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.

DECKRO, RICHARD F., Professor of Operations Research, Department of Operational Sciences, Fellow of the Military Operations Research 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.

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

HENGHEHOLD, ROBERT L., Professor Emeritus of Physics, Department of Engineering Physics, Fellow of the American Physical Society.

HOUPIAS, 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.


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.


WEIR, JEFFERY W., Professor and Deputy Department Head, Department of Operational Sciences, Fellow of the Southwestern Ohio Council for Higher Education
2.3 RESEARCH AND TEACHING AWARDS

2.3.1 FACULTY

AKERS, BENJAMIN F,
ENC Instructor of the Quarter, 2016 Winter Quarter.

BADIRU, ADEDEJI B,
Air Education and Training Command National Public Service Award.
2016 Outstanding Global Engineering Education Award, Industrial Engineering and Operations Management (IEOM) award, September 2016, Detroit, MI

COBB, RICHARD G,
2015 Air University Team of the Year Award, Center for Space Research and Assurance

COUTU, RONALD A., Jr.,
Eta Kappa Nu (HKN), Key Chapter Award – Faculty Advisor; Eta Kappa Num (HKN), Outstanding Teaching Award, ENG Faculty Instructor of the Year.

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

DECKRO, RICHARD F.,
1st Editor Emeritus, Military Operations Research, 2016

DOUGLAS, MATTHEW A., Lt Col,
2016 AFIT Faculty Research Fellow

FEE, JAMES R. Jr., Lt Col,
Charles Brothers’ “Outstanding Volunteer Service Award,” March 2016

FICKUS, MATTHEW C,
ENC Instructor of the Year, June 2016

FREELS, JASON K., Maj,
The Lloyd S. Nelson Award: Awarded by the American Society for Quality (Statistics Division)

GUNAWARDENA, SANJEEV,
Civilian Cat III Award, 2016 1st Quarter, School of Engineering and Management, Air Force Institute of Technology, April 2016
HARPER, WILLIE F., Jr.,
2016 John L. McLucas Basic Research Award

HAVRILLA, MICHAEL J.,
Board of Directors Member, Antenna Measurement techniques Association (AMTA), January 2016.

HAZEN, BENJAMIN T., Maj,
2016 Faculty Excellence Award, Southwestern Ohio Council for Higher Education

HILL, RAYMOND R.,
2016 Air Force Outstanding Science and Engineering Educator Award

LOPER, ROBERT D.,
2015 SOCHE Faculty Excellence Award, October 2015

MARTIN, RICHARD K.,
Presidential Volunteer Service Award (silver level), AFIT Engineers Week Team. June 2015;
Presidential Volunteer Service award (gold level), AFIT-NASIC team, May 2016.

MIXON, DUSTIN G., Maj,
ENC Instructor of the Quarter, 2015 Fall Quarter.

OVERSTREET, ROBERT E., Lt Col,
2016 Professor of the Year, Advanced Studies of Air Mobility (ASAM) Program
2016 Outstanding Reviewer (IJLM), Emerald Literati Network Awards for Excellence

PETERSON, JESSE D., Maj,
ENC Instructor of the Quarter, 2016 Summer Quarter.

RAMSEY, BENJAMIN W., Maj,
Best MS Paper at ICCWS' 16 for “Z-Ranger: An Improved Tool Set for ZigBee Warwalking”

REEDER, MARK F.,

REEGER, JONAH A., Capt,
ENC Instructor of the Quarter, 2016 Spring Quarter

RICE, MASON J., LTC,
Co-author of Top Rated Paper at 10th Annual IFIP WG 11.10 International Conference on Critical Infrastructure Protection SRI International, March 2015
RUGGLES-WRENN, MARINA B.,

2015 American Society of Mechanical Engineers (ASME) Pressure Vessel and Piping Division Certificate of Appreciation

RUSNOCK, CHRISTINA, F., Maj,

2016, AETC Educator of the Year, Air University, Maxwell AFB, AL

2016, Safety, Human Factors, and Ergonomics Track Best Paper Award, Institute of Industrial and Systems Engineers

2016, Outstanding Military Faculty Award, Military Officers Association of America

2015 Presidential Volunteer Service Award – Gold (Team Category), Corporation for National and Community Service

2015, Best Poster Award, 2015 Fall Technical Symposium of the Cincinnati-Dayton Chapter of INFORMS

STONE, BRIAN B., Maj,

Air Force Institute of Technology Field Grade Officer of the Quarter, Third Quarter 2015

Combined Air Operations Center, Strategy Division, Field Grade Officer of the Quarter, Second Quarter 2016

SWENSON, ERIC D.,

2015 Air University Team of the Year Award, Center for Space Research and Assurance

TERZUOLI, ANDREW J.,

Annual Citation from IEEE – local joint chapter chair

WHITE, EDWARD D. III,

Dr. Leslie M. Norton Teaching Excellence Award, March 2016

2.3.2 STUDENTS

BOARDMAN, NICHOLAS T.,

2016 Dean’s Award for the most exceptional master’s thesis by a graduating student in the Department of Operational Sciences. Thesis title: “Heterogeneous Air Defense Battery Location: A Game Theoretic Approach.”

BIHL, TREVOR J.,

Civilian Student of the Year

CAMMARATA, JASON A.,

American Nuclear Society Best Thesis Award, March 2016

DEGUZMAN, ERIC D.,

Information Security and Information Operations Academic Research Excellence Award (Association of Old Crows)
FITCH, KYLE E.,

FITZPATRICK, BRIAN J.,
2016 Dean’s Award for the most exceptional master’s thesis by a graduating student in the Department of Systems Engineering and Management. Thesis title: “Determining the Optimal Work Breakdown Structure for Defense Acquisition Contracts.”

FRANDSEN, BRIAN,
2016 Louis F. 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.

GRAVES, W. THOMPSON Jr.,
2016 Dean’s Award for the most exceptional master’s thesis by a graduating student in the Department of Aeronautics and Astronautics. Thesis title: “Topology Optimization of a Penetrating Warhead.”

GULOTTA, PAUL A.,
Art-in-Science Award (3rd Place) – 41st AIAA Dayton Cincinnati Aerospace Science Symposium, Mar 2016

HESS, JOSHUAH A.,

IGUCHI, TAKAYUKI,
2016 Dean’s Award for the most exceptional master’s thesis by a graduating student in the Department of Mathematics and Statistics. Thesis title: “Clustering Theory and Data-Driven Health Care Strategies.”

KODAMA, CHRISTOPHER H.,
2016 Dean’s Award for the most exceptional master’s thesis by a graduating student in the Department of Electrical and Computer Engineering. Thesis title: “Tunable Terahertz Metamaterials with Germanium Telluride Components.”

KAPLAN, SERGEY M.,
Best Student Paper – 2015 SEM Annual Conference & Exposition, Research Title: “Measurement of the Electromechanical Response of Capacitors in Dynamic Loading Conditions.”

KOSTRUBALA, KAZIMIR M.,
ASAM Honors Graduate

LUKACS, MATHEW W.,
Piergiorgio L.E. Uslenghi Prize Paper Award on antennas and Wireless Propagation, IEEE Antenna and Propagation Society, May 2016
MAYWALD, JACOB,

2016, Jerome G. Peppers Jr. Outstanding Student Award which is given to a member of each graduating class whose academic record and research significantly contributes to the field of logistics.

MILLER, ALLEN R.,

Student Field Grade Officer of the Year

ROBERTS, MATTHEW,

Outstanding Reviewer at Midwest Academy of Management Conference

SHALLCROSS, NICHOLAS,

2016 Mervin 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.

WIESE, CONNOR J.,


WHITE, ANTHONELLI,

Best Student Paper at Midwest Academy of Management Conference

YOUNG, SHANNON R.,

“Best Communicated Research Project” at NGA Persistent Infrared Tech Forum, Nov 2015
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 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 FY16.

Figure 3.2 New Award History FY07-FY16

Table 3.3 FY16 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 FY16 Newly Awarded Projects</th>
<th>Total FY16 Research Expenditures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department</td>
<td># $k</td>
<td># $k</td>
<td># $k</td>
<td>$k</td>
</tr>
<tr>
<td>Mathematics &amp; Statistics (ENC)</td>
<td>7 544</td>
<td>-</td>
<td>7 544</td>
<td>458</td>
</tr>
<tr>
<td>Electrical &amp; Computer Eng (ENG)</td>
<td>62 6,225</td>
<td>3 196</td>
<td>65 6,421</td>
<td>5,836</td>
</tr>
<tr>
<td>Engineering Physics (ENP)</td>
<td>57 5,576</td>
<td>2 19</td>
<td>59 5,595</td>
<td>5,177</td>
</tr>
<tr>
<td>Research &amp; Sponsored Programs (ENR)</td>
<td>1 351</td>
<td>-</td>
<td>1 351</td>
<td>-</td>
</tr>
<tr>
<td>Operational Sciences (ENS)</td>
<td>27 8,328</td>
<td>3 176</td>
<td>30 8,504</td>
<td>5,518</td>
</tr>
<tr>
<td>Systems Eng &amp; Management (ENV)</td>
<td>15 955</td>
<td>2 195</td>
<td>17 1,150</td>
<td>719</td>
</tr>
<tr>
<td>Aeronautical &amp; Astronautical Eng (ENY)</td>
<td>48 2,456</td>
<td>3 59</td>
<td>51 2,515</td>
<td>1,985</td>
</tr>
<tr>
<td>TOTAL</td>
<td>217 24,435</td>
<td>13 648</td>
<td>230 25,080</td>
<td>19,693</td>
</tr>
</tbody>
</table>

Center

<table>
<thead>
<tr>
<th>Center</th>
<th>Newly Awarded Projects</th>
<th>Newly Awarded Education Projects</th>
<th>Total FY16 Newly Awarded Projects</th>
<th>Total FY16 Research Expenditures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autonomy and Navigation Technology (ANT)</td>
<td>29 3,716</td>
<td>1 175</td>
<td>30 3,891</td>
<td>3,447</td>
</tr>
<tr>
<td>Center for Cyberspace Research (CCR)</td>
<td>20 1,147</td>
<td>3 196</td>
<td>23 1,343</td>
<td>959</td>
</tr>
<tr>
<td>Center for Directed Energy (CDE)</td>
<td>25 3,276</td>
<td>1 9</td>
<td>26 3,285</td>
<td>2,822</td>
</tr>
<tr>
<td>Center for Operational Analysis (COA)</td>
<td>23 7,085</td>
<td>2 150</td>
<td>25 7,235</td>
<td>4,555</td>
</tr>
<tr>
<td>Center for Space Research and Assurance (CSRA)</td>
<td>18 1,339</td>
<td>-</td>
<td>18 1,339</td>
<td>1,266</td>
</tr>
<tr>
<td>Center for Tech Intel Studies &amp; Research (CTISR)</td>
<td>15 1,136</td>
<td>1 10</td>
<td>16 1,146</td>
<td>1,294</td>
</tr>
<tr>
<td>TOTAL</td>
<td>130 17,699</td>
<td>8 540</td>
<td>138 18,239</td>
<td>14,343</td>
</tr>
</tbody>
</table>

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 FY16 Awards by Sponsor

Table 3.4 New FY16 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>358</td>
<td>-</td>
<td>-</td>
<td>138</td>
<td>48</td>
<td>-</td>
<td>544</td>
</tr>
<tr>
<td>ENG</td>
<td>3,755</td>
<td>88</td>
<td>284</td>
<td>1,747</td>
<td>275</td>
<td>273</td>
<td>6,422</td>
</tr>
<tr>
<td>ENP</td>
<td>1,328</td>
<td>150</td>
<td>728</td>
<td>2,632</td>
<td>410</td>
<td>347</td>
<td>5,595</td>
</tr>
<tr>
<td>ENR</td>
<td>351</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>351</td>
</tr>
<tr>
<td>ENS</td>
<td>275</td>
<td>4,290</td>
<td>20</td>
<td>3,919</td>
<td>-</td>
<td>-</td>
<td>8,504</td>
</tr>
<tr>
<td>ENV</td>
<td>498</td>
<td>-</td>
<td>321</td>
<td>262</td>
<td>69</td>
<td>-</td>
<td>1,150</td>
</tr>
<tr>
<td>ENY</td>
<td>1,364</td>
<td>-</td>
<td>219</td>
<td>851</td>
<td>-</td>
<td>80</td>
<td>2,514</td>
</tr>
<tr>
<td>TOTAL</td>
<td>7,929</td>
<td>4,528</td>
<td>1,572</td>
<td>9,549</td>
<td>802</td>
<td>700</td>
<td>25,080</td>
</tr>
</tbody>
</table>

Note: “Other DOD” in this table includes the DTRA, HELJTO, 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>2,701</td>
<td>42</td>
<td>174</td>
<td>834</td>
<td>-</td>
<td>140</td>
<td>3,891</td>
</tr>
<tr>
<td>CCR</td>
<td>517</td>
<td>45</td>
<td>-</td>
<td>486</td>
<td>275</td>
<td>20</td>
<td>1,343</td>
</tr>
<tr>
<td>CDE</td>
<td>818</td>
<td>150</td>
<td>18</td>
<td>1,734</td>
<td>130</td>
<td>435</td>
<td>3,285</td>
</tr>
<tr>
<td>COA</td>
<td>385</td>
<td>4,290</td>
<td>20</td>
<td>2,540</td>
<td>-</td>
<td>-</td>
<td>7,235</td>
</tr>
<tr>
<td>CSRA</td>
<td>599</td>
<td>-</td>
<td>740</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>1,339</td>
</tr>
<tr>
<td>CTISR</td>
<td>103</td>
<td>-</td>
<td>-</td>
<td>415</td>
<td>603</td>
<td>-</td>
<td>1,146</td>
</tr>
<tr>
<td>TOTAL</td>
<td>5,123</td>
<td>4,527</td>
<td>627</td>
<td>6,937</td>
<td>405</td>
<td>620</td>
<td>18,239</td>
</tr>
</tbody>
</table>

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