

First Advisory Board Meeting: BSGE

April 21, 2017 1:00 pm Eastern

Dr. John Gierke, Chair, Geological and Mining Engineering and Sciences

Dr. Thomas Oommen, Chair, Geological Engineering Curriculum Committee

AGENDA

- Introduction : Thomas Oommen
- Overview and discussion of educational objectives: John Gierke
 - Clarify/include some additional focus on infrastructure project and civil works, in which GEs are very involved.
 - Some discussion about the emphasis on ABET. Gierke attempted to convey that the ABET accreditation considerations are important drivers but that we approach our ABET assessment activities and addressing program needs in both an altruistic sense, from the standpoint of what makes sense for the strengths and vision for our programs, and with attention to ABET criteria and making sure we meet or exceed what is required for accreditation. The ABET aspects mostly drive the format of our reporting and assessment, rather than driving all our our planning and curriculum adaptations.
- Overview and discussion of student outcomes: John Gierke
 - Include/update the ability to evaluate risk and uncertainty
 - Continue/enhance emphasis on effective communication skills, both oral and written, including communication with the nontechnical public
 - Gierke brought up that as a department, increasingly we are striving to foster computational skills among our students.
 - more discussion needed about addressing perceived weaknesses in new graduates being unable to properly interpret site investigation data and develop appropriate conceptual site models. This is not a perceived weakness of our graduates per se, but a general view of

- engineers entering the workforce that focus on geological systems
 - o Continue to emphasize the importance of surface geophysics in our program, something of a program signature
- Update on ABET evaluation: Thomas Oommen
 - o Self Study report completed July 2017 and will be shared with board
 - o Evaluation visit TBA in Sept/Oct 2017
- Future meeting format discussion
 - o Future meeting TBA in July (roughly)
 - o Assignment for Board Members to provide a picture and brief bio, Thomas to provide more details and to collect.

The Advisory Board:

1. Shannon Lemke, Vice President for Exploration
2. Patricia M. Bryan, President/Principal Geologist at Bryan Environmental Consultants, Inc.
3. Kevin Richards, Senior Engineer, U.S. Army Corps of Engineers
4. Andy Smits, Engineering Manager, Inland Seas Engineering Inc.
5. Bill Griffin, Principal, U.P. Engineers & Architects Inc.
6. Ray Wuolo, Hydrogeologist, Barr Engineering.
7. One vacant (to be filled with someone who has petroleum background)