

NIST Workshop on Standards for Microfluidics

Thursday June 1, 2017

Co-chairs: Darwin R. Reyes, NIST; Henne van Heeren, enablingMNT

Morning Presentations

8:30 AM Registration (Visitor's badges will be given at the NIST front gate.)

9:15 AM Welcome and Opening Remarks
Dr. Laurie Locascio, Acting Director for Laboratory Programs and
Director of Material Measurement Laboratory and Dr. James Olthoff,
Director of the Physical Measurement Laboratory, NIST

9:35 AM Henne van Heeren, enabling MNT, The Netherlands
Overview of the IWA on *Interoperability of microfluidic devices -
Guidelines for pitch spacing dimensions and initial device classification.*

10:10 AM – 10:20 AM Break

Session 1: Combining Microfluidics and Electronics (Integration)

10:10 AM Mark Tondra, Diagnostic Biosensors, USA

10:40 AM Chengxun Liu, IMEC, Belgium

11:10 AM Erik Beckert, Fraunhofer IOF, Germany

11:40 Noon – 1:00 PM Lunch*

Afternoon Presentations

Session 2: Cell-based Assays/*In vitro* Diagnostics

1:00 PM Keynote Presentation: Microfluidics and Regulations for In Vitro
Diagnostics

Yun-Fu Hu, Food and Drug Administration (FDA), USA

1:45 PM Vivienne Williams, Cellix Limited, Ireland

2:15 PM Luis Fernández Ledesma, microLIQUID S.L., Spain

2:45 PM Mandy Esch, NIST, USA

3:05 – 3:40 PM Break & Poster Session

Session 3: Flow Control and Verification Testing

3:40 PM Hugh Fan, University of Florida, USA

4:10 PM Alexios Tzannis, IMT, Switzerland

4:40 PM James Booth, NIST, USA

From 5:30 PM Dinner** at Dogfish Head Alehouse (An area in the restaurant has been reserved for the attendees of the conference from 5:30 PM)
800 W Diamond Ave, Gaithersburg, MD 20878 (In front of NIST)

* **Attendees are responsible to pay for their own food and drinks

NIST Workshop on Standards for Microfluidics

Friday June 2, 2017

Morning Presentations

8:45 AM Announcements

Session 4: Sensors, Testing and Interconnectors

9:00 AM Hugo Bissig, METAS, Switzerland

9:30 AM Anne Le-Nel, Fluigent, France

10:00 AM Sammy Datwani, Labcyte, USA

10:30 - 10:50 AM Break

Session 5: Modular Systems

10:50 AM Po Ki Yuen, Corning, USA

11:20 AM Nicolas Verplanck, CEA-LETI, France

11:50 AM Wilfred Buesink, Micronit, The Netherlands

12:20 Noon – 1:30 PM Lunch

Afternoon Sessions

Panel Discussions

1:35 PM – 3:10 PM Breakout Sessions

1. Integration of Microfluidics and Electronics
2. Flow control, Sensors and Testing
3. Interconnectors and Modular systems

3:10 PM – 3:30 PM Break

3:30 PM – 4:00 Breakout Sessions (Time to Summarize the Discussions)

1. Integration of Microfluidics and Electronics &
2. Flow control and Sensors
3. Interconnectors and Modular systems

4:00 PM – 4:30 PM Closing Session – Next Steps
Session Chairs (10 minutes each)

4:30 PM Closing Remarks

4:40 PM Adjourn ^

^There will be a tour to the NIST Nanofabrication Facility after the workshop, from 4:45 pm to 5:15 pm. For those interested, please contact Darwin Reyes via email at darwin.reyes@nist.gov