

Minutes for MSM 2015 Breakout Session

Date: September 8, 2015

Time: 1:20 PM EST

Location: Alcove Area 2, Lister Hill Auditorium, National Institutes of Health

Means: In person meeting

Attendees: Gary An (Executive Committee Member)
David Eckmann (Advisory Council Member)
Ahmet Erdemir (Executive Committee Member)
Robert Hestler
Tony Hunt (Advisory Council Member)
Iwona Jaisuk
Bruce Lee
Donna Lochner (Advisory Council Member)
Lealem Mulugeta (Executive Committee Member)
John Rice
Ashley Xia

Agenda:

This gathering was part of the breakout sessions of the 2015 Multiscale Modeling Consortium Meeting. This session provided the opportunity to have a face-to-face interaction between Committee members and engage with the multiscale modeling & simulation community. The overall goals were to introduce the Committee to those in the modeling community, to provide a summary of activities and accomplishments of the first-term of the Committee, and to discuss directions for the next term.

Action Items:

See Notes for details.

- **Lealem and Ahmet:**
 - Follow up with IMAG/MSM and attendees to summarize meeting outcome.

Notes:

1. **Introductions.** All attendees introduced themselves, providing brief information on where they fit the modeling and simulation spectrum.
2. **Overview Presentation.** Lealem went over a presentation prepared to provide an overview of the Committee and to summarize the progress in first-term activities.
3. **Glossary.** The group spent significant amount of time to discuss the Glossary effort. First, the motivation behind this effort was described by Committee members.
 - This activity is a key element to Committee's charge to establish consistent terminology among varying disciplines involved in modeling & simulation. The Glossary is anticipated to promote interdisciplinary communication and will likely illustrate how different fields communicate. It is not necessarily desirable to enforce a common terminology but to provide a reference. As David notes, the outcome of this activity will be the language of modeling & simulation in healthcare.

- Many attendees from the community showed an interest in publication of the Glossary. Venues to publish were discussed - as a peer-reviewed article, as a formal document similar to the efforts of NASA and DoD, as a National Library of Medicine initiative.
 - Logistics of accumulating definitions for modeling & simulation terms were discussed. John noted every community being a potential source for a dictionary. This was a reason for Committee members' outreach to diverse groups. Iwona recommended involvement of NIST in this regard. Gary wondered importing of definitions from existing dictionaries, e.g. of DoD.
4. **Ten Simple Rules.** Lealem and Ahmet described the Ten Simple Rules initiative targeted to establish broad guidelines for credible practice in modeling & simulation in healthcare.
- Ahmet mentioned the discussions within the Committee to come up with Ten Simple Rules. This effort was presented as a poster at a 2015 BMES/FDA meeting.
 - Lealem described the public survey. He provided a preliminary analysis of survey results indicating some overlaps and some differences between Committee and Community perspectives. There seemed to be a match in four rules. The demographics of the survey participants were briefly evaluated. It appears that majority of survey participants had an engineering and research focus whereas the Committee roster had a broader interest range including clinicians and government workers.
 - Tony advised to present the results (Committee and Community perspective) as is and let people make their own conclusions. It may be possible to find a compromise to establish broader guidelines.
5. **Other .**
- Given the intensity of discussion on the Glossary, the Committee members decided to focus increased activity in that area.
 - Lealem also mentioned the model credibility plan requested in NIH MSM applicants during their grant submission. The Committee will engage with grantees pro-actively to learn from their experience and to provide support based on Committee's activities.
 - All were encouraged to check the Committee wiki pages and contribute to the Glossary. The Committee Co-Chairs noted that the presentation provided in the meeting would be available at the project site.