



INDUSTRY MEETING

DUKE ENERGY HALL
JAMES B. HUNT, JR. LIBRARY
NC STATE UNIVERSITY

OCTOBER 3, 2024

ICONS
INSTITUTE FOR CONNECTED SENSOR-SYSTEMS

The logo for the Institute for Connected Sensor-Systems (ICONS) features the word "ICONS" in a large, bold, black, sans-serif font. The letter "O" is replaced by a circular icon containing a white outline of the state of North Carolina. A red arrow points from the bottom-left towards the top-right, passing through the center of the circle. Below the word "ICONS", the full name "INSTITUTE FOR CONNECTED SENSOR-SYSTEMS" is written in a smaller, black, sans-serif font.

Today's Agenda

8:00-9:00a **Registration, Breakfast, Networking**

9:00-9:30a **Overviews**

Ravi Chilukuri, Industry Ecosystem Director
Alper Bozkurt, ASSIST Co-Director
Michael Daniele, IConS Co-Director

9:30-10:15a **Faculty Presentations**

Michael Daniele:
Bio-Derived and Biodegradable Materials for Bioelectronics
Edgar Lobaton:
Empowering Acoustic Speech Analysis with AI-Powered wearables
Amay Bandonkar:
Wearable bioelectronics for sensing and regenerative medicine

10:15-10:30a **Networking Break**

10:30a-12:00p **Faculty Presentations**

Abraham Vazquez-Guardado:
Implantable optical biosensors based on carbon nanotube fluorophores
Amanda Mills:
In-fiber Device Integration into Woven Textile Structures
Koji Sode:
Challenges to realize the in vivo continuous biosensing system
Xiaoning Jiang:
Wearable Ultrasound Blood Pressure Monitoring System for Cardiovascular Health
Xiaomeng Fang:
Bi-functional Textile-based Wearable Sensors and Actuators
James Reynolds:
From Verification to Verdure: Interdisciplinary Developments at ASSIST

12:00-1:00p **Lunch**

1:00-2:00p **Industry Presentations**

Bill Kutsche: Murata
Jae Lee: Toyota
Simon Dodd: ST Micro
Wes Schropp: Gadgeon
Joe Hensler: Solventum
Les Hamashima: EMF Disturbance Monitors

2:00-2:40p **Tech Translation**

Michael Daniele: DermiSense
Yalcin Yamaner: ClearSens
Qingshan Wei: WolfSens
Alper Bozkurt: SentryPulse

2:40-3:00p **Networking Break**

3:00-5:00p **Short Courses**

Michael Dickey:
Printable Flexible and Stretchable Electronics Using Liquid Metal
Suresh Venkatesh:
Integrated RF Computational Imaging Systems
Michael Kudenov:
Tradeoffs in Optical Remote Sensing

5:00-7:00p **Poster Session**

Join us for drinks and hors d'oeuvres as you explore the innovative research showcased here today.