2. SPECIAL RECOGNITIONS

2.1. FACULTY FELLOWS

Badiru, Adedeji B., Professor and Head Department of Systems Engineering and 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.

Butts, Jonathan W., Maj, Fellow National Board of Information Security Examiners.


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.

Grimaila, Michael R., Associate Professor of Systems Engineering, Department of Systems Engineering and Management, Fellow of the Information System Security Association.

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

Palazotto, Anthony N., Distinguished 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 Operations Research, Department of Operational Sciences, Fellow of the American Society for Quality, Fellow of the Institute of Industrial Engineers.

Polanka, Marc D., Associate Professor of Aerospace Engineering, Department of Aeronautics and Astronautics, Fellow of the American Society of Mechanical Engineers International.
Raquet, John F., Associate Professor of Electrical Engineering, Department of Electrical and Computer Engineering, Fellow of the Institute of Navigation.

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

Terzuoli, Andrew J., Associate Professor of Electrical Engineering, Department of Electrical and Computer Engineering, Fellow of the Electromagnetics Academy (FEMA).

2.3. RESEARCH AND TEACHING AWARDS

2.3.1. FACULTY

ACEBAL, ARIEL O., Lt Col


AHNER, DARRYL K.

AFIT Team of the Quarter (along with AFIT/LS) for development and delivery of T & E short courses.

AKERS, BENJAMIN F.

ENC Instructor of the Quarter, 2013 Spring Quarter.

SOCHE Faculty Excellence in Teaching Award (Nov, 2012).

BAUER, KENNETH W., Jr.

Elevated to Senior Member of IEEE.

BUTTS, JONATHAN W., Maj


COLLINS, PETER J.

2013 Air Force Harold Brown Award for Research.

COUTU, RONALD A., Jr.

Sandia National Laboratory University Alliance 2013 MEMS Design Competition – Honorable Mention Award: Educational Design Category.

AETC nominee for USAF-level 2013 John L. McLucas Basic Research Award.

Eta Kappa Nu (HKN), 2012 Outstanding Teaching Award, ENG Faculty Instructor of the Year.

DEA, JOHN R., Lt Col

ENC Instructor of the Quarter, 2013 Winter Quarter.

DUBE, THOMAS E., Maj

AETC Air Force Research and Development Award, Apr 2013.

Air Force Research and Development Award, Sep 2013.
Fiorino, Steven T.


Fisher, Kenneth A., Lt Col

Best paper award at GNSS 2012.

CY12 Graduate School Annual Award Winner, Field Grade Officer (FGO).

Geffre, Jennifer L., Maj

Western Decision Science Institute Conference—Best Student Paper Award (#1/11), Mar 2013.


Gross, Kevin C.


Harper, Willie F., Jr.

2013 Department Faculty Scholar of the Year Award.

Fulbright Scholar Award.

Havrilla, Michael J.


Hyde IV, Milo W., Maj

Elevated to IEEE Senior Member.

Military Officers Association of America Outstanding Military Faculty Award.

Jackson, Julie A.

2012 EN Annual Award winner, Civilian Category 3.

ENG Nominee for Civilian Category 3 AFIT Quarterly Award (Third Quarter CY12).

1/28 international participants selected to attend the first-ever IEEE Women’s Workshop in Communications and Signal Processing, Banff Canada, 2012.

Inducted to Eta Kappa Nu (HKN), Electrical Engineering Honor Society, Feb 2013.

Johannes, Tay W., Lt Col

2013 Sigma Iota Epsilon Honor Society Local Chapter Instructor Award for Outstanding Contributions to the Understanding of Management Sciences.
LANGHALS, BRENT T., Lt Col
2013 Department Educator of the Year Award.

MCHALE, STEPHEN R., LTC
Dr. Leslie M. Norton Award, AFIT Student Association, AFIT Spring 2013 Graduation Ceremony.

MILLER, MICHAEL E.
2013 Department Outreach Service of the Year Award.

MILLS, ROBERT F.
ENG Civ Cat III, 1st Quarter 2013 Graduate School Award Winner.

OGDEN, JEFFREY A.
2013 Professor of the Year Award – AFIT/ASAM.

PERRAM, GLEN P.

2013 Air Force Winner, Science, Technology, Engineering, and Math Awards, Outstanding Engineer, Senior Civilian category.

PETE RSON, JESSE D., Capt
ENC Instructor of the Quarter, 2013 Summer Quarter.

POCHET, MICHAEL C., Maj
SOCHE Faculty Excellence in Teaching Award (2012).

POLANKA, MARC D.
SOCHE Faculty Excellence in Teaching Award (2012).

RACZ, LEEANN, Maj
2013 Department Researcher of the Year Award.

SOCHE Faculty Excellence in Teaching Award (2012).


RAQUET, JOHN F.
Institute of Navigation (ION) Distinguished Service Award, for “Visionary Leadership of the Satellite Division of the ION,” (2012).

Recognized by the Affiliate Societies Council of Dayton as an outstanding engineer and scientist as part of Engineers and Scientists Week (2012).

**REEDER, MARK F.**


**RITSCHEL, JONATHAN D., Lt Col**

2013 Department Teacher of the Year Award.

**RUGGLES-WRENN, MARINA B.**


**STRAKOS, JOSHUA K., Maj**

University of Houston Bauer College of Business, Dean’s Award for Academic Excellence, 2013.

**TERZUOLI, ANDREW J.**

Annual Citation from IEEE—local joint chapter chair.

**WIRTHLIN, JOSEPH R., Lt Col**

2013 Shingo Research Award for the “Guide to Lean Enablers for Managing Engineering Programs.”

**YAMAMOTO, DIRK P., Lt Col**

2013 Department Journal Publication of the Year.
2.3.2. STUDENTS

ACERSON, BRIAN M.
2013 Dean’s Award for the most exceptional master’s thesis by a graduating student in the Department of Electrical and Computer Engineering. Thesis title: “Simulation and Fabrication of Mathematically Designed Electromagnetic Structures.”

ADOMANIS, BRYAN M.
International Society for Optics and Photonics (SPIE) Thesis Award, AFIT Spring 2013 Graduation Ceremony.

BURNS, AARON J.
2013 Semi-finalist for the Innovative Applications in Analytics Award presented at INFORMS.

CLEAVER, TIMOTHY A.
2013 Dean’s Award for the most exceptional master’s thesis by a graduating student in the Department of Aeronautics and Astronautics. Thesis title: “Aerodynamic Characterization of an Air-to-Air Missile with Computational Fluid Dynamics.”

2013 Chancellor's Award for the most exceptional master’s thesis by a graduating student in the Department of Aeronautics and Astronautics. Thesis title: “Aerodynamic Characterization of an Air-to-Air Missile with Computational Fluid Dynamics.”

COOKE, DAVID J.
2013 Dean’s Award for the most exceptional master’s thesis by a graduating student in the Department of Mathematics and Statistics. Thesis title: “A Discrete X-Ray Transform for Chromotomographic Hyperspectral Imaging.”

CHUN, WOO-SUK

FORD, MICHAEL A.
American Nuclear Society Thesis Award, AFIT Spring 2013 Graduation Ceremony.

Ivan D. Thompson Award, AFIT Student Association, AFIT Spring 2013 Graduation Ceremony.

HAFICH, MICAH J.
2013 Dean’s Award for the most exceptional master’s thesis by a graduating student in the Department of Operational Sciences. Thesis title: “A Mixed Integer Programming Model for Improving Theater Distribution Force Flow Analysis.”

HARLEY, JACOB L.
Best Paper Award, co-author “Imaging Fourier-Transform Spectrometry for Plume Diagnostics and Code Validation,” 9th International Symposium on Special Topics in Chemical Propulsion, Quebec City, Canada, 13-16 May 2013.
JANECZKO, ALLEN K.


KEITH, STEPHANIE R.

Measurement and Signals Intelligence (MASINT) Committee Award, AFIT Spring 2013 Graduation Ceremony.

LYNES, DAVID D.

2013 Dean’s Award for the most exceptional master’s thesis by a graduating student in the Department of Engineering Physics. Thesis title: “An Analysis of Methods to Determine Nuclear Weapon Yield Using Digital Fireball Films.”

MCKENNA, REBEKAH S.

2013 Semi-finalist for the Innovative Applications in Analytics Award presented at INFORMS.

MORRILL, DANA F.


PARR, JEFFREY C.

2013 Outstanding Engineer/Scientist by the Wright Brothers Chapter of the SAFE Association.

RHOBY, MICHAEL R.

Best Paper Award, co-author “Imaging Fourier-Transform Spectrometry for Plume Diagnostics and Code Validation,” 9th International Symposium on Special Topics in Chemical Propulsion, Quebec City, Canada, 13-16 May 2013.

RUSSI, JASON

2013 Department Student Scholar of the Year Award for “3-D Display Project.”

2013 Dean’s Award for the most exceptional master’s thesis by a graduating student in the Department of Systems Engineering and Management. Thesis title: “Effects of Stereoscopic 3D Digital Radar Displays on Air Traffic Controller Performance.”

SANTANA, LAURIENNE

2013 Department Student Scholar of the Year Award for “3-D Display Project.”

SCHERRER, ELIZABETH M.

Lt Edwin E. Aldrin, Sr. Award, AFIT Spring 2013 Graduation Ceremony.

SCHULDT, STEVEN J.

SPLAWN, JOSHUA

2013 Southern Ohio Chapter of the Human Factors and Ergonomics Society Best Student Paper Award for “Prediction of Perceived Workload from Task Performance and Heart Rate Measures.”

THOMPSON, DAVID M.

International Society of Logistics (SOLE) Jerome G. Peppers, Jr., CLP Outstanding Student Award.

URIBE, DANIEL

2013 AFIT Systems Engineering Award.


WALTERS, EDWARD

2.3.3. STAFF

FREVERT, CARLOS J., MSgt

Outstanding Cyberspace Systems (3D1XX) SNCO: AETC FY13 Information Dominance Annual Awards.

2.3.4. TEAMS

ADVANCED NAVIGATION TECHNOLOGY CENTER

2013 Science, Technology, Engineering, and Mathematics (STEM) Award, AF Exploratory or Advanced Technology Development Award.

CENTER FOR CYBERSPACE RESEARCH

Outstanding Information Assurance Element: AETC FY13 Information Dominance Annual Awards.

2013 Science, Technology, Engineering, and Mathematics (STEM) Award, AF Outstanding Engineer, Team.

2013 Science, Technology, Engineering, and Mathematics (STEM) Award, AF Research Management.
3.3. EXTERNAL SPONSOR 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 3.3 and 3.4, and Figure 3.3, summarize external funding for FY13, and Figure 3.2 summarizes the past ten fiscal years of sponsored funding.

Table 3.3 FY13 External Funding & Research Expenditures for Academic Departments & Research Centers ($1,000’s)

<table>
<thead>
<tr>
<th>Department</th>
<th>Newly Awarded Research Projects</th>
<th>Newly Awarded Education Projects</th>
<th>Total FY13 Newly Awarded Projects</th>
<th>Total FY13 Research Expenditures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics &amp; Statistics (ENC)</td>
<td>8</td>
<td>362</td>
<td>8</td>
<td>475</td>
</tr>
<tr>
<td>Electrical &amp; Computer Eng (ENG)</td>
<td>57</td>
<td>4,463</td>
<td>4</td>
<td>6,096</td>
</tr>
<tr>
<td>Engineering Physics (ENP)</td>
<td>43</td>
<td>4,911</td>
<td>1</td>
<td>5,846</td>
</tr>
<tr>
<td>Research &amp; Sponsored Programs (ENR)</td>
<td>1</td>
<td>16</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>Operational Sciences (ENS)</td>
<td>13</td>
<td>2,713</td>
<td>1</td>
<td>4,782</td>
</tr>
<tr>
<td>Systems Eng &amp; Management (ENV)</td>
<td>15</td>
<td>567</td>
<td>15</td>
<td>1,435</td>
</tr>
<tr>
<td>Academic Affairs (ENW)</td>
<td>-</td>
<td>-</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Aeronautical &amp; Astronautical Eng (ENY)</td>
<td>52</td>
<td>2,370</td>
<td>52</td>
<td>5,801</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>189</strong></td>
<td><strong>15,402</strong></td>
<td><strong>198</strong></td>
<td><strong>25,435</strong></td>
</tr>
</tbody>
</table>

Center

Advanced Navigation Technology (ANT)       23  1,402  -  -  23  1,402  1,732
Center for Cyberspace Research (CCR)       8   1,371  4  829  12  2,200  1,640
Center for Directed Energy (CDE)           23  2,448  -  -  23  2,448  2,273
Center for Operational Analysis (COA)      13  2,713  1  90   14  2,803  5,741
Center for Space Research and Assurance (CSRA) 11  1,031  -  -  11  1,031  2,827
Center for Tech Intel Studies & Research (CTISR) 6   1,257  -  -  6   1,257  1,173
**TOTAL**                                   **84**                       **10,222**                      **89**                        **11,141**                      **15,386**

Notes: Total research expenditures reported include institutional cost sharing, which is not included in newly awarded projects. Numbers reported to the ASEE and NSF research expenditure surveys vary somewhat due to differences in definitions. All Center funds are also included in departmental funding.

Figure 3.2 New Award History FY04-FY13

![Figure 3.2 New Award History FY04-FY13](image_url)
Figure 3.3 New FY13 Awards by Sponsor

Table 3.4 New FY13 Awards to Academic Departments & Research Centers by Sponsor

<table>
<thead>
<tr>
<th>Dept.</th>
<th>AFRL $k</th>
<th>AFMC (Non-AFRL) $k</th>
<th>Other USAF $k</th>
<th>Other DOD $k</th>
<th>NSF $k</th>
<th>Other Federal $k</th>
<th>Non-Federal $k</th>
<th>Total $k</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC</td>
<td>249</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>83</td>
<td>30</td>
<td>-</td>
<td>362</td>
</tr>
<tr>
<td>ENG</td>
<td>2,190</td>
<td>-</td>
<td>303</td>
<td>1,521</td>
<td>769</td>
<td>200</td>
<td>60</td>
<td>5,319</td>
</tr>
<tr>
<td>ENP</td>
<td>1,676</td>
<td>-</td>
<td>-</td>
<td>2,700</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>4,939</td>
</tr>
<tr>
<td>ENR</td>
<td>16</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>16</td>
</tr>
<tr>
<td>ENS</td>
<td>550</td>
<td>264</td>
<td>980</td>
<td>1,009</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>2,803</td>
</tr>
<tr>
<td>ENV</td>
<td>72</td>
<td>-</td>
<td>152</td>
<td>220</td>
<td>-</td>
<td>123</td>
<td>-</td>
<td>567</td>
</tr>
<tr>
<td>ENW</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>5</td>
<td>-</td>
<td>-</td>
<td>5</td>
</tr>
<tr>
<td>ENY</td>
<td>1,127</td>
<td>-</td>
<td>197</td>
<td>989</td>
<td>-</td>
<td>87</td>
<td>-</td>
<td>2,400</td>
</tr>
<tr>
<td>TOTAL</td>
<td>5,880</td>
<td>264</td>
<td>2,028</td>
<td>6,439</td>
<td>857</td>
<td>623</td>
<td>320</td>
<td>16,411</td>
</tr>
</tbody>
</table>

Note: "Other DOD" in this table includes the DTRA, HELJTO, NGA, NSA, OSD, and TRICARE pie slices from Figure 3.3, plus funding from other DOD organizations.

Research Center

<table>
<thead>
<tr>
<th>Center</th>
<th>ANT</th>
<th>CCR</th>
<th>CDE</th>
<th>COA</th>
<th>CSRA</th>
<th>CTISR</th>
<th>TOTAL $k</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1,132</td>
<td>50</td>
<td>1,333</td>
<td>550</td>
<td>205</td>
<td>-</td>
<td>3,270</td>
</tr>
<tr>
<td></td>
<td>50</td>
<td>-</td>
<td>-</td>
<td>1,138</td>
<td>135</td>
<td>163</td>
<td>264</td>
</tr>
<tr>
<td></td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>952</td>
<td>-</td>
<td>-</td>
<td>1,328</td>
</tr>
<tr>
<td></td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>980</td>
<td>-</td>
<td>-</td>
<td>5,009</td>
</tr>
<tr>
<td></td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>1,009</td>
<td>-</td>
<td>-</td>
<td>742</td>
</tr>
<tr>
<td></td>
<td>-</td>
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<td>691</td>
<td>-</td>
<td>-</td>
<td>25</td>
<td>295</td>
</tr>
<tr>
<td></td>
<td>-</td>
<td>-</td>
<td>1,069</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>233</td>
</tr>
<tr>
<td>TOTAL</td>
<td>1,402</td>
<td>2,200</td>
<td>2,448</td>
<td>2,803</td>
<td>1,031</td>
<td>1,257</td>
<td>11,141</td>
</tr>
</tbody>
</table>

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