

Mines & Metallurgy Academy Business Meeting
Missouri/Ozark Room, Havener Center
Friday October 14, 2016

CALL TO ORDER:

Gregory Skannal, Academy Chair called the meeting to order at 8:30 AM, greeted the Academy members and welcomed all attendees.

Those attending were:

Gregory Skannal, Academy Chair
John Borthwick, Vice Chairman
Tim Bradley
Matt O'Keefe
Karl Burgher
Dianna Tickner
Delbert Day
Wayne Huebner
Rick Booth
Kurt Oakes

Curt Elmore
Ralph Flori
Ken Gielow
Kent Weisenstein
Bill Martin
Mike Moats
Dianna Tickner
Scott Sehlin
Keith Wedge

Representatives of Missouri S&T attending:

John Held, Director of Planned Giving, University Advancement, Development
Shannon Bishop, Sr. Development Officer, Senior Development Officer, Development
Braden Lusk, Chairman, Mining and Nuclear Engineering
Francisca Oboh-Ikuenobe, Interim Chairman, Geosciences and Geological and Petroleum Engineering
Matthew O'Keefe, Chairman, Materials Science and Engineering
Dr. Dick Brow- Acting Vice Provost & Dean for College of Engineering and Computing
Tri Nguyen, COO and Jordan Chervinko, CFO; both students sponsoring SPE DSATS competition, Drillbotics.
Judy Russell, Office Support Assistant IV (Administrative Assistant), Mining and Nuclear Engineering

Greg Skannal spoke briefly – this was the first attempt for a couple of the Academy Members to call into the meeting or by WebEx. Technology was not as successful as we hoped. Greg followed up by asking everyone to introduce themselves around the room. After introductions, discussed documents that were contained in the meeting packets.

Executive Committee Reports:

Approval of Minutes:

Adopt the minutes as written: So Moved by Curt Elmore, seconded with no corrections. All approved unanimously.

Financial Report:

As noted in the past; we keep everything transparent so that you know where and how your voluntary gift dues are spent. As you see in the General Operating Account, there is a surplus at this time but this will cover the upcoming Homecoming 2016 meeting expenses. Currently ending balance as of

Mines & Metallurgy Academy Business Meeting
Missouri/Ozark Room, Havener Center
Friday October 14, 2016

10/05/2016 \$2,466.04. If you pay more than the \$250 you can designate where the extra funds can be paid to. For instance: there are the different Development Funds for each Department, equipment funds, lecture series, etc. If it is not stated where you want the additional funds to be paid to – they will be deposited into the Mines Met Academy Scholarship account.

Mines Met Academy Scholarship as of 8/31/2016 has a balance of \$137,812.68. This account pays the seven Academy Scholarships of \$500.00 and for the watches. The Faculty Awardee award of \$1000.00 is paid out of the General Operating Account. These accounts are funded by the voluntary dues plus the extra that is paid in at times. Also there are several who have matching funds within their employer, please look into the program if you are still working. Voluntary dues are directed to the General Operating account housed in the Mining and Nuclear Department handled through Judy Russell. The Mines Met Academy Scholarship is housed through the Alumni Office.

Nominating Committee:

Ralph Flori, Committee Chair, discussed briefly the process on how the Nominations are selected. We are currently recruiting new nominees up until November 11, 2016. There has been three different Nominations to date that has been submitted. Hoping to receive Nominees from Nuclear, Ceramic, Geology and Geophysics to ensure have at least one nominee from each program. We currently do have four carryover nominees from the invitations that was sent out in the early 2016. Those who will be re-invited to attend this time around: Robert Duenckel, Bryan Galli, Gary Pennell and Ron Tyson.

There are occasions after the invites have gone out that we learn there are a few that are unable to attend. Sometimes this happens at the last moment due to commitments that they are obligated to. Guidelines for the submission of nominees would be found in the Timeline for "Fall 2016" and we want to think of all the disciplines. Please look at the Charter and the By-Laws for the updates. Criteria for the Membership has been broaden to encompass those who may have not graduated in the Mines and Metallurgy Academy's discipline, however, now working in the industry. No age limit set; now includes fast rising young professionals who are emerging leaders in their field.

For new members joining us today and participating in the celebration this evening, we ask that you look into joining a committee to stay engaged with the Academy. Most all of the committees meet outside of the normal Spring Induction and Homecoming meetings. Each one of you were selected for what you bring to the Academy but we also need you to look at what you can bring to the University. Check into the disciplines that you graduated from; maybe join the Advisory Boards. Make yourself available.

Scholarship Committee-Student Affairs/Scholar Awards/Faculty Awards

Wayne Huebner, Committee Chair reported this scholarship program started in 2004 – at this time we will have fifty four Academy Scholars that has been awarded. Wayne gave the summary on how the

Candidates are selected. After meeting with each candidates with the essay plus the importance of the other documentation that would need to be supplied by the each Academy Scholar selected is given a \$300 voucher to Kent's Jewelry to purchase a watch which is covered by the Mines and Metallurgy Academy. If the cost of the watch goes over the voucher amount then the Academy Scholar needs to pay the difference. This past year no student for Geology Department. The students that was selected were not eligible due to already have graduated or on co-op and not graduating in

Mines & Metallurgy Academy Business Meeting
Missouri/Ozark Room, Havener Center
Friday October 14, 2016

2016. Suggestions was to put this more in the hands of the organizations for the student bodies to get more involved since we had this glitch in the process. Which also means posting it up on bulletin boards to get the word out.

There are five vacancies currently open on this Committee.

Jackling Fund Report

Chris Ramsey, Committee Chair currently unable to attend to report due to other Alumni Committee obligations. Chris had submitted a written report prior to this meeting which reports the Jackling endowment continues to fund the following programs annually:

Mining Engineering Explosives Camp - \$15,000
Jackling Introduction to Engineering Summer Program - \$10,000
Materials Summer Camp - \$15,000

The FY17 distribution totals \$42,478.08.

As of August 31, 2016, the balance in each of the three accounts is:

Loan net assets:

Amount available for loans	\$48, 633.96
Outstanding loans	\$32, 911.00
Net Assets (Loan Fund)	\$81, 544.96
Available spendable -	\$29, 919.52
Endowment corpus -	\$984, 076.91

Approximately \$20,000 remains in the spendable account each year. The remaining funds have been purposely set aside to provide immediate funding to projects deemed critical to Missouri S&T's success. Each of these projects must meet the criteria outlined in the endowment agreement.

No student loans have been issued this academic year. The committee is fairly liberal in approving loans as long as the department chair personally requests and approves. The loan fund is well known to faculty within the Mines and Metallurgy department but is not publicized on campus.

Discussion in the meeting was if we can include the Nuclear Engineering Camp within the Jackling Committee Summer Program since this is one of the Mines and Metallurgy Academy disciplines. Plans to have this suggested to the Jackling Committee.

Development Report – John Held, Director of Planned Giving

Welcome New Leaders:

Dr. Richard Brow – Interim Vice Provost and Dean, College of Engineering and Computing
Dr. Joel Burken – Department Chair, Civil, Architectural and Environmental Engineering
Dr. Braden Lusk - Department Chair, Mining and Nuclear Engineering

Mines & Metallurgy Academy Business Meeting
Missouri/Ozark Room, Havener Center
Friday October 14, 2016

Rolla Rising - the Campaign for Missouri University of Science and Technology
Ready to Rise – Kennedy Experimental Mine Building, Residential Commons, and Schrenk Hall.

Leadership Annual Giving: Leadership annual donors will champion annual giving both through a personal gift, and by encouraging other alumni to become donors.

Each leadership annual gift will be divided between:

*The designation of a donor's choice (for example, their department)

*A matching fund that will inspire new, non-donors to give to their department via Phonathon.

Alumni Engagement:

Soon our alumni will have easy access to:

*Giving History

*Event Updates

*Contact Preferences

*And More!

Milestone Celebrations

Homecoming Events

Miner Alumni Association Awardees

*Alumni Achievement – Craig Barnes, ME'78 and Jorge Ochoa, ME'85

*Distinguished Young Alumni – Xiaoliang cheng, Chem' 10 and Kate Wasem, MetE'99

*Alumni Merit – John Lovitt, CSci '70

*Robert V. Wolf Alumni Service – Pam Leitnerman, Math '75

*Frank H. Mackaman Volunteer Service – Tome Feger, CE '69

*Honorary Life Member – Bill Kennedy

Alumni of Influence – Learn more about these distinguished alumni and at influence.met.edu.

Website Update

Gregory Skannal reported that in the Chancellor's Academy President's meeting earlier this morning it was announced that Cheryl McKay, University Staff; will be managing the Academy's websites. Currently on the Mines and Metallurgy Academy website, it shows the basic outline of the Academy. Listing names within the committees. Some people may want their names not to be on the internet. The purpose of having one to manage the Academies Websites so that they will have a uniformed look. However, we may need to have a possible opt out for those who do not wish to have their names listed on the internet. More information to come.

Strategic Planning Committee

Tim Bradley Committee Chair, briefly spoke about the ideas on the relationship of the Mines and Metallurgy Academy with brief history in how the Academy will advise the Chancellor, Provost, the University Faculty Department Chairs, and mentor the Student Groups. Alums that has been in the industry can share the knowledge to mentor. We are aiming for successful alumnis.

Four focus areas that the Academy feels strongly about that has been discussed:

1. The Academy's relationship with the Student Groups
2. Improvements and expansions of labs through the 9 programs.
3. Increasing connections between MST research capabilities and industry needs.
4. Recognizing excellence in teaching.

Thoughts on these 4 points:

Mines & Metallurgy Academy Business Meeting
Missouri/Ozark Room, Havener Center
Friday October 14, 2016

Four points are good but maybe need a fifth one: Area of Influence – Academy members need to get involved with chancellor committees, board of curators any place where decisions are made. There are policies that are being put in place that may not be as beneficial to the Schools of Mines and Metallurgy. Decision makers need to be more aware of the School and the Academies.

Our Academy is very powerful with all the disciplines together. We don't need our Academy to be split up, weakening our influence. We are very strong as a whole. This is the uniqueness of Missouri S&T – MMA is very valuable.

- Is there any other Academy more focused than our own Academy. We have some very important individual that already has a good placement like on the Board, etc.
- Maybe the four items are small. How can we help the whole university may be there are offsets.
- What about a "Day Care Center" as a whole for the University. We have husband and wife teams brought in raising families - This would be aiming higher.
- We are aiming for the moon but landing on the stars. How do we maximize what we have?
- Enrollment has doubled what about Faculty; Department Chairs have tried to do a cap in the enrollment. Hard to give the hands on activity- grading papers, etc.

How do we move forward?

Replacement – to rehire retired faculty

Undergraduate students have to be skillful to be hireable to industries

How do we get a value to the students even if it does not mean the money value?

Endow positions equal recurring dollars. Endowments is the key: spells a specific position.

If adding "Area of Influence": we need a tangible plan – what can we the academy do? Do we need legislators for the power and politics? Do we get the disciplines advisory boards more involve? How do we raise the focus?

Academy members need a purpose – we need workers. We have three committees to get involved with: Nominating, Academy Scholarship, and Strategic planning. All are working committees. Students matter – hands on engineers are welcomed in industry no matter what their discipline is.

Where should we look to start to pull in the influential people?

- Campus level – System level - State level
 - Chancellor level – Provost – Vice Provost - Chief of Staff - Real estate (Walt Branson)
 - o Board of Trustees
 - Missouri Legislators
 - Board of Curators
 - Alumni Association
 - Corporate Development Council - Corporate Relations Office
 - Industries Groups (John Ash) – Professional and National Associations – Agencies – NIOSH – DOE

May need to have a facilitator to assist with working the processes through. Karl Burgher has done this type of thing before; he may consider assisting us since he is one of our recent Academy Members and also close enough to the campus.

Greg Skannal ask of the Department Chairs in this meeting (GGPE, MNE, MSE) are there any concerns regarding space – if so, what are the concerns. We just want to be able to follow-up if there

Mines & Metallurgy Academy Business Meeting
Missouri/Ozark Room, Havener Center
Friday October 14, 2016

has been any reallocated space. Braden Lusk brought it to the Greg's attention that 234 McNutt is now being turned into a CLC from what was known as the surveying lab. The Survey room will be relocated to the Kennedy Mining Building. We are concerned if this is the better use for this space even though this is not our decision. It would have been a better to be an Online Classroom. Greg will move forward on the concerns that the Department Chairs forwards him.

CEC report:

Dean search is still pending.

Faculty Hires in 2016-17

- Marek Locmelis, Assistant Profess, GGPE
- William "Bill" Gillis, Assistant Teaching Professor, CArEE
- Xiong Zhang, Associate Professor, CArEE
- Zhishan Guo, Assistant Professor, CS
- Yanjie Fe, Assistant Professor, CS
- Haoyi Ziong, Assistant Professor, CS
- Chulsoon Hwang, Assistant Professor, ECE
- Hamidreza Modares, Assistant Professor, ECE
- Lara Bartlett, Robert V. Wolf Associate Professor, MSE
- Braden Lusk, Professor, and Chair, MNE
- Kyle Perry, Assistant Professor, MNE
- Jonathan Obrist-Farner, Assistant Professor, GGPE

2016 Faculty Promotions

- Professor
 - Dr. Jun Fan, ECE
 - Dr. Suzi Long, EMSE
 - Dr. Joseph Newkirk, MSE
 - Dr. David Rogers, GGPE
 - Dr. Jeff Smith, MSE
- Associate Professor with Tenure
 - Dr. Andreas Eckert, GGPE
 - Dr. Mohamed ElGawade, CArEE
- Teaching Professor
 - Dr. Mary Reidmeyer, MSE
- Associate Teaching Professor
 - Dr. Nishant Kumar, MAE

Missouri S&T CEC is-

- Nine departments, 16 UG and 19 grad programs
- 185 T/TT faculty, 24 NTT faculty, 5 lecturers, 34 researchers, 73 staff
- Ranked #63 for undergrad (Mizzou is #91)
- Ranked #92 for grad (Mizzou is #91)
- Why it matters if we were a top -50 engineering school

Some Highlights:

- We did \$22 M in sponsor research last year
- Why it matters if we were a top -50 engineering school
 - A top 50 graduate engineering program is our goal

Mines & Metallurgy Academy Business Meeting
Missouri/Ozark Room, Havener Center
Friday October 14, 2016

So what do we do next?

- The campus strategic plan provides one way forward
 - **Theme 2: Enhance reputation and raise visibility**
 - 2.1 Employ **strategic hiring in select areas of expertise** to support best –in-class achievements
 - 2.2 Leverage S&T as **Missouri’s technological research university**
 - 2.3 **Develop a culture of excellence** in research, scholarship and creative activity among faculty, staff, administration and students
 - 2.6 **Improve infrastructure** that enables faculty and student abilities and accomplishments

In summary...

The faculty in the College of Engineering and Computing believe in our mission to become a top -50 engineering program in the US

- We believe in the excellence of our undergraduate programs and the abilities of our undergraduate students
- We believe that our graduate programs can be improved and this is the key to enhancing the reputation of Missouri S&T
- Our strategic plan is consistent with the mission:

Missouri S&T will be the leading public technological research university for discovery, creativity and innovation.

We need to focus on getting the best faculty. We have \$300,000 to upgrade labs, college will match funds with the department; currently taking in bids.

Guest Speaker: Tri-Tris Nguyen, Jordan Chervinko

Submitting a fund proposal for this project opportunity for this design team on campus for the SPE DSATS competition: **“Drillbotics”**.

The goal is to make a completely autonomous rig that can drill a well in an unknown composition of rock provided by SPE.

We have a group of eager and dedicated students excited for our first year of competition. The team has potential to provide great experience and insight as we have recruited an extremely diverse base for each facet of our project. I am proud to be part of this team as it fills a void for many students interested in petroleum, mining, and geoscience while still providing more traditional skills in mechanics and electronics.

Goal for the funds is set for: \$3,000

By the end of the presentation there were several individual whom stated that they would be glad to assist in support. Tim Bradley had previously stated that he would match Academy dollar for dollar up to \$2,000 once that fund has been obtained. There was an agreement from the Academy body to donate within the three week said time frame.

Old Business

204 McNutt Auditorium seating and carpet- who’s responsibility is this to replace this. This needs to be brought to the administration. Is this actually being requested for the Academy to cover this cost?

Mines & Metallurgy Academy Business Meeting
Missouri/Ozark Room, Havener Center
Friday October 14, 2016

Need to explore the different options for Spring Induction Ceremony locations, such as the Hasselmann house. If we could bring it back to the McNutt Commons that would be great.

Wall photos for the Academy Hallway will be expanded to accommodate for the upcoming years to come. Will entertain different possibilities; for example to possibly resize photos to add more space. This is still in the works to evaluate the better solution.

GGPE Chair search: Larry Britt, Perrin Roller, and Keith Wedge are the representatives for MMA. Currently received a low amount of application, opening to industry applicants with PhD. Updates pending.

New Business

Drillbotics proposal presented by the two students by Tri-Tris Nguyen, Jordan Chervinko

Voting for the April Meeting: Vice Chair, and also 2 members at Large Member on the Executive Board. Let Ralph Flori chair of the Nomination Committee know if you are interested. Planning for Laboratory's Tours for Thursday, April 20, 2017 meeting.

The meeting was adjourned at 3:15 PM.