

Summary of Discussion

Technical Committee on Translational Engineering and Healthcare Innovation (TEHI)

Teleconference Meeting
January 5, 2017
12.00 PM – 1.15 PM

Agenda

1. Welcome and Greetings
2. Report from the HI-POCT 2016 Conference
3. JTEHM Special Issue HI-POCT September 2017
CFP on <http://health.embs.org/call-for-papers/jtehm-2017-special-issue-ieee-nih-healthcare-innovations-point-care-technologies-hi-poct16/>
4. Planning of HI-POCT 2017 Conference at NIH-Bethesda: November 6-7, 2017
5. Special Sessions/Workshops/Tutorial for Theme 12: 2017 EMBS Annual Conference: Translational Engineering for Healthcare Innovation and Commercialization;
<http://embc.embs.org/2017/>
Any invited session or miniSymposium proposal should be proposed as soon as possible by December 31, 2016. Please see the Call for Proposals on the website
<http://embc.embs.org/2017/proposals-for-workshops-tutorials-invited-sessions-mini-symposia-and-special-sessions/>
6. Any Nominations for EMBS awards?
7. GHCN Priority Issues and Networking
8. Other issues

The teleconference meeting started with the greetings of Happy New Year.

Atam thanked technical committee members for their input and participation in HI-POCT 2016 conference. It was a great success. The core theme for the HI-POCT 2017 was set in the HI-POCT 2016 conference panel sessions as “Translation in Technology” to address healthcare needs.

Atam discussed previous experiences and feedback from HI-POCT 2015 and Hi-POCT 2016 conferences. The draft agenda, “Program at a Glance” was the discussed that incorporated feedback from two previous conferences and combined formats to add another half-day program extending the conference to November 8 from 8.30 AM to 12.00 PM to include technical sessions and final Strategic Directions Panel Discussion session.

Atam described the conference leadership team for HI-POCT 2017. NIBIB was the lead NIH institution in 2015; NCI was the lead institution in 2016. NHLBI is the lead institution for NIH-IEEE EMBS Strategic Conference on Healthcare Innovations and Point-of-Care Technologies (HI-POCT 2017) with the core theme: “Technology in Translation”. George Mensah, MD, Director,

NHLBI Translational Center will co-chair the conference with Atam Dhawan. Tiffani Lash, PhD from NIBIB and Steven Schachter, MD from CIMIT/Harvard Medical School will be co-program chairs. Another co-program chair from NHLBI will be added.

Atam requested input for breakout sessions to be relevant to the conference theme. Jie, Srin, Steve, Paul, Julian, Tom, Omar and Dorin made excellent suggestions to define the format and scope of breakout sessions. The following format was agreed:

1. We should keep 4 breakout sessions but focused on relevant themes as:

<p>3.45 – 5:30 PM</p> <p>Breakout Session 1</p> <p>Developing Internal and External Resources For Translation</p> <p>Co-Chair: Jody Black, NHLBI</p>	<p>3.45 – 5:30 PM</p> <p>Breakout Session 2</p> <p>Clinical Translational Challenges</p> <p>Co-Chair: Steve Schechter</p>	<p>3.45 – 5:30 PM</p> <p>Breakout Session 3</p> <p>Technology Translation and Regulatory Issues</p> <p>Co-Chairs: TBD</p>	<p>3.45 – 5:30 PM</p> <p>Breakout Session 4</p> <p>Validation, Standards and Security</p> <p>Co-Chairs: Julian Goldman, MD TBD</p>
--	---	---	--

2. We should have a breakout selection checkbox at the conference registration webpage to select one of the four breakout sessions.
3. Each breakout session will then be assigned a folder with pre-conference information and material related to the respective breakout sessions scope and questions in a dropbox or Google Document environment so that participant can review the material, post their questions, issues and comments and be better prepared for more productive discussions at the breakout sessions.
4. If any one of the breakout sessions receives a low participation, the questions from the low-attendance session will be rolled over to other breakout sessions to cancel the low-attendance breakout session. Participants will be notified in advance.

Atam then discussed a new initiative of having a Translational Showcase Demo Session at the conference. There was a good discussion on the specific stakeholder groups and their participation to discuss facilitation of the later part of translation science and engineering into clinical and healthcare applications. Paul pointed out that the demo session is a good idea but the security clearance has to be taken well in advance for participants to bring their prototypes or devices for demonstration. Paul, Steve, Srin, Jie and others also pointed out that we should reach out to the following group of stakeholders and invite them to come to the conference.

These include:

- People in Translational Science and Engineering
- Angel Investors
- Public Health People

- Non-Profit organizations for the development, NGO: (Paul Pearlman’s suggestion)
- Patient Advocacy Groups
- Regulatory Groups

We need to discuss a process to organize the Translation Showcase Demo Session with respect to Call For Proposals for Demo Session: one page abstract; review process, and sponsorships on resources. These will be discussed with the HI-POCT 2017 planning committee teleconference meeting on January 9 and 19.

Atam then requested the TC members to actively participate through proposal submission for workshops and min-symposia at the EMBC 2017 conference, and also submitting papers to Theme 12 of the annual conference.

Atam requested TC members to help promote the JTEHM Special Issue on HI-POCT for 2017. Dorin is submitting a proposal on translational engineering covering IP, regulatory and investment issues.

Atam also requested TC members to nominate worthy candidates for EMBS awards as soon as possible.

Atam thanked everyone for participation. The teleconference ended at 1.15 PM.

**Healthcare Innovations and Point of Care Technologies:
Technology In Translation**

November 6-8, 2017

NIAID Conference Center, 5601 Fishers Lane, Bethesda, MD 20852

Monday November 6, 2017

8:00 – 8:30 AM Reception
8:30 – 8:45 AM Welcome and Overview of the Conference Goals George Mensah, MD, FACC (NHLBI) Atam Dhawan, PhD (NJIT)
8:45 – 9:45 AM Keynote – Precision Health TBD

<p>9:45 – 10:45 AM Panel Session I Clinical Needs Driving Technology Innovation for Precision Health Steve Schachter, MD, CIMIT, Harvard Medical School Srinidhi Tridandapani, MD, PhD, Emory University TBD: Speaker from NIH</p>
<p>10:45 – 11:00 AM Coffee Break</p>
<p>10:45 – 11:45 PM Panel Session II Enabling Technologies: Point-Of-Care Diagnosis and Monitoring Rebecca R. Richards-Kortum, PhD, Rice University Paul Yager, PhD, University of Washington TBD</p>
<p>11:45 – 1:45 PM Lunch, Poster and Demo Session, POC Technologies Demonstrations</p>
<p>1:45 – 2:45 PM Panel Session III Translation and FDA Regulatory Issues for POC Technologies TBD</p>
<p>2:45 – 3:45 PM Panel Session IV Big Data Analytics in Precision Health TBD</p>
<p>3:45 – 4:00 PM Break</p>
<p>4:00 – 5:00 PM Panel V: Federal Funding Opportunities and Resources Funding Agencies; Angel Investors?, TBD</p>
<p>6:00 – 8:00 PM Reception IEEE/EMBS</p>

Tuesday, November 7, 2017

<p>8:00 – 8:30 AM Reception</p>
<p>8:30 – 9:30 AM Keynote – POC Technologies: Translation to Market Rick Ivey, PhD, WW VP R&D Diagnostic Systems, BD Life Sciences</p>

<p>9:30 – 10:45 AM</p> <p>Panel Session VI</p> <p>Global Healthcare and POC Technologies</p> <p>Paul Pearlman, PhD, NCI, NIH</p> <p>Jim Gallarda, PhD (BMGF)</p> <p>TBD: WHO Speaker; US-India Program; Latin America Speaker</p>			
<p>10:45 – 11:00 AM</p> <p>Break</p>			
<p>11:00 – 12:00 PM</p> <p>Panel VII</p> <p>Bench to Market: Standards and Regulatory Considerations</p> <p>Carole Carey, BSEE, MEng, C3-Carey Consultants, LLC (Chair)</p> <p>Julian Goldman, MD, Harvard Medical School</p> <p>TBD</p>			
<p>12.00– 2.00 PM</p> <p>Lunch Break, Poster Session, POC Technologies Demonstrations</p>			
Track 1	Track 2	Track 3	Track 4
<p>2.00 – 3.30 PM</p> <p>Technical Session</p> <p>National Institute of Biomedical Imaging and Bioengineering</p> <p>Co-Chairs:</p> <p>Christine Kelley, PhD</p> <p>Tiffani Lash, PhD</p>	<p>2.00 – 3.30 PM</p> <p>Technical Session</p> <p>National Cancer Institute</p> <p>Co-Chairs:</p> <p>Vidya Vidham, PhD</p> <p>Laura Povlich, PhD</p>	<p>2.00 – 3.30 PM</p> <p>Technical Session</p> <p>National Heart, Lung and Blood Institute</p> <p>Co-Chairs:</p> <p>TBD</p>	<p>2.00 – 3.30 PM</p> <p>Technical Session</p> <p>NIAID</p> <p>Co-Chairs:</p> <p>TBD</p>
<p>3.30 – 3.45 PM</p> <p>Break</p>			
<p>3.45 – 5:30 PM</p> <p>Breakout Session 1</p> <p>Developing Internal and External Resources For Translation</p> <p>Co-Chair:</p> <p>Jody Black, NHLBI</p>	<p>3.45 – 5:30 PM</p> <p>Breakout Session 2</p> <p>Clinical Translational Challenges</p> <p>Co-Chair:</p> <p>Steve Schechter</p>	<p>3.45 – 5:30 PM</p> <p>Breakout Session 3</p> <p>Technology Translation and Regulatory Issues</p> <p>Co-Chairs:</p> <p>TBD</p>	<p>3.45 – 5:30 PM</p> <p>Breakout Session 4</p> <p>Validation, Standards and Security</p> <p>Co-Chairs:</p> <p>Julian Goldman, MD</p> <p>TBD</p>
<p>6:00 – 8:00 PM</p> <p>Reception</p> <p>IEEE/EMBS/Wireless Health ?</p>			

Wednesday, November 8, 2017

Track 1	Track 2	Track 3	Track 4
8:30 – 10:00 AM Technical Session	8:30 – 10:00 AM Technical Session	8:30 – 10:00 AM Technical Session	8:30 – 10:00 AM Technical Session
10:00 – 10:15 AM Break			
10:15 – 12:00 PM Panel VIII Strategic Future Directions Panel Discussion Keynote: TBD Reports from Chairs, Breakout Sessions			