

Mines and Metallurgy Academy Meeting  
Friday October 27, 2017  
Missouri Ozark in Havener

**CALL TO ORDER:**

John Borthwick, Academy Chair called the meeting to order at 8:40 A.M. He welcomed everyone, John introduced our guest, Kordell Norton, which led the Strategic Committee Meeting on Thursday October 26, 2017. All members went around the room and introduced themselves.

Those attending were:

John Borthwick, Academy Chair	Greg Sutton
Chris Ramsay, Vice Chair	Norbert Neumann
Kevin Renfro	Delores Hinkle
Ken Gielow	Matthew Hinson
Mike Moats	Kurt Oakes
Terry Palisch	Rick Booth
Dianna Tickner	Kent Weisenstein
Jim Humphrey	Braden Lusk
Bill Martin	Ralph Flori
Delbert Day	Tim Bradley
Scott Sehlin	Bill Tedesco
Gen Sutton	

**Representative of Missouri S&T attending:**

Dr. Richard Wlezien, Vice Provost and Dean of Engineering and Computing  
Dr. Rebecca Johnson, Executive Director of Development College of Engineering and Computing  
John Held, Director of Planned Giving, University Advancement, Development  
Matt Lehmann, Sr. Development Officer, Development  
Braden Lusk, Chairman, Mining and Nuclear Engineering  
David Borrok, Chairman, Geosciences and Geological and Petroleum Engineering  
Greg Hilmas, Interim Chairman, Materials Science and Engineering  
Judy Russell, Office Support Assistant IV (Administrative Assistant), Mining and Nuclear Engineering

John Borthwick spoke briefly – opening the floor for the discussion of the Spring 2017 Mines and Metallurgy Academy minutes. Tim Bradley made motion to approve minutes; Gen Sutton seconded. The minutes were approved unanimously without change.

**Strategic Plan Working Session – Kurt Oakes & Guest Kordell Norton**

**Strategic Planning Committee:**

**MO S&T Mines & Metallurgy Academy – Strategic Planning Committee**

***A “Path Forward” for Development and Achievement of Our Selected Goals by 2020  
Notes from the Strategic Planning Session, and Fall ’17 MMA Meetings – 10/26 & 27/2017***

*The purpose of the Strategic Planning Committee is to develop near term, intermediate, and longer term goals for the Mines & Metallurgy Academy, and to track those metrics for gauging the Academy’s efforts and revise our efforts where identified, acknowledging that the Primary Vision of the Academy is to “Enhance the value of Missouri S&T for the Students within our Nine Degree Programs”.*

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*New processes within the Mines & Metallurgy Academy are needed to enable longer term goals to be sought after, and in achieving those goals to be accomplished.*

*Four Focus Areas of the Academy have historically been identified through previous meetings and discussion;*

- *Relationship with Student Groups*
- *Improvements & Expansion of facilities and labs throughout our 9 Programs*
- *Increase / Improve the connection of MO S&T to Industry for Research Opportunities*
- *Recognize Excellence in Teaching*

*Student Groups –*

- *Facilitate “Linkages” w/ student organizations to provide speakers, site tours, mentoring, or job opportunities.*
- *Create an easy process for Academy members to “self-report” any interaction with student groups, or organizations.*
- *Update the Academy website.*
- *Initiate a mentoring program for each of the 9 programs we represent.*

*Facilities & Labs –*

- *Gain feedback from faculty to improve Academy understanding in how we can assist in this area.*
- *Create a program where department needs are communicated to the Academy and track donations made by alumni and companies (ensuring confidentiality is maintained).*
- *Prioritize needs and communicate to the Academy membership.*

*Connect Research Capabilities w/ Industry –*

- *Create a process for periodic communications between campus based research teams w/ opportunities and Academy members, and note these opportunities in Departmental presentations to the Academy.*
- *Discuss these opportunities during the Departmental Advisory Board meetings.*

*Recognize Teaching Excellence –*

- *This Focus Area being driven largely as a result of the perception that the University has been moving towards more of a Research & Publishing based “Success Model”, from a “Traditional” Teaching Excellence Model. Goal would be to recognize those instructors who demonstrate exceptional teaching ability, dedication & learning experience for the student.*

*In an effort to aid the Mines and Metallurgy Academy (MMA) with the development and implementation of a Strategic Plan, so we can achieve the desired measurable successes, and move towards improvement within the four Focus Areas, the MMA hired Mr. Kordell Norton, a strategic planning business consultant to assist the Academy’s Strategic Planning Committee, with formulating a realistic, achievable, and visual plan that will help layout and provide direction in our “Path Forward”.*

*Mr. Norton has had a strong career working with various corporations such as; Dell, Proctor & Gamble, Kraft Foods, IBM, etc. in their strategic planning process. He has worked with universities such as Ohio State, Univ. of Utah, Ashland College, as well as professional trade and political lobby organizations; ie, the International Society of Explosives Engineers (ISEE), and the Institute of Makers of Explosives (IME) to name two. The Path and Methodology that Mr. Norton takes identifies;*

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- The "Customers" of the Mines and Metallurgy Academy
- The "Working History" / background story of the MMA
- A "Strength, Weakness, Opportunity & Threats" (SWOT) Analysis, with a dot based voting of attendees to gauge priorities
- Identification of "Key Challenges"
- A listing of Opportunities/Initiatives noted and voted upon
- Development of the "5 Bold Steps" for the MMA, which incorporate our "Vision", the 5 areas we can enact upon to advance our cause, and the methodologies we can incorporate to be successful in achieving the goals of the Focus Areas.

The 5 Bold Steps of the Strategic Planning Process identified that for the Academy to achieve the goals we desire, the following five topic areas need to be addressed, and built upon.

1. Legislative Engagement
2. Create "The Message" White Paper for the Departments within the "School of Mines and Metallurgy" curriculums
3. Engage the Campus Senior Administration, Board of Trustees, and Board of Curators through outreach from Academy members
4. Organize an "Across the Academies" Meeting
5. Organize trips for senior administrators and legislators into "The Field" for their improved understanding in the unique natures of what our graduates undertake in their professions upon graduation.

Small "Working Groups" were identified and participants brought together through volunteerism, based upon the identified areas of need through the results of the Strategic Planning Session. These working groups will enable the Academy to improve upon our recognition, influence, and position, through improved communication and outreach to the campus administration, and senior administrators within the University of Missouri System, and overall within the legislative branches of the State of Missouri.

The 3 small "Working Groups" identified, and who their membership is made of are;

- MMA White Paper Committee
    - Tim Bradley
    - Ralph Flori
    - Rick Booth
    - Jim Humphries
    - Scott Sehlin
    - Kurt Oakes
    - Campus Liaison – Andy Careaga
- 1<sup>st</sup> Draft Due by; 12/1/2017  
Final Draft Due by; 1/15/2018
- MMA Legislative Engagement Committee
    - Greg Skannal
    - Dianna Tickner
    - Chris Ramsay
    - Bill Martin

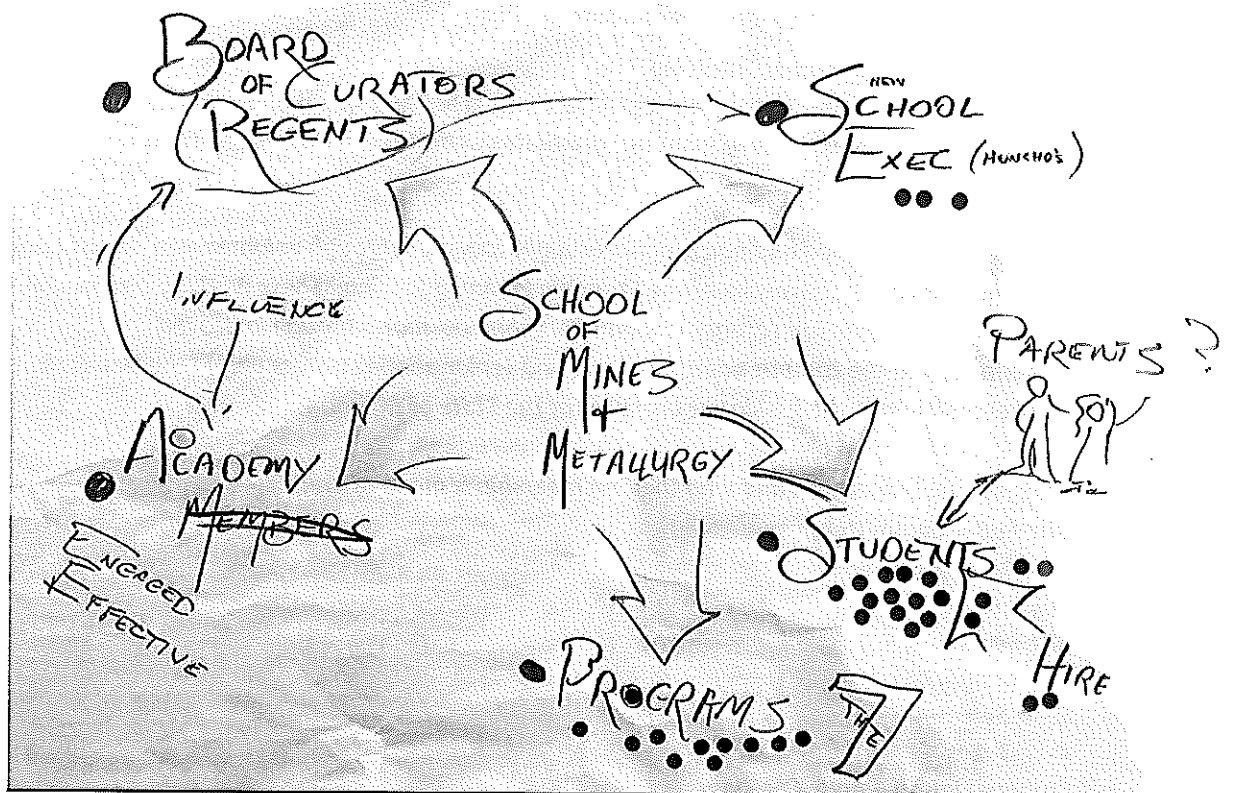
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- Gen Sutton
  - Campus Liaison – Elizabeth Smith, Cuba Plain
- Work towards identification, engagement, and recognition through the awarding of the Inaugural "MMA Legislative Support (Pillar) Award" for the MMA Fall '18 Mtg.
- MMA Industry Familiarization Committee
    - Bill Martin
    - Matt Hinson
    - Campus Liaison – John Esch, John Held

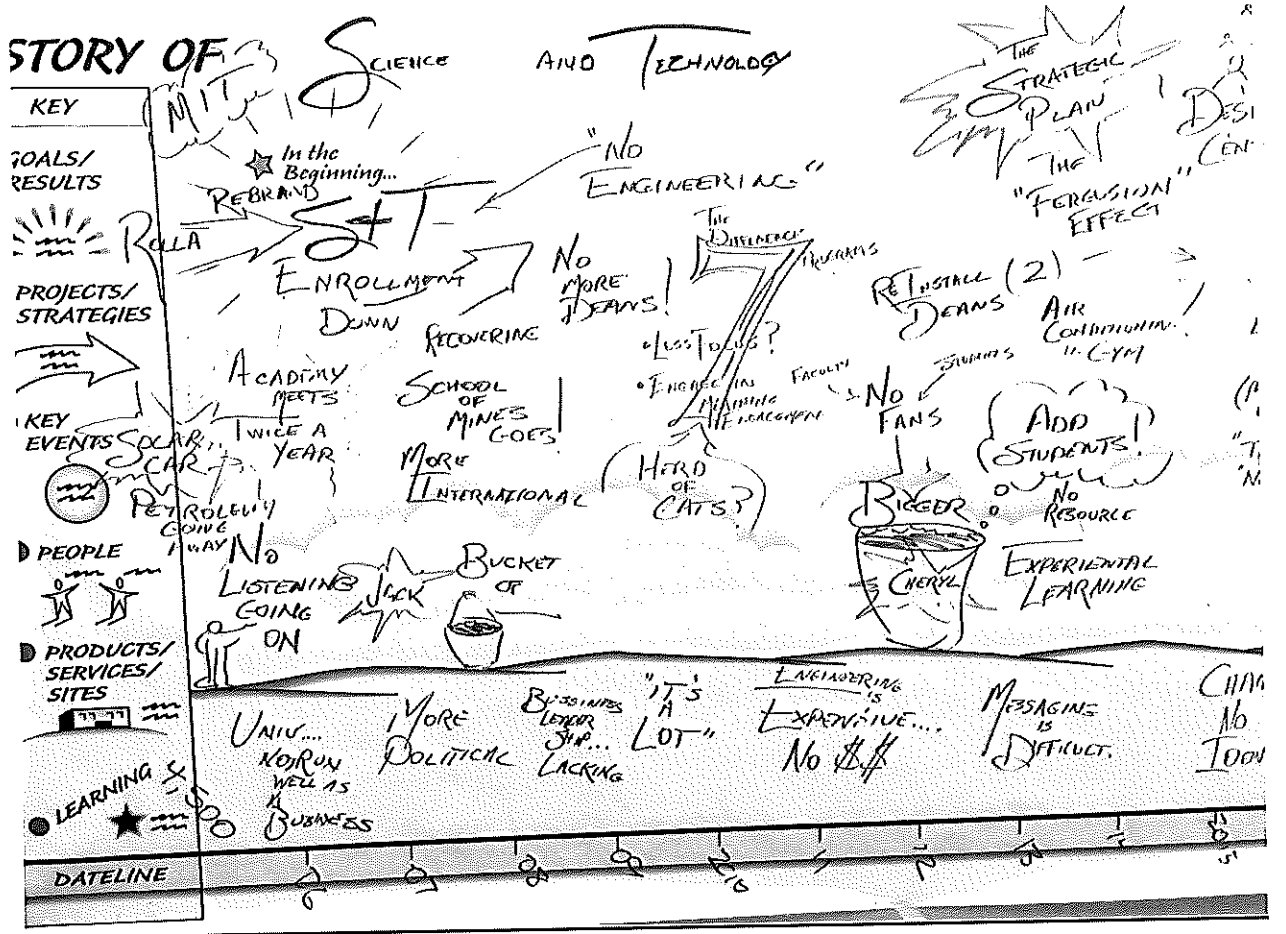
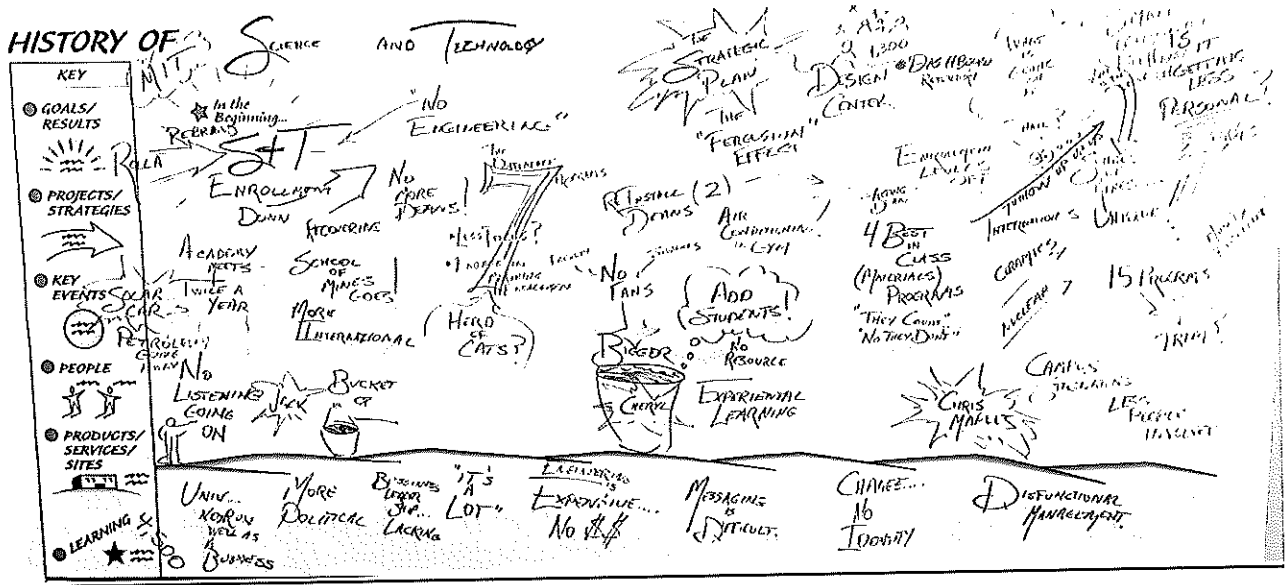
Respectfully Submitted;  
Kurt Oakes – MMA – Strategic Planning Chair

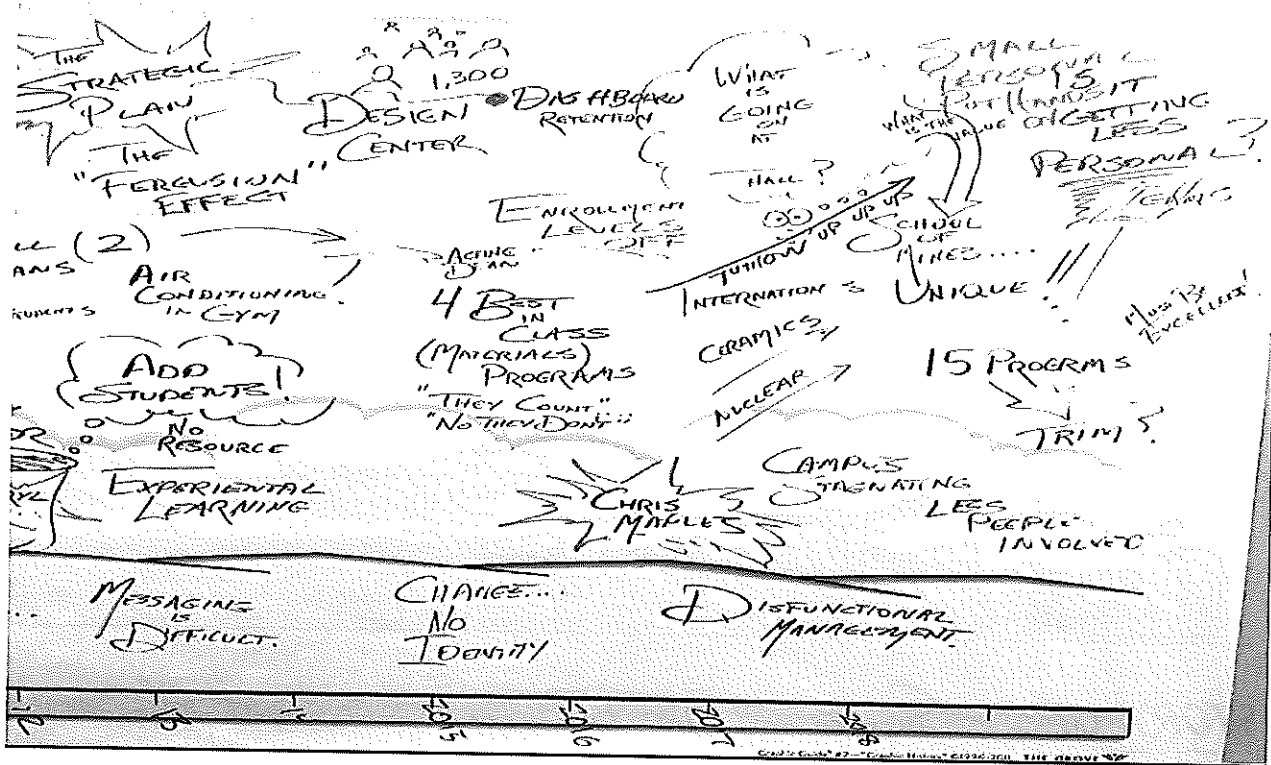
Review of Power Point that was put together by Ralph Flori of the material of the Thursday Strategic Meeting

Who are Our Customers?



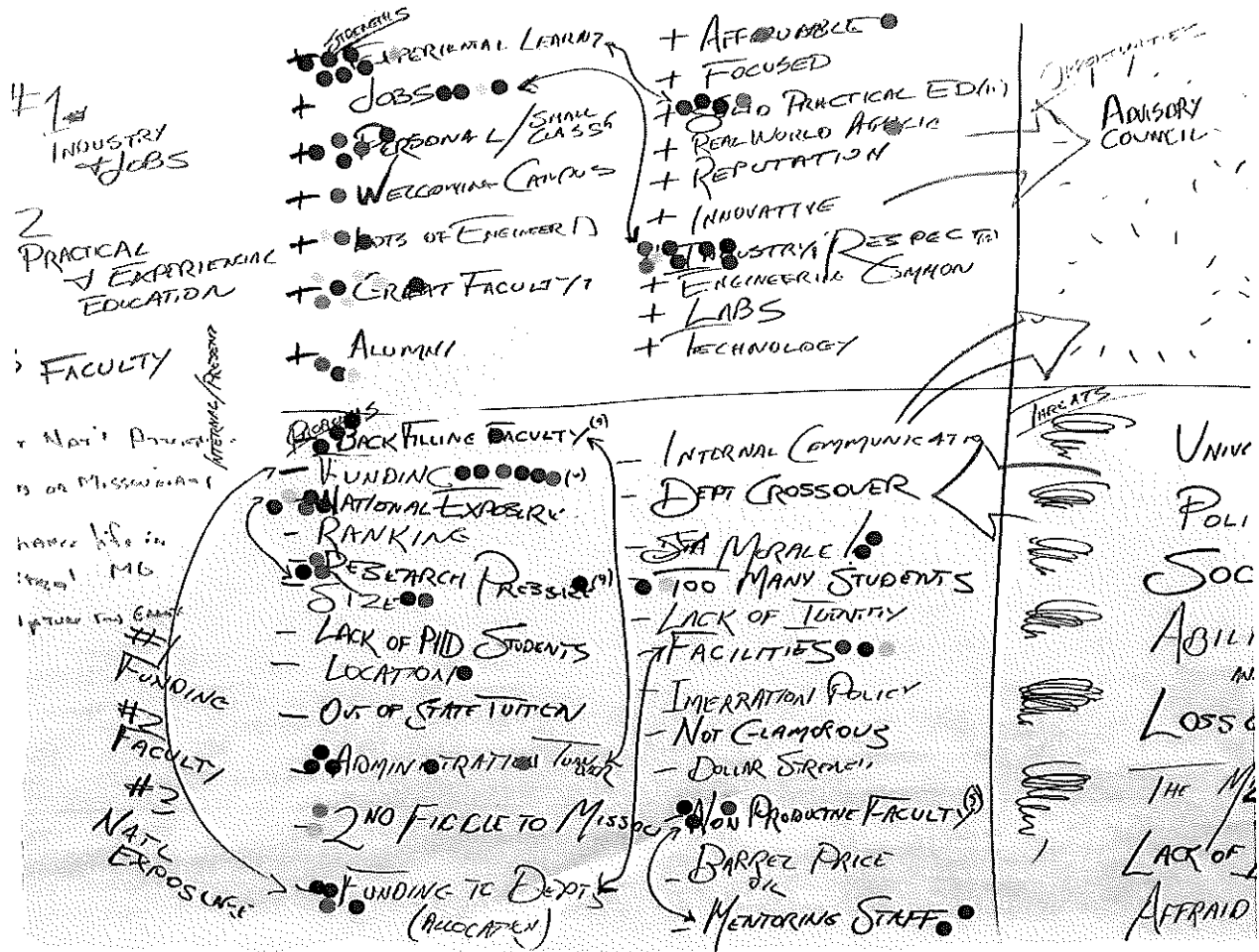
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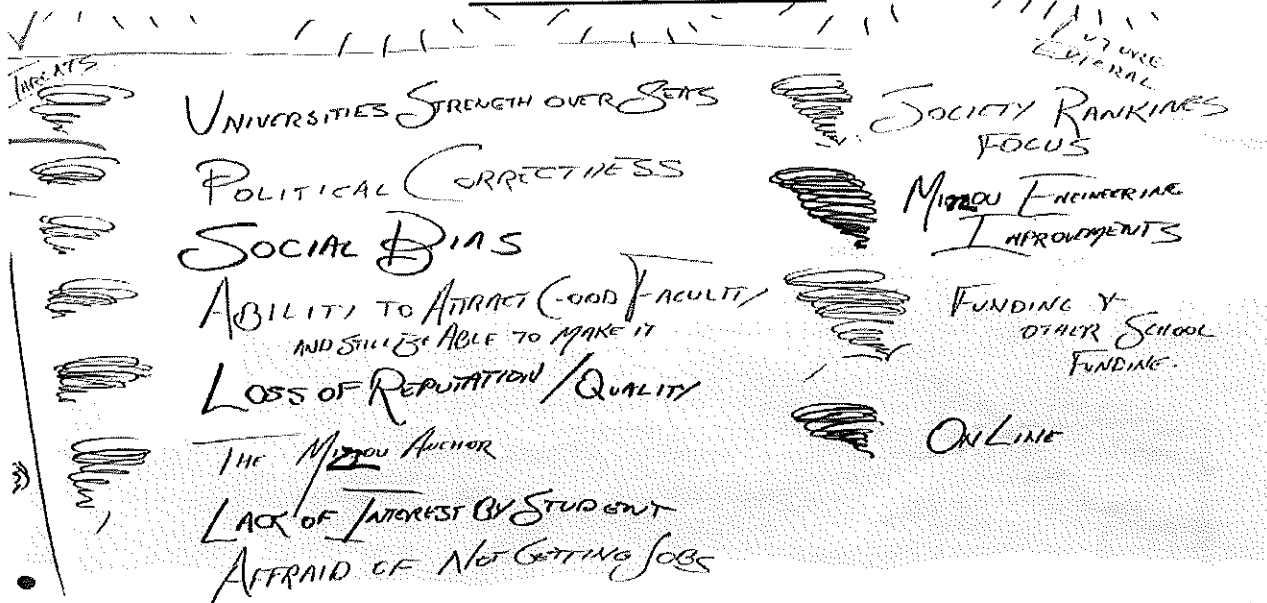


**SWOT Analysis**





**SWOT Analysis: Threats**



Key Challenges

✓ REAL INFLUENCE

✓ RANKINGS ← BUNCH OF INFLUENCERS

✓ IDENTITY / CRISIS ← HOW DO THEY DETERMINE

✓ <sup>PEERY</sup> NST DOLLARS

✓ <sup>THE</sup> BRAND

✓ RESEARCH

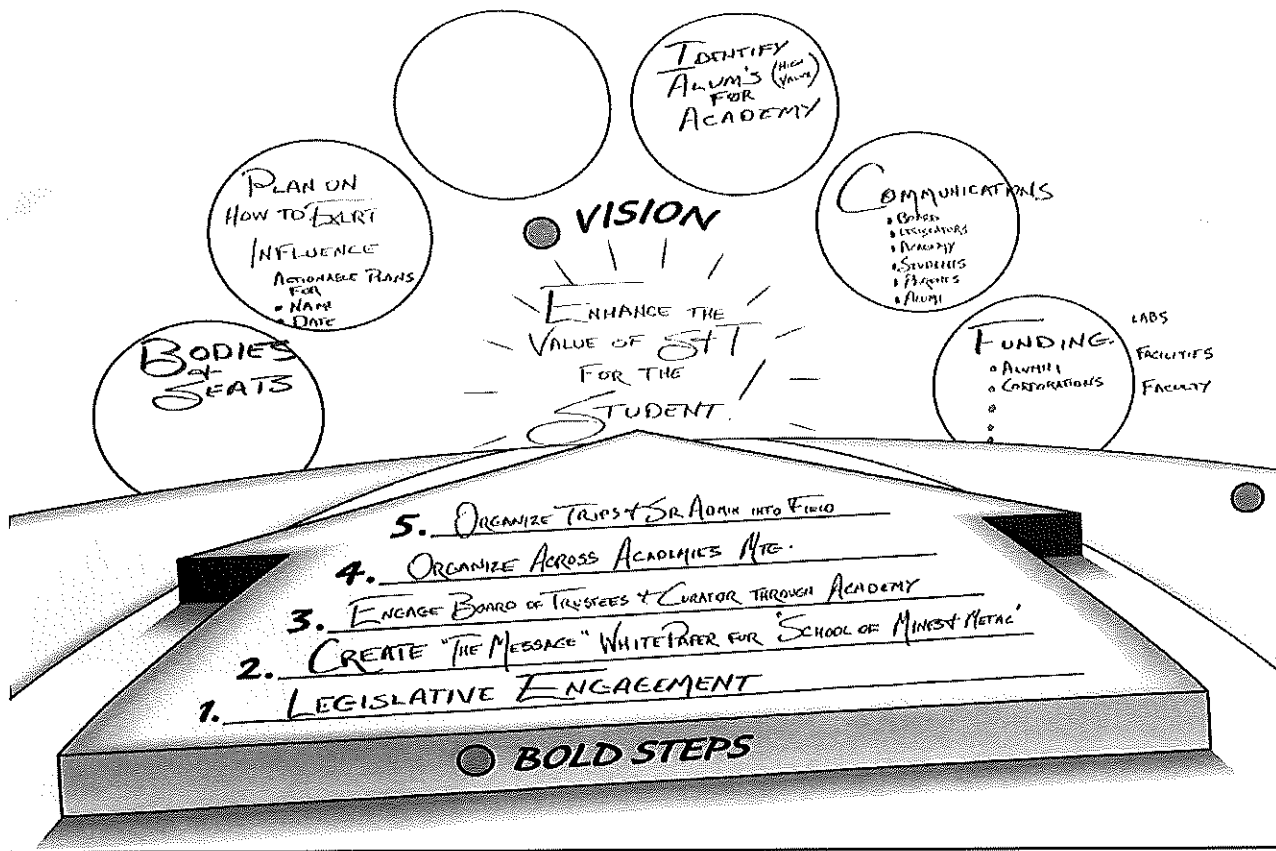
Action Item? What can/should we do?

- ADOPT LEGISLATOR
  - THINK BETTER OF OUR VALUE
  - LIST OF ~~MINES~~ NEEDS FROM CHAIR
  - PUSH UP PATIENT'S AWARENESS
  - SENIOR ADMIN INTO FIELD.
  - ORGANIZ ACADEMIES MTE
  - BLING AWARDS TO LEGIST
  - WHITE PAPER.... TALK POINTS
  - ORGANIZE TRIPS
  - LIST OF HOW CO'S CAN HELP "MINES"
  - CLOSE COMMUNICATION W TRUSTEES
  - HOW TO EXERT POWER?
- (INCREASE AWARENESS) BOARD



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**Five Bold Steps**

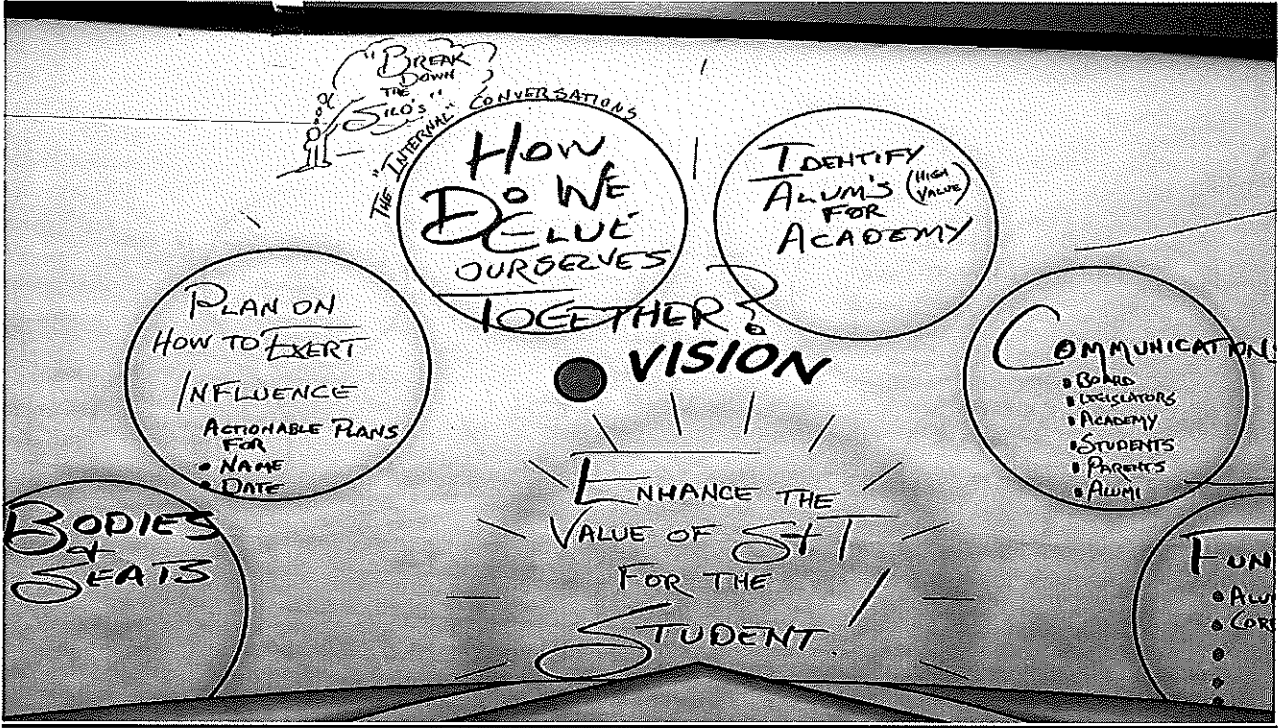


In the open floor discussions- number one thing that needs to be brought forward such as how we are a unique Academy. We are unique since we are seven disciplines that are very strong. Our disciplines cannot be found at another University like Mizzou. Other Engineering degrees such as Civil, Mechanical, and Electrical can all be able found at other institutions but not out seven discipline that makes up the Mines and Metallurgy Academy. This is a positive thing to bring up to the new dean share the education with him

Size of the programs as a whole is probably close to the size of the Mechanical and Aerospace. We have all this different structure involved which would possibly give us leverage. Dean and Chancellor has office hours posted on the web. Go visit with them to let them know how unique we are as an Academy Member.

After discussions, more info added:

How to Glue Together



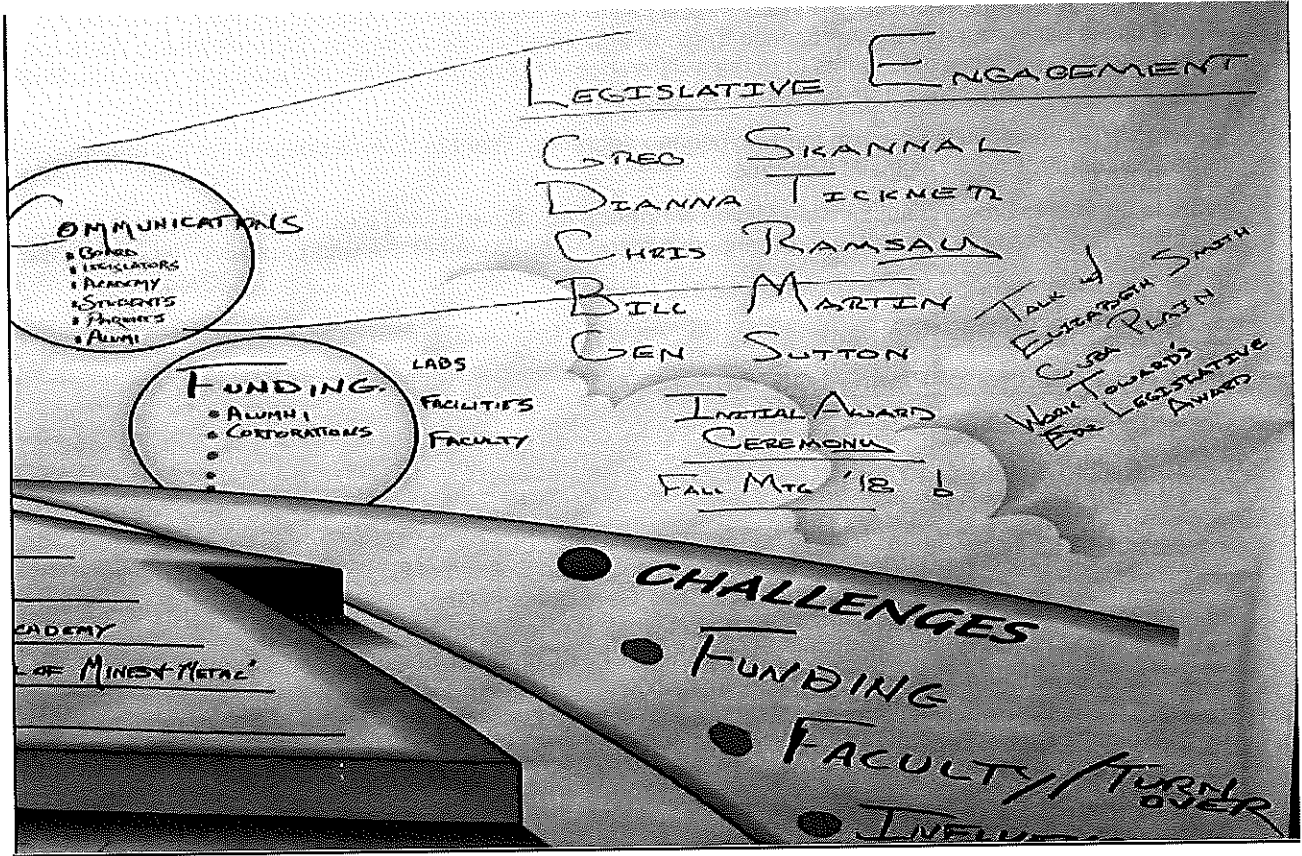
White Paper

WHITE PAPER

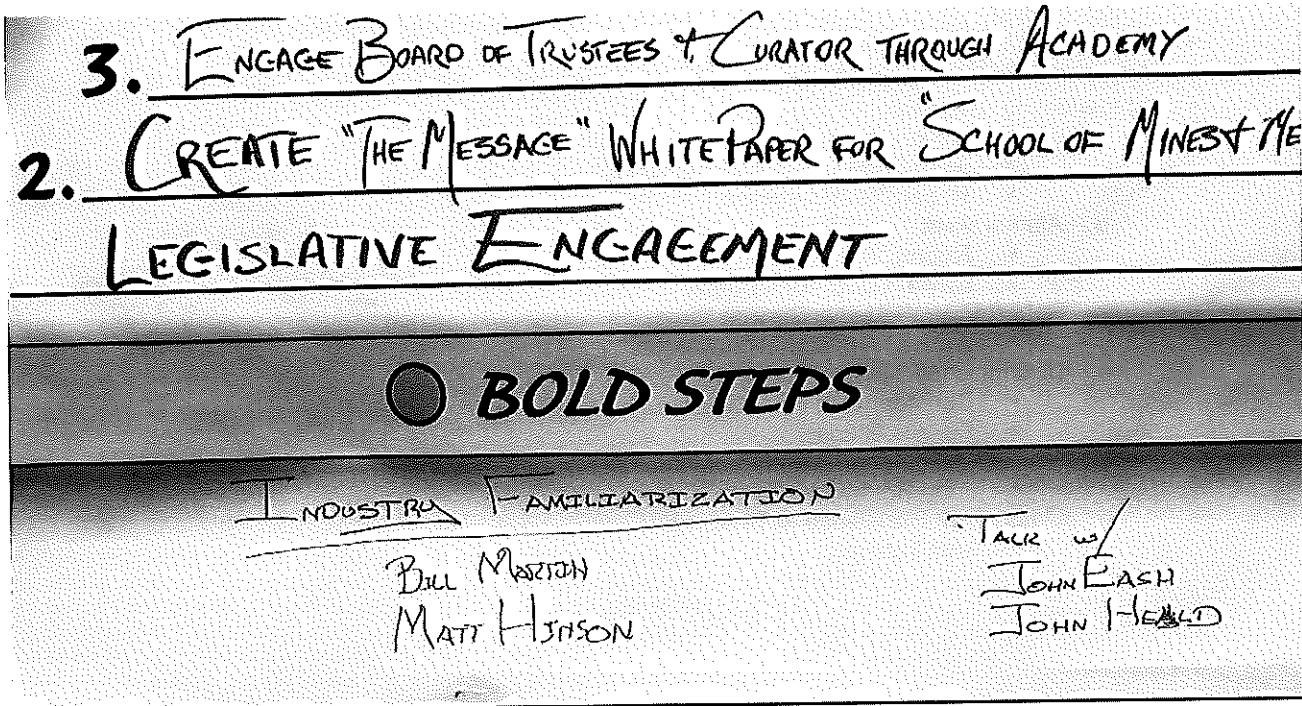
TIM BRADLEY  
RALPH FLORI  
BRIK BOOTH  
JIM HUMPHRIES  
SCOTT SEHLIN  
KURT OAKES  
DUE 3 JAN 15, '18 (FINAL)  
DEC 1, '17 (1ST DRAFT)  
TAG w/ ANDY CARREAGA

**SUPPORTS**

Legislative Engagement



Industry Familiarization



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**Dr. Richard W. Wlezien, Vice Provost and Dean of Engineering and Computing** spoke briefly after the Miner Legends Alumni luncheon. Dr. Wlezien was joined by his Executive Director, Dr. Rebecca Johnson. Giving us his background in the Aerospace Engineering. Hired on as an Interim, then explaining his purpose of taking the Interim position. He wants to make a difference with financial growth of funds with research. Possibly making more positions. Redistribute Research Faculty

Develop a Technology Degree with the Engineering degree(s). Want to make it possible for the undergraduates to be exit sooner. Partner with UM Columbia

Want to be able to broaden sustainable Mining & Aggregates, Smart Living including Cyber Security, Manufacturing (example Mo-Sci), and Engineering extreme environment like with Explosive Hypersonic etc.

Wanting to lower red tape for the university vs the industry.

### **Presentations by Development**

#### **John Held, Director of Planned Giving**

University Advancement Welcome

- Record Fundraising Year
- New Academic Leaders
  - Dr. Christopher Maples – Interim chancellor
  - Dr. Richard Wlezien - Vice Provost and Dean College of Engineering and Computing
  - Dr. David Borrok- Department Chair Geosciences, Geological and Petroleum Engineering
  - Dr. David Duvernell – Department Chair Biological Sciences
  - Dr. George Markowsky - Department Chair Computer Sciences
- New Development Staff
  - Dr. Rebecca Johnson - Executive Director of Development College of Engineering and Computing
  - Jim P. Graham - Senior Development Officer, Office of Development
- Corporate Relations Office
  - 5 Access Research, Technology
  - Educate Your Employees
  - Ready Your Future Workforce
  - Invest
- Faculty Endowments Levels
- Advance Construction and Materials Lab
- Homecoming Awardees
  - Alumni Achievement
    - John Bade
    - Robert "Bob" Lankson
  - Alumni Merit
    - Robert "Bob" Pahl
    - David "Dave" Richardson
  - Robert V. Wolf Alumni Service
    - James "Jim" Bertelsmeyer
  - Distinguished Young Alumni
    - Christopher "Chris" Buterbaugh
    - Fiorella Giana
  - Frank H. Mackaman Alumni Volunteer Service
    - John Borthwick
  - Class of '42 Excellence in Teaching
    - Max Tohline

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**Executive Committee Reports:**

**Financial report:** John Borthwick noted that there was a summary of the financial reports included in the meeting packets. Mines and Metallurgy Academy Scholarship currently shows the balance of \$152,268.64. As has been previous noted in past meetings; this particular data sheet goes back to 12/31/2008, which indicates a start balance of \$89,325.73. Through this span of time, it shows various deposits that members have contributed payouts of scholarships and of course the MST 5% manage fee. The general operating account which is housed within the Mining Department shows the current balance of \$7,752.53. This account reflects the money that you contribute from your academy dues or employers matched fund. \$250 put in place to offset the operating expenses, awards, statues and banquet expenses.

**Nominating Committee:**

**Submitted by Nomination Committee Chair: R. Flori**

**So far (as of Oct 24, 2017):**

**New Nominees (Fall 2017 for Spring 2018 Induction): (Nomination deadline Nov 10, 2017)**

Nominee	Discipline	Nominated by:
Steven B. Jung	Ceramic Engineering (2005)	Greg Hilmas, Mike Moats
Richard (Rick) E. Szevery	Metallurgical Engineering (2002)	Greg Hilmas, Mike Moats
Bonnie L. Carson	Geology and Geophysics (1977?)	Terry Donze

**Carryover Nominees (All from Fall 2016):**

Nominee	Discipline	Nominated by:
1. Laura Agee (2nd invite)	Ceramic Engineering (2002)	John Borthwick
2. Kevin Edwards (2nd invite)	Nuclear Engineering (1982)	Ralph Flori
3. Scott Morrison (2nd invite)	Metallurgical Engineering PhD (1986)	Matt O'Keefe
<b>Carryover Nominee from Fall 2015</b>		
4. Bryan Galli (3 <sup>rd</sup> invite)	Mining Engineering (1982)	Dianna Tickner

**To be completed between now and Nov 10:**

Recruit more nominees:

- At the Academy Meeting
- Also contact programs and department chairs not represented here: Nuclear, Ceramic, Geology and Geophysics to ensure have at least one nominee from each program.

**Scholarship Committee-Student Affairs/Scholar Awards/Faculty Awards:**

Wayne Huebner, Committee Chair - Unable to attend; no updates were provided.

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**Jackling Committee:**

Chris Ramsay – No updates provided

**Old Business:** GGPE Search has been completed. Dr. David Borrok is the new chair of GGPE

**New Business:**

MNE department name change. Braden Lusk spoke briefly about we are trying to get the separation of the Mining and Explosive Engineering Faculty. It would be natural that we place the Explosive on the end of the MNE since E is the last of the abbreviation. We had a lot of positive thoughts, then we had Nuclear Engineering Board has shown concerns that this should not be done. In the discussion with the member it was ok to use the "&" in the new department name.

Drillbotics has asked for additional support from the Mines and Metallurgy Academy as they have done in the past. They are seeking \$3500 from the MMA to be plus towards the construction of the drill. As a thank you for the funding received from MMA, Drillbotics will advertise the Academy and its member' support by including their name on the back of the team's t-shirts, the team's website, and on the sponsor's board on the drill itself.

**The meeting was adjourned at 3:30 PM.**