

ASSIST Industry Meeting

January 26-27, 2017 – Raleigh, NC

Schedule subject to change

Thursday January 26th

- 8:00am: Registration and networking continental breakfast
- 8:30am: ASSIST Industry Meeting Welcome, with College of Engineering Dean Louis Martin-Vega
- 8:45am: ASSIST Overview – Dr. Veena Misra, ASSIST Center Director
- 9:15am: ASSIST-ing Industry: Engagement and Support – Dr. Casey Boutwell, ASSIST Director of Industry Engagement
- 9:30am: Testbed: Self-Powered and Adaptive Platform (SAP) Overview – Dr. John Lach, SAP Testbed Leader (University of Virginia)
- 9:45am: SAP Featured Project: Mechanical Energy Harvesting from Wrist and Upper Arm Motion – Dr. Shad Roundy (University of Utah)
- 10:00am: SAP Featured Project: Integrated Sensor Node Design and Prototyping – Dr. Ben Calhoun (University of Virginia)
- 10:15am: SAP Featured Project: Bulk Nanocomposite Thermoelectric Materials – Dr. Daryoosh Vashaei (North Carolina State University)
- 10:30am: Break
- 11:00am: Testbed: Health and Environmental Tracker (HET) Overview – Dr. Alper Bozkurt, HET Testbed Leader (North Carolina State University)
- 11:15am: HET Featured Project: Low Power Pulse Oximetry – Dr. Alper Bozkurt (North Carolina State University)
- 11:30am: HET Featured Project: Mechanically Resonant Chem/Biosensor Arrays Based on Capacitive Micromachined Ultrasonic Transducers – Dr. Omer Oralkan (North Carolina State University)
- 11:45am: HET Featured Project: Ultra Low-Power Sensors for Human Breath and Environmental Monitoring – Dr. Veena Misra (North Carolina State University)
- 12:00pm: Lunch
- 12:40pm: Keynote Address –Dr. Gül Ege, R&D Senior Director, SAS Institute
- 1:00pm: Emerging Research Highlight: Fiber Assemblies for Flexible and Breathable Thermal Conductors – Dr. Philip Bradford (North Carolina State University)
- 1:15pm: Emerging Research Highlight: Strain Energy and Piezoelectric Harvesting Circuit Design – Dr. Mehdi Kiani (Pennsylvania State University)

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Thursday, January 26th (cont'd)

- 1:30pm: Emerging Research Highlight: Towards human testing and practical implementation of non-invasive, long-term sweat sampling by biomimetic osmotic principles - Dr. Orlin Velez (North Carolina State University)
- 1:45pm: Emerging Research Highlight: Epidermal Biosensor Platform with Variable Recognition – Dr. Michael Daniele (North Carolina State University)
- 2:00pm: Emerging Research Highlight: An Electrochemical Sensing Platform for Monitoring the Process of Wound Healing - Dr. Shekhar Bhansali (Florida International University)
- 2:15pm: Student Research - Elevator Pitches – Richa Agrawal, Raj Bhakta, James Deiffenderfer, Laura Gonzalez, Luis Lopez Ruiz, Steven Mills, Sohini RoyChoudhury, Hong Goo Yeo, Murat Yokus, Taiwei Yue
- 2:35pm: Research Poster Session and Technology Demonstrations
- 4:00pm: Laboratory Tours (lead by students), concurrent private meetings as scheduled
- 6:00pm: Reception/Dinner
- 7:30pm: Student-Industry Mixer

Friday January 27th

- 8:00am: Networking breakfast
- 8:30am: Industry Advisory Board Meeting (Private: ASSIST Industry Members)
- 8:30am: Final Networking Session for Students, PIs, and Industry Guests
- 10:00am: Break
- 10:30am: ASSIST Sustainability Roundtable
- 11:00am: Thrust Pitches (2 minutes each)
- Thrust 1 Leader: Dr. Susan Trolier-McKinstry (Pennsylvania State University)
- Thrust 2 Investigator: Dr. Vijay Narayanan (Pennsylvania State University)
- Thrust 3 Leader: Dr. Omer Oralkan (North Carolina State University)
- Thrust 4 Leader: Dr. Ben Calhoun (University of Virginia)
- Thrust 5 Leader: Dr. Jess Jur (North Carolina State University)
- 11:15am: Research Project Focus: Rotating Small Group Meetings, led by Thrust Leaders
- 12:30pm: Lunch
- 1:30pm: Small Group Recap, led by ASSIST Thrust Leaders
- 2:30pm: Adjournment