

January 8

2016

University of Cincinnati Sensor Community Retreat: Making Connections

Event Program



UC Sensor Community - Organizing Committee

William Heineman, Chemistry, A&S

William Connick, Chemistry, A&S

Peng Zhang, Chemistry, A&S

Alison Weiss, Molecular Genetics, MED

Richard Beck, Geography, A&S

Steven Doehler, Design, Architecture, Art, and Planning, DAAP

Gerald Kasting, College of Pharmacy

Hongxing Liu, Geography, A&S

Ian Papautsky, Elec Eng & Comp Systems, CEAS

Leigh Smith, Physics, A&S

Philip H. Taylor – Assistant Vice President for Research, Strategic Implementation

Faiz Sherman – Procter & Gamble Co.

Christopher Palassis - Xylem/YSI Inc.

Kimberly Carey, Chemistry

Marilyn Paolo, Molecular Genetics

Hannah Back, Communication, A&S

Autumn Leigh Miller, Communication, A&S

University of Cincinnati Sensor Community Retreat: Making Connections

January 8, 2016 11:00 am – 5:00 pm
Great Hall, Tangeman University Center

11:00 – 12:30 Sensor Opportunities in the Community

Philip H. Taylor – Assistant Vice President for Research, Strategic Implementation, UC
William Heineman – Department of Chemistry, UC
Gayle DeBord – National Institute for Occupational Safety and Health
Joel Allen – Environmental Protection Agency
Rajesh R. Naik – Wright Patterson Air Force Base
Faiz Sherman – Procter & Gamble Co.
Tiffany Schirmer – Xylem/YSI
Sara Guice and Mark Santen – University of Cincinnati Research Institute

12:30 – 1:30 Group Discussions and Lunch

(Box lunches provided for those who have registered)

1:30 – 2:00 Sensor Opportunities at UC

College of Pharmacy – **Gerald Kasting**
College of Design, Architecture, Art, and Planning – **Steven Doehler**
Biological Systems – **George Uetz**

2:00 – 3:30 Project presentations

Jason Heikenfeld, Professor, Electrical, Material, and Biomedical Engineering
Dharma Agrawal, Professor, EECS
Howard Fan, Professor, EECS
Michael Riley, Professor; Director of Center for Cognition, Action, & Perception, Psychology
Mingming Lu, Associate Professor, Department of Biomedical, Chemical and Environmental Engineering
Julian Wang, Assistant Professor, Joint/Department of Civil and Architectural Engineering & the School of Architecture and Interior Design
Glenn Talaska, Professor, Environmental Health
Patrick Ryan, Associate Professor, Pediatrics / Environmental Health
Erin Haynes, Associate Professor, Environmental Health
Hongxing Liu, Professor, Geography
Elke Buschbeck, Professor, Biological Sciences
Peng Zhang, Associate Professor, Chemistry
Laura Sagle, Assistant Professor, Chemistry
Nayana Shah, Assistant Professor, Physics
Hans-Peter Wagner, Associate Professor, Physics

Summary and Future

3:30 – 5:00 Poster Session/Social

Lunch Discussion Topics

Sensor Applications:

- Diagnostics
- Biomarkers
- Point-of-Care Devices
- Environmental Sensing
- Remote sensing
- Informatics, analytics, networks, modeling
- Data management and sharing
- Interactive Media, Brain sensors, Sound, Visuals
- Intelligent systems
- Cognitive & sensorimotor systems

Sensor technology:

- Materials - Nanomaterials, nanopore sensors, Nanofiber
- Electrochemical Sensors
- Microfluidics
- Portable and real time sensors for field operations POC
- Detection technology - Chemical / electrochemical
- Detection technology - physical
- Software Engineering, Process Control, Embedded Systems
- Biosensors

Retreat Participants

University of Cincinnati

College/Affiliation	Name	Position	Department	Email
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Office of Research Strategic Implementation 2016 Advanced Research Series

1. Sensor Community Retreat
January 8
Presentations, posters, lunch, networking reception
11 am to 7 pm
TUC Great Hall
Registration required
2. Pathway to Technology Commercialization
Geoffrey Pinski, Dorothy Air, and David Linger
March 3
Seminar w/ Q & A
11:30 am – 1:30 pm (lunch included)
454 University Hall
Registration required
3. Challenge of Big Data Analytics
Jianqing Fan, Professor of Finance, Princeton University
April 7
Seminar w/ Q & A
10 am – 11:30 am
Location TBD
4. External Research Funding
Jianqing Fan, Professor of Finance, Princeton University
April 8
Interactive Discussion
By invitation, registration required
1:30 – 3:00 pm
Location TBD
5. Medical Device Development (placeholder)
John Watson, Professor, UCSD
April 20
Research Week Keynote Lecture
4 pm
Kresge Auditorium