



2014 - 2015 CECS Faculty Accomplishments

COLLEGE OF ENGINEERING & COMPUTATIONAL SCIENCES
COLORADO SCHOOL OF MINES

Society Honors

- Vaughan Griffiths (CEE)** was awarded the Thomas C. Keefer Medal from the Canadian Society for Civil Engineering
- Candace Sulzbach (CEE)** and the CSM ASCE student chapter received a Certificate of Commendation from the National ASCE Committee.
- Stephen Pankavich (AMS)** was named Treasurer of the Central Section of the Society for Industrial and Applied Mathematics.
- Tzahi Cath (CEE)** received the 2014 Water Reuse CO award for Educational Program of the Year.
- Robert Amaro (ME)** will be awarded the National Institute of Standards and Technology Bronze Medal in November 2015.
- Michael Wakin (EECS)** was elevated to the grade of Senior Member of the IEEE.
- Salman Mohagheghi (EECS)** was promoted to the grade of IEEE Senior Member.
- Kathryn Johnson (EECS)** was selected to take part in the National Academy of Engineering's fifth Frontiers of Engineering Education (FOEE) symposium.
- Stephanie Claussen (EECS)** was selected for the National Academy of Engineering's Frontiers of Engineering Education symposium.
- Norman Bleistein (AMS)** received the 2014 Maurice Ewing Medal from the American Geophysical Union.

Editorships

- Willy Hereman (AMS)** was named Honorary Editor for the International Journal of Computational Mathematics and Numerical Simulation.
- Paul A. Martin (AMS)**, has been appointed as the Editor-in-Chief of the SIAM Journal of Applied Mathematics
- Tissa Illangasekare (CEE)** was appointed as one of the seven Associate Editors of J. of Environmental Fluid Mechanics published by Springer.
- Barbara Moskal (AMS)** was appointed to Senior Associate Editor, Journal of Engineering Education.
- Paul Martin (AMS)** was appointed as an Associate Editor of the Journal of Ocean Engineering and Marine Energy.
- Willy Hereman (AMS)** was named Honorary Editor for the Arab Journal of Mathematics and Mathematical Sciences.
- Stephen Pankavich (AMS)** was appointed to the editorial board of AIMS Molecular Science.
- Linda Figueroa (CEE)** Appointed as Associate Editor of the Mine Water Environment Journal of the International Mine Water Association in 2014.
- Dinesh Mehta (EECS)** was a guest editor for a special issue of the journal "VLSI Design" on "New Algorithmic Techniques for Complex EDA problems."
- Atef Elsherbeni (EECS)** served as Editor-in-Chief for the ACES journal.
- Tracy Camp (EECS)** was invited to be an Academic Editor for PeerJ Computer Science, a new open access journal.

Keynote / Plenary

- Kevin Moore (EECS)** was invited as the Plenary Speaker at the 7th International Symposium on Resilient Control Systems, Resilience Week 2014, Denver, CO. Talk entitled, "A Dynamic Network Perspective on Resilient Control."
- Linda Figueroa (CEE)** was invited to give the Keynote Address at the International Mine Water Association Annual Conference in 2014.
- Robert Key (ME)** was invited to give the Plenary Lecture at the Office of Naval Research Naval Future Force Science & Technology EXPO, held Feb. 4-5, 2015 in Washington D.C. Talk entitled, "Multidisciplinary and multi-scale research supports the development of electrochemical power sources."

Awards

- Tracy Camp (EECS)** received the Mines Senior Research Excellence Award for 2015
- Tzahi Cath (CEE)** has been selected as one of two Ben L. Fryrear Professors in CECS.
- Mike Wakin (EECS)** has been selected as one of two Ben L. Fryrear Professors in CECS.
- Aaron Stebner (ME)** received a **2015 NSF CAREER Award** for his research, "In-situ Advancements for Study of Multi-axial Micromechanics of Solid Materials."
- Kate Smits (CEE)** received a **2015 NSF CAREER Award** for her research, "Advancing the Science and Education of Land Surface-Atmosphere Interactions: Interweaving Multiscale Experimental and Modeling Approaches for Land Surface Models and Experiential Learning."
- Becky Swanson (AMS)** has received one of the two Faculty Martin Luther King Jr. Awards for 2015.
- Candace Sulzbach, (CEE)** was awarded the Mines Distinguished Achievement Medal, and has also become an ASCE Fellow, as of January 2015.
- Cristian Ciobanu, (ME)** has been awarded the status of Fellow of the Institute of Physics in the U.K.
- Marcelo Simoes (EECS)** was named a Fulbright Fellow to conduct research at Aalborg University in Denmark.
- Paul Martin (AMS)** received the Dean's Excellence Award
- Douglas Van Bossuyt (ME)** won the Nuclear Regulatory Commission Early Faculty Development Award, in collaboration with **Cory Ahrens (AMS)**, to help push forward our Nuclear Science and Engineering program.
- Cecilia Diniz Behn (AMS)** was won one of the Children's Hospital of Colorado/CSM collaboration pilot award.
- John Spear (CEE)** was nominated for the both the 2014 & 2015 Environmental Protection Eni Award from the Eni Foundation, Italy.
- Dejun Yang (EECS)** assistant professor was selected to receive the 2014 Outstanding PhD Award for Computer Science at Arizona State University.
- Kathryn Johnson (EECS)** was nominated for CU-Boulder Outstanding Alumni Award.
- Junko Munakato (CEE)** received the Jenni Fellowship.

Book Publications

- Atef Elsherbeni (EECS)** and **Payam Nayeri (EECS)** : *Antenna Analysis and Design Using FEKO Electromagnetic Simulation Software.*
- Paul Constantine (AMS)** : *Active Subspaces: Emerging Ideas for Dimension Reduction in Parameter Studies.*
- Vaughan Griffiths' (CEE)** co-authored textbook, *Programming the Finite Element Method*, was re-released for a 5th print run.
- Marcelo Simoes' (EECS)** co-authored textbook, *Modeling and Analysis with Induction Generators*, was re-released as a third edition.

Leadership

- Terri Hogue (CEE)** was named Director of the new ConocoPhillips Center for a Sustainable WE²ST (Water-Energy Education, Science and Technology), with **John McCray (CEE)** as Deputy Director.
- Terri Hogue (CEE)** has been named as the new Director of Mines Interdisciplinary Hydrologic Science & Engineering (HSE) program.
- Atef Elsherbeni (EECS)** was named President of the Applied Computational Electromagnetics Society.
- Marcelo Simoes (EECS)** will serve as the first Chairman of the newly approved Industrial Electronics Society Chapter in IEEE's Denver section.
- Terri Hogue (CEE)** was reelected as the Secretary of the AGU Hydrology Section for 2015- 2016
- Aaron Stebner (ME)** was elected to the International Advisory Board of the International Conference on Martensitic Transformations, and also named Chair of their next conference, to be held in 2017.
- Terri Hogue (CEE)** was elected Secretary of the Hydrology Division of the American Geophysical Union.
- Tissa Illangasekare (CEE)** has been appointed to the Nuclear and Radiation Studies Board.
- Linda Figueroa, (CEE)** was elected to the Executive Council of the International Mine Water Association for 2014-2017.
- Vaughan Griffiths (CEE)** served as the sole US partner-investigator in the Australian Research Council Centre of Excellence for Geotechnical Science and Engineering based at the University of Newcastle, Australia.
- Randy Haupt (EECS)** was appointed Finance Chair for the Applied Computational Electromagnetics Society, and named IEEE AP-S representative to the National Academy of Engineering National Radio Science Committee.
- Atef Elsherbeni (EECS)** served as the chair of the 2014 IEEE International Symposium on Antennas and USNCURSI Radio Science Meeting.
- Tissa H. Illangasekare (CEE)** was named the President-Elect of the International Society for Porous Media (InterPore) and will subsequently become InterPore President in April 2017.
- John Spear (CEE)** is part of a team that the NASA Astrobiology Institute has awarded a more than \$7 million to study rock-powered life.
- Aaron Stebner (ME)** was elected President of the ASM International Organization on Shape Memory and Superelastic Technologies (ASM-SMST).

Noted Papers

- Vaughan Griffith's (CEE)** paper, Slope stability analysis by finite elements, was named one of the five most cited papers of all time by Geotechnique.
- Ozkan Celik's (ME)** manuscript, titled "Systematic review of Kinect applications in elderly care and stroke rehabilitation," in the Journal of NeuroEngineering and Rehabilitation and ranks 1st among 231 articles in this journal tracked by Altmetric.
- John McCray, (CEE)** was awarded the 2014 Rudolph Hering Medal by the American Society of Civil Engineers Environmental and Water Resources Institute for the paper, "Characterization of Bulk Fluid and Transport Properties for Simulating Polymer-Improved Aquifer Remediation," published in the Journal of Environmental Engineering.
- Bill Hoff (EECS)** and his graduate student Jim Howard won the Best Paper Runner up award at the BigMine 13 workshop in Chicago, Illinois for their paper, forecasting Building Occupancy Using Sensor Network Data."