

Wearable Sensors Research Program Schedule

Date: August 25, 2025

Time Zone: Eastern Time (ET)

Program Introduction

8:30 - 8:40 AM ET

Welcome and Overview

Main Speaker Sessions

(25-30 minutes each + 5 minutes Q&A)

Keynote Presentation 1

8:40 - 9:10 AM ET

Speaker: Netz Arroyo

Institution: University of North Carolina

Email: narroyo@unc.edu

Q&A: 9:10 - 9:15 AM ET

Keynote Presentation 2

9:15 - 9:40 AM ET

Speaker: Omer T Inan

Institution: Georgia Institute of Technology

Email: inan@gatech.edu

Q&A: 9:40 - 9:45 AM ET

Keynote Presentation 3

9:45 - 10:10 AM ET

Speaker: Chi Hwan Lee

Institution: Purdue University

Email: lee2270@purdue.edu

Q&A: 10:10 - 10:15 AM ET

Talk

10:15 - 10:40 AM ET

Speaker: Roger Narayan

Institution: NC State University

Email: rjnaraya@ncsu.edu

Q&A: 10:40 - 10:45 AM ET

Keynote Presentation 4

10:45 - 11:15 AM ET

Speaker: John A Rogers

Institution: Northwestern University

Email: jrogers@northwestern.edu

Q&A: 11:15 - 11:20 AM ET

Keynote Presentation 5

11:20 - 11:45 AM ET

Speaker: Sheng Xu

Institution: UC San Diego

Email: shx064@ucsd.edu

Q&A: 11:45 - 11:50 AM ET

Break

11:50 AM - 12:05 PM ET

15-minute networking break

Lightning Talks

(10 minutes each)

Lightning Talk 1

12:05 - 12:15 PM ET

Speaker: Shehr Bano

Institution: Namal University

Email: bscs23f11@namal.edu.pk

Topic: Real-Time Sweat-to-Blood Glucose Correlation Using RISC-V Processing

Lightning Talk 2

12:15 - 12:25 PM ET

Speaker: Elizabeth Bury

Institution: University of Alabama

Email: egbury@crimson.ua.edu

Topic: Improving Deformable Dielectric Composites for Wearable Pressure Sensors

Lightning Talk 3

12:25 - 12:35 PM ET

Speaker: Upasana Ghosh

Institution: Duke University

Email: upasana.ghosh@duke.edu

Topic: Electropolymer that can genetically link neurons to electrodes

Lightning Talk 4

12:35 - 12:45 PM ET

Speaker: N Hareesh

Institution: Velagapudi Ramakrishna Siddhartha Engineering College

Email: hareeshnallagatla@gmail.com

Topic: AI Stethoscope Revolutionizing Home Healthcare using Machine Learning

Break

12:45 - 12:55 PM ET

Lightning Talk 5

12:55 - 1:05 PM ET

Speaker: Umer Hassan

Institution: Rutgers University

Email: umer.hassan@rutgers.edu

Topic: Microfluidic Impedance Cytometry for Biomarker Analysis

Lightning Talk 6

1:05 - 1:15 PM ET

Speaker: Pegah Jamali

Institution: Rutgers University

Email: pj320@scarletmail.rutgers.edu

Topic: Portable smartphone-based fluorescence sensor platform for CRP detection

Lightning Talk 7

1:15 - 1:25 PM ET

Speaker: Ajeet Kaushik

Institution: Florida Polytechnic University

Email: ajeet.npl@gmail.com

Topic: Electrochemical Sensing of Microplastics and PFAS in POC Setting

Lightning Talk 8

1:25 - 1:35 PM ET

Speaker: Savas Kaya

Institution: Ohio University

Email: kaya@ohio.edu

Topic: Triboelectric Sensors for Physiological Monitoring

Lightning Talk 9

1:35 - 1:45 PM ET

Speaker: Monika Kumari

Institution: IIT Jammu

Email: 2021rch1009@iitjammu.ac.in

Topic: Biophysics-Driven Plasma Separation and Colorimetric Kidney Biomarker Detection

Lightning Talk 10

1:45 - 1:55 PM ET

Speaker: Robert Lin

Institution: Rochester Institute of Technology

Email: rl8810@rit.edu

Topic: Refining Impedance Stability in Multi-Layered PVA-Based Skin Phantoms

Break

1:55 - 2:05 PM ET

Lightning Talk 11

2:05 - 2:15 PM ET

Speaker: Yogendra Kumar Mishra

Institution: University of Southern Denmark

Email: mishra@mci.sdu.dk

Topic: Tetrapods based Smart Materials for Advanced Technologies

Lightning Talk 12

2:15 - 2:25 PM ET

Speaker: Muhammad Osama

Institution: Namal University, Mianwali

Email: bsee23f01@namal.edu.pk

Topic: MXene-Integrated Elastomeric Sensor with Autonomous Healing and Energy Generation

Lightning Talk 13

2:25 - 2:35 PM ET

Speaker: Ahmed Salim

Institution: Namal University Mianwali

Email: ahmed.salim@namal.edu.pk

Topic: Perovskite Solar Cell-Powered Wearable Patch for Real-Time Health Monitoring

Lightning Talk 14

2:35 - 2:45 PM ET

Speaker: Ardy Wong

Institution: University of Maryland

Email: Awong130@umd.edu

Topic: A Pulsatile Testbed for Wrist-worn PPG-based Cuffless Blood Pressure Monitors

Closing Remarks

2:45 - 2:50 PM ET

Program wrap-up