



# Alpha Eta Mu Beta

## NATIONAL BIOMEDICAL ENGINEERING HONOR SOCIETY

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February 17, 2013 Conference Call

Present: Rafeed Chaudry, Rachel Hanks, Rupak Dua, Stefanie Naufel, Dr. Dominic Nathan, Dr. Anthony McGoron, Dr. Marcia Pool

### Agenda:

1. Update on projects
  - a. Starting of new AEMB chapters from west coast (CA and WA)- Rachel
    - a. Rachel has drafted a letter to contact these schools but has a few questions from Dominic and Marcia
  - b. Industry partnership ideas and Sponsorship- Rafeed
    - a. Contacted Alicia to get her list of contacts
    - b. Has discussed previous solicitations with Alicia
  - c. Alumni Database- Rupak
    - a. Is searching for people but some only have students name and email addresses
    - b. Will look at list on shared drive
2. Social Media
  - a. Maintaining Facebook page
    - a. Will post link to AEMB newsletters
    - b. Stefanie mentioned a poll could be designed if we wanted opinions
  - b. LinkedIn - update site, increase admin access and search for alumni, need to control access to membership and validate
    - a. Marcia to add Rupak and Stefanie to LinkedIn admin
      - i. Update: Rupak added and invitation sent to Stefanie
3. BMES 2013 meeting planning
  - a. Keynote Speaker
    - a. Has identified a speaker: James B. Bassingthwaighte
      - i. James B. Bassingthwaighte is a Professor of Bioengineering and Radiology at the University of Washington. He is an active teacher and researcher focused on bioengineering and quantitative and integrative approaches to cardiovascular physiology. He trained in Physiology and Biochemistry (University of Toronto, B.A. 1951), Medicine (University of Toronto, M.D. 1955), and studied at the PostGraduate Medical School of London (Hammersmith Hospital) and at the Mayo Graduate School of Medicine and Mayo Clinic in Rochester, Minnesota, where he completed a residency in Medicine and Cardiology and a Ph.D. in Physiology (1964). In 1973 at the Mayo Graduate School of Medicine from 1964 to 1975 he became Professor of Medicine and Physiology
      - ii. His topic for the ethic session would be to argue that scientific ethics requires publishing fully reproducible research. Federal agencies are pushing in this direction with requirements for data deposition and PubMed publication, but full reproducibility requires significant effort beyond the current standards. But the technologies for capturing the whole of a project are now available. In examining higher level relationships in complex systems, modeling has become critically important at all levels from gene regulatory networks to cell to organism physiology and pathophysiology. Reproducible hypotheses (models), data, model verification (for mathematical accuracy), validity testing of model



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against data, parameter estimation and confidence ranges, and open sourcing of models, data, and data analyses for widespread dissemination are all needed. A project file, by including data storage, model code, the platform for its computation and the technologies for the modeling analysis of data and the displays of results, can be developed as a unit for the exchange of reproducible science. These are the building blocks of science. What's missing are national archives for the combinations of data and analyses in forms easily explored and improved.

- b. Reception or Lunch
  - a. Discussion around when to have. Everyone seems to prefer an evening reception on Thursday night to coincide with the school receptions
  - b. Also considering finger foods instead of a dinner to allow for mingling and not tying people to designated time as other things are going on (school receptions)
    - i. If mingling, no speaker (is this the preferred option?)
    - ii. If lunch/dinner, we will keep a speaker
4. Coordinator for BMES activities
  - a. Dominic will add in **list of things that need to be accomplished**/typical timeline
5. Nominations call for the Board of Directors- Dr Pool
  - a. 3 nominations for Board of Directors
  - b. 1 nomination for National Treasurer
  - c. Consider an electronic vote but most likely will do an email vote from chapters. Email will be sent to Marcia who will keep an Excel file of votes. Marcia will let Dominic know so he can post instructions on website.
6. Other issues/matters
  - a. Marcia: mailing the LA SOS annual report tomorrow (2.18.2013)
  - b. ACHS vote on February 15<sup>th</sup>? Has anyone heard a response?
    - i. No response