September 2016

M & M Academy Newsletter

Dear M&M Academy Members,

Greetings and salutations! We are heading into the home stretch for 2016 and my how this year has flown by it seems.

At our last meeting we met with interim Vice Provost and Dean for the College of Engineering and Computing Dr. John Myers. Academy members had several excellent questions for interim Dean Myers including the selection process for the new Mining and Nuclear Engineering Chair. Since our meeting Dr. Richard Brow has been named interim Vice Provost and Dean for the College of Engineering and Computing effective July 15, 2016. Dr. Myers, professor of civil, architectural and environmental engineering and Associate Dean of the College of Engineering and Computing will return to his duties as Associate Dean.

Dr. Brow is a Curators' Professor of materials science and engineering at Missouri S&T. A member of the Missouri S&T faculty since 1998, Dr. Brow previously served as Chair of the Materials Science and Engineering Department.

“Dr. Brow’s prior experience leading the Materials Science and Engineering Department, combined with his record of exceptional research and service to the university, make him a good fit to serve as interim Vice Provost and Dean,” says Dr. Robert Marley, Provost and Executive Vice Chancellor for Academic Affairs. “I appreciate his willingness to serve in this position as we prepare to conduct a national search for the Vice Provost and Dean position”. The search is scheduled to start this fall.

Also since our last meeting, Dr. Braden T. Lusk has been named Chair of Mining and Nuclear Engineering effective Aug. 15, 2016. Dr. Lusk was a professor of mining engineering at the University of Kentucky and is a two-time graduate of Missouri S&T.

“Dr. Lusk brings a strong track record of research and teaching experience to Missouri S&T, and as one of our own graduates, he’s very familiar with the excellence of our university’s Mining and Nuclear Engineering programs,” says Dr. Robert Marley, Provost and Executive Vice Chancellor for Academic Affairs at Missouri S&T. “I’m confident that he will bring the leadership and vision to lead our excellent mining and nuclear programs to even greater stature in the future.”

Through the efforts of our Strategic Planning Committee and our Student Affairs and Scholarships Committee, we kicked off our first meeting with student group leaders over lunch at our meeting. We requested they provide contact information, their top 3 priorities and how the Academy may be of assistance to their organization. More to come on this topic.

Please put our next meeting, October 14, 2016, on your calendar now and plan to attend! We will receive an update on the Academy’s 5-year Strategic Plan and our progress.

I look forward to continuing to fulfill our mission, around “Recognition”, “Consultancy”, “Ambassadorship” and “Support”.

Gregory D. Skannal
Chair, Mines and Metallurgy Academy

Chair's Corner

Dr. Braden Lusk announced as new Chair MNE as of August 15, 2016

Dr. Kyle Perry joins the faculty as an Assistant Professor in Explosives Engineering. He is taking the position left vacant by Dr. Baird starting Fall 2016.

The Mining and Nuclear Engineering Department is entering a new era in 2016. The programs housed within the department will be working on strategically focusing energy and resources on producing quality Engineers.

October 14, 2016
Mines and Metallurgy Academy
Missouri / Ozark RM, Havener Center
Business Meeting: 8:00 AM to 3:00 PM

Kennedy Experimental Mine Building

Dedication Ceremony Scheduled for October 14th at 4:30 PM. The building will not be completed, but homecoming is a great opportunity to share the progress with Alums in town for the weekend.

Additional room and lab naming opportunities are available. Considerations for lab equipment within the building is underway.

New Energetics Research Facility is also now complete. Contact us if you would like a tour.
Laboratory

Spring 2014: GSE Growth Continues

- 698 Total GSE Students
- 437 Undergrad Students (includes FEP)
  - 104 G&G / 97 GE / 236 Petroleum
- 169 Graduate Students (on campus)
  - 61 G&G / 38 GE / 70 Petroleum
- 92 Ft Wood/Distance GE Grad Students

$2.2 Million GSE Dept FY 2013 Research Expenditures

GSE Benefits from Campus Strategic Plan

- $2.3 Million GSE Dept FY 2013 New Research Awards

The S&T campus conducted a campus-wide strategic planning effort during the 2012-13 academic year. GSE was awarded funds from two competitive initiatives from this plan.

Malaysia Exchange Program
Petroleum Engineering students Caitlin Darnall and Colin Woolums are in Malaysia at UTP in Spring 2014. At right Caitlin takes a bite of Durian, a very strange local fruit.

GSE has the Most Female Students at S&T

- Geol Sci and Engrg (147 females)
- Biological Sciences (139)
- Civil, Arch E and Envir E (131)
- Mechanical and Aero (11)
- Chemical Engrg (104)

GSE: Now the 3rd Largest Dept at S&T

AWARDS

2016 ASM International Undergraduate Design Competition - 2nd Place Award
Reduction of the Adhesion of Fayeite Bearing Scales (Silicon Scales) in CSP Steel Mill Production
Adam Schmitz, Mark Emmonada, Charles Campbell, Cameron Rudolph
Faculty Adviser: Dr. Mark Schluepinger
Industrial Sponsor: Nucor Steel - Indiana
Industrial Contact: John Lowry

Interim Dean Dick Brow
N. F. McDowell Award
J. of Non-Crystalline Solids

The Materials Science and Engineering Department is pleased to announce the 2015-2016 awards presented at the annual spring banquet sponsored by the Keramos and Materials Advantage Student groups.

Dr. Von Richards: Outstanding Metallurgy Professor Award
Dr. Wayne Huebner: Outstanding Ceramic Professor Award
Outstanding Undergraduate Ceramic Student Award: Elizabeth Robinson
Outstanding Undergraduate Metallurgy Student Award: Margaret Scott
Outstanding Graduating Ceramic Undergraduate Student: Michael Walden
Outstanding Graduating Metallurgy Undergraduate Student Award: Anna Brezhe
Outstanding Ceramic Graduate Student Award: Ryan Dolemeier
Outstanding Metallurgy Graduate Student Award: Dan Field
Outstanding Materials Science Graduate Student Award: Jingjing Qing

SPE Energy Symposium: April 7, 2014
Mark your calendars and plan to attend the Third Annual Energy Symposium, organized and sponsored by the SPE student chapter. This one-day event features presentations by industry speakers, plus the annual Petroleum Engineering Banquet that evening (Monday, April 7).

GSE Advisory Board Meets: April 25, 2014
GSE chair Ralph Flori is organizing a combined advisory board meeting for the GSE department on Friday, April 25. Some invitations have gone out. If you are interested in participating, please contact Dr. Flori at reflori@mst.edu.

GSE received approval to search for a new faculty member in Petroleum Engineering in Reservoir Characterization.

GSE received funds for a new G&G Microscope Lab (with new microscopes, digital cameras, and projection facilities ideal for student collaboration).

GSE: Now the 3rd Largest Dept at S&T

Fall 2016 Enrollment (end of first week)
- 623 Total GGPE Students (down ~4.5%)
- 320 Undergrad Students (excludes FEP)
  - 95 G&G / 73 GE / 170 Petroleum
- 177 Graduate Students (on campus)
  - 50 G&G / 46 GE / 81 Petroleum
- 118 Ft Wood/Distance GE Grad Students
- More than $200,000 scholarships in AY 2016-2017

Students

Students

Laboratory

Active Collaborative Microscope Lab: Funding for this project is ongoing. SH18K has been secured, additional costs are now projected at ~$118K Lab will be used for teaching GGPE, MAS, and MINE courses with capabilities for distance learning

GGPE welcomed two Assistant Professors of Geology & Geophysics this fall: Dr. Jonathan Crist-Farmer (below, right), and Dr. Marek Loewnitz (below, left).

New Tinker Omega TOM 59
High Speed Continuous No Bake Mixture increases mold making capabilities in the industry

Faculty

Faculty Awards & Recognitions:
- Dave Rogers: Fellow of the American Society of Civil Engineers
- Baolun Bai: SPE Mid-Continent Regional Distinguished Achievement Award
- Mingzheng Wei: SPE Faculty Innovative Teaching Award

Update

The national search for a permanent GGPE department chair is underway. Campus interviews will be conducted either in late fall or early spring, in anticipation of a summer 2017 hiring. The search committee includes three Mines and Metallurgy Academy members.