Chair’s Corner

Dear M&M Academy Members,

Greetings from the Academy. This message follows “The Best Ever”, 101st celebration of St. Pat’s at Missouri S&T! The chairs report that everybody made it through the festivities in one piece, and the students are working hard to survive a round of exams prior to Spring Break. In this Newsletter the focus is on good news coming from the departments, and the impact the Academy has had on student success through our investments of time and funding. You will find a short overview of all the equipment now in place being used weekly in the undergraduate labs, and the new computer-learning-centers (CLC’s) that were dedicated in February.

The recession is definitely impacting recruitment activities. The number of recruiters at the Spring Career Fair was down sharply to 156 (over 300 came in the Fall). Usually at this time of year most of the May graduates already have at least one job offer lined up. At the moment the chairs report many = half of the students are still looking. If you know of any job opportunities please pass them along to them.

The official results of the ABET review are in, and I am happy to report that with our help the departments received passing grades on criteria related to facilities and equipment. As we reported (but weren’t supposed to) in the last newsletter, overall the departments did not come out unscathed – most received weaknesses in areas related to the assessment of program educational objectives and outcomes. At the upcoming meeting the Chairmen will ask the Academy to serve as external evaluators of student work throughout the year – an important activity necessary for ABET accreditation.

We’re hoping to see you at the April Academy meeting. Please come – through our time, connections and resources we are truly making a difference in the lives and success of students. A meeting agenda is shown to your right. Highlights:

- Seven Academy Scholars will be named again at the spring meeting, and their friends and family will attend the dinner.
- Six new members will be inducted into the Academy.
- The criteria for a new faculty recognition award will be decided.
- The new M&M Academy website will be shown.
- Student design teams will be making presentations.
- Spouses will enjoy pouring molten metal in the foundry.

The students and faculty are clearly aware of the role the M&M Academy has played during a critical juncture in the future of our alma maters. History will show that our small group of dedicated alumni made important contributions at a time of need. The reward is knowing that we have simply carried on what has always been the tradition of our school - student success. I encourage you to become an active member.

Dianna Tickner
March 2009

Chair’s Agenda

April 16, 2009

Meeting Agenda

April 16, 2009

11:30 AM Optional Lunch
1:00 PM Opening Remarks / Introductions
1:10 PM Committee Reports
- Executive
- Academy Nominations
- Scholarship (Scholar Award)
- Jackling
2:15 PM Break
2:30 PM Review & Update on Website
2:45 PM Faculty Recognition Award
3:00 PM Departmental Reports
- Samuel Frimpong
- Wayne Huebner
- Bob Laudon
4:00 PM Discussion
- O’Keefe bust or other tribute
4:45 PM Adjourn
6:00 PM Reception (McNutt)
7:00 PM Dinner, Scholar Awards & Induction Ceremony

Spouse’s Agenda

April 16, 2009

11:30 AM Spouse’s Luncheon/Sybill’s
2:00 PM Presentation
**Microtrac / Nanotrac**

- **Cost:** $45K
- **F(x):** measurement of the particle size distribution of fine powders using laser scattering
- **Use:** Cer 231: “Ceramic Processing Lab I”
  Cer 242: “Ceramic Processing Lab II”
- **Impact:** allowed development of new labs to measure particles produced by hydrothermal synthesis

**New Furnaces**

- **Cost:** $30K
- **F(x):** binder burnout, calcination, sintering
- **Use:** Cer 231: “Ceramic Processing Lab I”
  Cer 242: “Ceramic Processing Lab II”
- **Impact:** addressed critical shortage of furnaces available to run labs due to our growing enrollment

**General Lab Equipment**

- **Cost:** $25K
- **F(x):** safety, chemical storage, mechanical testing
- **Use:** All UG labs.
- **Impact:** addressed critical lack of appropriate facilities.

- Flammable chemicals storage cabinet
- Compressive platters for an MTS load frame
- Biocidal cabinets with Safety goggles for all labs

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**Spring 2009 News**

—Many field trips including Faculty and Students

- S&T students in Guatemala working with local students, Dec. 2008.
- Dr Leslie Gertsch addressing the International Mineral Processing Congress in Beijing, China, Sept. 2008.
- Students discussing physical properties of sand, Ethiopia, January 2009.
- S&T Students collecting geophysical data in Egypt, January 2009.
- S&T students building filters for clean water projects in Guatemala, December 2008.
- Dr. Franca Oboh-Ikuenobe and students in Egypt, December 2008.
- S&T students on the Lake Superior field trip, May 2008.
- Rock Mechanics lab at S&T. Created with special GPS camera donated by Mr. Ted Ruppert.

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**Materials Science and Engineering**

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**LeCO CS600 C/S Analyzer**

- **Cost:** $80K
- **F(x):** measurement of carbon and sulfur content in steels
- **Use:** Met 308: “Metals Casting Lab”
  Met 421: “Ferrous Casting Alloys”
- **Impact:** allowed development of new labs desired by industry