2. SPECIAL RECOGNITIONS

2.1. FACULTY FELLOWS

Badiru, Adedeji B., Professor and Head Department of Systems and Engineering Management, Fellow of the Institute of Industrial Engineers, Fellow of the Nigerian Academy of Engineering.

Bridgman, Charles J., Professor Emeritus of Nuclear Engineering, Department of Engineering Physics, Fellow of the American Nuclear Society.


Elrod, William E., Professor Emeritus of Aerospace Engineering, Department of Aeronautics and Astronautics, Fellow of American Society of Mechanical Engineers International.

Franke, Milton E., Professor Emeritus of Aerospace Engineering, Department of Aeronautics and Astronautics, Fellow of the American Society of Mechanical Engineers.

Goltz, Mark N., Professor of Engineering and Environmental Management, Department of Systems Engineering and Management, Fellow of the Society of American Military Engineers.

Hengehold, Robert L., Professor of Physics, Department of Engineering Physics, Fellow of the American Physical Society.

Houpis, Constantine H., Professor Emeritus of Electrical Engineering, Department of Electrical and Computer Engineering, Fellow of the Institute of Electrical and Electronic Engineers.

Mall, Shankar, Professor of Aerospace Engineering, Department of Aeronautics and Astronautics, Fellow of the American Society of Mechanical Engineers International.

Maybeck, Peter S., Professor Emeritus of Electrical Engineering, Department of Electrical and Computer Engineering, Fellow of the Institute of Electrical and Electronic Engineers.

Pachter, Meir, Professor of Electrical Engineering, Department of Electrical and Computer Engineering, Fellow of the Institute of Electrical and Electronic Engineers.

Palazotto, Anthony N., Professor of Aerospace Engineering, Department of Aeronautics and Astronautics, Fellow of American Institute of Aeronautics and Astronautics, Fellow of the American Academy of Mechanics and the American Society of Civil Engineers.

Perram, Glen P., Professor of Physics, Department of Engineering Physics, Fellow of the Directed Energy Professional Society.

Pignatiello, Joseph J., Professor of Systems Engineering, Department of Systems Engineering and Management, Fellow of the American Society for Quality.

Ruggles-Wrenn, Marina B., Professor of Aerospace Engineering, Department of Aeronautics and Astronautics, Fellow of the American Society of Mechanical Engineers International.

Soni, Som R., Associate Professor of Systems Engineering, Department of Systems and Engineering Management, Fellow of the American Society for Composites, Associate Fellow of AIAA.

Terzuoli, Andrew J., Associate Professor of Electrical Engineering, Department of Electrical and Computer Engineering, Fellow of the Electromagnetics Academy.
Thomas, Marlin U., Dean, Graduate School of Engineering and Management, Air Force Institute of Technology, Fellow of the Institute of Industrial Engineers, Fellow of the American Society of Quality, Fellow of the Institute for Operations Research and Management Sciences.

2.3. RESEARCH AND TEACHING AWARDS

2.3.1. FACULTY

BADIRU, ADEDEJI B.

2010 ASEE John L. Imhoff Global Excellence Award for Industrial Engineering Education.


Baldwin, Rusty O.

Inducted into the Tau Beta Pi as Eminent Engineer.

Bauer, Kenneth W.

Department of Operational Sciences Faculty of the Quarter, Fall 2009 (student nominated award).

Borghetti, Brett J., Lt Col

Air Education and Training Command Outstanding Senior Military Scientist Award.

Air Force Institute of Technology Field Grade Officer of the Quarter, July-September 2010.

Chambal, Stephen P., Lt Col

2009 Colonel Charles A. Stone Award, awarded by the AFIT Board of Visitors, given in recognition of an individual who accomplished specific achievements that furthered the AFIT mission. Emphasis is on new, innovative efforts or approaches involving demonstrated personal leadership, May 2010.

ChriSSIS, James W.


Cochran, Jeffery K.

Meritorious Civilian Service Award, Department of the Air Force, May 2010, received in recognition of his exemplary leadership and professional excellence as Department Head, Department of Operational Sciences, Graduate School of Engineering and Management from 2 July 2007 to 30 December 2009.
COUTU, RONALD, A., Jr.

Air Education and Training Command Engineer of the Year, Senior Civilian Category, 2010.

Air Education and Training Command nominee for Air Force Engineer of the Year, Senior Civilian Category, 2010.


CUNNINGHAM, WILLIAM A.

Best Paper, Bell, John, Stanley Griffis, William Cunningham, “Location Analysis: A Strategic Network for Homeland Defense,” was chosen as the Best Paper at the Western Decision Sciences Institute annual meeting 6-9 Apr 10 at Lake Tahoe, NV. Their research was chosen from a total of 118 papers at the conference.

DECKRO, RICHARD F.

2009 Air Force Analyst Lifetime Achievement Award, Nov 2009. The Air Force Analyst Lifetime Achievement Award recognizes those scientific and research analysts or government contractors whose career accomplishments and achievements have had a significant effect on the Air Force Analytic Community.


DILLARD, KAREN E. M., Lt Col


FICKUS, MATTHEW C.

2009 Gage H. Crocker Outstanding Professor Award, May 2010.

GROSS, KEVIN C.

2010 USAF Science & Engineering Team Award for Exploratory or Advanced Technology Development.

2009 AFIT Graduate School Science and Technology Award, Mid-Career Civilian Scientist.

HARMON, FREDERICK G., Lt Col

Professor Ezra Kotcher Award, 2009.

HALL, SHANE N., Maj


Department of Operational Sciences Faculty of the Quarter, Summer 2009 (student nominated award).
HAWKS, MICHAEL R., Lt Col
2010 USAF Science & Engineering Team Award for Exploratory or Advanced Technology Development.

HENGEHOLD, ROBERT L.
Thomas More College Alumni Award for Professional Achievement, October 2009.

HILL, RAYMOND R.

HOPKINSON, KENNETH M.
Air Force Institute of Technology Junior Civilian Scientist of the Year, 2010.
Air Force Institute of Technology Graduate School Junior Civilian Scientist of the Year, 2010.

HUMPHRIES, JEFFREY W., Lt Col
2010 Excellence in Teaching Award, Southwestern Ohio Council for Higher Education.
2009 Outstanding Military Faculty of the Year, Department of Electrical and Computer Engineering.
2009 Field Grade Officer of the Quarter, Department of Electrical and Computer Engineering, October-December 2009.

KIM, YONG C.
2009 Air Force Institute Civilian of the Quarter, Category III, 4th Quarter Winner, October-December 2009.

MARTIN, RICHARD K.

McCLORY, JOHN W., LTC
AFIT Outstanding Military Professor Award sponsored by the Military Officers Association of America for the period of January – December 2009.
Defense Threat Reduction Agency (DTRA) Director’s Annual Large Team Award, 2009.
MENDENHALL, MICHAEL J., Maj

Air Force Institute of Technology Student Association Dr. Leslie M. Norton Teaching Excellence Award, March 2010.


MILLER, JOHN O.

Department of Operational Sciences Faculty of the Quarter, Winter 2010 (student nominated award).

MOORE, JAMES T.


MULLINS, BARRY E.

Air Force Science and Engineering Educator of the Year, August 2010.


Air Force Institute of Technology Polk Award, B. D. Thomas, June 2010.

Air Force Institute of Technology Department of Electrical and Computer Engineering nominee for Air Force Educator of the Year.

OGDEN, JEFFREY A.


PERRAM, GLEN P.

2010 USAF Science & Engineering Team Award for Exploratory or Advanced Technology Development.
PETTERSON, GILBERT L.

Air Education and Training Command Outstanding Mid-Career Civilian Scientist.

Mentor of Team Little Bobby Tables Winner of the DC3 Digital Forensics Challenge.

PETTIT, TIMOTHY J., Lt Col


RACZ, LEEANN, Maj,

Recipient, American Water Resources Association Utah Section, Student Conference and Scholarship Competition, 2010.

RAQUET, JOHN F.

Fulbright Scholar at Tampere University of Technology, Tampere, Finland, January-June 2010.

RIES, HEIDI R.,


ROESENER, AUGUST G., Maj

Southwestern Ohio Council for Higher Education (SOCHE) Faculty Excellence in Teaching Award, 2010.

Department of Operational Sciences Faculty of the Quarter, Spring 2010 (student nominated award.)


SANDLIN, DORAL E., Lt Col

SOLE Dissertation Proposal Award winner 2009, awarded by the International Society of Logistics during President's Award Luncheon at the annual International Symposium in Dallas, Texas.

Instructor of the Year awarded by the Advance Study in Air Mobility Class of 2010, Ft. Dix, New Jersey, June 2010.

SCHMIDT, JASON D., Maj

2009 Harold Brown Award nominee.

2009 HKN nominee for C. Holmes MacDonald Outstanding Teaching Award.
SKIPPER, JOSEPH B., Lt Col

Outstanding Paper Award, Lt Col Joseph B Skipper's article entitled "Minimizing Supply Chain Disruption Risk through Enhanced Flexibility" published in the International Journal of Physical Distribution & Logistics Management was chosen as the Outstanding Paper Award Winner at the Emerald Publishing Literati Network Awards for Excellence 2010. It was selected as one of the most impressive research articles seen throughout 2009 by the journal's Editorial Team.

Best Paper, 2010 International Journal of Physical Distribution and Logistics Management ‘Best Paper’ Award. "Managing Supply Chain Disruptions" was chosen by the Editor(s) of International Journal of Physical Distribution & Logistics Management, and the rest of judging panel, as a Highly Commended Award winner of the 2009 Emerald/EFMD Outstanding Doctoral Research Awards in the Logistics and Supply Chain Management category.

SWENSON, ERIC D., Lt Col

Most Outstanding Military Instructor of the Year, Department of Aeronautics and Astronautics, March 2010.

THOMAS, MARLIN U.

Industrial and Operations Engineering Alumni Merit Award, University of Michigan, 2010.


TRIAS, ERIC D., Maj

Eta Kappa Nu Honor Society (Delta Xi Chapter), Outstanding Faculty of the Year, 2009.


VETH, MICHAEL J., Lt Col

Air Education and Training Command nominee for Air Force Outstanding Military Engineer, 2010 IEEE Senior Member.

WEIR, JEFFERY D.

Department of Operational Sciences Faculty of the Quarter, Summer 2010 (student nominated award).

2.3.2. RESEARCH ASSISTANTS, ASSOCIATES & POST-DOCTORALS

ALLEN, CHRISTOPHER C.


2.3.3. STUDENTS

ANDERSON, JOEL R.

Louis F. Polk Award, March 2010.
BOSTON, JON


BROOKS, ADAM L.

Distinguished Graduate Winner, Association of Old Crows Electronic Defense Category; Department of Electrical and Computer Engineering Louis F. Polk Award Recipient for addressing research relevant to the National Defense Industrial Association, March 2010.

BUTLER, SAMUEL D.

Melvin E. Gross Award, March 2010.

CASEY, BRANDON A.

2010 Jerome G. Peppers, Jr. Outstanding Student Award, International Society of Logistics (SOLE), June 2010, awarded for his academic record and contributions to the field of logistics. Thesis Title: "Airlift Cargo Hub Port Hold Times: Controlling Variations in Defense Supply Chain Delivery."

CHESTERMAN, MICHAEL C.

2010 Dean’s Award, March 2010, for the most exceptional master’s theses by a graduating student in the Department of Aeronautics and Astronautics. Thesis: “Collateral Damage Effects of Directed Energy Weapons.”

Best of Thesis for Fluids, Department of Aeronautics and Astronautics, 2010.

American Institute of Aeronautics and Astronautics Dayton-Cincinnati Graduate Student Award for Research Excellence, 2010.

COHEN, ALLEN N.


DeGREGORIA, ANTHONY J.

Best of Thesis for Controls, Department of Aeronautics and Astronautics, 2010.

Air University First Place Blue Dart, 2010.

ESTEP, NICHOLAS

IEEE Dayton Section student award, “High Power Microwave (HPM) and Ionizing Radiation Effects on CMOS Devices,” April 2010.
FAIRCHILD, IAN M.

2010 Lt Edwin E. Aldrin, Sr, Award, March 2010, awarded in recognition of exceptional leadership as well as high quality academic accomplishments. Thesis title: "Securing Information Exchange Between the 618 TACC and its Civilian Airlift Partners."

GEYER, ANDREW J.


HAMILL, J. TODD


HERR, NICHOLAS C.

2010 Dean’s Award, March 2010, for the most exceptional master’s theses by a graduating student in the Department of Engineering Physics. Thesis: “AFM-Patterned 2-D Thin-Film Photonic Crystal Analyzed by Complete Angle Scatter.”

HORENZIAK, MICHAEL W.

2010 Dean’s Award, March 2010, for the most exceptional master’s theses by a graduating student in the Department of Systems and Engineering Management. Thesis: “Low Dose Sarin Leads to Murine Cardiac Dysfunction.”

JEONG, GREG S.

2010 Military Operations Research Society (MORS) Award, March 2010, awarded for the graduate research project judged to demonstrate the best application of operations research methodology or theory development to a military problem. Thesis title: "A Multi-Objective Approach To A Bipartite Assignment Matching Problem Using Weighted Values From Multiple Constraints."

KIMAZ, EVREN

2010 Jerome G. Peppers, Jr. Outstanding Student Award, International Society of Logistics (SOLE), March 2010, awarded for his academic record and contributions to the field of logistics. Thesis title: "Fuel Efficiency Assessment with DEA."

LeBLANC, KEITH

Institute of Navigation Student Research Award, 2010.

MACDONALD, DOUGLAS J.

Measurement and Signatures Intelligence (MASINT) Committee Award of Academic Excellence, March 2010.
MEIER, DAVID C.

Lt Edwin E. Aldrin, Sr., Award, March 2010.

MORRISON, PHILIP G.

2010 Military Operations Research Society (MORS) Award, June 2010, awarded for the graduate research project judged to demonstrate the best application of operations research methodology or theory development to a military problem. Thesis title: "Reballasting the KC-135 Fleet for Fuel Efficiency."

NANCE, ROBERT L.


OYAMA, KYLE


PELLIZZARI, CASEY J.

2010 Commandant’s Award, March 2010, for the most exceptional master’s theses by a graduating student. Thesis: “Phase Unwrapping in the Presence of Strong Turbulence.”

SCHULER, WESLEY, A.

Secretary James G. Roche Award, March 2010.

Advanced Technical Intelligence Association (ATIA) Outstanding Student Award, March 2010.

American Nuclear Society’s Thesis Award, March 2010.

Air Force Institute of Technology’s 2009 Non-Commissioned Officer of the Year.

STRYKER, AMIE


TOYDAS, MURAT

2010 Dean’s Award, March 2010, for most exceptional master’s thesis by a graduating student in the Department of Operational Sciences. Thesis: "Fuel Savings Opportunities from Air Refueling.”
3.4. OUTSIDE FUNDING FOR THE GRADUATE SCHOOL OF ENGINEERING AND MANAGEMENT

Many of the Graduate School of Engineering and Management’s theses and research projects completed under faculty supervision (sponsored or unsponsored) are funded in part by other Air Force, DOD and government units and agencies. Often, this funding results from collaboration between faculty and thesis sponsors and occurs when the research project can be leveraged by the purchase of equipment or services not otherwise available. Tables 3.4 and 3.5, and Figure 3.3, summarize outside funding for FY10, and Figure 3.2 summarizes the past ten fiscal years of outside sponsored funding.

| Table 3.4 FY10 External Funding & Research Expenditures for Academic Departments & Research Centers by Type ($1,000's) |
|--------------------------------------------------|--|--|--|--|
| Department                                      | Newly Awarded Research Projects | Newly Awarded Education Projects | Total FY10 Newly Awarded Projects |
| Mathematics & Statistics (ENC)                  | #  $k | #  $k | #  $k | $k |
| Electrical & Computer Eng (ENG)                 | 11  357 | -  - | 11  357 | 389 |
| Engineering Physics (ENP)                       | 85  4,807 | 3  475 | 88  5,282 | 10,323 |
| Research & Sponsored Programs (ENR)             | 59  5,782 | 7  603 | 66  6,385 | 5,518 |
| Operational Sciences (ENS)                      | 15  6 | 1  29 | 2  35 | 35 |
| Systems and Eng Management (ENV)                | 59  3,631 | 4  367 | 26  3,998 | 5,322 |
| Aeronautical & Astronautical Eng (ENY)          | 36  1,247 | 3  590 | 13  1,837 | 1,520 |
| TOTAL                                           | 244 17,788 | 18 2,064 | 262 19,852 | 27,464 |

| Center                                           | Newly Awarded Research Projects | Newly Awarded Education Projects | Total FY10 Newly Awarded Projects |
|--------------------------------------------------|--|--|--|--|
| Advanced Navigation Technology (ANT)              | #  $k | #  $k | #  $k | $k |
| Center for Cyberspace Research (CCR)             | 18  1,160 | 2  471 | 20  1,631 | 3,315 |
| Center for Directed Energy (CDE)                 | 27  1,847 | 3  83 | 30  1,930 | 2,427 |
| Center for MASINT Studies and Research (CMSR)    | 27  2,730 | 2  465 | 19  3,195 | 1,824 |
| Center for Operational Analysis (COA)            | 26  3,726 | 6  557 | 32  4,283 | 5,438 |
| Center for Systems Engineering (CSE)             | 2  620 | -  - | 2  620 | 437 |
| TOTAL                                           | 113 11,473 | 13 1,576 | 126 13,049 | 15,522 |

Notes: AFIT reports research expenditures annually via the ASEE and NSF surveys. The numbers may differ slightly due to differences in definitions. Institutional cost matching is included in research expenditures column. All Center funds are also included in departmental funding.

Figure 3.2: New Award History FY01-FY10
Table 3.5  New FY10 Awards to Academic Departments & Research Centers by Sponsor

<table>
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<tr>
<th>Dept.</th>
<th>AFRL</th>
<th>AFMC (non-AFRL)</th>
<th>Other USAF</th>
<th>NSA</th>
<th>Other DOD</th>
<th>NSF</th>
<th>Other Federal</th>
<th>Non-Federal</th>
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<td>-</td>
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<td>5,110</td>
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<td>302</td>
<td>150</td>
<td>423</td>
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<th>Research Center</th>
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</table>

Note: All Center funds are also included in departmental funding.