



CECS Newsletter – June 2014

News

In August, **Mechanical Engineering** professors **Douglas Van Bossuyt, Cameron Turner, Jered Dean** and **Jenifer Blacklock** will be teaching a five-day professional workshop that aims to help build Mines as a major player in additive manufacturing research and learning. The Additive Manufacturing Summer Institute offers courses geared toward mechanical engineering professionals, and is focused on educating practicing engineers on the 3D printing process and design for additive manufacturing. The full story on this course is on the Mines Newsroom <http://minesnewsroom.com/news/mines-offer-new-additive-manufacturing-courses>

Hydrology PhD students **Kristin Mikkelsen** and **Skuyler Herzog** of the **Civil and Environmental Engineering** Department at Mines both won the Farvolden Scholarship Award for best student presentation at the National Ground Water Association Summit conference, held this year in Denver. Kristin works with **Profs. Josh Sharp** and **John McCray**, and **Skuyler** is co-advised by **Chris Higgins** and **John McCray**.

ASCR Discovery just published a profile of **Paul Constantine** of the **Applied Mathematics and Statistics** Department on his active subspaces project in their "New Faces" section entitled "Exploring hidden structures to slash computational cost. New Faces profiles rising researchers and new leaders who will drive scientific computing in the days ahead. You can read the article about Paul and his DOE sponsored project at <http://ascr-discovery.science.doe.gov/newfaces/constantine1.shtml>

Professor Paul A. Martin has been appointed as the Editor-in-Chief of the SIAM Journal of Applied Mathematics, the oldest (1953) and one of the most prestigious journals of the Society for Industrial and Applied Mathematics (SIAM). The appointment will start on July 1, 2014 and is for an initial period of 2.5 years. Paul has been affiliated with the journal, first as Associate Editor and then Section Editor, since 2004.

The Woodrow Wilson National Fellowship Foundation announced the 2014 Woodrow Wilson Indiana Teaching Fellows. Among them is Colorado School of Mines' **Andrew Cook** ('14, **Computational and Applied Mathematics**).

As a Woodrow Wilson Teaching Fellow, Mr. Cook will receive a \$30,000 stipend to complete a special intensive master's program at Purdue University that will prepare him to teach math and/or science in Indiana's urban and rural public schools. Learn more about Mr. Cook here: <http://woodrow.org/fellowship-page/2014-indiana-bios/#Cook>.

Andrew Cook was also the Outstanding Graduating Senior and the recipient of the Ryan Sayers Memorial Award in the **AMS** Department this May. Prof. **Barbara Moskal** comments: "Andrew is always the first to volunteer for outreach events. This reflects his passion for stimulating the next generations' interests in STEM education. The teachers with whom he has worked continually praise his efforts. Prof. **Willy Hereman** adds: "I had the privilege to work with Andrew as a student in the Research Experiences for Undergraduates (REU) program supported by the National Science Foundation. Andrew helped me design a new algorithm and *Mathematica* code to compute solutions. Andrew performance on the project was outstanding.

CECS students participated in the inaugural National Collegiate Wind Competition hosted by DOE and NREL. This competition was in conjunction with AWEA's (American Wind Energy Association) annual convention in Las Vegas. Team members include **Alex Dell (ME), Zachary Weber (ME), Jyoti Gandhi (ME), Kelsey Wokasch (CEE), Aaron Troyer (ME), Kate Rooney (ME), Cabe Bonner (EECS), Kevin Tan (ME), and Jeremy Webb (ME)**. Faculty advisors are **Cameron Turner (ME)**, and **Kathryn Johnson (EECS)**.

CSM finished T-8th in the Wind Tunnel Testing Competition.

They finished 7th in the Design Review Competition.

They finished 5th in the Business Plan Competition (note, there are no business majors on the team).

They finished 4th in the Market Issues Competition.

They finished 2nd with 63 votes in the People's Choice Public Business Pitch Presentation.

Overall, the team finished 7th, Penn State won the competition, followed by Kansas and James Madison.

Their project can be seen at <http://zephyrus.mines.edu/index.shtml>

Fiscal Items

A new travel and pcard system will be implemented in the next few months. The plan is for CASE to be implemented in September, CECS in October, and CERSE in November. More information and training will be provided as the implementation gets closer.

A new Foundation fund certification process is going into place for FY2013-14 activity. Preliminary reports were sent to foundation fund managers for review and corrections. Final certifications will take place in mid-July and the turnaround time will be about a week. If you received a preliminary report and have not yet reviewed the activity, please take the time to review the details prior to next month's certification.