2. SPECIAL RECOGNITIONS

2.1 FACULTY FELLOWS

Badiru, Adedeji B., Dean, Graduate School of 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.


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

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., Professor and Head, Department of Systems Engineering and Management, Fellow of the Information System Security Association.

Hengehold, Robert L., Professor Emeritus 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.

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


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

Pignatiello, Joseph J., Professor of Operations Research; Head, Department of Operational Sciences, Fellow of the Institute of Industrial Engineers, Fellow of the American Society for Quality.

Polanka, Marc D., 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.

2.3 RESEARCH AND TEACHING AWARDS

2.3.1 FACULTY

AHNER, Darryl K.
Council of Supply Chain Management Professionals Global Conference, 2014 E Grosvenor Plowman Award for Best Paper

AKERS, Benjamin F.
ENC Instructor of the Quarter, 2015 Spring Quarter

BORGHETTI, Brett J.
2015 AETC Winner & Nominee to AF level Competition, AF STEM Outstanding Science and Educator Award for 2014

COLLINS, Peter J.
2014 AMTA Outstanding Service Award

CROWE, Darrell S., Maj
2015 Southwest Ohio Council for Higher Education (SOCHE) Excellence in Teaching Award

DECKRO, Richard F.,
2015 Distinguished Professor, Air Force Institute of Technology

DOUGLAS, Matthew A., Lt Col
2014-2015 Instructor of the Year, AFIT/ASAM

FICKUS, Matthew C.
ENC Instructor of the Quarter, 2015 Winter Quarter

HAMMOND, Gregory D., Maj
2014 Department Journal Publication of the Year

HODSON, Douglas D.
2015 Harold Brown Award (AETC level)
2014 AFIT’s 4th Quarter Civilian Category III Award

HOPKINSON, Kenneth M.
2014 AFIT Winner and Air Education and Training Command (AETC) Runner-Up for the Educator of the Year Award
JACKSON, JULIE A.
ENG nominee for the 2014 BOV Gage H. Crocker Professor Award

KELLY, TONY D.
2015 Junior Civilian Career Engineering Award—Air Force Institute of Technology (AFIT) and Air Education and Training Command (AETC)
2015 Lt Col Charles P. Brothers, Jr. Outstanding Volunteer Service Award

LIU, DAVID, Maj
2015 Outstanding Military Faculty Member, Military Officer Association of America

LUNDAY, BRIAN J., LTC
ISERC, Best Paper Award for the IE in the Military Track, 2015

MARTIN, RICHARD K.
AFIT quarterly award, 2015 Q1, Team category, National Engineers Week Team
Presidential Volunteer Service Award (silver level), AFIT Engineers Week Team

MCHALE, STEPHEN, LTC
2014 Southwest Ohio Council for Higher Education (SOCHE) Excellence in Teaching Award

MILLS, ROBERT
General Bernard A. Schriever Award

MIXON, DUSTIN, Maj
Air Force Office of Scientific Research (AFOSR) Young Investigator Award

MULLINS, BARRY E.
2014 Southwest Ohio Council for Higher Education (SOCHE) Excellence in Teaching Award

OYAMA, KYLE, Lt Col
2014 AFIT/ENV Publication of the Year for AFIT/ENV
Best of Session Award: Awarded by the Society of Flight Test Engineers – This award recognized the paper “Analyzing DT&E Flight Test Missions” by Sutherlin, J., J. Colombi, J. Wirthlin, K. Oyama, and J. Vandewiel for the Proceedings of the 45th Annual International Symposium of the Society of Flight Test Engineers

PETEYERSON, JESSE D., Capt
ENC Instructor of the Quarter, 2015 Summer Quarter
PIGNATIELLO, JOSEPH J., Jr.,
Award of Appreciation, Quality Control and reliability Engineering Division (QCRE) of the Institute of Industrial Engineers, 2015

POLANKA, MARC D.
2015 Southwestern Ohio Council for Higher Education Leadership Fellow

RANDALL, CHRISTIAN E., Maj
AETC 2014 Outstanding Air Force Logistics Readiness Field Grade Officer of the Year

RITSCHEL, JONATHAN, D., Lt Col
2014 Southwest Ohio Council for Higher Education (SOCHE) Excellence in Teaching Award
2014 Faculty Scholar of the Year, Department of Systems Engineering and Management

ROBBINS, MATTHEW J., Lt Col
HQ AFMC/A2/5 2014 Annual Award Winner: recognized with the Cost Capability Analysis Team

RUGGLES-WRENN, MARINA B.
2015 Stinson Trophy, presented by the National Aeronautical Association for outstanding and enduring contribution to the role of women in the field of aviation, aeronautics, space or related sciences

RUSNOCK, CHRISTINA, Maj
Engineering Economy Track Best Paper Award: Awarded by the Institute of Industrial Engineers - This award recognized the paper “Predicting Cost Growth for Military and Civil Space Systems” by Christina F. Rusnock and Edward D. White III for the Proceedings of the 2015 Institute of Industrial Engineers (IIE) Industrial & Systems Engineering Research Conference

RYAN, ERIN T., Lt Col
2014 Department Outstanding Educator Award

SCHUBERT KABBAN, CHRISTINE M.
ENC Instructor of the Quarter, 2014 Fall Quarter

SEAL, MICHAEL D., Maj
2014 AETC winner for AF Science & Engineering Award – Exploratory Technology Development (ETD)

THAL, ALFRED E.,
2014 SIE Management Instructor of the Year

Best Application Paper Award: Awarded by the Western Decision Sciences Institute - This award recognized the paper “Strategic Sourcing: Don’t Lose Sight of the Forest” by A.R. Meyers and A.E. Thal, Jr. for the Western Decision Sciences Institute Annual Meeting
2.3.2 STUDENTS

ALBA, CHRISTOPHER R.
Best Technical Presentation – CFD, 40th AIAA Dayton Cincinnati Aerospace Science Symposium, Mar 2015

ALTENHOFEN, JASON A.
2015 Dean’s Award for the most exceptional master’s thesis by a graduating student in the Department of Systems Engineering and Management. Thesis title: “A Methodology to Determine the Influence of Requirements Change to Support System Design.”
2014-2015 Louis Polk Award that recognizes a graduating student who has made an advanced contribution to his/her professional field in direct furtherance of the objectives of the National Defense Industrial Association.

AUSSERER, JOSEPH K.
Best Technical Presentation – Combustion, 40th AIAA Dayton Cincinnati Aerospace Science Symposium, Mar 2015

HORN, KEVIN P.
2nd Place, Graduate Student Category, AIAA Regional Student Conference at Wright State University, OH, Apr 2015

JODEH, NIDAL M.

LAFLEUR, ROBERT S.
2015 Dean’s Award for the most exceptional master’s thesis by a graduating student in the Department of Electrical and Computer Engineering. Thesis title: “Development of A Novel Hybrid Multi-Junction Architecture for Silicon Solar Cells.”

LEWIS, MEGAN E.
2015 Dean’s Award for the most exceptional master’s thesis by a graduating student in the Department of Mathematics and Statistics. Thesis title: “Recent Advances in Compressed Sensing: Discrete Uncertainty Principles and Fast Hyperspectral Imaging.”

LINGENFELTER, ANDREW J.
1st Place, Art-in-Science Competition – 2015 Dayton Cincinnati Aerospace Science Symposium, Mar 2015

LYNCH, ANDREW J.
MATTERS, DAVID A.
2015 Melvin E. Gross Award that recognizes a graduating master’s student who has demonstrated the most exceptional academic achievement and high qualities of character, initiative and leadership.

SINGLETON, JACOB W.

SLAUGHTER, ROBERT A.
2014 Best Student Paper, IEEE Applied Imagery and Pattern Recognition Workshop

STEENMAN, MATTHEW B.
2015 Dean’s Award for the most exceptional master’s thesis by a graduating student in the Department of Aeronautics and Astronautics. Thesis title: “Reverse Radio Frequency Fingerprinting for Remote Indoor Localization.”

VAN ZANDT, NOAH R.
2015 Dean’s Award for the most exceptional master’s thesis by a graduating student in the Department of Engineering Physics. Thesis title: “Modeled and Measured Partially Coherent Illumination Speckle Effects from Sloped Surfaces for Tactical Tracking.”

WIDRICK, REBECCA S.
2015 Dean’s Award for the most exceptional master’s thesis by a graduating student in the Department of Operational Sciences. Thesis title: “Optimal Policies for the Management of a Plug-In Hybrid Electric Vehicle Swap Station.”
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. Figure 3.2 summarizes the past ten fiscal years of sponsored funding. Tables 3.3 and 3.4, and Figure 3.3, summarize external funding for FY15.

![Figure 3.2 New Award History FY06-FY15](image)

Table 3.3 FY15 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 Programs</th>
<th>Total FY15 Newly Awarded Projects</th>
<th>Total FY15 Research Expenditures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics &amp; Statistics (ENC)</td>
<td>7</td>
<td>1</td>
<td>8</td>
<td>452</td>
</tr>
<tr>
<td>Electrical &amp; Computer Eng (ENG)</td>
<td>64</td>
<td>2</td>
<td>66</td>
<td>5,032</td>
</tr>
<tr>
<td>Engineering Physics (ENP)</td>
<td>44</td>
<td>1</td>
<td>45</td>
<td>5,032</td>
</tr>
<tr>
<td>Research &amp; Sponsored Programs (ENR)</td>
<td>1</td>
<td></td>
<td>1</td>
<td>377</td>
</tr>
<tr>
<td>Operational Sciences (ENS)</td>
<td>11</td>
<td>3</td>
<td>14</td>
<td>3,297</td>
</tr>
<tr>
<td>Systems Eng &amp; Management (ENV)</td>
<td>11</td>
<td>1</td>
<td>12</td>
<td>725</td>
</tr>
<tr>
<td>Aeronautical &amp; Astronautical Eng (ENY)</td>
<td>44</td>
<td>3</td>
<td>47</td>
<td>2,671</td>
</tr>
<tr>
<td>TOTAL</td>
<td>182</td>
<td>11</td>
<td>193</td>
<td>17,586</td>
</tr>
</tbody>
</table>

| Center                                          |                                |                                  |                                  |                                  |
| Autonomy and Navigation Technology (ANT)        | 25                              |                                  | 25                               | 2,174                            |
| Center for Cyberspace Research (CCR)            | 15                              | 2                                | 17                               | 1,430                            |
| Center for Directed Energy (CDE)                | 21                              |                                  | 21                               | 2,657                            |
| Center for Operational Analysis (COA)*          | 9                               | 1                                | 10                               | 1,611                            |
| Center for Space Research and Assurance (CSRA)  | 15                              |                                  | 15                               | 1,310                            |
| Center for Tech Intel Studies & Research (CTISR)| 12                              | 1                                | 13                               | 1,495                            |
| TOTAL                                           | 97                              | 4                                | 101                              | 10,677                           |

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 3.3 New FY15 Awards by Sponsor

Table 3.4 New FY15 Awards to Academic Departments & Research Centers by Sponsor

<table>
<thead>
<tr>
<th>Dept.</th>
<th>AFRL</th>
<th>AFMC (Non-AFRL)</th>
<th>Other USAF</th>
<th>Other DOD</th>
<th>Other Federal</th>
<th>Non-Federal</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC</td>
<td>$244</td>
<td>-</td>
<td>$100</td>
<td>$94</td>
<td>$14</td>
<td>$452</td>
<td></td>
</tr>
<tr>
<td>ENG</td>
<td>$2,551</td>
<td>$263</td>
<td>$1,973</td>
<td>$225</td>
<td>$20</td>
<td>$5,032</td>
<td></td>
</tr>
<tr>
<td>ENP</td>
<td>$1,045</td>
<td>$217</td>
<td>$3,457</td>
<td>$213</td>
<td>-</td>
<td>$5,032</td>
<td></td>
</tr>
<tr>
<td>ENR</td>
<td>$377</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>$377</td>
<td></td>
</tr>
<tr>
<td>ENS</td>
<td>$175</td>
<td>$715</td>
<td>$2,407</td>
<td>-</td>
<td>-</td>
<td>$3,297</td>
<td></td>
</tr>
<tr>
<td>ENV</td>
<td>$86</td>
<td>$133</td>
<td>$420</td>
<td>$8</td>
<td>-</td>
<td>$725</td>
<td></td>
</tr>
<tr>
<td>ENY</td>
<td>$1,033</td>
<td>$78</td>
<td>$1,306</td>
<td>$5</td>
<td>$115</td>
<td>$2,671</td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td>$5,511</td>
<td>$1,143</td>
<td>$575</td>
<td>$9,663</td>
<td>$545</td>
<td>$149</td>
<td>$17,586</td>
</tr>
</tbody>
</table>

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

Center

<table>
<thead>
<tr>
<th>Center</th>
<th>AFRL</th>
<th>AFMC (Non-AFRL)</th>
<th>Other USAF</th>
<th>Other DOD</th>
<th>Other Federal</th>
<th>Non-Federal</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT</td>
<td>$1,414</td>
<td>-</td>
<td>$705</td>
<td>-</td>
<td>$20</td>
<td>$2,174</td>
<td></td>
</tr>
<tr>
<td>CCR</td>
<td>$240</td>
<td>-</td>
<td>$965</td>
<td>$225</td>
<td>-</td>
<td>$1,430</td>
<td></td>
</tr>
<tr>
<td>CDE</td>
<td>$767</td>
<td>$17</td>
<td>$1,798</td>
<td>$63</td>
<td>-</td>
<td>$2,657</td>
<td></td>
</tr>
<tr>
<td>COA</td>
<td>$100</td>
<td>$715</td>
<td>$796</td>
<td>-</td>
<td>-</td>
<td>$1,611</td>
<td></td>
</tr>
<tr>
<td>CSRA</td>
<td>$374</td>
<td>$103</td>
<td>$833</td>
<td>-</td>
<td>-</td>
<td>$1,310</td>
<td></td>
</tr>
<tr>
<td>CTISR</td>
<td>$50</td>
<td>$87</td>
<td>$1,358</td>
<td>-</td>
<td>-</td>
<td>$1,495</td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td>$2,945</td>
<td>$835</td>
<td>$6,457</td>
<td>$288</td>
<td>$20</td>
<td>$10,677</td>
<td></td>
</tr>
</tbody>
</table>

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