Aerospace Manufacturing.
             Capt T. Triscari

LSY 87-87   Software Reliability and Maintainability. Capt T.
             Triscari

LSY 87-88   Software Support Cost Estimation. D.V. Ferens

LSR 87-89   Statistics Models for Reliability. V.R. Rehg

LSQ 87-90   The Cumulative Learning Curve. J.C. Daueman

LSY 87-91   Interface Management - Key to Systems Integrations.
             Maj W.R. Hitzelberge

LSQ 87-92   Evaluating Efficiency of USAF Real Property
             Maintenance. Maj W.F. Bowlin

LSM 87-93   Commercial Purchasing and Government Procurement: A
             Comparison. Lt Col G.L. Delaney

LSR 87-94   Validity of Self Evaluation of Task Evaluation. R.P.
             Steel

ENC 87-95   Asympatic Distribution of a Test of Homogeneity of
             Variances. B.N. Nagarsenker

ENC 87-96   Test of Equality of Exponential Populations Based on
             Censored Samples. P.B. Nagarsenker

ENC 87-97   Determining Input For a Dynamical System Which is not
             Completely Controllable. D.W. Quinn

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ENC 87-98   New Goodness of Fit Test for the Logistics
             Distribution. A.H. Moore

ENC 87-99   Properties of Goodness of Fit Test of Moses. A.H.
             Moore, D.R. Barr

ENC 87-100   Modified Goodness of Fit Test for the Lognormal
             Distributions. A.H. Moore, J.P. Cain

ENG 87-101   Soviet Research on Aeral Chemical Warfare Agent
             Detectors. Maj E.S. Kolesar

ENG 87-102   QFT Flight Control Design of AFTI/F-16. C.H. Houpis

ENG 87-103   Quantitative Feedback Theory. C.H. Houpis

ENG 87-104   Numerical Accuracy in Design of Digital Control Systems
             Using QFT. C.H. Houpis, G. Lamont

ENG 87-105   Reverse Engineering of VLSI Chip Design. Capt R.
             Linderman

ENP 87-106   Optical Properties of Ge Implants in GaAs. R.L.
             Hengehold, Y.K. Yeo

ENP 87-107   Surface Depletion Width Calculations for Non-Uniformly
             Doped Semiconductors. R.L. Hengehold, Y.K. Yeo

ENP 87-108   Nonlinear Optics. W.B. Roh, R.L. Hengehold

ENS 87-109   Analysis of Chronic Shortages in B-52 Radar Navigators.
             Lt Col Schuppe

ENY 87-110   Nonlinear Tracker Using Attitutde Measurements. Capt
             D. Gleason

ENY 87-111   Shear Buckling of Cylindrical Composite Panels. A.N.
             Palazotto

ENY 87-112   Effects of Shear Deformation on Vibration of
             Anisotropic Laminated Plates. A.N. Palazotto

ENY 87-113   Analysis and Experimentation of Collapse of Composite
             Cylindrical Panels. A.N. Palazotto

ENY 87-114   2-D Elastic Fracture Analysis by Indirect Boundary
             Element Method. A.N. Palazotto

ENY 87-115   Study of Graphite/Peek Under High Temperature. A.N.
             Palazotto

ENY 87-116   Numerical Techniques in Solving Nonlinear Shell
             Problems. A.N. Palazotto

ENY 87-117 Adhesive Ductility in Composite-to-Composite Bonded Joints. S. Mall

ENY 87-118 Control of Time-Periodic Systems. W.E. Wiesel

DEE 87-119 Heating, Ventilating and Air Conditioning Controls Handbook. Capt J. Hudson

DEE 87-120 HVAC Control System Policy Development. Maj S. Tom

DEE 87-121 Performance Characteristics of Pressure Independent Pneumatic Variable Air Volume Boxes. Capt R. Boyce

ENC 87-122 Finite Element Method for Computing Sound Propagation in Ducts. D.W. Quinn

ENC 87-123 Solution to Possl Problem. D.C. Khatri

ENC 87-124 Goal-Oriented Approach to Simulators. Capt D. Umphress

ENC 87-125 Common Solution of Sets of Matrix Equations. J. Jones

ENY 87-126 High Performance Fibers Under Compressive Deformation. A.N. Palazotto

ENY 87-127 Thermal Shock Resistance of Silicon Carbide Whiskes Composites. A.N. Palazotto

ENY 87-128 Deumbling of Inter-Connected Rigid Bodies by Internal Torque. Lt Col J. Widhalm

ENY 87-129 Electrostatic Cooling of a Horizontal Cylinder. M.E. Franke

ENY 87-130 Matrix Toughness in Graphite Fiber Composites. S. Mall

ENG 87-131 Exponential Second-Order Probability Density Function. V.P. Pyati

ENG 87-132 Wafer Scale Interconnections for GaAs Packaging. Capt B.J. Donlan

ENG 87-133 PUMA Manipulator Jacobian Calculation and Inversion. Capt M.B. Leahy

ENG 87-134 Evaluation of PUMA Unmoded Force Compensation Techniques. Capt M.B. Leahy

ENG 87-135 Adaptive Tracking of Targets Using IR Image Data. P.S. Maybeck

ENG 87-136   Cooperative Jamming of a Monopulse Radar Seeks. V.P.
              Pyate

ENG 87-137   Correlation Between Jammer-to-Signal Ratio and Flyout
              Miss-Distance. V.P. Pyate

ENG 87-138   Optical Computing. D. Hopper

ENG 87-139   New Design Criteria for Non-INF Relational Databases.
              Capt M. Roth

ENG 87-140   Compensation of Unmodeled PUMA Manipulator Dynamics
              Capt M.B. Leahy

ENG 87-141   Digital Optics. D. Hopper

ENG 87-142   Rapid Data Retrival Concepts for Expert Database
              System. T.C. Hartrum

ENP 87-143   Optical Preprocessing Using Liquid Crystal Television.
              Maj J. Mills, Capt S.K. Rogers, M. Kabrisky

LSQ 87-144   Competition In Non-Competitive Environments. R.D.
              Kankey

LSR 87-145   Evaluation of Productivity at Moody AFB. Lt Col J.T.
              Lindsey, G.S. Shane

LSR 87-146   New Resources for Technical Communicators Teaching.
              F.F. Stohren

LSR 87-147   Perceptions of Effectiveness of Composition Classes.
              F.F. Stohren

LSR 87-148   Successful Composition Assignments. F.F. Stohren

LSM 87-149   Technical Functions of Provisioning. P.M. Bresmahan,
              C.F. Youlhes

LSP 87-150   Teaming Key to Success. Capt H.R. Conner

LSM 87-151   Productivity Measurement in Civil Engineering. Maj
              H.A. Rumsey

LSM 87-152   Myers-Briggs Indicator for Adult Learning Styles. D.E.
              Campbell

LSQ 87-153   Air Force R&M Data System. C.W. Widenhouse

LSQ 87-154   Applied Cost Improvement Curve theory. J.L. Robbins

ENP 87-155   Selective Pair Luminescence Study of GaAs. R.L.
              Hengehold, Y.K. Yeo

ENP 87-156   Design of a Fusion Reactor Blanket Simulators Facility.
             Capt D. Beller

ENC 87-157   Probit and Logit Analysis of Probability of an Abort.
             D. Ban

ENC 87-158   Test of Equality of Exponential Distribution Based on
             Censored Samples. P.B. and B.N. Nagarsenker

ENC 87-159   Non-Rule Distributions of LRC for Testing Equality.
             P.B. and B.N. Nagarsenker

ENC 87-160   Equality of Scale Paramention of Several Distributors.
             P.B. and B.N. Nagarsenker

ENC 87-161   Nonlinear Matrix Differential Equations Arising in
             Flight Control. J. Jones

ENC 87-162   Imperfect Inspection Models. Maj D.C. Herge

ENC 87-163   Numerical Methods of Optimization Theory. J. Jones

ENY 87-164   Effect of Filler Sige and Matrix Properties on Fracture
             Toughness of Particulate Composites. S. Mall

ENY 87-165   Fault Detection for Aircraft Control Inputs. Capt D.
             Gleason

ENY 87-166   Thermal Shock Characteristics of Ceramic Composites.
             A.N. Palazotto

ENY 87-167   Longitudinal Flow Along Circular Cylinders. A. Halim

ENY 87-168   Flow Effects on Dynamic Pressure Measurements. M.E.
             Franke

ENY 87-169   Performance Requirements for a Mechanical Head/Neck.
             C. Spenny

ENY 87-170   Fractional Derivatives in Description of Damping
             Materials. P.J. Torvik

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ENP 87-478   High-Resolution CARS Measurements of Ranan Linewidths.
             W.B. Roh

ENP 87-479   Surface Depletion Effects.   Y.K. Yeo

ENP 87-480   Electron Temperature Measurements in Cesium Plasma
             Diode.   W.F. Bailey

ENP 87-481   Numerical Analysis of Dynamics of PRIZ Operation.   W.F.
             Bailey

ENP 87-482   Dating Bricks by Thermoluminescence.   G. John

ENP 87-483   Experimental Investigation of $CO-H_2$ Diffusion Flame.
             W.B. Roh

ENP 87-484   C-V Profile Measurements of Si-Implanted GaAs.   Y.K. Yeo

ENP 87-485   Impulse Response of Multi-Aperture Systems of 19 and 37
             Apertures.   Lt Col J.P. Mills.   Capt S.K. Rogers.

V. FACULTY PUBLICATIONS - Summary

250 Publications - Calendar Year 1987

Departments*

ENG	67
ENY	57
ENC	42
LSR	19
ENP	13
LSQ	9
LSM	9
DET	9
ENS	8
LSY	8
LSP	7
DEM	6
TOTAL	250

Note: Papers with co-authors in two departments counted in
both department totals but counted only once in final
total.

*Department symbols and locations listed on pages 5 and 6

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Yeo, Y.K., "Surface Depletion Effect Correction to Non-Uniform Carrier Distributions by Hall Measurements," Co-authors R.L. Hengehold, D.W. Elsaesser, Journal of Applied Physics, vol 61, No 11, pp 5070-5075, June 1987.

Youther, C.F., "See Bresnahan, P.M."

Young, Capt E.A., "PAT Study," Proceedings of the Central Region AFRCE, Dayton OH, June 1987.

IV. FACULTY PRESENTATIONS - Summary

339 Presentations - Calendar Year 1987

Departments*

ENG	77
ENY	55
LSP	38
ENC	33
ENP	28
LSM	27
LSR	21
ENS	17
LSY	15
LSQ	14
DET	14
TOTAL	339

Note: 7 presentations had joint department authors

*Department symbols and locations listed on pages 5 and 6.

Allen, Capt W.D., "CADD, Current Status and Future Trends," ESIMS
        Executive Conference, Lowry AFB CO, October 1987.

_____, "AFIT/AFLC CADD Initiative," Federal Computer Conference,
        Washington DC, September 1987.

_____, "CADD/CAM Applications for Engineering and Services," E
        and S Worldwide Conference, Homestead AFB FL, December 1986.

_____, "Micro-Based CADD for Base Planning and Design," 1987 SAME
        Rocky Mountain Regional Conference, Tuscon AZ, March 1987.

Amburn, Phil, "AI and Expert Systems," Communications-Computer
        Systems Executive Seminar, Air University, Montgomery AL,
        July 1987.

Andrews, Capt R.A., "The Certified Professional Logistician
        Exam," Society of Logistics Engineers, Dayton OH, November
        1987.

Bagley, Lt Col R.L., "On Relationships between the Power Law
        Model and the Fractional Calculus Model of Viscoelasticity,"
        Society of Engineering Science, University of Utah, Salt
        Lake City UT, September 1987.

_____, "See Torvik, P.J."

Bailey, W.F., "Electron Temperature Measurement in a Cesium
        Plasma Diode," Co-authors M.J. Ward, S.D. Marcum, and B.N.
        Ganguly, Fall Meeting of Ohio Section of the American
        Physical Society, Youngstown OH, October 1987.

_____, "A Moment Approach to Modeling Negative Ions Sources," Co-
        author D.E. Bell, Fall Meeting of Ohio Section of the
        American Physical Society, Youngstown OH, October 1987.

_____, "Numerical Analysis of the Dynamics of PRIZ Operation,"
        Co-author D.A. Cushing, Fall Meeting of Ohio Section of the
        American Physical Society, Youngstown OH, October 1987.

Ballard, Lt Col J.A., "Rychlakean Theory on Parapsychology," 30th
        Annual Meeting of Parapsychological Association, Edinbury
        Scotland, August 1987.

Barciak, Capt F.J., "Personal Type Analysis," Dayton Chapter
        Physology Type, Dayton OH, February 1987.

Barr, D.R., "Properties of a Goodness-of-Fit Test Proposed by
        Moses," Co-author A.H. Moore, TIMS/ORSA Joint National
        Meeting, New Orleans LO, May 1987.

Bauer, Maj K.W., "Estimation Procedures Based on Control
    Variaties with Known Covariance Matrix," Co-authors
    S. Venkatraman and J.R. Walay, Winter Simulation Conference,
    Atlanta GA, December 1987.

Beller, D.E., "Neutronics Predictions for the Conceptual Design
    of a Proposed Fusion Reactor Blanket Simulation Facility,"
    12th Symposium on Fusion Engineering (IEEE), Monterey CA,
    October 1987.

Beran, Capt P., "Numerical Simulations of Trailing Vortex
    Bursting," ICASE at NASA-Langley, April 1987.

_____, "Numerical Simulations of Trailing Vortex Bursting," AIAA
    19th Fluid Dynamics, Plasma Dynamics, and Lasers Conference,
    Honolulu HI, June 1987.

Bierck, Maj W.J., "The Future of EMCS Education," EMCS Workshop,
    Randolph AFB TX, November 1987.

Biezad, Col D., "Integrated Navigation Systems," 13th Biannual
    Navigation Symposium, Holloman AFB NM, October 1987.

Bowlin, Maj W.F., "Efficiency-Base Budgeting," Operating Research
    Society of America and Institute of Management Science Joint
    National Meeting, St Louis MO, October 1987.

Brower, R. "LISP Garbage Collection Using Content-Addressable
    Memory," NAECON Conference, Dayton OH, May 1987.

Cain, J.P., "See Moore, A.H."

Calico, R.A., "Structural Perturbations and Decoupled Control,"
    Co-author F.E. Eastep, The International Astronautical
    Federation in Brighton, England, October 1987.

Campbell, D.E., "Learning and Personality Types," Dayton Chapter,
    Association for Psychological Type, Wright State University,
    January 1987.

_____, "Using the Myers-Briggs Type Indicators to Match Adult
    Learning Styles," 1987 Ohio Association for Adult and
    Continuing Education, Columbus OH, April 1987.

_____, "Learner Adaptation and Change of Learning Methods,
    Techniques and Devices," 7th International Conference,
    Association for Psychological Types, Gainesville IL, June
    1987.

_____, "Management Styles and Team Building," Federally Employed
    Women National Training Program, St Louis MO, July 1987.

_____, "Coping with Difficult People," Federally Employed Women
    National Training Program, St Louis MO, July 1987.

Campbell, D.E., "Using Personality Types in Teaching and Learning," Air Command and Staff College, Maxwell AFB AL, July 1987.

_____, "Quality and Productivity Starts with Education," General Manager Leadership Symposium, Fairborn OH, October 1987.

Clough, Bruce, "Quantitative Feedback Theory - Reply to Criticisms," 1987 NAECON Conference, Dayton OH, May 1987.

Conner, Capt H.R., "Government Quality Requirements," Small Business Administration Conference, Nashville TN, July 1987.

Davis, Capt C.L., "How Technical Writing Can Be Used to Enhance Written Communications of Graduate Students," 7th Annual Lilly Conference on College Teaching, Miami University, Oxford OH, November 1987.

Davis, Nathaniel, "Resource allocation in a Distributed SDI Environment," 1st US/UK Workshop on Parallel Processing, The Royal Military College of Science, Swindon Wilts UK, July 1987.

_____, "Parallel Processing and the State of Art in Computing," Joint Colloquium sponsored by the Departments of Mathematics and Electrical and Computer Engineering, U.S. Air Force Institute of Technology, Wright-Patterson Air Force Base OH, September 1987.

DeGroat, Maj Joseph, "Microcoded RISC Processor for Calculation of the Vector Wave Equation," The 1987 Custom Integrated Circuits Conference, Portland OR, May 1987.

_____, "A VLSI Processor Engine to Support Calculation of the Vector Wave Equation," Proceedings of the 1987 National Aerospace and Electronics Conference, (NAECON-87), Dayton OH, May 1987.

_____, "An Operating System Simulation in Ada," Proceedings of the 1987 National Aerospace and Electronics Conference, (NAECON-87), Dayton OH, May 1987.

_____, "The AFIT VHDL Environment," International Conference on Computer Aided Design," Santa Clara CA, November 1987.

_____, "See Lair, A.V."

Delaney, Lt Col G.L., "Commercial Purchasing and Government Procurement: A Comparison," Dept of Management, Miami University, Oxford OH, March 1987.

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Delaney, Lt Col G.L., "Performance Evaluation of Weapons Systems Procurement Offices," Twenty-four Space Congress, Cocoa Beach FL, April 1987.

Diaz, Juan, "An Operating System Simulation in Ada," Proceedings of the 1987 National Aerospace and Electronics Conference, (NAECON-87), Dayton OH, May 1987.

Dickson, Capt D.K., "Variable Air Volume Systems," HVAC Air Distribution Control Systems Seminar, Dayton OH, April 1987.

Dorko, E.A., "Comparison of the Behavior of Rotational Energy Transfer Rates of IF, I_2, and Br_2," Co-authors L. Hanko, M.J. McAuliffe, P.J. Wolf, G.P. Perram, and J. Lew, Conf on Laser and Electro-Optics, Baltimore MD, April 1987.

Dragich, Lt Col D.P., "Combat Logistics," Individual Mobilization Augment Conference, Sacramento CA, November 1987.

D'Azzo, John J., "Multivariable PI and PID control Law Desgins For A High Performance Aircraft," Proceedings of the 1987 National Aerospace and Electronics Conference, (NAECON-87), Dayton OH, May 1987.

Emmelhainz, Maj L.W., "Logisticians and Risk: An Uncertain Relationship," 22nd International Logistics Symposium, St Louis MO, August 1987.

Faenza, Capt E.J., "Price Analysis and Contracting AF Audit Agency Conference," Wright-Patterson AFB OH, February 1987.

_____, "Negotiation Workshop," Sinclair Community College, Dayton OH, March 1987.

_____, "USAF Implementation of Work Measurement," National Association of Purchasing Managers Educational Symposium, Pittsburgh PA, October 1987.

_____, "Negotiation Workshop Inventory," Sinclair Community College, Dayton OH, November 1987.

_____, "Negotiation/Tactics and Strategies," Navy Avionics Center, Indianapolis IN, December 1987.

Farr, Maj C.M., "Managing International High-Technology Projects," Defense Systems Management College Boston MA, January 1987, May 1987, August 1987, and October 1987.

_____, "Management of International High Technology Cooperative Program," Multinational Management Course, DSMC, Ft Belvoir VA, February 1987, and June 1987.

Fenno, C.R., "Workshop: Using Computers to Solve On-Line Editing Problems," International Technical Communication Conference, Denver CO, May 1987.

Ferens, D.V., "Software Fault Tolerance," NAECON Conference, Dayton OH, May 1987.

_____, "Software Size Estimation: The Impossible Dream?" Co-author M. Whetstone, 9th Annual International Society of Parametric Analysts Conference, San Diego CA, May 1987.

_____, "Computer Software Fault Tolerance and Evidence," 1987 National Aerospace Electronics Conference, Dayton OH, May 1987.

_____, "Software Reliability and Maintainability; Software Logistics Support Cost Estimation," 22nd Annual Society of Logistics Engineers, St Louis MO, August 1987.

_____, "Software Size Estimation: The Impossible Dream," 21st Annual DoD Life Cycle Cost Symposium, Leesburg VA, September 1987.

_____, "Software Logistics Support Cost Estimation," AFALC Software Conference, Wright-Patterson AFB OH, October 1987.

_____, "Software Parametric Cost Estimation: Wave of the Future," Engineering Cost and Production Conference, St Louis MO, October 1987.

Franke, M.E., "Electrostatic Cooling of a Horizontal Cylinder," Co-author L.E. Hogue, ASME/JSME Thermal Engineering Conference, Honolulu HI, March 1987.

_____, "Flow Effects on Dynamic Pressure Measurements," Co-author W.P. Chepren, 33rd International Instrumentation Symposium, Riviera Hotel, Las Vegas NV, May 1987.

_____, "Recent Developments in Electrostatic Cooling," Electrostatics Society of America, Holiday Inn, Westlake OH, June 1987.

Ganett, J.W., "The Value of PPM 302 in Procurement Education," Naval Facilities Command, Honolulu HI, March 1987.

Gill, H.L., "New Car Warranty Repair: Theory and Evidence," Applied Microeconomic Workshop, University of Kentucky, April 1987.

_____, "Evaluating the Benefits and Costs of DoD Warranties," 21st Annual DoD Cost Analysis Symposium, Leesburg VA, September 1987.

Gill, H.L., "User Costs and Housing Demands," American Economic Association Meeting, Chicago IL, December 1987.

Gleason, Capt D., "Fault Detection for Aircraft Control Inputs," Co-author D. Andrisani, Sixth DoD Conference on DEW, Vulnerability, Survivability and Effects, Gaithersburgh MD, May 1987.

_____, "Discrete Error Covariance Analysis for Tracking Filters," Co-author D. Andrisani, 21st Annual Asilomar Conference on Signals, Systems, and Computers, Monterey CA, November 1987.

Goetz, D.N., "Government Property Then, Now and When," National Property Management Association, Sacramento CA, January 1987.

_____, "Government Property Administrators" - Regional Conference of NPMA, Baltimore MD, April 1987.

_____, "The Special Tooling Clause," NCMA Chapter North TX, May 1987.

_____, "Property Administration and Congress," Property Management Association Conference, New York NY, June 1987.

_____, "Government Property: Records Required National Property Management Association Shuttle Chapter," (NPMA) Kennedy Space Center FL, August 1987.

_____, "An Open Question and Answer Program," Co-author J.I. Pacoreh, NPMA Valley Chapter, Pamona CA, September 1987.

_____, "Peer Networking: A Graduate Students Survival Guide," Ohio State Council of Graduate Students, Columbus OH, September 1987.

_____, "The Element of Title Under Fixed Price Contract," National Property Management Association (NPMA) National Convention, San Jose CA, September-October 1987.

_____, "Special Tooling, Special Test Equipment Old Thoughts and New Development," NPMA National Convention, San Jose CA, September-October 1987.

Gourdin, Maj K.N., "National Transportation Policy," Officer Transportation School, Sheppard AFB TX, January 1987.

_____, "Transportation," Society of Logistics Engineers, Dayton OH, March 1987.

Greig, Joy, "Development of a Facility Using Robotics for Testing Automation of Inertial Instruments," The Air Force NASA SOAR (Space Operations Automation and Robotics) Workshop, NASA/Johnson Space Center, August 1987.

_____, "Development of a Facility Using Robotics for Automated Testing of Inertial Instruments," First Annual Workshop on Space Operations Automation and Robotics, Johnson Space Flight Center, Houston TX, August 1987.

Halim, A., "A Global Marching Technique for the Prediction of Separated Flows Over Arbitrary Airfoils," AIAA 25th Aerospace Sciences meeting, Reno Nevada, January 1987.

_____, "Marching Procedures for the Approximate Navier-Stokes Equations," AIAA 8th Computational Fluid Dynamics Conference, Honolulu HI, June 1987.

_____, "Numerical Study of Two-dimensional Flow in a Shrouded Nozzle," 5th International Conference of Numerical Methods in Laminar and Turbulent Flow, Montreal CN, July 1987.

Holliday, Lt Col J., "See Peschke, Lt Col R.E."

Hartrum, Thomas, "Rapid Data Retrived Concepts for Expert Database Systems," Proceedings of the 1987 National Aerospace and Electronics Conference, (NAECON-87), Dayton OH, May 1987.

_____, "Research in Distributed Simulation," 1st US/UK Workshop on Parallel Processing, The Royal Military College of Science, Swindon Wilts UK, July 1987.

Hengehold, R.L., "Optical Properties of Ge Implants in GaAs," Co-authors Y.K. Yeo, K.J. Keefer, and B.P. Thoma, American Physical Society Meeting, New York NY, March 1987.

_____, "Optical Study of Ge and (Ge+As) Implants in GaAs," Co-author Y.K. Yeo, T.G. Alley, and K.J. Keefer, Fall Meeting of Ohio Section of American Physical Society, Youngstown OH, October 1987.

_____, "See Yeo, Y.K."

Herge, Maj D.C., "Imperfect Inspection Methods," Meeting of the Dayton Chapter of the American Statistical Association, May 1987.

Hinnerichs, T., "Material-Damping Measurements of Advanced Brittle Matrix Composite Beams," Co-author E. Muller, 1987 Spring Conference on Experimental Mechanics, Houston TX, June 1987.

_____, "R&M 2000 Activities at AFIT," 1987 AFSC/AFLC Reliability & Maintainability Conference, Wright-Patterson AFB OH, November 1987.

Hinrichsen, Lt Col R.L., "Effects of Cutouts on Natural Frequencies and Mode Shapes of Curved Rectangular Composite Panels," Co-author R.A. Walley, AIAA/ASME 28th Structural Dynamics and Materials Conference, April 1987.

_____, "Fire Damage Assessment," 1987 Aircraft Battle Damage Repair Engineering Conference, McClellan AFB CA, October 1987.

_____, "The Effect of Energy Dissipation Due to Friction at the Joint of a Simple Beam Structure," Co-author R.P. Donnelly, Jr., 6th International Conference on Mathematical Modelling, St Louis MO, August 1987.

_____, "See Palazotto, A."

Hitchcock, J.E., "See Jumper, E.J."

Hodge, J.K., Numerical Solution for a Cylindrical Laser Diffuser Flowfield," Co-authors J.A. Horkovich, and J.S. Shang, AIAA 19th Fluid Dynamics, Plasma Dynamics and Lasers Conference, Honolulu HI, 1987.

Holt, Maj J.R., "Expert System Model of Organizational Climate and Performance," Operations Research Society of American Institute of Management Science Joint National Meeting, St Louis MO, October 1987.

Hopper, Darrel, "Optical Computing," IEEE Computer Society and IEEE Acoustics, Speech, Dayton OH, April 1987.

_____, "Optical Computing," Proceedings of the 1987 National Aerospace and Electronics Conference, (NAECON-87), Dayton OH, May 1987.

_____, "Optical Signal Processing at AFIT," Naval Research Lab, Washington DC, August 1987.

_____, "The Future of Optical Computing DoD/ANSI/EA," Fiber Optics Standardization Conference, Arlington VA, December 1987.

_____, "Optical Computing Technology," RADC, Griffis AFB NY, July 1987.

Hopper, "Digital Optical Computer Design," Contractors Conference, October 1987.

Horowitz, Isaac M., "QFT Digital Flight Control Design as Applied to the AFIT/F-16," Proceedings of the 1987 National Aerospace and Electronics Conference, (NAECON-87), Dayton OH, May 1987.

_____, "See Houpis, C.H."

Horton, Robert S., "Characterization of the Error Performance of a QPSK Channel with Linear Distortion," Proceedings of the 1987 National Aerospace and Electronics Conference, Dayton OH, May 1987.

Houpis, C.H., "Quantitative Feedback Theory - Reply to Criticisms," Proceedings of the 1987 National Aerospace and Electronics Conference, Dayton OH, May 1987.

_____, "QFT Digital Flight Control Design as Applied to the AFIT/F-16," Proceedings of the 1987 National Aerospace and Electronics Conference, Dayton OH, May 1987.

_____, "Quantitative Feedback Theory-Reply to Criticisms," Co-authors D.L. Schneider, I.M. Horowitz, Proceedings of the 1987 National Aerospace and Electronics Conference, Dayton OH, May 1987.

Huckle, D.R., "Correlation Between Jammer-to-Signal Ratio and Flyout Miss-distance Of A Command Guided Missile," The 32nd Joint Electronic Warfare Conference, MCDEC, Quantico VA, May 1987.

_____, "Correlation Between J/S and Flyout Miss-Distance of a Command Guided Missile," The 32nd Joint Electronic Warfare Conference, MCDEC, Quantico VA, May 1987.

Hudson, Capt J.A., "Energy Efficient Mixed Air Control," HVAC Air Distributor Control Systems Seminar, Dayton OH, April 1987.

Jennings, Capt K.R., "Volunteerism and Quality Circles: Implications for Practice and Research," Co-author C. Stohl, International Communication Association, Montreal CN, May 1987.

_____, "Mediators of the Participation - Satisfaction Linkage," Co-author J. Schaubroeck and M. Harris, Academy of Management Conference, New Orleans LA, August 1987.

_____, "A Casual Model of the Antecedent and Consequences of Role Strain," Co-author J. Schaubroech and J. Cotton, Academy of Management Conference, New Orleans LA, August 1987.

Jones, J. Jr., "Equivalence and Similarity of Multiparameter Matrices and Applications," 93rd Annual Meeting of the American Mathematical Society, San Antonio TX, January 1987.

_____, "Matrix Differential Equations and Lyapunov Transformations III," 1987 Eastern Simulation Conference, Orlando FL, April 1987.

_____, "Common Solutions of Sets of Matrix Equations Arising in Computer Simulation of Multi-Parameter Systems," 18th Annual Pittsburgh Conference on Modelling and Simulation, Pittsburgh PA, April 1987.

_____, "Multiparameter and Multidimensional Systems and Supercomputers," Second International Conference of Supercomputing, Santa Clara CA, May 1987.

_____, "Numerical Methods of Optimization Theory," Journees De L'Optimization, Montreal CN, May 1987.

_____, "Nonlinear Matrix Differential Equations Arising in Flight Control," NAECON 1987, Dayton OH, May 1987.

_____, "Numerical Solution of Properties of Nonlinear Differential Inequalities Using Finite Element Methods," Sixth IMACS International Symposium on Computer Methods for Partial Differential Equations, Bethlehem PA, June 1987.

_____, "Some Numerical Methods for Computer Aided Design (CAD) Modelling and Simulation of Electrical Network Theory," IMACS 1987 International Symposium, Quebec City CN, August 1987.

_____, "Estimation of Variance and Variance components in Linear Models Containing Multiparameter Matrices," Sixth International Conference on Mathematical Modeling, St Louis MO, August 1987.

_____, "The General Linear Matrix Equation $A_i XB_i = Q$ Arising in Computer Simulation and Mathematical Modelling," Southeastern Computer Simulation Conference 1987, Huntsville AL, October 1987.

_____, "Integral Equations and Nonlinear Matrix Differential Equations," Sixth Annual Southeastern-Alantic Conference on Differential Equations, Nashville TN, October 1987.

John, G., "Dating Bricks by Thermoluminescence: A Student Project," Co-author B. Lindblom, Fall Meeting of Ohio Section of the American Physical Society, Youngstown OH, October 1987.

Jumper, E.J., "The Effect of Pitch Location on Dynamic Stall," Co-author R.L. Dimmick, and A.J.S. Allair, ASME Fluids Engineering Conference, Cincinnati OH, June 1987.

_____, "Implications of Miller's Magical Number Seven to Engineering Research and Education," Co-author ASEE Annual Meeting, Reno NV, June 1987.

_____, "Opportunities in Air Force Engineering Education and Research at Wright-Patterson AFB and Air Force Institute of Technology," Rose-Hulman Institute of Technology AFROTC, April 1987.

_____, "Shroud Science in the Public Eye," Annual meeting of the AAAS (American Association for the Advancement of Science), Chicago IL, February 1987.

_____, "Investigating Dynamic Stall Using a Modified Momentum-Integral Method," Co-authors J.E. Hitchcock, T.S. Lawrence, and R.G. Docken, AIAA paper #AIAA-87-0431, AIAA 25th Aerospace Sciences Meeting, Reno NV, January 1987.

_____, "The Shroud of Turin," Invited Banquet Speaker at Bio-Engineering Meeting, May 1987.

_____, "Toward Unsteady Lift Augmentation: An Assessment of the Role of Competing Phenomena in Dynamic Stall," Unsteady Separated Flow Workshop, Sponsor AFOSR Frank J. Seiler Research Laboratory, June 1987.

_____, "Toward Unsteady Lift Augmentation: An Assessment of the Role of Competing Phenomena in Dynamic Stall," Department of Aeronautics of the Air Force Academy, June 1987.

_____, "Toward Unsteady Lift Augmentation: An Assessment of the Role of Competing Phenomena in Dynamic Stall," University of Colorado, June 1987.

Kabrisky, Matthew, "Multi-Sensor Fusion of Laser Radar and Infrared Images for Target Segmentation," The SPIE International Conference Southeast, Orlando FL, June 1987.

_____, "A Multiplexed Multi-Electrode Semiconductor Brain Electrode Implant," IEEE First International Conference, May 1987.

_____, "AFIT Research," The University of Dayton Research Institute, Dayton OH, July 1987.

_____, "VHSIC Systems Design and CAD Tool Development," Griffiss AFB NY, September 1987.

Kabrisky, Matthew, "Optical Neurocomputers," Rome Air Development
     Center, Griffiss AFB NY, July 1987.

_____, "Multiplexed Multi-Electrode Semiconductor Brain Implant,"
     Co-authors S.K. Rogers, J.P. Mills, and E. Kolesar, IEEE
     First Annual International Conference on Neural Networks,
     San Diego 1987.

_____, "See Jumper, E.J."

Kanno, Capt N.K., "Career Development Through Professional
     Continuing Education," E&S Officer Career Development
     Workshop, Tyndall AFB FL, February 1987.

_____, "Readiness," 14th AF Commanders Conference, Atlanta GA,
     May 1987.

Kapka, Capt R.D., "Single Zone Systems," HVAC Air Distribution
     Control System Seminar," Dayton OH, April 1987.

Kaplan, B., "Teaching Relativistic Electro-Magnetism Employing
     Minkowski Space with the Newer Texts," APS/AAPT, Annual
     Meeting, San Francisco CA, January 1987.

Kaufman, LCDR G.R., "DoD Final Profit Rule," Defense Construction
     Supply Center," Columbus OH, December 1987.

Kearns, Timothy G., "Rapid Data Retrived Concepts for Expert
     Database Systems," Proceedings of the 1987 National
     Aerospace and Electronics Conference, Dayton OH, May 1987.

Kelly, Maj H.F., "Pavement Design," AF Worldwide Pavements
     Conference, Atlanta GA, April 1987.

King, Capt P., "Flow Induced Oscillations of a Novel Double-Wing
     Spring-Mass System," ASME Winter Annual Meeting, Boston MA,
     December 1987.

Kitchen, Maj D.R., "See Rhoden, W.K."

_____, "See Lott, J.A."

Kolesar, Maj Edward S., "Microelectronic Circuit Fabrication and
     Integrated Optics," E.G. Shaw Elementary School Beavercreek,
     Dayton OH, 1987.

_____, "See Kabrisky, M."

Komkov, V., "Control and Optimization in Optimal Design," NSF
     Workshop on Design Processes, Berkley CA, February 1987.

_____, "Perturbations Near Zero," 93rd Meeting of the American
     Mathematical Society, San Antonio TX, January 1987.

Komkov, V., "Functional Analytic Approach to the Theory of Optimization," MAA Conference, Savanah GA, April 1987.

Kramer, Maj S.C., "Bayesian Parameter Estimation," 1987 American Control Conference, Minneapolis MN, 1987.

Kwon, Capt M.H., "Program Management," Defense Electronics Supply Center, Kettering OH, June 1987.

Lair, A.V., "Uniqueness for the Characteristic Cauchy Problem for a Nonlinear Equation," 93rd Meeting of the American Mathematical Society, San Antonio TX, January 1987.

_____, "Digital Algorithm Specification for VLSI Implementation of the Electromagnetic Field of an Arbitrary Current Source," Co-authors B.J. Hoyt, and A.J. Terzuoli, Third Annual Preview of Progress in Applied Computational Electromagnetics, Monterey CA, March 1987.

_____, "Computer Architecture Implications of the Numerical Solution for the Electromagnetic Field of an Arbitrary Current Source," Co-authors J.L. Strauss, B.A. Hoyt, J.W. DeGroat, and A.J. Terzuoli, 1987 IEEE Antennas and Propagation Society International Symposium, Blacksburg VA, June 1987.

_____, "Definition and Realization of Pattern Recognition System Design," Co-author T.D. Ross, 1987 International Conference on System, Man and Cybernetics, Alexandria VA, October 1987.

Lamont, Gary B., "Expert System Development for Computer-Aided Control System Design," IFAC 10th World Congress on Automatic Control, Munich West Germany, July 1987.

Lamont, Gary B., "Development of a Comprehensive Software Engineering Environment," and "Development of a Facility Using Robotics for Automated Testing of Inertial Instruments," First Annual Workshop on Space Operation Automation and Robotics (SOAR), Johnson Space Flight Center, Houston TX, August 1987.

_____, "Development of a Comprehensive Software Engineering Environment," and "Development of a Facility Using Robotics for Testing Automation of Inertial Instruments," The Air Force/NASA SOAR (Space Operations Automation and Robotics) Workshop, NASA/Johnson Space Center, August 1987.

_____, "Development of a Facility Using Robotics for Testing Automation of Inertial Instruments," The Air Force/NASA SOAR Workshop, NASA/Johnson Space Center, August 1987.

Lamont, Gary B., "Development of a Comprehensive Software Engineering Environment," First Annual Workshop on Space Operations Automation and Robotics (SOAR), Johnson Space Flight Center, Houston TX, August 1987.

Leahy, Michael B., "Compensation of Unmodeled PUMA Manipulator Dynamics," IEEE International Conference on Robotics and Automation, Raleigh NC, March - April 1987.

Linderman, Capt Richard, "A 70 MHZ 16 DT DFT Processor," The Custom Integrated Circuits Conference, Portland OR, May 1987.

_____, "An Optimizing XROM Silicon Compiler," The Custom Integrated Circuits Conference, pp 13-16, May 1987.

_____, "LISP Garbage Collection Using Content-Addressable Memory," Proceedings of the 1987 National Aerospace and Electronics Conference, May 1987.

_____, "VHSIC Systems Design and CAD Tool Development," Pittsburgh PA, September 1987.

_____, "AFIT VLSI Research," Semi-Annual Darpa VLSI Contractors Meeting, Salt Lake City UT, April 1987.

Lloyd, Lt Col D.E., "The Air Force As A Career," Wright State University, Fairborn OH, April 1987.

_____, "What are the Qualifications for the Senior Military Logistician," 22nd International Logistics Symposium Society of Logistics Engineers, St Louis MO, August 1987.

_____, "Is the Senior Military Logistician Qualified to Manage the System?" 22nd International Logistics Symposium, St Louis MO, August 1987.

Lott, J.A., "Characterization of enhanced Schotty Barrier In GaAs/ALGaAs Strained Channel MODFETs Grow by MBE," Co-authors D.R. Kitchen, C.W. Litton, T. Henderson, J. Chew, H. Morkoc, Proceedings of the Midwest MBE, AMOCO Research Center, Naperville IL, November 1987.

Mabe, Capt R.D., "Modelling Communications Systems in Assessment," WSMIS User Group Conference, Hill AFB UT, January 1987.

_____, "Assessing Communications Electronics in WSMIS," The Analytical Services Corp, Reading MA, April 1987.

Mall, S., "Debond Growth in Bonded Composite Joints Under Cyclic Loading," Co-author W.S. Johnson, 1987 Golden Gate Materials Technology Conference, San Francisco CA, February 1987.

Mall, S., "Effect of Adhesive Ductility on Cyclic Debond Mechanism in Composite-to-Composite Bonded Joints," Co-author K.T. Yun, International Meeting of the Adhesion Society, Williamsburg VA, February 1987.

_____, "Characterization of Matrix Toughness Effect on Cyclic Delamination Growth in Graphite Fiber Composites," Co-authors K.T. Yun, N.K. Kochhar, ASTM Second Symposium on Composite Materials: Fatigue and Fracture, Cincinnati OH, April 1987.

_____, "Delamination and Debonding Mechanisms of Composite Materials Under Mode II Loading," Co-author N.K. Kochhar, SEM Spring Conference on Experimental Mechanics, Houston TX, June 1987.

Materna, Lt Col, R.W., "The Global Village: Where in the World are We?" Co-author F.W. Westfall, Fairborn Rotary, Fairborn OH, February 1987.

Mathews, K.A., "A Data Analysis Method for Evaluation of TRS Calorimeter Data," Tenth International Symposium on the Military Applications of Blast Simulation, Bad Reichenhall France, September 1987.

Maybeck, Peter, "Adaptive Tracking of Targets Using IR Image Data," Distinguished Speaker Colloquium at the University of Cincinnati, Cincinnati OH, June 1987.

McCollogh, W.J., "Cooperative Jamming of a Mono-pulse Radar Seeker," The 32nd Joint Electronic Warfare Conference, MCDEC, Quantico VA, May 1987.

Meadows, J.D., "Crawford Slip Writing," Small Business Round Table, Dayton OH, January 1987.

Miller, Maj P.E., "R&M in the Air Force," University of North Carolina, Chapel Hill NC, April 1987.

Mills, James, "Optical Neurocomputers," Rome Air Development Center, Griffiss AFB NY, July 1987.

_____, "Multi-Sensor Fusion of Laser Radar and Infrared Images for Target Segmentation," The SPIE International Conference Southeast, Orlando FL, June 1987.

Mills, Lt Col J.P., "Optical Information Processing and Pattern Recognition at AFIT," Co-authors S.K. Rogers and M.K. Kabrisky, Seminar at the University of Dayton, September 1987.

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Mills, Lt Col J.P., "Impulse Response of Multi-Aperture Systems of 19 and 37 Apertures," Co-authors S.M. Watson, and S.K. Rogers, 1987 Annual Meeting of the Optical Society of America.

_____, "See Kabrisky, M.K."

_____, "See Rogers, S.K."

_____, "See Sabochick, M.J."

Moore, A.H., "A New Goodness of Fit Test for the Logistics Distribution," GRSA/TIMS Joint National Meeting, St Louis MO, 1987.

_____, "A New Goodness of Fit Test for the Logistics Distribution," Co-author V. Yen, 147th Annual Meeting of the American Statistical Association, San Francisco CA, August 1987.

_____, "A New Goodness of Fit Test for the Logistic Distribution," Co-author V. Yen, TIMS/ORSA Meeting, New Orleans LA, May 1987.

_____, "A Modified Goodness of Fit Test for the Lognormal Distribution," Co-author TIMS/ORSA Meeting, New Orleans LA, May 1987.

_____, "Modified Goodness of Fit Tests in Reliability," 5th Annual Joint AFSC/AFLC Reliability and Maintainability Conference, WPAFB OH, 1987.

_____, "See Barr, D.R."

Murphy, R.L., "Efficiency-Based Budgeting," Co-authors W.F. Bowlin, J.R. Wallace, Operations Research Society of America/Institute of Management Science National Meeting, St Louis MO, October 1987.

Myers, Eric K., "Multivariable PI and PID Control Law Designs For A High Performance Aircraft," NAECON Conference, May 1987.

Nagarsenker, B.N., "Equality of Scale Parameter of Several Exponential Distributions Based on Censored Samples," Co-author P.B. Nagarsenker, 201st Annual Meeting of the Institute of Mathematical Statistics, San Francisco CA, August 1987.

_____, "Non-Null distributions of LRC for Testing Equality of Exponential Distributions Based on Censored Samples," Co-author P.B. Nagarsenker, 201st Annual Meeting of the Institute of Mathematical Statistics, San Francisco CA, August 1987.

Nagarsenker, B.N., "Asympotic Distributions of a Test of Homogenity of Variances," Co-author P.B. Nagarsenker, 147th Annual Meeting of the American Statistical Association, San Francisco, August 1987.

_____, "On a Test of Equality of Exponential Populations Based on Censored Samples," Co-author P.B. Nagarsenker, 147th Annual Meeting of the American Statistical Association, San Francisco, August 1987.

Nagarsenker, P.B., "See Nagarsenker B.N."

_____, "See Nagarsenker, B.N."

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_____, "See Nagarsenker, B.N."

Oetting, William, "Special Analysis of a Digital FR Memory," The 1987 Joint Electronics Warfare Conference, Quantico VA, May 1987.

Paciorek, J.I., "Care Maintenance and Use of U.S. Government Property," National Property Management Association (NPMA) Shuttle Chapter, Kennedy Space Center FL, August 1987.

_____, "Maintenance of Government Property: The Why's and Wherefores!!," NPMA National Conventions, San Jose CA, September-October 1987.

Palazotto, A.N., "Indirect Boundary Element Method Applied to Fracture," Co-author F. Harris, Fourth International Conference of Numerical Methods in Fracture Mechanics, March 1987.

_____, "Examination of High Performance Fibers Under Compressive Deformation," Co-authors R. Kelly, S.J. Bai, AIAA 28th SDM Conference, April 1987.

_____, "Structure of High Performance Fibers Under Compression," Co-authors S.J. Bai, R. Keller, Physics Soc. Meeting, March 1987.

_____, "Thermal Shock Resistance of Mullite Based Silicon Carbide Whisker Composite," Co-authors W. Kelly, R. Ruh, 89th Annual Meeting of the American Ceramic Society, April 1987.

_____, "Thermal Shock Characteristics of Ceramic Composites, Co-authors W. Kelly and R. Ruh, ASCE Engr. Mech. Conference, May 1987.

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Palazotto, A.N., "The Use of Stereo-Xray and Deply Techniques for Evaluating Instability of Composite Cylindrical Composite Panels with Delamination," Co-authors B. Horban, E. Maddux, SEM Conference on Experimental Mechanics, June 1987.

_____, "Experimental Collapse Determination of Cylindrical Composite Panels with Large Cutouts," Co-author T. Tisler, SEM Conference on Experimental Mechanics, June 1987.

_____, "A Finite Element Investigation of Viscoplastic Induced Closure of Short Cracks at High Temperature," Co-author E. Bednarz, ASTM 20th Symposium on Fracture Mechanics, Lehigh University, June 1987.

_____, "An Overview of Incremental Numerical Techniques for Solving a Geometrically Nonlinear Static Shell Problem," Co-author S. Dennis, 20th Midwestern Conference, Purdue University, August-September 1987.

_____, "A Finite Element Analysis of the Viscoelastic Interaction Between the Nucleus Pulposes and Annulus Fibrosis," Sixth International Conference on Mathematical Modelling, St Louis MO, August 1987.

_____, "A Study of Gr/PEEK Under High Temperature," Co-author J. Ramey, Symposium on Thermoplastics, ASTM, Bal Harbour FL, October 1987.

_____, "Insight into the Collapse of Composite Cylindrical Panels with Cutouts," Co-author T. Tisler, PVP-ASME, San Diego CA, July 1987.

_____, "Through-the-Thickness Considerations for Composite Plates with large Displacement," Co-authors R.L. Hinrichsen, W. Witt, 1987 ASME PVP Conference, San Diego, July 1987.

Parnell, Lt Col G.S., "Artificial Intelligence, Operations Research and Decision Support System: A Conceptual Framework," Co-author B. Rowell, Military Operations Research Society (MORS) Symposium, May 1987.

_____, "The Need for a More Interdisciplinary Approach to Military Operations Research," MORS Symposium, May 1987.

_____, "Humans in Space Battle Management: Asking the Right Questions," Fourth International Symposium on Aviation Psychology, Columbus OH, April 1987.

_____, "An Expert System for Satellite Command and Control Scheduling," Co-authors D. Kenedy and B. Rowell, TIMS/ORSA Joint National Meeting in New Orleans LA, May 1987.

Parnell, Lt Col G.S., "A Prototype Knowledge-Based System to Aid Space System Restoration Management," Co-author B. Phillips, TIMS/ORSA Joint National Meeting, New Orleans LA, May 1987.

_____, "Introduction to Artificial Intelligence and Expert Systems," Air University Center for Professional Development, Maxwell AFB AL, June 1987 and August 1987.

_____, "Building Expert Systems," 1987 Federal Computer Conference, Washington DC, September 1987.

_____, "Applications of Advanced Computing to Project Management," Rockewll Science Center, Palo Alts CA, September 1987.

_____, "A Specialized Knowledge System for Launch Resource Scheduling," Co-author E. Crawford, 25th Space Congress, Kennedy Space Center FL, April 1987.

_____, "A Prototype Expert System for NAVSTAR Anomaly Resolution," Co-author M. Rampino, 25th Space Congress, Kennedy Space Center FL, April 1987.

_____, "See Rowell, Lt Col W.F."

_____, "See Valusek, Lt Col J.R."

Peschke, Lt Col R.E., "Education," American Defense Prepardness Association Colorado Springs CO, March 1987.

_____, "Microcomputers Based Education in Non-Microcomputer Environment," Co-author J. Halliday, Technology in Training and Education Conference, USAFA CO, March 1987.

Prescott, Glenn, "Characterization of the Error Performance of a QPSK Channel with Linear Distortion," NAECON Conference, Dayton OH, May 1987.

_____, "Special Analysis of A Digital FR Memory," The 1987 Joint Electronics Warfare Conference, Quantico VA, May 1987.

Pryor, H.W., "The Taft Initiatives Value Engineering," EIA Conference, Albuquerque NM, February 1987.

_____, "Collateral vs Acquisition Savings," Society of American Value Engineers, St Paul MN, June 1987.

Pursch, W.C., "Contract Management in China," NCMA North Texas Chapter, Dallas TX, January 1987.

_____, "Contract Management in China," NCMA For Worth Chapter, Fort Worth TX, January 1987.

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Pursch, W.C., "Contract Management in China," NCMA Grand Rapids Chapter, Grand Rapids MI, January 1987.

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_____, "Contract Management in China," NCMA Chapter Tusion AZ, February 1987.

_____, "Contract Management in China," NCMA Chapter, Denver CO, February 1987.

_____, "NCMA Educational Programs," NCMA Chapter, Cheyenne WY, February, 1987.

_____, "Contract Mangement in China," NCMA Chapter, Idaho Falls ID, February 1987.

_____, "Contract Mangement in China," NCMA Fort Monmouth Chapter, Ft Monmouth NJ, April 1987.

_____, "Impressions of China," NCMA Dayton Chapter and Air Force Association Dayton Chapter, Dayton OH, April 1987.

_____, "Images of China," Fairborn Lions Club, Fairborn OH, May 1987.

_____, "NCMA Educational Program," NCMA Chapter Buffalo NY, May 1987.

_____, "NCMA Educational Program," NCMA Chapter, Pheonix AZ, May 1987.

_____, "NCMA China Delegation in China," NCMA Chapter, Portland OR, May 1987.

_____, "NCMA Educational Program," NCMA Chapter, Richland WA, May 1987.

_____, "NCMA China Delegations," NCMA Chapter, Seattle WA, May 1987.

_____, "Contracting in China," Northrup University, Los Angeles CA, July 1987.

_____, "Ethics," Society of Property Administrators, Hilton Head SC, November 1987.

Pyati, Vittal P., "Cooperative Jamming of a Mono-pulse Radar Seeker," and "Correlation between Jammer-to-Signal Ratio and Flyout Miss-distance of a Command Guided Missle," 32nd Joint Electronic Warfare Conference, MCDEC, Quantico VA, May 1987.

Pyati, Vittal P., "Cooperative Jamming of a Monopulse Radar Seeker," 32nd Annual Joint Electronic Warefare Conference, Quantico VA, May 1987.

_____, "Radar Cross Sections," 6510 TESTW/TEUR Test Pilot School, Edwards AFB CA, July 1987.

_____, "Rehy, V.R.," Quality Improvement," International Association of Quality circles, Philadelphia PA, February 1987.

_____, "Motivation Process," J.C. Penney Distribution Center Recognition Banquet, Columbus OH, February 1987.

_____, "Defect Prevention: A Step Towards Excellent," 41th American Society for Quality Control, Minneapolis MN, May 1987.

_____, "AFIT Quality Programs," Army Management Engineer Training Agency, Rock Island IL, September 1987.

_____, "Deming Philosphy," Association of Quality and Participation Fall Conference, St Louis MO, October 1987.

Rhoden, W.E., "Sample Preparation of Aluminum Bridge Test Vehicles for TEM In- Situ Crystallographic Studies of Electromigration," Co-authors J.V. Maskowitz, D.R. Kitchen, R.E. Omlor, and P. Lloyd, Materials Research Society- Symposium W. Boston MA, November - December 1987.

Robbins, J.L., "National Estimating Workshop," Co-author W.L. Motlong, National Estimating Society/Institute of Contract Analysis Dayton Chapter, Dayton OH, September 1987.

Robinson, Capt D., "Algorithmic Approaches to Design," Seminar for the American Statistical Association, Dayton Chapter, November 1987.

Rogers, A.H., "Motivation," Dayton Career Academy, Dayton OH, December 1987.

Rogers, Capt Steven K., "A Multi-Sensor Fusion of Laser Radar and Infrared Images for Target Segmentation," The SPIE International Conference Southeast, Orlando FL, June 1987.

_____, "Optical Neurocomputers," Rome Air Development Center, Griffiss AFB NY, July 1987.

_____, "AFIT Research," The University of Dayton Research Institute, Dayton OH, July 1987.

Roh, W.B., "A Study of the Energy Transfer Mechanisms Between $O_2(le)$ and Iodine Monofluoride," Fall Meeting of Ohio Section of the American Physical Society, Youngstown OH, October 1987.

_____, "Experimental Investigation of a $CO-H_2$ Diffusion Flame Using High-Frequency Thermometry," Fall Meeting of Ohio Section of the American Physcial Society, Youngstown OH, October 1987.

_____, "A Study of Phasing of Two Arion Lasers Through Direct Coupling of Resonators," Fall Meeting of Ohio Section of the American Physical Society, Youngstown OH, October 1987.

_____, "A Study of Phase Conjugation in Photorefractive and Saturable Absorber Media," Fall Meeting of Ohio Section of the American Physical Society, Youngstown OH, October 1987.

_____, "Laser-Induced Fluorescence of BO_2 in an Atmospheric-Pressure Flame," Third International Laser Science Conference, Atlantic City NJ, November 1987.

Rossbach, Paul, "An Optimizing XROM Silicon Compiler," The 1987 Custom Integrated Circuits Conference, Portland OR, May 1987.

Roth, Capt Mark, "New Design Criteria for Non1NF Relational Databases," International Workshop on Theory and Applications of Nested Relations and Complex Objects, Darmstadt West Germany, February 1987.

_____, "The Design of Non-1NF Relational Databases into Nested Normal Form," The ACM SIGMOD-87 International Conference, San Francisco CA, May 1987.

_____, "The Progress in the Development of a Microcomputer Version of the Theater War Exercise," The Air Force Wargaming Center, Maxwell AFB AL, May 1987.

Rowell, Lt Col W.F., "Operations Research Education at AFIT," Second Annual Colloquium on Teaching Military Operations Research, Washington DC, April 1987.

_____, "A Methodology for Making the SOF Aircraft Deployment/Employment Decision," Military Operations Research Society Symposium, May 1987.

_____, "Educational Programs at AFIT," Scientific Analyst Career Conference, U.S. Air Force Academy, September 1987.

Rowell, Lt Col W.F., "See Parnell, Lt Col G.S."

_____, "See Parnell, Lt Col G.S."

_____, "See Valusek, Lt Col J.R."

Rumsey, Maj H.A., "Productivity Measurements in Air Force Civil
Engineering," Productivity Measurement Workshop, Phoenix AZ,
April 1987.

_____, "Productivity Measurement by Data Envelopment Analysis,"
American Society of Engineering Management, St Louis MO,
October 1987.

Sabochick, M.J., "Computer Simulation of Laser-Induced Ultra-
Rapid Phase Changes," Co-authors J.P. Mills, and M.T.
Maclin, Materials Research Society 1987 Fall Meeting, Boston
MA, November - December 1987.

Schneider, Dean, "QFT Digital Flight Control Design as Applied to
the AFIT/F-16," 1987 National Aerospace and Electronics
Conference, Dayton OH, May 1987.

Schuppe, Lt Col T.F., "An Analysis of Chronic Shortages in the B-
52 Radar Navigator Career Field," Co-author K. Charpie,
ORSA/TIMS Conference, St Louis MO, October 1987.

Seward, Lt Col Walter, "Ongoing and Planned Research in a
Distributed SDI Environment," 1st US/UK Workshop on Parallel
Processing, The Royal Military College of Science, Swindon
Wilts UK, July 1987.

_____, "Performance Evaluation of Parallel Branch and Bound
Search with the Intel IPSC Hypercube Computer," The Second
International Conference on Super Computing, Santa Clara CA,
May 1987.

_____, "Task Allocation in a Distributed Computing System," The
Space Operations-Automation and Robotics Workshop, Houston
TX, August 1987.

Sheldon, Stuart N., "Multivariable PI and PID Control Law Designs
For A High Performance Aircraft," Proceedings of the 1987
National Aerospace and Electronics Conference, Dayton OH,
May 1987.

Spenny, C.H., "Performance Criteria For A Mechanical Head/Neck
That Predicts Secondary Impact Force Levels In Flexion,"
31st Stapp Car Crash Conference, Society of Automotive
Engineers, December 1987.

Steel, R.P., "On the Construct Validity of Self-Evaluation of
Task Evaluation," Academy of Management, Houston TX, March
1987.

Steel, R.P., "Confounding Effects of Turnover Base Rate on Relations Between Time Lag and Turnover Study Outcomes," Northrup University, Los Angeles CA, August 1987.

_____, "Effect of Attendance, Motivation, Organizational Commitment, and Intent to Remain on Absenteeism," American Psychological Association, New York NY, August 1987.

_____, "Integrating Research Findings Through Meta-Analysis," 7th Annual Lilly Conference on College Teaching, Miami University, Oxford OH, November 1987.

Stein, P.H., "Overhead," Air Force Contract Law Center, WPAFB OH, February 1987.

_____, "How Contractors Estimate Cost," Contract Appeals Conference, WPAFB OH, February 1987.

Stephens, James, "A Review of Satellite Code Division Multiple Access and A Technique for Determining the Number of Simultaneous Accesses," Proceedings of the 1987 National Aerospace and Electronics Conference and FTD/TQCS, Dayton OH, May 1987.

Stibravy, Maj J.A., "The Importance of Teaching 1880's Technology in Today's Curriculum," Torch Club, Dayton OH, March 1987.

_____, "Fifteen Hints For successfully Teaching Technical Writing to Beginning Graduate Students," Co-author C.L. Davis, International Technical Communication Conference, Denver CO, May 1987.

Stohren, F.F., "Technical Writing 1987: Galloping Off In At Least Two Directions," Conference on College Composition and Communication, Atlanta GA, March 1987.

_____, "Internships In The Federal Government," Practical Conference On Communications, Oak Ridge TN, November 1987.

Tatman, Capt J., "Influence Diagrams: A Tutorial," 55th Military Operations Research Society Symposium, Maxwell AFB AL, May 1987.

Transmeier, Capt G.D., "Proportional Reset Control," HVAC Air Distribution Control System Seminar, Dayton OH, April 1987.

Terzuoli, A.J., "See Lair, A.U."

_____, "See Lair, A.U."

Triscari, Capt T., "Management Organization Design and Computer-Based Information Systems Design Basic Conformations," Academy of Management National Meeting, New Orleans LA, August 1987.

Triscari, Capt T., "Expert Systems in Acquisition Management,"
    AFIT Association of Graduate, Dayton OH, October 1987.

Tom, Maj S.T., "Introduction to Control," Annual Winter Meeting,
    American Society of HVAC Engineers, New York NY, January
    1987.

_____, "Introduction to HVAC Controls," HVAC Air Distrution
    Control Systems Seminar, Dayton OH, April 1987.

Torvik, P.J., "Fractional Derivatives in the Description of
    Damping Materials and Phenomena," Co-author R. Bagley, ASME
    Vibrations Conference, Boston MA, September 1987.

_____, "The Design and Effectiveness of Impact Dampers for Space
    Applications," Co-author B. Gibson, Biennial ASME Vibrations
    Conference, Boston MA, September 1987.

Umphress, D.A., "A Prototype Implementation of a Goal-Oriented
    Simulation Environment," 4th International Symposium on
    Modelling and Simulation Methodology, Tucson AZ, January
    1987.

_____, "Goal-Oriented Approach to Simulation," Eastern Simulation
    Conference, Orlando FL, April 1987.

_____, "Goal-Oriented Discrete-Event Simulation," ORSA/TIMS
    Conference, St Louis MO, October 1987.

Valusek, Lt Col J.R., "Decision Support Systems, Artificial
    Intelligence, and Operations Research: A Conceptual
    Framework," Co-authors G. Parnell, W. Rowell, Space
    Operations-Automation and Robotics Conference, Houston TX,
    August 1987.

Vaughan, D.K., "Aviation Research in the Wright-Patterson AFB
    Area," Conference of Historic Aviation Writers, San Diego
    CA, October 1987.

_____, "Letter and Diary Practices Among World War I American
    Aviators," North East Popular Culture Association, Portland
    ME, November 1987.

Wells, R.L., "Contract Management," Army Logistics Management
    Center, Ft Lee VA, March 1987.

_____, "What Army Commanders Need to Know About Contract
    Management," ALMC Conference, Ft Lee VA, May 1987.

_____, "The Current Posture in DoD for Contracts," Management
    Electronics, Ft Wayne IN, June 1987.

_____, "Progress Payment," Defense Logistics Association Meeting,
    Boston MA, August 1987.

Wells, R.L., "Progress Noval Plant Representation Office," San Diego CA, September 1987.

_____, "Progress Payments for Fun and Profit," National Contract Management Associations, Mt Laurel NJ, November 1987.

Westfall, Lt Col F.W., "See R.D. Materna."

Widenhouse, C.W., "Air Force R&M Data Systems," Society of Automative Engineers, New Orleans LA, April 1987.

Widhalm, J., "Partial Detumbling of Two Joint-Connected Rigid Bodies by an Internal Torque Derived by Liapunov Methods," AAS/AIAA Astrodynamics Specialists Conference, Kalispell MT, August 1987.

Wiesel, W.E., "Applications of Periodic Control," Pennsylvania State University, Spring 1987.

_____, "Applications of Periodic Control," Auburn University, Spring 1987.

_____, "Applications of Periodic Control," The Ohio State University, Spring 1987.

_____, "Characteristics of Space Forces Medium," Air Command and Staff College, Maxwell AFB AL, November 1987.

Yeo, Y.K., "Surface Depletion Width Calculation for the Non-Uniformly Doped Semiconductors," Co-authors D.W. Elsaesser and R.L. Hengehold, American Physical Society, New York NY, March 1987.

_____, "Selective Pair Luminescence Study of GaAs Substrates," Co-authors J.R. Cavins and R.L. Hengehold, Spring Meeting of Ohio Section of the American Physical Society, Akron OH, May 1987.

_____, "C-V Profile Measurements of Si-Implanted GaAs," Co-authors G.H. Gainer, Jr., and R.L. Hengehold, Fall Meeting of Ohio Section of the American Physical Society, Youngstown OH, October 1987.

VII. MASTER'S THESES TITLES

Calendar Year 1987 - Summary

BY SPONSORS		BY DEPARTMENTS*	
ASD	42	ENG	116
AFFDL	32	ENS	58
HQ USAF	27	LSM	56
AFAL	26	ENY	47
RADC	21	ENP	31
AFIT	19	LSR	27
HQ AFLC	18	LSY	27
Space Command	17	ENC	16
AFAPL	14	LSQ	14
USA	14	DEM	12
AFML	13	LS	10
AFWL	12	LSP	3
HQ TAC	11	XP	2
AFESC	11	DEE	1
AU	10	AFWAL	1
AAMRL	9	TOTAL	421
SDIO	8		
AFOSR	7		
HQ SAC	7		
HQ MAC	5		
NASA	5		
HQ AFSC	5		

Four each from FTD, SD, AFHRL, RAFF, DLA, AFMPC, HQ AFWAL; Three each
from AFCOMS; Two each from ILS, DESC, AFALC, DNA, USAF Academy, AD,
MEDCTR, ESD, AFRPL, AFFTC, 4484 Two Tynadal; One each from AFCC, AFOTEC,
DECE, CIGTF, USMC, AFEWC, AFTAC, OO-ALC, USAFE, PACAF, USN, AFATL, AFLMC
AFCMD, AFOSI, AFOSP, DAS, DHA, NPGS, AFCSA, 479 TTW, Los Alamos Nat Lab,
RAND, Brazil, Spain, ROKAF, U.S. Treasury, BCE at Patrick, Warren,
Columbus and Hurlburt, 6916 ES SQD

* Department symbols and locations tested on pages 5 and 6

MASTER'S THESES TITLES

CALENDAR YEAR 1987

GA/AA/87D-1   Active Vibration Control of a   Capt T.A. Cristler
Cantilevered Beam With Three   Sponsor: AFWAL/FIBG
Elastic Coordinates

GA/AA/87D-2   Optimal Thrust Vector Control   Lt S.A. Eide
Of Coplanar Orbital Evasive   Sponsor: Space Com
Maneuvers

GA/AA/87D-3   Relative Motion Of Two   Lt J.M. Meintel
Satellites In Close-Elliptical   Sponsor: Space Com
Orbits

GA/AA/87D-4   Orbital Analysis Of A STS   Maj D.D. Miner
External Tank In Low Earth   Sponsor: Space Com
Orbit

GA/AA/87D-5   Investigation Of Heat Transfer   Capt J.T. Novak
To A Flat Plate In A Shock Tube   Sponsor: AFWAL/POTC

GA/AA/87D-6   A Technique For Capture Analysis   Lt C.J. Poole
Of Low Thrust Missions In A   Sponsor: Space Com
Planetary System

GA/AA/87D-7   Interaction Between Two-   Maj J.M. Traxler
Dimensional Sonic Jets And   Sponsor: AFWAL/PS
Supersonic Flow To Model Heat
Addition In A Supersonic Combustor

GA/AA/87D-8   Dynamics Of Propellant Feed-   Lt W.F. Berrier, Jr.
line Systems   Sponsor: ASD

GA/AA/87D-9   An Experimental Investigation Of   Capt T.R. Wesling
Rocket Ramjet Nozzle Assembly   Sponsor: AFWAL/PS
Base Pressures

GA/AA/87D-10   Linearization Of A Turbofan   Capt G.L. Thelen
Engine   Sponsor: ASD/ENFPA

GAE/AA/87S-12   Calibration Of A Hot-Wire/Hot-   Capt D.C. Oka
Film Anemometer Over A Range   Sponsor: AFWAL/POTC
Of Temperatures, Velocities
And Pressures

GAE/AA/87D-1   Determination Of High Angle-Of-   Capt T.J. Barth
Attack Stability Of The F-15B   Sponsor: AFWAL/FL
Aircraft Using Bifurcation
Analysis

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GAE/AA/87D-2	Interaction Of A Two-Dimensional Bluff Body And Incompressible Jet And Annulus Flows	Capt C.A. Boedicker Sponsor: AFWAL/POSF
GAE/AA/87D-3	Cyclic Crack Growth Emanating At A Round Notch Considering Viscoplasticity	Capt G.L. Chestnut Sponsor: AFWAL/MLLN
GAE/AA/87D-6	Compressible Friction Coefficients In a Simulated Heat Pipe	Lt C.A. Holladay Sponsor: POOC-5
GAE/AA/87D-7	Film Cooling Effectiveness On a Flat Plate In High Free-Stream Turbulence Using a Singe Row Of 30° Slant-Hole Injectors	Maj G.W. Jumper Sponsor: AFWAL/POTC
GAE/AA/87D-8	Investigation Of The Effect Of Variable Tail Dihedral On Airplane Stability	Capt J.A. Kidd Sponsor: AFWAL/FIMG
GAE/AA/87D-9	Strength And Failure Analysis Of Composite Laminate Containing A Circular Hole With Reinforcement	Capt J.H. Lee Sponsor: AFWAL/MLBM
GAE/AA/87D-10	Viscoelastic Behavior Of A Polyetheretherketone (Peek) Composite	Capt R.P. Lockwood Sponsor: AFWAL/MLBC
GAE/AA/87D-11	A Two-Dimensional Transient Temperature Profile Of Dielectrically Heated Solid And Honeycomb Core Organic Composite Walls	Capt F.X. McRory Sponsor: ESD/SYMX
GAE/AA/87D-12	Application Of Analytic Redundancy And Design Of A Reconfigurable Flight Control System	Miss E.R. Mayhew Sponsor: AFWAL/FIM
GAE/AA/87D-13	Threshold Fatigue Crack Growth In Ti-641-S2n-4Zr-6Mo	Capt D.A. Nagy Sponsor: AFWAL/MLLN
GAE/AA/87D-14	The Effective Fracture Toughness Of Aluminum At Rapid Heating Rates	Capt J.W. Nichols Sponsor: AFWL/TAL
GAE/AA/87D-15	Design Of An Aeroelastic Composite Wing Wind Tunnel Model	Capt W.J. Norton Sponsor: AFWAL/FIBR
GAE/AA/87D-16	The Buckling And Vibration Of Composite Plates Using The Levy Method Considering Shear Deformation and Rotary Inertia	Capt R.F. Palardy Sponsor: AFWAL/MLBM

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GAE/AA/87D-18	Thermal-Mechanical Fatigue Testing Of A Titanium-Aluminide Alloy	Lt J.J. Pernot Sponsor: AFWAL/MLLN
GAE/AA/87D-19	Realtime Pilot Model Parameter Identification	Capt M. Rosenbleeth Sponsor: NASA/AMES
GAE/AA/87D-20	Flow Response Of An Axisymmetric Confined Jet Thrust Vector Control Nozzle	Maj R.W. Ryan Sponsor: AFAL/XRX
GAE/AA/87D-22	Experimental Investigation Of Two-Dimensional Confined Jet Thrust Vector Control	Lt T.A. Talda Sponsor: AFWAL/POTC
GAE/AA/87D-24	Fracture Toughness Testing Of A Ceramic Matrix Composite	Capt R.P. Vozzola Sponsor: AFWAL/MLLN
GAE/AA/87S-1	Performance Optimization Of A Cruise Missile Using Dynamic-Stall Induced Lift Augmentation	Mr. W.J. Dardis III Sponsor: ASD/ENFTA
GAE/AA/87S-2	Application Of Eigenstructure Assignment Techniques In The Design Of A Longitudinal Flight Control System	Mr. D.G. Goddard Sponsor: AFWAL/FIG
GAE/AA/87M-1	Experimental Study Of Wing-In-Ground Effects In The AFIT 5-Foot Wind Tunnel	Maj L.C. Edwards Sponsor: AFWAL/FIEMB
GAE/AA/87M-2	Multi-Input/Multi-Output Designated Eigenstructure (Modes): A Computer-Aided Control System Design Program	Capt M.E. Hopper Sponsor: AFWAL/FIG
GAE/AA/87M-3	An Experimental Study Of A Rocket Ramjet Nozzle Cluster	Capt J.A. Maxwell Sponsor: AFWAL/POOC
GAE/AA/87M-4	Investigation Of Periodic Pitching Through The Static Stall Angle Of Attack	Capt E.J. Stephen Sponsor: AFWAL/FIG
GAE/AA/86J-2	Evaluation Of Numerator Lead Effects On Aircraft Handling Qualities	Capt D.W. Eidsaune Sponsor: USAF Test Pilot School
GAE/ENG/87M-1	Accurate Prediction Of Longitudinal Flying Qualities For Landing Aircraft	Lt J.J. Martz Sponsor: AFFDL/FIGC
GCE/ENG/87D-1	A System Status Monitor For The National Aerospace Plane	Capt J.A. Baumann Sponsor: AFSC/NAEF

GCE/ENG/87D-2	Implementation And Performance Analysis Of Parallel Assignment Algorithms On A Hypercubic Computer	Capt B.A. Carpenter Sponsor: OSD/SDIO
GCE/ENG/87D-3	Kalman Filter Residual Expert System	Capt J.D. Grimshaw Sponsor: AFWAL/FIGL
GCE/ENG/87D-4	Design And Implementation Of A VLSI Prime Factor Algorithm Processor	Lt R. Hauser Sponsor: AFOSR/XP
GCE/ENG/87D-5	Geometric Modeling Of Flight Information For Graphical Cockpit Display	Capt M.A. Kanko Sponsor: AFWAL/FIGR
GCE/ENG/87D-7	The Integration Of Artificial Intelligence Techniques To Improve The Effectiveness Of Electronic Countermeasures Strategies In A Tactical Environment	Capt B.E. Mullins Sponsor: AFWAL/AAW
GCE/ENG/87D-8	The Modeling, Simulation And Comparison Of Interconnection Networks For Parallel Processing	Lt R.A. Raines Sponsor: SDIO
GCE/ENG/87D-9	The VHDL Simulation Of A Space Surveillance Signal Processor	Capt L.J. Shand Sponsor: AFOSR
GCS/ENG/87D-1	A Digital Circuit Design Environment	Capt C.A. Adams Sponsor: AFWAL/AAA
GCS/ENG/87D-2	Validation And Evaluation Of The VME Algorithms On Existing Computer Architechtures	Mr. D.W. Allen Sponsor: AFIT
GCS/ENG/87D-3	A Knowledge Based Expert-System For Synthetic Aperture Radar Target Recognition	Lt S.A. Anderson Sponsor: RADC
GCS/ENG/87D-6	Developing A Database System And Air Simulation Software For The Theater War Exercise	Capt M.D. Brooks Sponsor: AU/CADRE
GCS/ENG/87D-7	An Object-Oriented Distributed Software Development Environment For A Parallel Multi-Computer System	Capt E. Carmona Sponsor: SDIO
GCS/ENG/87D-8	Common Database Interface For Heterogeneous Software Engineering Tools	Capt T.D. Connally Sponsor: OSD/SDIO

GCS/ENG/87D-9	A Framework For The Measurement And Analysis Of Software Development Productivity	Lt V.H. Cook Sponsor: ASD
GCS/ENG/87D-10	A Digital Logic Simulator With Concurrent Programming Considerations	Capt W.C. DeLoria Sponsor: AFWAL/AAA
GCS/ENG/87D-11	Implementation Of A Distributive Adaptive Routing Algorithm On The Intel IPSC	Capt T.C. Farinelli Sponsor: SDIO
GCS/ENG/87D-13	Design Of An Algorithm To Translate Nested Relational Algebra Queries To Genesis Trace Manager Commands	Capt A. Hartman Sponsor: AU/CADRE
GCS/ENG/87D-14	Adaptive Design Of A Decision Support System For Dynamic Retasking Of CAS and BAI Assets	Capt P.W. Hoak Sponsor: HQ USAF
GCS/ENG/87D-15	Redesign Of The Joint Planning Exercise (JPLAN)	Capt J.R. Jansen Sponsor: AU/CADRE
GCS/ENG/87D-19	Developing New User Interfaces For The Theater War Exercise	Capt M. Kross Sponsor: AU/CADRE
GCS/ENG/87D-20	A Simulation Study Of Parallel Processor With Unbalanced Loads	Capt T.S. Moore Sponsor: AFIT
GCS/ENG/87D-21	Design Methodology For Allocating Data In A Distributed Database	Capt E.T. Poore Sponsor: USA
GCS/ENG/87D-23	A Three Dimensional Electronic Retina	Capt G. Salada Sponsor: AFOSR/NE
GCS/ENG/87D-24	Artificial Intelligence Search Techniques For Real-Time Applications	Capt D.J. Shakley Sponsor: AFWAL/AAAI
GCS/ENG/87D-25	Simulation And Analysis Of A Local Area Network Backbone For HQ, US Army Europe And The Seventh Army	Capt L.J. Shrader Sponsor: USA USAISEC-EUR
GCS/ENG/87D-26	Development Of A Dependency Theory Toolbox For Database Design	C.W. Stansberry, Jr. Sponsor: AFIT
GCS/ENG/87D-27	Design And Development Of Combined Federal Campaign Collection System	Capt F.L. Ucman Sponsor: AU/AC

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GCS/ENG/87D-28	An Expert System For Discrete Component Digital Circuit Design	Lt S.M. Wagner Sponsor: USA
GCS/MA/87D-1	A Production-Quality Unix Very High Speed Integrated Circuit (VHSIC) Hardware Description Language (VHDL) Subset Analyzer	Capt R.M. Bratton Sponsor: AFWAL/AADE
GOR/MA/87D-1	Smark Munitions Mix For The Field Artillery	Capt M.M. Buckmaster Sponsor: ARDEC-USA
GOR/MA/87D-2	Perform A Personal Influence Diagram System For Decision Analysis	Capt T.M. Burwell Sponsor: ASD
GOR/MA/87D-3	Validation Of The Tactical Air Force's Decision Making Process To Prioritize Modifications Using The Analytic Hierarchy Process	Lt K.H. Darko Sponsor: TAF/SMO-R&M
GCE/MA/87D-1	An Interface-Based ADA Programming Support Environment	Capt S.A. Deloach Sponsor: AFWAL/AAAF
GCS/MA/87D-2	Validating And Evaluating ADA'S Representation Clauses And Implementation-Dependent Features On MIL-STD-1750A Architechture	Capt D.O. Joyce Sponsor: ASD/ENASF
GCS/MA/87D-3	Examination Of The Effects Of Using ADA In Flight Control Software	Capt J.D. Klemens Sponsor: AFWAL/FIGI
GCS/MA/87D-4	Applicability Of ADA* Tasking For Avionics Executives	Maj R.E. Kontak Sponsor: ASD/ENASF
GCS/MA/87D-5	Modification, Implementation, And Evaluation Of A Remote Terminal Emulator As A Software Validation And Stress Testing Tool	Capt C.J. Reisberg Sponsor: HQ MAC
GCS/ENG/87J-1	A Database Design For The Brazilian Air Force Military Personnel Control System	M. Wagner Sponsor: Brazil Air Force
GCS/ENG/87D-21	Design Methodology For Allocating Data In A Distributed Database	Capt E.T. Poore Sponsor: USA
GCS/ENG/87D-23	A Three Dimensional Electronic Retina	Capt G. Salada Sponsor: AFOSR/NE

GCS/ENG/87D-24	Artificial Intelligence Search Techniques For Real-Time Applications	Capt D.J. Shakley Sponsor: AFWAL/AAAI
GCS/ENG/87M-1	A Program Maintenance Aid Using Static Data Flow Analysis Techniques	Capt T.S. Weber Sponsor: HQ AFLC
GE/ENG/87D-9	Spectral Estimation Of Short Data Records	Lt T.E. Carter Sponsor: AFWAL/AAWP-1
GE/ENG/87D-11	A Specialized Knowledge System For Launch Resource Scheduling	Capt J.E. Crawford, Jr Sponsor: Space Com
GE/ENG/87D-12	Performance Of GPS-Aided INS During High Dynamic Maneuvers	J.R. Cunningham Sponsor: Space Div
GE/ENG/87D-13	The Design Of A Low Cost Electronics Intelligence System For Validation Of Airborne Radar Operational Testing	Capt D.K. Daegele Sponsor: Tests/TEUR Tyndall AFB
GE/ENG/87D-14	Spire Based Speaker-Independent Continuous Speech Recognition Using Mixed Feature Sets	Capt R.G. Dawson Sponsor: AAMRL/BBA
GE/ENG/87D-15	Automatic Classification Of Digitally Modulated Signals	M.P. DeSimio Sponsor: AFWAL/AAAI-4
GE/ENG/87D-39	Validation Of Gemacs For Modeling Lightning-Induced Electro-Magnetic Fields	D.S. Mabee Sponsor: ASD
GE/ENG/87D-40	Model Selection For The Multiple Model Algorithm For In-Flight Simulation	J.R. Matthes, Jr. Sponsor: AFWAL/FIGL
GE/ENG/87D-41	An Investigation Of The Effects Of Quantization On A Digital Radio Frequency Memory	Capt J.A. Maziarz Sponsor: AFWAL/AAWW
GE/ENG/87D-3	High Speed Transcendal Elementary Function Architecture In Support Of The Vector Wave Equation	M.J. Bailey Sponsor: AFWAL/AAA
GE/ENG/87D-4	A Robust Controller For The EDL-7MC	Capt C. Baner Sponsor: AFWAL/FIGX
GE/ENG/87D-5	Experimental Comparison Of Lightning Simulation Techniques To In-Flight Lightning Strike Measurements	Lt R.M. Braza Sponsor: ASD

GE/ENG/87D-6   Tracking Multiple Targets In A   LT D.L. Bruce, Jr.
                Cluttered Environment Using   Sponsor: RADC/OCSE
                Multiple Angle-Only Sensors

GE/ENG/87D-7   Synthetic Aperture Radar   Capt T.P. Buquet
                Pattern Recognition   Sponsor: AFWAL/AART

GE/ENG/87D-16   An Analysis Of Physiological   Capt M.E. Drylie
                Data Related To Motion Sickness   Sponsor: AAMRL/CC
                For Use In A Real-Time Motion
                Sickness Indicator

GE/ENG/87D-17   System Analysis And Design For   Capt D.L. Dunn
                The Radar Test Facility Ground-   Sponsor: TESTS/TEUR
                Based Jammer   Tyndall AFB

GE/ENG/87D-18   Motion Sickness: Quantitative,   Capt E.L. Fix
                Algorithm Malaise Indicator In   Sponsor: AAMRL/CC
                Real-Time

GE/ENG/87D-19   Rapid Prototyping Of Applicator   D.M. Gallagher
                Specific Processors   Sponsor: AFOSR/NE

GE/ENG/87D-20   Motion Sickness: A Study Of   Capt P.J. Gaudreault
                Its Effects On Human Physiology   Sponsor: AAMRL/CC

GE/ENG/87D-22   QFT Digital Controller For An   Lt S.W. Hamilton
                Unmanned Research Vehicle With   Sponsor: AFWAL/FIGL
                An Improved Method For Hoosing
                The Control Weightings

GE/ENG/87D-23   Tracking And Control Of A   L.J. Harambasic, Jr.
                Neutral Particle Beam Using   Sponsor: AFWL/ARBC
                Multiple Model Adaptive Meer
                Filter

GE/ENG/87D-24   Feature Extraction Using The   Capt M.L. Hill
                Hough Transform   Sponsor: RADC

GE/ENG/87D-25   Image Processing Using A   Capt B.R. Hodges
                Parallel Architecture   Sponsor: SDIO

GE/ENG/87D-26   The Effect Of The Atmosphere   Capt J.C. Holt
                On The Laser Airborne Commun-   Sponsor: AFWAL/AARI
                ications Experiment (Have Lace)

GE/ENG/87D-27   Study Of The Energy Transfer   Lt R.O. Johnson
                Mechanisms Between O_2 ('s) And   Sponsor: AFWL/ARBI
                Iodine Monoflouride

GE/ENG/87D-28   A Graphics Editor For Structured   Capt S. Johnson
                Analysis With A Data Dictionary   Sponsor: SDIO

GE/ENG/87D-29	Image Segmentation Via Fractal Dimension	Capt A.L. Jones Sponsor: RADC
GE/ENG/87D-30	F-16 Simulator For Man-In-The-Loop Testing Of Aircraft Control Systems (Simtacs)	Lt M.W. Kassan Sponsor: AFWAL/FIGLA
GE/ENG/87D-31	High-Speed Bandpass Sampling Of Digital Communications Waveforms	Capt T.E. Keith Sponsor: AFWAL/AAAI-4
GE/ENG/87D-32	Adaptive Transmit Power Control For Airborne Communications	Capt T.J. Kindel Sponsor: AFWAL/AAAI-2
GE/ENG/87D-33	Unix-Based VHDL Interactive Simulator	Lt H. Kodama Sponsor: AFWAL/AADE
GE/ENG/87D-34	Susceptibility Assessment Of The Arpanet Routing System	Capt J.A. Kosey Sponsor: RADC/DCL
GE/ENG/87D-35	Evaluation And Enhancement Of The AFIT Autonomous Face Recognition Machine	Capt L. Lambert Sponsor: AFIT
GE/ENG/87D-36	Moving-Bank Multiple Model Adaptive Estimation Applied To Flexible Space Structure Control	Capt R.W. Lashlee Sponsor: AFWAL/FIG
GE/ENG/87D-37	A Multiple Model Adaptive Tracking Algorithm Against Airborne Targets	Capt T.A. Leeney Sponsor: AFWL/ARAA
GE/ENG/87D-38	Characterization Of Enhanced Schottky-Barrier In GA AS/ALX GA!-XAS Strained-Channel Modulation-Doped Field Effect Transistors	Capt J.A. Lott Sponsor: AFWAL/AADR
GE/ENG/87D-42	Analytic Determination Of The Effect Of Radar Cross Section On Combat Survivability	Capt J.B. McCormack Sponsor: AFWAL/CDJ
GE/ENG/87D-43	Simulation And Analysis Of Networking Techniques In A Multiple Link Meteor Burst Communications Network	Capt B.A. Meyers Sponsor: RADC/EECT
GE/ENG/87D-44	Implementation Of A Target State Estimator For The Air-To-Air Attack Mode Of The AFTI/F16	Capt D.L. Michalk Sponsor: AFWAL/FIGX

GE/ENG/87D-45	Implementation Of A Visual Servicing System For Evaluation Of Robotic Refueling Applications	Capt M.M. Miller Sponsor: AFWAL/MLTZ
GE/ENG/87D-46	Real-Time Digital Signal Processing Implementation For The Modulation Detection And Classification (MODAC) Receiver	Capt R.F. Mills Sponsor: AFWAL/AAWP
GE/ENG/87D-48	Network Communication Vulnerability Assessment Of A Change In Milnet Topology	Capt F.W. Mooney Sponsor: RADC/DCLD
GE/ENG/87D-50	A Model For Nitrogen Atom Recombination On A Silicon Dioxide Surface	Capt M. Newman Sponsor: AFWAL/POOC
GE/ENG/87D-51	Optimal Selection Of Global Positioning System Set To Minimize Emitter Location Errors	Capt S.G. Peters Sponsor: ASD
GE/ENG/87D-52	Piezoelectric Polymer Tacticle Sensor Arrays For Robotics	Capt D.G. Pirolo Sponsor: AAMRL/CC
GE/ENG/87D-53	Electromagnetic Shadowing By An Exponentially Distributed Rough Surface	Lt C. Reif Sponsor: RADC/EEC
GE/ENG/87D-54	Three-Dimensional Scene Analysis Using Stereo Based Imaging	Capt R.E. Roberts Sponsor: RADC
GE/ENG/87D-55	Electromagnetic Scattering From An Exponentially Distributed Rough Surface With The Introduction Of A Rough Surface Generation Technique	Capt T.K. Roseman Sponsor: RADC/EC
GE/ENG/87D-56	Multisensor Target Detection And Classification	Capt D.W. Ruck Sponsor: AFWAL/AARI
GE/ENG/87D-57	Effectively Controlling Datagram Congestion On The DoD Internet System	Capt B.J. Schofield Sponsor: DCEC
GE/ENG/87D-58	Performance Analysis Of A Unique Fiber Optics Ethernet	Capt M.M. Shoukat Sponsor: USA-USAISEC
GE/ENG/87D-59	A Computer Model Of Inhibition, Energy Normalization, And Noise Suppression In The Retina	Capt J.E. Sillart Sponsor: AAMRL
GE/ENG/87D-60	Proof Of Concept Design Of A Continuous Phase Modulator	Capt M.P. Simmons Sponsor: AFWAL/AA

GE/ENG/87D-61	A Simulation Moel Of The ASD Control Datacomm System (CDS)	Capt R.D. Smedley Sponsor: ASD/SCEA
GE/ENG/87D-62	Laser Programming Integrated Circuits	Capt C. Spanburg Sponsor: AFOSR/NE
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GE/ENG/87D-65	Fabrication And Electrical Char-acterization Of Multilevel Alum-inum Interconnects Used To Achieve Silicon-Hybrid Wafer-Scale Integration	Lt G.L. Takahashi Sponsor: FTD/TQTR
GE/ENG/87D-66	Subharmonic Aliasing And Its Effects On The AFTI/F-16 Digital Flight Control System	Capt D.M. Thomas Sponsor: AFWAL/FIG
GE/ENG/87D-67	Modification Of Parabolic Dish Antenna Pattern Using Two Symmetrically Placed Circular Flat Plates	Lt G.C. Thorpe Sponsor: RADC/EEC
GE/ENG/87D-68	Development Of A Hybrid Simula-tor For Robot Manipulations	Capt P.M. Van Wirt Sponsor: AFWAL/MLTZ
GE/ENG/87D-69	Multivariable Control Law Design For The AFTI/F-16 With A Failed Control Surface Using A Para-meter-Adaptive Controller	Capt J.E. Velez Sponsor: AFWAL/FIGA
GE/ENG/87D-73	Examination Of Temperature Effects On Gate-To-Drain Avalanche Breakdown In GA As Mesfets By Measuring Light Emission Under RF Drive	Capt R.E. Robb Sponsor: SD/DAXX
GE/ENG/87D-74	Parameter-Adaptive Model-Following For In-Flight Simula-tion	L.A. Pinerio Sponsor: AFWAL/FIGX
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GEO/ENG/87D-2	LQG/Ltr Design Of A Robust Digital Longitudinal Directional Controller For The AFIT F-16 Aircraft	Lt M.E. McNeeley Sponsor: AFWAL/FIGX

GEO/ENG/87D-3	Position, Scale And Rotation Invariant Target Recognition Using Range Imagery	Lt S.E. Troxel Sponsor: AD
GEO/ENP/87D-1	Resonator Coupling Of Two Con-tinuous Wave Ring Cavity Argon Ion Lasers	Capt W.O. Abraham Sponsor: AFWL
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GEP/ENP/87D-1	Optical Study Of GaAs:Ge, GaAs:Ge+As, and GaAs:Ge+Ga	Lt T.G. Alley Sponsor: AFWAL/AA
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GOR/ENS/87D-16    Maintenance Of Probabilistic       Capt T.F. Reid
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GOR/ENS/87D-17    Using Second-Order Polynomials     Capt J.J. Revetta, Jr.
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GOR/ENS/87D-20    A Comparison Of The Performance    Capt M.B. Stark
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GOR/MA/83D-8      A New Goodness Of Fit Test For     Capt W.C. Argabright
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GSE/AA/87D-1      A Study Of The Impact Of Manu-     Capt B.A. Busler
                  facturability And Supportability   Capt M.H. Goodman
                  On The Design Of A Turbine Disk    Maj W.J. Magee
                                                     Capt E.P. Smith
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GSE/AA/87D-2	Prone Escape System (Press) Design Study	Lt A.D. Disselkoen, Jr Lt R.F. Gargiulo Lt J.E. Haywood Capt K.H. Heise Capt D.H. Holcomb Capt G.R. Miller Capt J.S. Nicholson Capt J.J. Olinger Sponsor: AAMRL/BBP
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ENS/AA/87D-4   AN Evaluation Of The Methods For   Capt T. Selinka
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GSO/ENS/87D-11 A Methodology For Making The   Capt D. Thibodeaux
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                sion Aid Capability Matrix   Sponsor: HQ TAC

GSO/ENS/87D-15 A Model For The Analysis Of   Capt J.E. Williams
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GSO/AA/87D-5   A System Analysis Of Fire   Maj J.G. Sheridan
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GSO/MA/87D-8   A New Goodness Of Fit Test For   Capt W.C. Argabright
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GST/ENS/87M-1   A Methodology For Automation Of   Capt W.G. Adams
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GST/ENG/87M-1	Validating The Trajectory Analysis Program Error Analysis Function	Capt D.E. Goss Sponsor: FTD
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GST/ENC/87M	The Effect Of Home Station Training Environment Factors On Performance At The National Training Center	Capt T.A. Hayden Sponsor: USA
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GSO/ENS/86D-15	An Analysis Of The Space Sectors Surge Capacity: An Input Output Approach	Capt W. Murphy Sponsor: Space Com
GST/ENS/87M-14	Adaptive Design In Building A Decision Support System For AWACS Programmed Flying Training	Maj W.L. Schneider Sponsor: 28AD/AWACS
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GST/ENS/87M-6	Design Evolution Of A Fighter Training Scheduling Decision Support System	Capt J.W. Grechanik Capt P.E. Trapp 479 TTW Holloman AFB
GST/ENS/87M-17	A High Resolution Close Air Support Simulation Model For The Joint Services	Capt J.O. Yanaros, Jr. Sponsor: NPGS

GST/ENS/87M-18	An Improved Aggregate Model For Use With The Advanced Penetration Model	Capt T.G. Young Sponsor: AFCSA/SASB
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GST/ENS/87M-9	Design Of An Aircrew Scheduling Decision Aid For The 6916th Electronic Security Squadron	Capt T.J. Kopf Sponsor: 6916 ES Sqad
GST/ENS/87M-9	Application Of Artificial Intelligence In A Conflict Analysis Decision Aid	Maj R.J. Lutz Sponsor: HQ USAF
GST/ENS/87M-12	Application Of Concept Mapping To Determine The Kernel(s) Of A Decision Support System	Capt M.R. McFarren Sponsor: HQ USAF
GST/ENS/87M-11	Design Of A Decision Support System For The Dynamic Retasking Of Air Interdiction Assets	Maj J.A. Schoeck Sponsor: HQ TAC
GOR/ENS/86D-17	Automating Response Surface Methodology For The Arsenal Exchange Model	Capt G.E. Yielding Sponsor: AFIT

1987 CIVILIAN INSTITUTION THESES

87-1   Selection of Packet Switched Facilities   B. K. Livie
        for the Search and Rescue Communications   G. M. Hallowell
        Network Based on Performance   University of
                                                       Colorado

82-2   Correlation Between Systolic Blood Pressure   P. V. McCaffrey
        Measured by Different Methods   Virginia Common-
                                                       wealth University

87-3   Analysis of Upper Atmosphic Parameters   R. S. Turek
        Derived from the Observation of Meteor Echoes Utah State Univ
        by 2.66 MHz Radar

87-4   Dendroclimatic Analysis of Fluctuations in   W. J. Delehunt
        the Great Salt Lake   Utah State Univ

87-5   Thunderstorm Influence on Boundary Layer   J. M. Schmidt
        Winds   Texas A&M Univ

87-6   Effects of Togarithmically Rescalling Display W. A. Olson
        Gain on a Fitt' Law Task   Univ of Illinois

87-7   Qualification of Contractors-A- Literature   M. D. Wright
        Review   Univ of Kansas

87-8   Design of an Implemenntation of Temporal   D. A. Ebert
        Reasoning by Computer Systems   Penn State Univ

87-9   Normal Wave Propagtion Velocity In A Static   G. D. Francis
        WEB.   Okalhoma State
                                                       University

87-10   Consideration In Design of CCS Networks for   N. H. Lorrthain
        for CCITT Signaling System #7.   G. V. Larney
                                                       Univ of Colorada

87-11   Satellite and Developing Countries & Purpose   L. A. Cassel
        Problems and Progress   Univ of Colorada

87-12   An Enantioselective Synthesis of Beta-   J. A. Fryling
        Eudesmol   Univ of Arizona

87-14   Flexible Object Inheritance   W. J. Young
                                                       Brwon University

87-15   Transient Limits on Fast Flux Test Facility   C. R. Sovinec
        for Liquid Metal Fast Breeded Reactors   Univ of
                                                       Washington

87-16   Wave Propagation in Periodic Truss Structures J. Signorelli
                                                       MIT

87-17 Fundamentals of Timing and Synchronization   R. N. Torentsh
      for Digital Communication Network   R. T. Lamoney
                                                     Univ of Colorado

87-18 Pick-up Ion Trajectories in a Comet Model   C. D. Kimmel
                                                     Univ of Calif.

87-19 Present and Future Military Uses of Outer   D. E. Walsh
      Space   McGill Univ

87-28 Mesco-Scale kinetic energy Budgets of A   J. A. Coover, Jr
      Thunderstorm From Dual-Doppler Data   St Louis Univ

87-29 Observation of Momentum Flunces In A Rotating W. G. Norrie
      Differentially Heated Annulus With Bottom   Florida State
      Topography   University

87-32 Project bidding Under Chance Time Estimates   R. S. Vogtmann
                                                     North Carolina
                                                     State University

87-33 Reliability of Lumbar Lordosis Measurements   F. W. Lovell
      Using A flexible-Rule   Virginia Univ

87-34 Structural Change in the Soviet Economy   M. C. Hatfield
      1959-1977   Univ of Illinois

87-35 Medical Case Management - Is Is Cost   D. J. Sevartzbaugh
      Effective For the Employer?   Univ of Minnesota

87-36 Modeling Cloudy and Clear Interval Length   G. F. Howard, III
      Using Space Shuttle Imagery   Coloardo St Univ

87-37 Physical and Psychological Impact of Terrorism G. T. Kostick
      on Americans Residing in Europe   Calif State Univ

87-38 Reporting of Terrorism by the Media   S. E. Hodgkins
                                                     Calif State Univ

87-39 Effects of Fabrication Techniques and Storage D. M. Bohnenkamp
      on Stability of Acrylic Resin Orthoses   Univ of Texas

87-40 Torsional Elastic Property Measurements of   B. E. larson
      Selected Orthodontic Archivies   Univ of North
                                                     Carolina

87-41 Stability following Osteotomies Treated   J. H. Law
      with Rigid Internal Fixation   Washington Univ

87-42 A-Scan Ultrasound Measurement of Ocular   D. L. Smith
      Changes During Accomodation   Pacific Univ

87-43 voice Technology Using Personal Computers   G. L. Talbot

87--45 Observations of a Midlatitude Squall Line   P. Hamilton
       Boundary Layer Wake   Colorado St Univ

87-46 Review of Atmosphic Ozone and the Antartic   R. A. Fix
       Ozone Hole.   Univ of Calif

87-47 Particle-Gas Temperature Differtials In the   P.J. Bellaire, Jr.
       Tenuous Dust-laden Atmosphere of Mars   St Louis Univ

87-48 Observation of Gravity Waves During The   D. M. Wojtak
       Gensis of Atlantic Lows Experiment   N. Carolina St
                                                         Univ

87-49   Evaluation of Pullout Resistance Between   M. S. Buncher
       Tensor Geogrids and Concrete Sand   Univ of New Mexico

87-50 Design of surface Acoustic Wave Devices FR   J. C. Walker
       FM Pulse Compression   Univ of Central
                                                         Florida

87-51 Reliability Modelling for A Fault-Tolerant   E. J. Gjermundsen
       Parallel Processor

87-52 Semi-Analytical Satellite Theory for Long   M. E. Fregh
       Arcs for Highly Eccentric Orbits   MIT

87-53 Study of Generalized Linear Inverse Theory   D. T. Fralick
       Applied to Borehale Geotomograply   Ohio Univ

87-54 Turnover Among Air Force Nurses   J. C. Nichols
                                                         Univ of Utah

87-55 Logic Calc: Design Tool for Digital Systems   G. D. Rosenberger
                                                         Univ of Texas

87-56 Dynamic controls of Hydraulic Press by   F. Effrece, Jr.
       Controlling the Pump Motor   Ohio Univ

87-57 Emergence of Electronic Monitoring and Its   D. K. Pelaez
       Utilization Within the Criminal Justice System   Calif. St. Univ

87-58 Band-Limited White Noise Excitation on   D. L. Jasinski
       Liquefaction Potential In Large Scale Tests.   Ohio State Univ

87-59 Fiber-Optics Accelerometer Investigation   W. Zukauskas
                                                         MIT

87-60 Environmental and Convective Influence on   P. A. Tunney
       Tropical Cyclone Development   Colorado St Univ

87-61 Appointment Process at USAF Medical Ctr.,   G. G. Anderson
       Wright-Patterson AFB, OH   Xavier Univ

87-62 Occupational Exposure of Veterinarians to
Waste Anesthetic Cases

D. L. Potts
Univ of Utah

87-63 Determination of Radar Derived Total Rainfall

V. P. Halbrook
Univ of Utah

87-64 Altered and Enhanced Iodarqurite with Bismuth
Thuodide For Use In Precipitation Enhancement
Operations

P. T. Scott
Colorado St Univ

87-65 Metal Design Effects on Marginal Character-
istic of Collarless Metal-Ceramic Restoration

D. M. Belles
Univ of Texas

87-66 Pre-convective Environmental Conditions
Indicative of Non-Tornadic thunderstroms
Winds Over Southeast Florida

J. M. Wilhelm

87-67 Radiant power Degradation of Silicon Doped
GaAs Infrared Light-Emitting Diodes

W. N. Resimont
Univ of Arkansas

87-68 Airline Safety: A Comparative Analysis

M. K. Higgins
MIT

87-69 Continous Oxidizer Regression Model

J. J. Cor
Univ of Illinois

87-70 Communications for the Dtroll Distributed
Database System

M. F. Jervis, Jr.
Univ of Illinois

87-71 Measuring the Annoyance of Aircraft Noise

R. K. Marcks
Univ of Kansas

87-72 Singleton Relative Chebyshev Center In
Best Simultaneous Appresimation

T. B. Killam
Univ of Texas

87-73 Development of a Graphic Based Two-Attribute
Utility Assessment Program for Mission
Planning

E. H. Wanner
RPI

87-74 Case Study of Mesoscale Convection Over Lake
Michigan on 10 Jan 1984

S. R. Gilbert
Prudue Univ

87-75 Decision through Optimism: the North
Peruvian Pipeline

A. G. Zaldivan
Univ of Texas

87-76 Optimization of Plexsys Network Messaging
System (EMAIL)

G. D. McAlum
Univ of Arizona

87-77 Legality of Nuclear Weapons Employment Under
International Law of Coercion Control

R. A. B. Price
George Washington
Univ

87-78 Steady Waves in a Nonlinear Theory of
Viscoelasticity

G. T. Warhola
George Wash. Univ

87-79	Process Design Model for a Single-Zone Tunnel Dryer	B. A. Flake Univ of Texas
87-80	Comparative Analysis of Security Entry Control Programs.	N. S. Brunce Calif St Univ
87-81	Mesenchymal Tissue Response to Heterotypically Placed Demineralized Bone Power Particle In the Rat.	F. M. T. Fegley Univ of Texas
87-82	Experimental Set-up and Mathemical Modeling of H-shaped Beam type Structure	A. K. Farrell North Carolina St Univ
87-83	Stress Effects and the Optimum Format of a Scrolling Seven-Line VDT Text Window	S. G. Atkins Arizona St Univ
87-84	Parabolized Navier-Strokes Equations Without Sablayer Assumptions.	S. C. Pluntzs MIT
87-85	Fibronectin binding Capacity of Demineralized Bone and Dentin.	B. S. Pearson Univ of Texas
87-86	Relationship of the Basic Attributes Test to Tactical Reconnaissance Pilot Performance	T. G. Kinney St Mary's Univ
87-87	Effect of Sanquinarine Mouthrinse After Peridontal Surgery	P. W. Kroger Univ of Kentucky
87-88	Target Size and Luminance Effects on Accommodation and Convergence	L. N. McLin, Jr Univ of Calif
87-89	Training Management and Scheduling System for USAF Tactical Fighter Squadrons	M. T. Matthews Princeton Univ
87-90	Amodization of Aluminum Oxide and Its Use in Thin Film Multilayered Capacity	J. R. Dickery Amburn Univ
87-91	Head Nurse Leadership Style and Staff Nurse Job Satisfaction.	N. L. Lewis Wayne State Univ
87-92	Quantitative Respirator fit Testing Through Dynamic Pressure Measurements	D. R. Carpenter Univ of Cincinnati
87-93	Dtermination of Cloud Height and Emissivity From Downwelling Angular Radiance	J.L. Sorlin-Davis Colorado St Univ
87-94	Rob Conflict and Role Strain in USAF Chaf Nurse Administrators	D.M.B. Fullenkamp Northwestern St Univ
87-95	Effect of Latitude on Development of Tropical Cyclone	J. D. Pickle North Carolina State Univ

87-113 Solar tides in Upper Equatorial Thermosphere   M. F. Storz
Univ of Michgan

87-114 Rada Echo signatures Versus Relative
Preciptation   T. A. Huber
Texas A&M Univ

87-115 Interactive Procedure for Improvement of
Objective Analyis   T. M. Hamil
Penn State Univ

87-116 Notoriety for Profit Legislation   D. A. Hazelip
Calif State Univ

87-118 Classification Problem of Finite Rings by
Computable Means   W. A. Kiele
North Carolina ST
Univ

87-119 Thunderstroms with Snow   H. A. Elkins
St Louis Univ

87-120 Cuba: An Historical Appraisal   R. L. Bartusch
Univ of Texas

87-121 Drug Abuse and Criminal Violence In Urban
Communities   E. J. Mitchell
Calif St Univ

87-122 Historical Perspective on Active Citzens
Law Enforcement Groups   S. Asher
Calif St Univ

87-123 Middle Atmospheric Wind Measurements Using
Medium Frequency Radar   B. B. Coble
Utah State Univ

VIII. DOCTORAL TITLES

CALENDAR YEAR 1987 – SUMMARY

SPONSORS		DEPARTMENTS*	
AFWL	3	ENP	5
AFOSR	1	ENY	1
AFAPL	1	ENG	1
DNA	1		
SDIO	1	TOTAL	7
TOTAL	7		

DOCTORAL DISSERTATION TITLES

DS/ENP/87-1   Amplified Spontaneous   Capt J. W. Glessner
                 Emission of the Iodine   Sponsor: AFWL
                 B3 Pi X Sigma System

DS/ENP/87-2   Semiclassical Theory of   Lt S. M. Rinaldi
                 Injected Lasers With   Sponsor: AFWL
                 Arbitrary Stable and
                 Unstable Resonators

DS/ENP/87-3   Implications of Atmo-   Mr. G. H. Baker
                 spheric Test Fallout   Sponsor: DNA
                 Data for Nuclear Winter

DS/ENY/87-1   Simulated Heat Pipe   Capt W. J. Bowman
                 Vapor Dynamics   Sponsor: AFAPL

DS/ENG/87-1   A Methodology Based on   Capt T. G. Kearns
                 Analytical Modeling for   Sponsor: SDID
                 the Design of Parallel and
                 Distributed Architectures
                 for Relational Database
                 Query Processors

DS/ENP/87-4   Application of Laser-   Capt G. R. Schneider
                 Induced Fluorescence In   Sponsor: AFWL
                 An Atmospheric-Pressure
                 Boron-Seeded Flame

DS/ENP/87-5   Theory of Laser Cooling   Capt A. L. Wells
                 and Spectroscopy of Har-   Sponsor: AFOSR
                 monically Trapped Single
                 Atoms

1987 CIVILIAN INSTITUTIONS DISSERTATIONS

87-20D	Model Execution in a Goal-Oriented Discrete Event Simulation	D.A. Umphress Texas A&M Univ.
87-21D	Experimental Studies on Dynamic Development and Control of Unsteady Separated Flows	H.E. Helin Univ. of Colo.
87-22D	Matrix Computations by Monte Carlo Optimization	J.J. Murphy University of Maryland
87-23D	Effect of Word-Unit Spacing Upon Reading Strategies of Native and Non-Native Chinese	M.E. Everson Ohio State Univ
87-24D	Intelligent Computer Aided Instruction In Statistics	R.C. Richardson Colorodo Univ.
87-25D	Effect of Altered Levels of Carbon Dioxide on Incidence of Altitude Decompression Sickness	R.C. Hill Colorodo Univ.
87-26D	Multispectral Analysis of Tropical Radiance Set from IROS Operational Ventical Sounder	L.L. Anderson, Jr Texas Univ.
87-27D	Modeling Reliability Improvement During Design	D.G. Robinson Univ of Arizona
87-30D	Development of Artificial Intelligence System for Inventory Management Using Multiple Experts	M.K. Allen Ohio State
87-31D	The Soviet General Staff	K.M. Currie George Washington Univ.
87-117D	Achievement and Retention of Spanish Presental Vin Video Disk	M. Verano

IX. THESIS RESEARCH ASSESSMENT QUESTIONNAIRE SUMMARY

CALENDAR YEAR 1987

1. INTRODUCTION:

The AFIT Research Assessment Form shown on page 191 was sent to the sponsors of master's thesis projects in the School of Systems and Logistics and the School of Engineering. Thirty-one percent were returned by the School of Engineering sponsors and over thirty-four percent were returned by the sponsors of the School of Systems and Logistics. In addition, thesis work performed by students at civilian institutions was judged by units of the Air Force who might have an interest in the thesis topic and they were asked to evaluate the research work using the same research assessment form.

2. SUMMARY OF RESULTS

A. SCHOOL OF SYSTEMS AND LOGISTICS

(1)   62 percent of those survey forms returned said this thesis research contributed to a current Air Force project.

(2)   75 percent said they would have done this research either in-house or on contract if AFIT had not done the research.

(3)   32 percent said the thesis work was highly significant
42 percent said the work was significant
26 percent said the work was slightly significant

(4)   The average thesis, was estimated to be worth 0.82 manyears of effort and would cost $63,593 per thesis. 153 theses were completed so this represents a net worth of $9,729,729. Recall 75 percent of this work would have been done if AFIT students had not carried out the research. Thus this represents a cost avoidance of 0.75 X $9,729,729 or $7,297,297 saving to Air Force research and development activities.

(5)   The sponsors returning the survey were ranked as follows:

4 percent	General or SES
20 percent	Colonel or GM-15
29 percent	Lieutenant Colonel or GM-14
23 percent	Major or GM-13
16 percent	Captain or GM-12
8 percent	MSgt or GS-09
100 percent	

B. CIVILIAN INSTITUTIONS

The reviewers of thesis research done by students at civilian institutions were not always the original sponsors. Nevertheless, 30 percent of the reviewers said they would have done the research if the student had not. Unfortunately, only a very few of the reviewers estimated the cost avoidance. To be more accurate we use a figure which represents the average estimate of civilian institution reviewers over the last five years of, 0.82 manyears of effort and an estimated cost of $36,179 per thesis. There were 123 master's theses completed giving a net worth of $4,450,007. Recall 30 percent of this work would have been done if AFIT students had not carried out the research. Thus this represents a cost avoidance of $1,335,005.

C. SCHOOL OF ENGINEERING

(1) 85 percent of those survey forms returned said this thesis research contributed to a current Air Force project.

(2) 74 percent said they would have done this research either in-house or on contract if AFIT had not researched it.

(3) 32 percent said the thesis work was highly significant
44 percent said the work was significant
17 percent said the work was slightly significant
2 percent said the work was of no significance.

(4) The average thesis was estimated to be worth 0.75 manyears of effort and would cost $70,833 per thesis. 268 theses were completed and this represents a net worth of $18,983,244. Recall 74 percent of this work would have been done if AFIT students had not done the research. Thus this represents a cost avoidance of $14,047,600 to Air Force research and development.

(5) The sponsors returning the survey were ranked as follows:

24 percent	Colonel or GM-15
27 percent	Lieutenant Colonel or GM-14
35 percent	Major or GM-13
10 percent	Captain or GS-12
4 percent	Lieutenant or GS-11

3. ESTIMATION OF TOTAL INSTITUTE COST AVOIDANCE

School of Systems and Logistics	$ 7,297,297
Civilian Institutions	1,335,005
School of Engineering	14,047,600
	$22,679,902

This thesis research accomplished by 544 theses during calendar year 1987 is estimated by the sponsors to represent a cost avoidance contribution of $22,679,902 to Air Force Research and Development activities.

AFIT RESEARCH ASSESSMENT

The purpose of this questionnaire is to ascertain the value and or contribution of research accomplished by students or faculty of the Air Force Institute of Technology (AU). It would be greatly appreciated if you would complete the following questionnaire and return it to:

AFIT/NR
Wright-Patterson AFB OH 45433-6583

Research Title: _____

_____

Author: _____

Research Assessment Questions:

1. Did this research contribute to a current Air Force project?

   a. Yes   b. No

2. Do you believe this research topic is significant enough that it would have been researched (or contracted) by your organization or another agency if AFIT had not?

   a. Yes   b. No

3. The benefits of AFIT research can often be expressed by the equivalent value that your agency achieved/received by virtue of AFIT performing the research. Can you estimate what this research would have cost if it had been accomplished under contract or if it had been done in-house in terms of manpower and/or dollars?

   a. Manyears _____   b. $_____

4. Often it is not possible to attach equivalent dollar values to research, although the results of the research may, in fact, be important. Whether or not you were able to establish an equivalent value for this research (3 above), what is your estimate of its significance?

   a. Highly   b. Significant   c. Slightly   d. Of no
      Significant   Significant   Significance

5. AFIT welcomes any further comments you may have on the above questions, or any additional details concerning the current application, future potential, or other value of this research. Please use the back of this questionnaire for your statement(s).

_____
NAME   GRADE   POSITION

_____
ORGANIZATION   **LOCATION**

X. SUMMARY BY DEPARTMENT — CALENDAR YEAR 1987

DEPARTMENT	NO. OF FACULTY	PUBLICATIONS	PRESENTATIONS	RESEARCH PROJECTS	CONSULTING PROJECTS	MASTER'S THESES	DOCTORAL DISSERTATIONS
ENC	17	43	33	53	24	16	–
ENG	41	67	77	125	119	116	1
ENP	17	13	28	22	77	31	5
ENS	14	8	17	22	26	58	–
ENY	25	57	55	104	38	47	1
TOTAL EN	**114**	**188***	**210***	**326**	**284**	**268**	**7**
LSL	6						
LSM	23	10	27	25	46	56	–
LSP	16	7	38	12	167	3	–
LSQ	19	9	14	26	89	14	–
LSR	14	19	21	29	26	27	–
LSY	25	8	15	25	89	27	–
TOTAL LS	**103**	**53**	**115**	**117**	**417****	**137****	**0**
DEE	13	–	–	–	–	–	–
DEM	15	6	–	9	97	12	–
DET	15	9	14	13	111	–	–
TOTAL DE	**43**	**15**	**14**	**31****	**209****	**13****	**0**
AFIT TOTAL	**260**	**256**	**339**	**474**	**910**	**421****	**7**

*   Some are joint among two or more departments
**   Includes some from deans' office
***   Includes some from outside schools (AFWAL, XP,...)

(Department symbols and locations listed on pages 5 and 6)

XI. PRINCIPAL SPONSORS SUMMARY — CALENDAR YEAR 1987

LABORATORY OR ORGANIZATION	CONSULTING PROJECTS	MASTER'S THESES	DOCTORAL DISSERTATIONS
ASD	98	42	
HQ AFLC	51	18	
USA	47	14	
AFAL	33	26	
HQ USAF	28	27	
AFFDL	15	32	
AFWL	25	12	3
DOD/SDIO	28	8	1
AFESC	23	11	
SPACECOM	17	17	
USN	30	1	
RADC	8	21	
FTD	21	4	
AFML	9	13	
HQ SAC	13	7	
HQ AFWAL	16	4	
HQ MAC	14	5	
AFAPL	5	14	1
AAMRL	9	9	
AU	6	10	
HQ TAC	4	11	
HQ AFSC	6	5	
AFOSR	4	7	1
SD	6	4	
AFTAC	9		
AFCC	8	1	
DLA	4	4	
USAFE	6	1	
AD	5	2	
AFMPC	3	4	
AFALC	5	2	
ESD	4	2	
DNA	4	2	1
AFCOLR	6		
AFAA	5		