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DEAN’S MESSAGE

I am pleased to present the Comprehensive Report of the College of Engineering & Computer Science (CECS) at the University of Central Florida (UCF) for the reporting period beginning May 6, 2013 and ending May 7, 2014 (summer 2013, fall 2013 and spring 2014 semesters).

This report, the first since my appointment as CECS dean in July 2013, was created to provide an accurate, summarized record of the major faculty and student activities during the reporting period; and serves to showcase their noteworthy achievements. With 125 tenure and tenure-track faculty, 30 instructors and lecturers, 7,014 undergraduate students and 1,282 graduate students (Fall 2013), I am proud to say that our achievements were many, as you will see in the following pages.

The great work of our faculty and students is reflected in our ranking. According to U.S. News & World Report, CECS is one of only three engineering colleges in Florida that rank among the top 100 in the nation, out of nearly 400 engineering programs evaluated.

With 59,740 students, UCF is the second-largest university in the nation. Consequently, CECS has a high undergraduate enrollment, ranking ninth highest in the nation and highest among all similar colleges in the Florida State University System.

CECS is one of Florida’s – and the nation’s – largest producers of engineers and computer scientists. Our college’s impact in fueling Florida’s growing innovation economy is significant. CECS ranks 14th in the nation for the number of engineering and computer science bachelor’s degrees awarded; and sixth in the nation in bachelor’s degrees awarded to Hispanics and African Americans.

CECS has five academic departments: Civil, Environmental and Construction Engineering (CECE); Electrical Engineering and Computer Science (EECS) comprised of the Division of Computer Science and the Division of Electrical and Computer Engineering; Industrial Engineering and Management Systems (IEMS); Materials Science and Engineering (MSE); and Mechanical and Aerospace Engineering (MAE).

The faculty and students of these departments possess renowned expertise and cutting-edge technical talent in diverse areas such as transportation, energy systems and power generation, computer vision, modeling and simulation, artificial intelligence, smart sensors and materials, and water resources and quality, and more.
CECS is dedicated to (a) sustaining excellence in all the aforementioned focus areas and (b) delivering a high-quality education to all our students to prepare them to be the technological workforce of the 21st century. Our education and research efforts are supported by a strong neighboring industry presence (e.g., Alstom, Harris Corporation, Lockheed Martin, Pratt and Whitney, Duke Energy, SAIC, Siemens, Walt Disney World, NASA, Mitsubishi, and many others).

Our college’s major initiatives and achievements during the reporting period include:

- CECS and the UCF College of Sciences jointly established iSTEM (Initiatives in STEM) to centralize university-wide STEM outreach and education efforts; and enhance collaboration among UCF colleges, centers and institutes involved in STEM education and research.

- CECS led a consortium of three metropolitan universities (UCF, USF and FIU) and received $4.9 million from the Florida Board of Governors to increase the number of computer science, computer engineering and information technology (IT) degrees produced at these institutions.

- CECS launched the Interactive Systems and User Experience (ISUE) Research Cluster of Excellence to develop innovative technologies related to all forms of computer-based interactive experiences that benefit human society. ISUE researchers seek to understand how these technologies affect the user experience.

- Supported with a $3.2 million award from the U.S. Department of Energy, CECS faculty have led a major national U.S. DOE consortium known as FEEDER to modernize the nation’s energy grid and educate the smart grid workforce;

- CECS faculty received major federal funding for four University Transportation Centers: the Electric Vehicle Transportation Center (EVTC), SAFER SIM, Southeast Transportation Center (STC) Region 4, and the National Center for Transportation Systems Productivity and Management.

- CECS faculty received new funding of $22.7 million and published nearly 350 journals and 370 conference papers.

As we move forward, our college will define itself and its future by continuing to emphasize strong, niche, interdisciplinary research that can, and many times will, achieve national and international recognition for CECS and the University of Central Florida. Equally as important, CECS will continue its ongoing dedicated support of our students to empower their development and success. Our high-achievers set the standard for all students, and best reflect the technical capabilities and leadership skills that UCF sends to the workforce.

It’s this high standard of excellence of our faculty, students and alumni that serves as the inspiration and guiding light for all of us.

Michael Georgioupolos, Ph.D.
Dean, College of Engineering & Computer Science
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Two UCF Colleges Create State’s Only Undergraduate Photonics Degree - June 26, 2013
The degree program is a joint initiative between the UCF College of Optics and Photonics (known as CREOL, which stands for the Center for Research and Education in Optics and Lasers) and the College of Engineering and Computer Science. The degree is the only bachelor’s program in optics and photonics in Florida. Only five other institutions offer this type of undergraduate engineering degree in the nation.

UCF Programming Team In World’s Top 50 - August 1, 2013
The UCF Programming Team has returned from Russia as the world’s 48th best computer programming competition team. They placed seventh among teams from the United States in the World Competition of the Association for Computing Machinery (ACM) International Collegiate Programming Contest. The worldwide event, held in St. Petersburg in July 2013, featured 120 teams that advanced to the world level from a pool of 8,000 regional teams from more than 90 countries.

UCF Engineering Team Develops Antenna Capable of Surviving Record Temps - August 5, 2013
A UCF engineering team developed an antenna capable of surviving a record temperature of 1,300 degrees Celsius, or 2,372 degrees Fahrenheit, a potential boon to manufacturers of high-performance turbine engines. The research, funded by a $950,000 grant from the U.S. Department of Energy, was designed to address the problem of efficient temperature monitoring of turbines, machines that produce most of the world’s electrical power and propel aircraft.

Assistant Professor Looks to Find Way To Predict Sinkholes - August 5, 2013
Florida is home to more than 6,600 identified craters, and Boo Hyun Nam, an assistant professor in the UCF Department of Civil, Environmental and Construction Engineering, has begun working on finding a mechanism that will help predict where they may form next.

UCF Scientists Use Robotics to Detect Citrus Disease - August 28, 2013
UCF mechanical engineering associate professor Yunjun Xu worked with UF agricultural and biological engineer and associate professor Reza Ehsani to develop an automated system that would use robots and specialized sensors in the air and on the ground to detect and report disease in citrus groves and strawberry fields thanks to a $1.2 million U.S. Department of Agriculture grant.
Michael Lewis, senior vice president, Duke Energy, spoke to students in the “Leaders Up Close” Fall 2013 Seminar Series, a program by the Engineering Leadership and Innovation Institute (eli2) at UCF. The speaker lineup includes Todd Stansbury, director of athletics, UCF; Vinod Philip, ’00, head of Gas Turbine Engineering, Siemens; Leila J. Nodarse, ’82, senior client manager, Terracon; Gene Frantz, ’71, principal fellow, Texas Instruments; and Jason Dunn, ’07, ’09, co-founder and chief technologist, Made in Space, Inc. Sponsored by Duke Energy, the “Leaders Up Close” series has benefitted more than 700 students since its launch in Spring 2011, and is one of many leadership and skills-building opportunities offered to all CECS students as part of eli2.

‘Speed Dating’ Style Forum Sparks CECS and College of Medicine (COM) Collaboration - Oct. 23, 2013
CECS and COM collaborated at a speed-dating style forum designed to bring together diverse experts to solve humanity’s health issues. The conference allowed for nearly 40 CECS and COM scientists and clinicians to learn about each other’s areas of specialty and explore possible partnerships and bring together scientific experts with different points of view can open new doors to solving problems.

CECS Ranked Fourth Best in The Nation For Hispanics - Nov. 6, 2013
UCF’s graduate engineering program has ranked among the nation’s top five in the country for Hispanic students, marking the ninth consecutive year it has ranked in the nation’s top 10. Hispanic Business Magazine ranked the UCF College of Engineering & Computer Science fourth in its 2013 Best Schools for Hispanics list, up two spots from sixth place last year. The publication ranks the top 10 graduate programs in the country in medicine, law, business and engineering.

UCF has been awarded $3.2 million to lead one of four national consortia to develop distributed technologies, to increase engineering capacity, and to prepare for a national shift from traditional sources of electricity to renewables such as solar and wind. The team’s winning proposal, Foundations for Engineering Education for Distributed Energy Resources (FEEDER), is a part of broader U.S. Department of Energy (DOE) investment of $12 million to increase the nation’s capacity to support distributed energy technologies. The FEEDER center will bring together seven universities, eight utility companies, two national laboratories and eight industry partners (see list of partners below) to speed up the development of technologies needed to prepare nation’s electric grid to operate on renewable energy source.

NOAA Invites CECS Professor to Speak About Climate Change - Nov. 13, 2013
Scott Hagen, a professor in the Department of Civil, Environmental and Construction Engineering, is one of only eight scientists and engineers in the nation who has been asked to present findings Jan. 27, 2014 at the National Oceanic and Atmospheric Administration’s (NOAA) Science Day to educate the public about the potential impact of climate change. Hagen spoke at the “Advancing Climate Science for a Climate-Smart Nation” segment of the program that included a webinar.

CECS Student to Receive $10,000 Scholarship During Halftime of UCF-Rutgers Game - Nov. 21, 2013
CECS junior Richard Murdock received a $10,000 award from the Astronaut Scholarship Foundation. The scholarship was presented during halftime of the UCF-Rutgers game by NASA astronaut Jerry Carr, who spent 84 days in space in 1973-74 as commander of the Skylab 4 mission.
UCF Grad Wants to Take 3D Printing to the International Space Station - Nov. 21, 2013

Jason Dunn is co-founder of Made in Space, a company that is working with NASA to place a 3-D printer on the International Space Station. A 3-D printer in space would cut down on expensive resupply missions and would be mankind’s first foray into manufacturing off world. It’s a necessary step to multi-planetary colonization, he said. Made in Space is now in the final stages of testing the specially designed space 3-D printer and it is scheduled for launch on a Space X rocket ship in 2014.

Nation’s Top Innovators: CECS Professor Among Three at UCF to Receive National Honor - Dec. 10, 2013

Three UCF professors -- including CECS’s Sudipta Seal -- are being recognized for their prolific spirit of innovation, which has benefitted economic development, quality of life and the well-being of society. The three have distinguished themselves for creating inventions in the areas of photonics and nanotechnology, which have everyday applications. For their work, the National Academy of Inventors has named Dr. Seal, Michael Bass and Peter H. Delfyett NAI Fellows for 2013.

NASA Selects UCF Student Team for Zero-Gravity Flight Experiment - Feb. 11, 2014

NASA selected UCF’s team of six students to run an experiment aboard a parabolic flight as part of its Undergraduate Student Instrumentation Program. Since getting the green light late last year, the team has been hard at work turning the project from concept to design to working prototype. The students have to meet a summer deadline in order to keep their slot on a specially designed plane that astronauts use to train. It’s often referred to as the vomit comet, because it is not for those with weak stomachs.

UCF Cyber Defense Team Takes First in Nation, Victory Photo Displayed in Times Square - May 1, 2014

The eight-member UCF team that started in 2012 as a grassroots effort to educate the community about cyber attacks and how to defend against them was named the best cyber defense team in the nation. The team placed first in the Raytheon National Collegiate Cyber Defense Competition edging out the Rochester Institute of Technology, which placed second and the University of Alaska at Fairbanks, which took third. The UCF team had its photo displayed in Times Square this week in recognition of its excellence. The students also will be flown in to tour Raytheon’s Government Cyber Operations center near Washington, D.C., this summer.
Degree Majors

Aerospace Engineering: B.S. and M.S.

Civil Engineering: B.S., M.S., and Ph.D.

Computer Engineering: B.S., M.S., and Ph.D.

Computer Science: B.S., M.S., and Ph.D.

Construction Engineering: B.S.

Digital Forensics: M.S.

Electrical Engineering: B.S., M.S., and Ph.D.

Engineering Management: M.S.

Environmental Engineering: B.S., M.S., and Ph.D.

Industrial Engineering: B.S., M.S., and Ph.D.

Information Technology: B.S.

Materials Science and Engineering: M.S. and Ph.D.

Mechanical Engineering: B.S., M.S., and Ph.D.

Modeling and Simulation: M.S. and Ph.D.

Photonics Science and Engineering: B.S.
(Joint program with UCF College of Optics and Photonics)
## Enrollment Data (for Fall 2013 Semester)

During the 2013-14 academic year, the College had 7,014 undergraduate students and 1,282 graduate students, distributed into the academic departments as shown.

<table>
<thead>
<tr>
<th>Department</th>
<th>Program</th>
<th>Degree</th>
<th>Enrollment (Fall 2013)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Civil Environmental and Construction Engineering (CECE)</td>
<td>Civil Engineering</td>
<td>B.S.</td>
<td>378 + 201 (P)</td>
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<td></td>
<td>M.S.</td>
<td>83</td>
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<td>Ph.D</td>
<td>58</td>
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<tr>
<td></td>
<td>Construction Engineering</td>
<td>B.S.</td>
<td>35 + 12</td>
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<tr>
<td></td>
<td>Environmental Engineering</td>
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<td>137 + 77 (P)</td>
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<td>M.S.</td>
<td>29</td>
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<tr>
<td></td>
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<td>Ph.D</td>
<td>13</td>
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<tr>
<td>Computer Science Division of the Department of Electrical Engineering and Computer Science (EECS-CS)</td>
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<td>1170</td>
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<td></td>
<td>M.S.</td>
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<tr>
<td></td>
<td></td>
<td>Ph.D</td>
<td>113</td>
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<tr>
<td></td>
<td>Digital Forensics</td>
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<td>110</td>
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<td>Information Technology</td>
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<td>Photonics Science and Engineering</td>
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<td>Industrial Engineering and Management Systems (IEMS)</td>
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<td>Ph.D</td>
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<td>Mechanical and Aerospace Engineering (MAE)</td>
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<td>1,106 + 553 (P)</td>
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## Degree Production

During 2013-14, the College awarded 1,070 B.S., 384 M.S. and 84 Ph.D. degrees.

<table>
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<th>Department</th>
<th>Program</th>
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<td>Modeling and Simulation</td>
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<td>MSE</td>
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<td>M.S.</td>
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</tbody>
</table>
The College partners and conducts collaborative research with a number of Research Centers in the University including:

- Advanced Materials Processing and Analysis Center
- Biomolecular Science Center
- Center for Research and Education in Optics and Lasers
- Florida Photonics Center of Excellence
- Florida Solar Energy Center
- Florida Space Institute
- Institute for Simulation and Training
- NanoScience Technology Center
- National Center for Forensic Science, and
- Townes Laser Institute

Additionally, CECS financially supports the following three Centers and Research Clusters of Excellence:

1. Center for Advanced Turbomachinery and Energy Research (CATER)  
   (website: http://cater.cecs.ucf.edu). Director: Professor Jayant S. Kapat
2. Center for Research in Computer Vision (CRCV)  
   (website: http://crcv.ucf.edu). Director: Professor Mubarak Shah
3. Coastal Dynamics of Sea Level Rise Research Cluster of Excellence (CDSLR)  
   (website: http: champs.cecs.ucf.edu). Director: Professor Scott Hagen

UCF’s clustered research efforts join experts from a variety of disciplines and fields, and provide many benefits, including: increased opportunities for the participating faculty to pursue collaborative scholarly work and funding; opportunities to more aggressively and successfully partner with renowned researchers and labs around the nation; higher national and international visibility; increased funding potential; and an avenue to train the future science and tech workforce with industry-relevant skills.

During the reporting period, the College started the Interactive Systems and User Experience (ISUE) Research Cluster of Excellence. The Cluster develops innovative technologies related to all forms of computer-based interactive experiences that benefit human society. It also seeks to understand how these technologies affect the user experience. Specifically the cluster pursues projects and research that supports better learning, physical and mental rehabilitation, entertainment, relaxation and enjoyment. A variety of disciplines have come together under the Cluster to benefit from UCF’s expertise in computer science, engineering, psychology, education, digital media and game design, and medicine. Dr. Joseph LaViola, Associate Professor in the Computer Science Division of the Department of Electrical Engineering and Computer Science is the Lead Professor for this Cluster. The dedicated website for this Cluster is http://www.cecs.ucf.edu/isuerce.

Funded with a $3.2 million award from the U.S. Department of Energy, UCF Electrical and Computer Engineering Division, in partnership with Florida Solar Energy Center, lead a Center called FEEDER (Foundations for Engineering Education for Distributed Energy Resources). The consortium joins eight universities, eight utility companies, 11 supporting partners and two national laboratories.
CURRENT RESEARCH AREAS, NEW PROJECTS, AND RESEARCH CENTERS

Prof. Zhihua Qu serves as director of the FEEDER Consortium, which focuses on research, curriculum development, and education and training activities aimed at widespread adoption of distributed renewable energy resources and deployment of smart grid technologies.

During the 2013-2014 reporting period, UCF was awarded (CECE Department is partner in all of them) four federally funded research centers by the U.S. Department of Transportation. Research in these Centers is conducted with other university partners. Details of these Centers are as follows:

**Electric Vehicle Transportation Center (EVTC):** This is a Tier 1 University Transportation Center, with UCF as the lead and University of Hawaii and Tuskegee University as collaborators, is sanctioned for four years starting from January 2014. The Center focuses its efforts to help create the nation’s electric vehicle transportation network. Drs. David Block (FSEC), Omer Tatari (CECE) and Zhihua Qu (CECS-ECE Division) are the PI’s from UCF. UCF received $3M in federal funding and $1.5M as non-federal matching from Nissan Motors, GE, and Nova Charge, Inc. for conducting research in this area.

**SAFER SIM:** The SAFER SIM is a Tier 1 University Transportation Center sanctioned for four years starting from January 2014 and is dedicated to promoting interdisciplinary research using simulation techniques to address the safety issues prioritized by the U.S. Department of Transportation. This Transportation Center has five partners (University of Iowa as Lead, and UCF, University of Wisconsin, Madison, University of Massachusetts, Amherst and University of Puerto Rico, Mayaguez as partners). Drs. Mohamed Abdel-Aty and Essam Radwan (both of CECE) are PIs. UCF received $540,000 from federal resources and $270,000 as non-federal matching funds, with potential for additional funds.

**Southeast Transportation Center STC Region 4 University Transportation Center:** This is a transportation center that has started in January 2014 and will continue for four years. This Center, led by Drs. Essam Radwan and Mohamed Abdel-Aty (both of CECE), was funded at a level of $500,000 from federal resources and $500,000 from non-federal matching funds. This Center has nine partners with the University of Tennessee in the Lead, and University of Alabama, University of Alabama at Birmingham, UCF, University of South Florida, University of Kentucky, North Carolina A&T State University, University of North Carolina-Chapel Hill, and Clemson University as partners. The main goals of the Center are to gather and curate relevant data; integrate human factors with infrastructure use; implement and enrich the Highway Safety Manual and similar tools; and apply all these to all operations related to moving people and goods.

**National Center for Transportation Systems Productivity and Management (NCTSPM):** This is a Tier 1 University Transportation Center that conducts transportation related research in the areas of safety, state-of-good-repair, and economic competitiveness. This Center has four partners with Georgia Tech taking the lead and Florida International University, UCF, and University of Alabama at Birmingham as partners. With Drs. Essam Radwan and Mohamed Abdel-Aty (both of CECE) as PIs from UCF, this Center was funded for four years at $1.2M from federal funds and $1.2 M as non-federal match and its funding cycle will end in January 2016.
Research Productivity

There were 126 tenured and tenure-track faculty in CECS during the 2013-2014 reporting period; and 19 instructors and lecturers. CECS therefore produced 2.77 journals, 2.94 conferences, $180,000 of new funding, and $158,000 of research expenditures per faculty in 2013-2014. Note that research funding does not account for Foundation funding, or other type of funding that does not go through the Office of Research & Commercialization database.

<table>
<thead>
<tr>
<th>Department</th>
<th>Patents</th>
<th>Books</th>
<th>Book Chapters</th>
<th>Journal Papers</th>
<th>Conference Papers</th>
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<tbody>
<tr>
<td>CECE</td>
<td>-</td>
<td>2</td>
<td>3</td>
<td>80</td>
<td>74</td>
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<tr>
<td>CS</td>
<td>2</td>
<td>4</td>
<td>7</td>
<td>57</td>
<td>107</td>
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<tr>
<td>ECE</td>
<td>5</td>
<td>0</td>
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<td>55</td>
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<tr>
<td>IEMS</td>
<td>-</td>
<td>2</td>
<td>4</td>
<td>22</td>
<td>24</td>
</tr>
<tr>
<td>MAE</td>
<td>-</td>
<td>1</td>
<td>3</td>
<td>89</td>
<td>67</td>
</tr>
<tr>
<td>MSE</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>46</td>
<td>4</td>
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<tr>
<td>TOTAL</td>
<td>10</td>
<td>10</td>
<td>19</td>
<td>349</td>
<td>371</td>
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New Funding and Research Expenditure

<table>
<thead>
<tr>
<th>Department (including CATTs, SMA, CDSL)</th>
<th>New Funding</th>
<th>Research Expenditure</th>
</tr>
</thead>
<tbody>
<tr>
<td>CECE</td>
<td>5,606,257</td>
<td>4,870,352</td>
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<tr>
<td>CS (including CRCV)</td>
<td>2,745,824</td>
<td>4,095,704</td>
</tr>
<tr>
<td>ECE</td>
<td>5,953,908</td>
<td>3,641,872</td>
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<tr>
<td>IEMS</td>
<td>1,221,312</td>
<td>783,698</td>
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<tr>
<td>MAE (including CATER)</td>
<td>4,351,204</td>
<td>4,613,746</td>
</tr>
<tr>
<td>MSE/AMPAC</td>
<td>2,832,002</td>
<td>1,960,025</td>
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<tr>
<td>TOTAL</td>
<td>22,710,507</td>
<td>19,965,397</td>
</tr>
</tbody>
</table>
Haitham Al-Deek (CECE):
• Best Regional Transportation Systems Management and Operations (RTSMO) paper Award for 2013, Transportation Research Board RTSMO Committee, Jan. 2014

Issa Batarseh (EECS-ECE):

Amir Behzadan (CECE):
• Keynote Speaker, VI Conference on Information Technology and Communication in Construction (TIC 2013), Universidade Estadual de Campinas (UNICAMP), Campinas, Brazil, 2013.

Pamela McCauley (IEMS):
• 2013 Women of M2M: Top Women in Technology Award presented by Connected World Magazine in recognition of her contributions in technology, Chicago, IL, March 2014.

Necati Catbas (CECE):
• Elected Fellow, American Society of Civil Engineers (Dec. 2013)
• Elected Fellow, Structural Engineering Institute, 2014
• Elected to Executive Board of Society of Experimental Mechanics, 2013
• Received Certificate of Appreciation from the Institute of Structural Engineers, UK and Togji University (Oct. 2013)

Suryanarayana Challapalli (MAE):
• Selected as the first Jefferson Science Fellow from UCF to work at the U.S. Department of State in Washington, D.C. as a Senior Science Advisor to advise them on scientific policy matters.
• Was awarded the Certificate of Appreciation by the U.S. Department of State in Washington, D.C. for innovative, persistent, and dedicated efforts to advance scientific research collaboration between the U.S. and Iraq., 2013, pp.
• Invited to participate in the signing of MOU between the University of Missouri at Columbia and the Ministry of Higher Education and Scientific Research of the Government of Iraq. (Aug. 8, 2013)
• Invited to be the Chief Guest of the Inaugural Function of the Technical Fest ‘TECHNOZION’ at the National Institute of Technology, Warangal, India. (Dec. 26, 2013)
Ni-Bin Chang (CECE):
• Distinguished Visiting Fellowship Award from Royal Academy of Engineering, United Kingdom. (Feb. 20 - 28, 2014)

Quanfang Chen (MAE):
• Elected Fellow of American Society of Mechanical Engineering (Jan. 2014)

Damian Dechev (EECS-CS):
• Received the Best Paper Award at the 13th IEEE International Conference on Embedded Computer Systems: Architectures, Modeling, and Simulations (SAMOS XIII), 2013

Christopher Geiger (IEMS):
• Elected Vice President Southeastern Regional Institute of Industrial Engineers, Institute of Industrial Engineers (May 2013)

Ali Gordon (MAE):
• Received the Central Florida Engineer’s Week Award for Technical Excellence in Academica. (Feb. 2014)

Scott Hagen (CECE):
• Elected Fellow, American Society of Civil Engineers. (Oct. 7, 2013)

Charles Hughes (EECS-CS):
• Received the 2013 National Training and Simulations Associate Governor’s Award for Excellence in Modeling and Simulations. (Dec. 4, 2013)
• TeachLivE was selected by New Schools Venture Funds for 2013 Learning to Teach Impact Award., 2014

Linwood Jones (EECS-ECE):

Waldemar Karwowski (IEMS):
• Elected Chair of the Institute of Industrial Engineers (IIE) Council of Fellows. (2013)

Joseph LaViola (EECS-CS):
• 2014: ACM CHI 2014 Honorable Mention Paper (top 5 percent of all paper submissions).

Thomas Nedorost (EECS-CS):
• Faculty advisor and coach of the UCF Collegiate Cyber Defense Competition Team, which won the Raytheon National Collegiate Cyber Defense Competition, U.S. Department of Homeland Security and the Center for Assurance and Security at the University of Texas at San Antonio. First place among 10 teams selected from regional competitions. (April 2014).
FACULTY RECOGNITION

Nina Orlovskaya (MAE):
• Visiting Professor, Ecole Federale Polytechnique de Lausanne. (Aug. 2013 - April 2014)
• Visiting Professor, EMPA Federal Institute for Materials Testing and Research. (May - July 2014)

Ali Orooji (EECS-CS):
• Certificate of Achievement from the Director, North America Contests; ACM International Collegiate Programming Contest., 2013
• The UCF programming teams took 1st, 4th, 6th, 7th, 9th, 16th, and 35th places in the Southeast Regional of the Association for Computing Machinery’s International Collegiate Programming Competition, Associate for Computing Machinery. First Place among 49 teams in tier 1 of the contest. (Nov. 2013)
• The UCF Olympus Programming Team took second place and a gold medal in the North American Programming Contest, hosted by the University of Chicago and sponsored by Facebook, Groupon, Waterfront International, Stevens Capital Management, and Jane Street. Second Place among the 21 teams that qualified for the Association for Computing Machinery’s International Collegiate Programming Competitions World Finals., 2014

Jennifer Pazour (IEMS):
• Received the 2013 Young Investigator Award from the Office of Naval Research. (May 2014)
• Received the 2013 StartUp Grant from material Handling Institute.

Michael Proctor (IEMS):
• Received the William R. Jones Outstanding Mentor Award, Florida Education Fund. (Fall 2013)

Luis Rabelo (IEMS):
• Recognized by the American Society of Automotive Engineers with the Forest R. McFarland Award in Montreal, Canada. The award recognizes the individuals for their outstanding contributions to developing, collecting, and distributing technical information of value to society members through meetings, conferences, and professional development programs. (Sept. 2013)
• Received the Best Paper Award in the Engineering Management track of the Industrial and Systems Engineering Research Conference (ISERC)., 2014

Seetha Raghavan (MAE):
• Elected Associate Fellow of American Institute of Aeronautics and Astronautics., 2014

Sudipta Seal (MSE):
• Elected Fellow, National Academy of Inventors. (2014)
• Elected Fellow, American Institute of Medical and Biological Engineers. (2014)
• Received the Science Spectrum Trailblazers award, Beya STEM Global Comp Conference in Washington, D.C. (2013)

Marwan A. Simaan (EECS-ECE):
• Elected Fellow of the American Institute for Medical and Biological Engineering (AIMBE) for outstanding contributions to the technology of the left ventricular assist devices for patients with congestive heart failure. (2014)
Gita Sukthankar (EECS-CS):
- Best Poster Award at the IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining. (August 2013)

Kalpathy B. Sundaram (EECS-ECE):
- Elected Fellow of Electrochemical Society. (2013)
- Received the Institute of Electrical and Electronics Engineers 2013 Outstanding Student Branch Counselor Award. (2014)

Omer Tatari (CECE):
- Best Regional Transportation Systems Management and Operations Paper, Transportation Research Board of the National Academics. (January 9, 2014)

Damia Turgut and Ladislau Bölöni (EECS-CS):
- Received the Best Paper Award from IEEE International Conference on Communications (ICC-2013). (2013)

Wasfy Mikheal (EECS-ECE):
- Awarded Certificate of Appreciation by IEEE 56th International MWSCAS Organization Committee for Sustained Contributions to the success of the IEEE in int. MWSCAS at the conference banquet, Ohio State University, Columbus, OH. (August 5, 2013)
At the beginning of Fall 2013 the college had 126 faculty members including 10 new faculty members. These include three associate professors, two assistant professors, two lecturers, and three instructors.

**Reza Abdolvand, Associate Professor (EECS-ECE)**

Reza Abdolvand obtained his Ph.D. in Electrical and Computer Engineering from the Georgia Institute of Technology in 2008. He then worked as an Assistant Professor during August 2007 to July 2013, and as an Associate Professor from July - December 2013 at Oklahoma State University in Stillwater, Oklahoma. He joined UCF as an Associate Professor on Jan. 2, 2014. His research interests include Macro/Nano-Electro-Mechanical Systems (MEMS/NEMS), resonant devices for timing, signal processing and sensing, nano-engineering infrared sensors, micro-acoustics for biological sensing, and embedded wireless sensors. He is a member of the National Academy of Inventors, a NASA Patent Application Award winner in 2009, and received the Distinguished Reviewer Award from the Journal of Sensors and Actuators.

**Sarah K. Angell, Instructor (EECS-CS)**

Sarah Angell obtained a Master of Science degree in Computer Science from UCF in 2010. Since then, she has served the Division of Computer Science as an adjunct instructor and visiting instructor before becoming an instructor in 2015. She teaches courses such as Computer Logic and Organization, Introduction to Programming with C, and Managing Information Technology Integration. In addition, she now serves as an academic adviser for Information Technology undergraduate students.

**John D. Edison, Visiting Instructor (EECS-ECE)**

John Edison became a visiting instructor shortly after obtaining his MS in Computer Engineering from UCF in 2013. Before joining UCF as a visiting instructor he worked as a cloud architect for a local software company in Winter Park, FL. He has previously taught courses such as Electrical Networks, Engineering Analysis and Computation, and Computer Communication Networks. He is a founding member of the CECS Certification Program and actively serves as a co-director as well as the inaugural manager for the ECE Evaluation and Proficiency Center. In addition to his responsibilities as a visiting instructor he is working on acquiring his Ph.D. in Computer Science with a research focus of machine learning methods in bioinformatics.
Demetrios G. Glinos, Lecturer (EECS-CS)
Demetrios Glinos obtained his Ph.D. in Computer Science from UCF in 2006, while working as a Senior Research Scientist at Science Applications International Corporation (SAIC). Prior to this he worked as a Staff Engineer at Martin Aerospace in Denver, Colorado from 1980 - 1989. He practiced law during 1989 - 1999. More recently, Glinos was an instructor at Valencia College and visiting assistant professor at Stetson before joining UCF as a lecturer on Aug. 8, 2013. He teaches courses such as Evolutionary Computation, Security in Computing, and Computer Fundamentals for Business. He has been the CEO of Advanced Text Analysis, a company he founded to offer text analytics consulting services and solutions since 2011.

Justin O. Karl, Lecturer (MAE)
Justin Karl received his Ph.D. in Mechanical Engineering from UCF in 2013 after obtaining the B.S. and M.S. degrees in Aerospace Engineering from the Embry-Riddle Aeronautical University in Daytona Beach, Florida. His research interests include structural integrity, mechanics, aircraft/spacecraft design and space systems. He joined UCF as a lecturer on Jan. 2, 2014, even though he was teaching a few courses in the department earlier. He has also worked in the energy and aerospace industries. Dr. Karl’s passion is with the growing private space industry, which he supports through the aerospace courses he teaches, as well as industry, research, and non-profit ties.

Woo Hyoung Lee, Assistant Professor (CECE)
Woo Hyoung received his Ph.D. in Environmental Engineering from the University of Cincinnati in 2009. He worked as a postdoctoral research fellow at the Oak Ridge Institute for Science and Education (ORISE) Office of Research and Development, at the National Risk Management Research Lab, and the U.S. Environmental Protection Agency (EPA), Cincinnati, Ohio. He joined UCF as an Assistant Professor on Aug. 8, 2013. His research interests include micro/nanosensors for in situ biofilm and water quality monitoring, nitrification and bio-corrosion in water distribution systems, electrocoagulation for emulsion breaking, and algae biofuel feedstock generation separation. He was most recently awarded the InnoCentive Challenge Award, New Insights into Fluoride Delivery from Toothpaste (#9933557). One of three awardees among 287 submissions.
Hansen A. Mansy, Associate Professor (MAE)
Hansen Mansy received his Ph.D. in Mechanical and Aerospace Engineering from Illinois Institute of Technology, Chicago in 1990. His research interests include vibrational and acoustic phenomena in biological systems, acoustic models of soft tissues, flower induced vibrations, vibroacoustic sensors, electromechanical systems, digital signal processing, and biostatistics. He joined UCF on Aug. 8, 2013.

Nazanin Rahnavard, Associate Professor (EECS-ECE)
Nazanin Rahnavard received her Ph.D. in Electrical and Computer Engineering form the Georgia Institute of Technology in 2007. Her main area of expertise is in communications and networking areas. She is interested in modern error-control coding techniques and their applications, compressive sensing, cognitive radio networks, and ad-hoc sensing networks. Dr. Rahnavard received the NSF Career Award in 2011, and she is also the recipient of the 2007 Outstanding Research Award from the Center of Signal and Image Processing (CSIP) at Georgia Tech. She serves on the editorial board of the Elsevier Journal on Computer Networks (COMNET).

Karin A. Whiting, Instructor (EECS-CS)
Karin Whiting obtained her Master of Business Administration from Bellevue University in 2002 while working as a Senior Software Engineer at Northup Grumman. She obtained her Master of Science, Computer Information Systems from Bellevue University in 2009 while working as a Senior Software Engineer at Booz Allen Hamilton. Ms. Whiting obtained her Master of Science, Information System and Technology Management from Capella University in 2016 while working as an Instructor for the Department of Computer Science at UCF. Prior professional experience includes active duty military service with the United States Air Force from 1991 to 2000 as software analyst and programmer specializing in weather forecasting algorithms. Her military service was followed by employment with Northrup Grumman from 2000 to 2003 as a senior software engineer specializing in military intelligence training. Ms. Whiting worked for Booz Allen Hamilton from 2003 to 2009 as a consultant and senior software engineer specializing in military modeling and simulation. Prior to joining UCF she worked for Nova Technologies from 2009 to 2013 as a senior software engineer specializing in military modeling and simulation, flight simulators, and storage technologies. Ms. Whiting joined UCF as an instructor on January 6, 2014 teaching courses such as Concepts in Computer Science, Computer Science I, Human and Technology Interaction, Internet Applications, and Object Oriented Programming.
Qipeng Phil Zheng, Assistant Professor (IEMS)
Qipeng Phil Zheng obtained his Ph.D. in Operations Research from the University of Florida in 2010. Subsequent to his graduation, he worked as an Assistant Professor in West Virginia University in Morgantown from Aug. 2010 - Aug. 2013. He joined UCF on Aug. 8, 2013. His research interests include stochastic programming, integer programming, network optimization, global optimization, optimization in energy and environments and sustainability, operations research in healthcare, transportation planning, supply chain management, logistics, and dynamic traffic assignment. He has edited one book, and published five book chapters and several papers.
A total of 84 doctoral students have graduated in 2013-2014, resulting in a college Ph.D. productivity of 0.67 Ph.D.s per tenure/tenure-eligible CECS faculty.

<table>
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<tr>
<th>Year</th>
<th>Semester</th>
<th>Last Name</th>
<th>First Name</th>
<th>Program</th>
<th>Title</th>
<th>Advisors</th>
<th>Dept.</th>
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<tr>
<td>2013</td>
<td>Summer</td>
<td>Abich</td>
<td>Julian</td>
<td>Modeling &amp; Simulation</td>
<td>Investigating the Universality and Comprehensive Ability of Measures to Assess the State of Workload</td>
<td>Lauren Reinerman-Jones</td>
<td>IEMS</td>
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<td>2013</td>
<td>Summer</td>
<td>Ahmad</td>
<td>Mohamad Zubair</td>
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<td>Measuring the Evolving Internet Ecosystem with Exchange Points</td>
<td>Ratan Guha</td>
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<td>Christina</td>
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<td>A Methodology for Analyzing Systems of Systems to Evaluate Emergent System Behavior</td>
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<td>Halil</td>
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<td>Modeling of Socio-Economic Automata Simulation Events in an Active War Theater by using a Cellular Automata Simulation Approach</td>
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<td>Brawner</td>
<td>Keith</td>
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<td>Modeling Learning Mood in Real Time Biosensors for Intelligent Tutoring Improvement</td>
<td>Avelino Gonzalez</td>
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<td>2013</td>
<td>Summer</td>
<td>Cakit</td>
<td>Erman</td>
<td>Industrial Engineering</td>
<td>Investigating the Relationship Adverse Events and Infrastructure Development in an Active War Theater using Soft Computer Techniques</td>
<td>Waldemar Karwowski</td>
<td>IEMS</td>
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<td>Summer</td>
<td>Campbell- Wynn</td>
<td>Lillian</td>
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<td>Understanding the capabilities and limitations of advanced interactive M&amp;S: A Cricothyroidotomy Simulation Case</td>
<td>Michael Proctor</td>
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<td>Summer</td>
<td>Charbonneau</td>
<td>Emiko</td>
<td>Computer Science</td>
<td>Bridging the Gap Fun and Fitness: Instructional Techniques and Real-World Applications for Full-body Dance Games</td>
<td>Charles Hughes, Joseph LaViola</td>
<td>EECS</td>
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<td>2013</td>
<td>Summer</td>
<td>Chen</td>
<td>Li</td>
<td>Electrical Engineering</td>
<td>A Novel Non-Linear Mason Model and Non-Linear Characterization for Surface Acoustic Wave Duplexers</td>
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<tr>
<td>Year</td>
<td>Season</td>
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<td>Major</td>
<td>Title</td>
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<td>Summer</td>
<td>Elva Rochelle</td>
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<td>Detecting Semantic Method Clones in Java Code using Method IOE-Behavior</td>
<td>Gary Leavens</td>
<td>EECS</td>
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<td>2013</td>
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<td>Esmaeilian Behzad</td>
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<td>Total Ownership Cost Modeling of Technology Adoption using System Dynamics: Implications for ERP System</td>
<td>Waldemar Karwowski</td>
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<td>2013</td>
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<td>Fang Yuming</td>
<td>Environmental Engineering</td>
<td>Study of the Effect of Surface Morphology on Mass Transfer and Fouling Behavior of Reverse Osmosis and Nanofiltration Membrane Processes</td>
<td>Steven Duranceau</td>
<td>CECE</td>
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<td>2013</td>
<td>Summer</td>
<td>Gibson Jason</td>
<td>Mechanical Engineering</td>
<td>Nano-Particles in Multi-Scale Composites and Ballistic Applications</td>
<td>Jihua Gou</td>
<td>MAE</td>
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<td>2013</td>
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<td>Jiang Hong</td>
<td>Modeling &amp; Simulation</td>
<td>A System Dynamics Model for Manpower and New Technology Implementation Trade-off and Cost Estimation</td>
<td>Waldemar Karwowski</td>
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<td>Karl Justin</td>
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<td>Thermomechanical Fatigue Life Prediction of Notched 304 Stainless Steel</td>
<td>Ali Gordon</td>
<td>MAE</td>
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<td>2013</td>
<td>Summer</td>
<td>Odeh Khaled</td>
<td>Industrial Engineering</td>
<td>A Framework for Measuring Innovation Within the Context of a Defense Organization</td>
<td>Ahmad K Elshennawy, Luis Rabelo</td>
<td>IEMS</td>
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<tr>
<td>2013</td>
<td>Summer</td>
<td>Ramme Mark</td>
<td>Electrical Engineering</td>
<td>Ultrafast Laser Material Processing for Phototonics Applications</td>
<td>Martin Richardson</td>
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<td>Reeder John</td>
<td>Computer Engineering</td>
<td>Life Long Learning in Sparse Learning Environments</td>
<td>Michael Georgiopoulou</td>
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<td>Robinson-Bryant Federica</td>
<td>Industrial Engineering</td>
<td>Defining a Stakeholder-Relative Model to Measure Academic Department Efficiency at Achieving Quality in Higher Education</td>
<td>Jose Sepulveda</td>
<td>IEMS</td>
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<tr>
<td>Year</td>
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<td>Name</td>
<td>Field</td>
<td>Title</td>
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64. Lang, A. and K.O. Stanley, “NeuroEvolutionary Meta-optimization,” Proceedings of the International Joint Conference on Neural Networks, Dallas, TX, August 4-9, 2013, pp. 1-8. DOI: 10.1109/IJCNN.2013.6707097


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16. Bai, Y., M. Alawad, M. Riera, and M. Lin, “Improving Memory Performance in Reconfigurable Computing Architecture through Hardware-assisted Dynamic Graph,” Proceedings of the International Conference on Reconfigurable Computing and FPGAs, Cancun, Mexico, December 9-11, 2013, pp. 1-8. DOI:10.1109/ReConFig.2013.6732300

18. Chehata, R., W. B. Mikhael, and M. M. Abdelwahab, “Transform Domain Two Dimensional and Diagonal Modular Principal Component Analysis for Facial Recognition Employing Different Windowing Techniques,” Proceedings of the 56th International Midwest Symposium on Circuits and Systems, Columbus, OH, August 4-7, 2013, pp. 1104-1107. DOI:10.1109/MWSCAS.2013.6674845


38. Huang, Y., C. Li, M. Georgiopoulos, and G.C. Anagnostopoulos, “Reduced-rank Local Distance Metric Learning,” Proceedings of the European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases, Prague, Czech Republic, September 23-27, 2013, pp. 224-239. DOI:http://dx.doi.org/10.1007/978-3-642-40994-3_15


54. Lin, M., S. Cheng, and J. Wawrzynek, “Extracting Memory-level Parallelism through Reconfigurable Hardware Traces,” Proceedings of the International Conference on Reconfigurable Computing and FPGAs, Cancun, Mexico, December 9-11, 2013, pp. 1-8. DOI:10.1109/ReConFig.2013.6732290


73. Sapijaszko, G.I. and W.B. Mikhail, “Robust Speaker Recognition System Employing Covariance Matrix and Eigenvoice,” Proceedings of the 56th International Midwest Symposium on Circuits and Systems, Columbus, OH, August 4-7, 2013, pp. 1116-1119. DOI:10.1109/MWSCAS.2013.6674848


91. Ying, L. and W. B. Mikhael, “Efficient Implementations of Complex Block Conjugate Gradient LMS with Individual Adaptation,” Proceedings of the 56th International Midwest Symposium on Circuits and Systems, Columbus, OH, August 4-7, 2013, pp. 1403-1406. DOI:10.1109/MWSCAS.2013.6674919


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**Applied Materials** - Applied Materials, Inc. is the global leader in materials engineering solutions for the semiconductor, flat panel display and solar photovoltaic industries. Their technologies help make innovations like smartphones, flat screen TVs and solar panels more affordable and accessible to consumers and businesses around the world. They provided funding to the Applied Materials Lab and the work of Wei Weiwei Deng.

**Beverly J. Seay** - Seay has been involved with CECS for many years. She has personally given to the College and UCF for seven years, most recently supporting a significant planned gift to be used toward an endowed professorship and programs supporting women in engineering. Seay serves on the UCF Board of Trustees and is chair of the CECS Dean’s Advisory Board.

**David J. Bettner** - Bettner is a Computer Science alumnus of UCF and is most noted for co-creating “Words with Friends.” His interest is in providing access to computer science education, to encourage more diversity and varying socio-economic groups to go into related fields. He is funding access to summer camps for high-school students from around the nation over the next five years.

**Duke Energy Foundation** – Duke is the largest electric power holding company in the United States, supplying and delivering energy to approximately 7.3 million U.S. customers. They support annually the Engineering Leadership and Innovation Institute (eli²) Leaders Up Close Seminar Series, a symposium on renewable and sustainable energy, senior design projects, and undergraduate research experiences through the EXCEL Program.

**Eustace-Kwan Family Foundation** – This foundation was created by UCF Computer Science alumnus Alan Eustace, former senior vice president at Google, and his wife, Kathy Kwan, to satisfy their philanthropic giving preferences. The family has been giving generously to UCF for eight years in support of the UCF Computer Programming Team. Funds benefit students on the team, so they may concentrate on practicing hundreds of hours a year in preparation for regional and international competitions; and pay for lab upgrades and coaches.
Ed Bailey/Gist, Inc. - Ed Bailey led the non-profit Global Institute for Scientific Thinking. He supported UCF Computer Science professor, Ken Stanley with flexible funding to enhance his research work in human/computer interaction.

Harris Corporation - Harris has been a long-standing supporter of UCF in many different ways, including a major gift to name the Harris Corporation Engineering Center at UCF. Harris has also sponsored on-campus networking events, and senior design capstone projects of graduating seniors, providing students mentorship and opportunities to solve real-world engineering problems. UCF is the top workforce supplier to Harris.

Juan O. Rodriguez - Rodriguez provided generous, flexible, funding in support of the Engineering Leadership & Innovation Institute to enhance the program and help grow its impact.

Lockheed Martin - The company’s College Work Experience Program (CWEP) supported approximately 500 students in paid, two-semester internships providing them an opportunity to gain professional work experience related to their academic discipline while maintaining full-time university enrollment.

Presagis USA - Presagis is a global provider of software for the development of modeling, simulation, visualization, and embedded display applications. The company donated their software package to support the graduate-level Interactive Simulation course in CECS.

Siemens Energy, Inc. - Siemens is pioneering strategies and innovative solutions for energy generation pave the way for an intelligent power supply worldwide. This year the company donated equipment in support of a variety of research initiatives in CECS.

Texas Instruments - The company's analog and embedded processing unit produces power electronics across every industry. TI supports senior design teams including providing TI components.

The Boeing Company - Boeing is the world’s largest aerospace company and leading manufacturer of commercial jetliners and defense, space and security systems. Each year, Boeing funds scholarships, senior design projects, and undergraduate research experiences in CECS.
Civil, Environmental and Construction Engineering

Taylor Laurent
- Received the James M. Robbins Excellence in Teaching Award, Chi Epsilon Civil Engineering Honor Society. The chapter was also recognized at the 2014 Conclave in Salt Lake City, Utah with the Susan C. Brows Outstanding Performance Award., 2014

Daniela Sanchez
- National Scholarship (Focht), Chi Epsilon. (2012-2013)

Johnathan McCarthy
- Won the Student Outstanding Service Award, ASCE Florida Section Awards. (2013)

Travis Henrique
- Won the Student Leader Award, ASCE Florida Section Awards. (2013)

Amir Behzadan
- Won the Outstanding Faculty Advisor Award, ASCE Florida Section Awards. (2013)

Andrea Cumming
- First Place “Water Bowl Competition” 2013 American Water Works Association/Florida Section Conference and Exhibits. ChampionsGate, Florida. (Dec. 2013)

Erica LaBerge
- First Place “Water Bowl Competition” 2013 American Water Works Association/Florida Section Conference and Exhibits. ChampionsGate, Florida. (Dec. 2013)

David Yonge
- First Place “Water Bowl Competition” 2013 American Water Works Association/Florida Section Conference and Exhibits. ChampionsGate, Florida. (Dec. 2013)

P. Biscardi and S.J. Duranceau
- First Place for Best Student Oral Presentation at the Global Waste Management Symposium, Orlando, Florida, June 22-25, 2014
- 2013 ATHENA International Emerging Women Leader Fellowship

UCF Institute of Transportation Engineers (UCF-ITE)
- Student chapter received a $500 cash award from the Central Florida ITE Professional Chapter during this reporting period.
STUDENT AWARDS AND ACHIEVEMENTS

Computer Science

The Collegiate Cyber Defense Competition (CCDC) Team
- Won the Southeast Regional Competition for the second year in a row. The team has been established for two years. At the regional they also won awards for: Best in Business and Best in Defense. The team members were: Carlos Beltran (Team Captain), Jason Cooper (Team Co-Captain), Austin Brogle, Alexander Davis, Kevin DiClemente, Dale Driggs, Grant Hernandez, Mark Ignacio, Heather Lawrence, Cody McMahon, Troy Micka, and Joe Pate.

- Won the Raytheon National Collegiate Cyber Defense Competition. UCF was named the Southeast Regional Champion just this past March, and competed against nine other regional champions from around the country during the National Competition from April 25-27. Thomas Nedorost, a faculty member in the Computer Science Division, is the faculty advisor.

Center for Research in Computer Vision
- Students developed a facial recognition tool that promises to be useful in rapidly matching pictures of children with their biological parents and in potentially identifying photos of missing children as they age.

UCF Programming Team
- Competed in the World Finals of the ACM International Programming Competition. Finished 3rd in North America (USA and Canada) and 21st worldwide in, beating teams from schools such as MIT, Stanford, and Carnegie Mellon. The team members competing in Finals were: Antony Stabile, Travis Meade, and Daniel Wasserman.
Electrical and Computer Engineering

Irina Bouzina
• AT&T Wireless Scholarship recipient. (2013 - 2014)

Nicholar Dikhoffz
• AT&T Wireless Scholarship recipient. (2013 - 2014)

Daniel Franco
• AT&T Wireless Scholarship recipient. (2013 - 2014)

Kelley Ice
• AT&T Wireless Scholarship recipient. (2013 - 2014)

Fatemeh Yazdiananari
• AT&T Wireless Scholarship recipient. (2013 - 2014)

Cassandra Todd
• Boeing Scholarship recipient. (2013 - 2014)

Nancy Zanaty
• Boeing Scholarship recipient. (2013 - 2014)

Joseph Nichols
• CECS Alumni Chapter Scholarship recipient. (2013 - 2014)

James Choi
• Daniel D. Hammond Engineering Scholarship (Undergraduate) recipient. (2013 - 2014)

Jorge Guerra Marin
• Daniel D. Hammond Engineering Scholarship (Undergraduate) recipient. (2013 - 2014)

Wesley Mullins
• Daniel D. Hammond Engineering Scholarship (Undergraduate) recipient. (2013 - 2014)

Benjamin Truckenbrod
• Daniel D. Hammond Engineering Scholarship (Undergraduate) recipient. (2013 - 2014)

Brian Millikan
• Daniel D. Hammond Engineering Scholarship (Graduate) recipient. (2013 - 2014)

Nicholas Paperno
• Daniel D. Hammond Engineering Scholarship (Graduate) recipient. (2013 - 2014)

Yu Bi
• David and Jane Donaldson Memorial Scholarship recipient. (2013 - 2014)

Benjamin Goolsby
STUDENT AWARDS AND ACHIEVEMENTS

David Steury

Frank Hubbard

Ivette Carreras
- Engineering Endowed Scholarship recipient. (2013 - 2014)

Ly Nguyen
- Gerald R. Lanston Endowed Scholarship recipient. (2013 - 2014)

Ley Nezifort
- NACME Scholarship recipient. (2013 - 2014)

Gretha Arrage Chico
- NACME Scholarship recipient. (2013 - 2014)

Darrel Thompson
- NACME Scholarship recipient. (2013 - 2014)

Victor Bassey
- NACME Scholarship recipient. (2013 - 2014)

Jonathan Obah
- NACME Scholarship recipient. (2013 - 2014)

Ahkeim Pierre
- NACME Scholarship recipient. (2013 - 2014)

Dominique Benito
- NACME Scholarship recipient. (2013 - 2014)

Robert Simon
- NACME Scholarship recipient. (2013 - 2014)

Dominique Benito
- Walt Disney World Scholarship recipient. (2013 - 2014)

Muhtasim Jayeed
- Walt Disney World Scholarship recipient. (2013 - 2014)

Shawn Mahon
- Walt Disney World Scholarship recipient. (2013 - 2014)

Laura Rubio-Perez
- Walt Disney World Scholarship recipient. (2013 - 2014)

Carla Majluf
- FGLSAMP Scholarship recipient. (2013 - 2014)
STUDENT AWARDS AND ACHIEVEMENTS

Industrial Engineering and Management Systems

Talayeh Razzaghi
- Math Matters, Apply it! Honorable mention The Math Behind...Healthcare Data Analytics Research. (2013 - 2014)
- Student Case Study Competition, Team Winner IIE Health-care Systems Process Improvement Conference.

Yiling He
- Student Case Study Competition, Team Winner IIE Health-care Systems Process Improvement Conference

Alpha Pi Mu National Honor Society, UCF Student Chapter
- Second place nationally in the Most Outstanding Chapter in 2012- 2013

Anne Marie Pereira
- Awarded the Loading Dock Equipment Manufacturers Honor National Scholarship in the amount of $1,500 for the 2014/2015 academic term Material Handling Education Foundation, Inc. (May 2014)

Brandon Finley
- Awarded the Institute of Caster & Wheel Manufacturers Honor National Scholarship in the amount of $1,500 for the 2014/2015 academic term. Material Handling Education Foundation, Inc. (May 2014)

Whitney Anderson
- Awarded $1000 statewide scholarships from the Council of Supply Chain Management Professionals Central Florida Roundtable for the 2014/2015 academic term. (May 2014)

Chris Huber
- Awarded $1000 statewide scholarships from the Council of Supply Chain Management Professionals Central Florida Roundtable for the 2014/2015 academic term. (May 2014)

Alpha Pi Mu, UCF Chapter
- Participated in Knights Give Back, which is the University of Central Florida’s day of service. Our organization partnered with Clean the World, a sustainability company that takes used soap from Orlando’s resorts and hotels and recycles and sterilizes them. They then donate the soap to impoverished people to help in the prevention of hygiene-related illness and death.

University of Central Florida Institute of Industrial Engineers, Student Chapter
- Hosted the 2014 Southeastern Regional Student Conference involved IIE student chapters at 14 colleges and universities in the region.