Degree Programs of Distinction Faculty Forum Breakout Session Notes

August 24th, 2015

Two breakout sessions were held, each lasting ~45 minutes and each with 5-10 participants. Attendance was not taken at the breakout sessions.

At the beginning of each breakout session, the session leaders reviewed the committee charge, introduced the idea of a narrative, and then led a discussion of what key parts of the Mines narrative currently were and what participants wished the Mines narrative included. Finally, participants were given a chance to answer Q1 - Q3 at the end of session 1. After talking with participants and realizing that few, if any, had read the committee report the approach was updated for session 2 and Q1 - Q5 were presented to the attendees.

Several high-level themes emerged from the discussion that were not captured in the written meeting notes. These included:

- Having a strong university level narrative was generally supported, however there was no consensus on what that narrative should be.
 - The committee is probably not the one to propose the narrative, however the committee would do well by defining how a narrative could be utilized by programs on campus to become distinctive.
- "Distinctive to whom? As defined by whom?" was a common concern among participants.
 - A strong university narrative could help us define that question with a definitive "defined by the institution"
 - The committee would be wise to address this question head-on as it was a source of much discussion and concern.

Q1 Written Responses: Which comments/observations/recommendations in the committee report do you find compelling and worthy of further consideration? Why?

- "+ Innovative Undergrad Education"
- "+ Narrative of earth energy environment that would link to the future how does Mines prepare/shape the future
 - Then align program distinctives (sic) w/that narrative"
- "Emphasis on innovative education is important"
- "For Physics, there are some connections to industry, but that doesn't fit areas that are more basic research.
 - Our field session is successful by giving students hands-on skills"
- "Emphasize innovation and preparation for transformation"
- "Chang (sic) some departments' names. For example the petroleum can be fossile (sic) energy"
- "Introduce new R&D Centers such as Alternative energies"

 "The narrative must include a sense of problem-solving, adaptation, communication, and service."

Q2 Written Responses: Which comments/observations/recommendations in the committee report do you not compelling? Why not?

- "Ties to industry
 - o but as more than a way to get a highly paid job
 - o this (bullet above) is too much of the story now"

Q3 Written Responses: What, if anything, is missing from the committee report? That is, what challenges, opportunities, or other factors should the committee consider as work on these initiatives continues?

- "Programs can become more distinctive by incorporating travel abroad, service to community, and development of communication skills."
- "Missing: didn't see words like: hands-on, practical"
- "Field session and senior design and unique programs"

Q4 Written Responses: What, in your view, are the Degree Programs of Distinction on campus currently.

- "1. PE appreciated by the industry, success in their career. 2. Geology & Geological Eng. they have a more integrated understanding."
- "Mining Engineering, Geophysics, Chemical & Biological Eng., Hydrology"
- "Petroleum Engineering, Mining, Physics, Geology/Geophysics"
- "Humanitarian Engineering, Petroleum Engineering"
- "Future Characteristics for Distinction Socially Responsible, Social Justice, Critical Thinkers"
- "Undergrad Physics novel, innov.; Petroleum Engineering tight connections to industry"
- "Recognized as amongst top programs in country: Physics B.S., CBE B.S., PE B.S., Hydrology Grad, Materials Grad"

Q5 Written Responses: Should the committee continue to pursue the Mines narrative approach, and if so what should the narrative be?

- "Mines should move from an 'Earth, Energy, Environment' slogan to a mindset that nurtures the
 whole student, building on his or her academic talents in the fields of engineering and applied
 science."
- "Yes; the current one is not very good (too narrow, etc.). No; if the idea is to bring all of the depts. to daylight even if they are not doing great."
- "Yes but it is challenging to create one that is unifying in its inspiration but not
 exclusive/alienating to people with other interests/desires. This requires real leadership to be
 willing to make a stand for something that may be unpopular to some."
- "Narrative 2.0 Care about our students (not a mill), grand challenges save the world mentality, hands-on education, all undergrads do research/internship, real life experience, small classes, mentorship"

- "Yes if it will move us beyond the 'high salary' 'good jobs' existing one. How about a new narrative that says "Mines graduates are socially responsible engineers who can define + solve the most complex problems."
- "Good students, 'compliant' students, not globally focused, small size, specialized, strong alumni"

Whiteboard Notes Regarding: What is Mines current narrative?

> Smaller school

> like to be challenged

> athletics + ach.

> reputation

> 3rd + 4th gen.

> OK to be excited about STEN

> problem solvers (somebody else ID's problems)

> the "not a party school" (I can be serious)

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Narrative

> small size

> focus > specialized

> challenge

> "their intellegence" / smart ppl here.

> No essay; easy to apply

> top school / rigor

> good a sei/math so... Hs cours.

+ parents: eng = \$

> "Mines experience"

Characteristies;

> crunching problem

Solve given problems.

> work hard

compliant/disciplined

Whiteboard Notes Regarding: What should Mines narrative be?

Marrative 2.0

**Transfirmer oration, etc.)

**Leadership 'Zin Sield

**Link to a tradition

Link to a tradition

Link to make a dist.

Link problems

Link to make a dist.

Lin

Narrative 2.0

Ren. ppl.

FEE phys. sci.

eng.

Dartmoth Family'

Risk takers / out-side box thinkers

innovation + hands on etc.

students are part of learning community

wolfownershp.

Earth, NRG, ENU.

The transformative research?