

Session Program

Apr 1 - 2, 2026



2026 HBCU CHIPS Network Conference

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Technical Session 2

Renaissance Atlanta Midtown Hotel, Centennial Ball Room
866 W Peachtree St NW, Atlanta, GA 30308

Wed, April 1

2:45 PM

Technical Session 2: Room A: Materials & Devices

Session | Location: 5th floor, Chastain A | Convener: Durga R. Gajula

2:45 – 3:05 PM

Using Q-Switched Lasers for Multi-Beam Multi-Target Pulsed Laser Deposition of Photonic High-Entropy Alloy Films

Speaker

David Rossmanith

3:05 – 3:25 PM

Van der Waals Integration of Semi-Metallic PdSe2 Contacts for High-Performance n-type WS2 Field Effect Transistors

Speaker

Saurabh Dixit

3:25 – 3:45 PM

Dielectric Properties of Conducting Boron-Doped Diamond

Speaker

Daniel Harrison

3:45 – 4:05 PM

Growth of Cubic Boron Nitride by Electron Cyclotron Resonance Chemical Vapor Deposition on Boron Doped Diamond Substrates

Speaker

Mr Sheikh Mahtab

4:05 PM

2:45 PM

Technical Session 2: Room B: AI in Semiconductors

Session | Location: 5th floor, Chastain B | Convener: Asif I. Khan

2:45 – 3:05 PM

A Lab-to-Go Approach for AI and Semiconductor Education

Speaker

Xuemin Chen

3:05 – 3:25 PM

Diamond Quantum Vector Magnetometer Optimization with Machine Learning Models

Speaker

Hamdin Ozden

3:25 – 3:45 PM

Adaptive Self-Healing Neuromorphic-Inspired VLSI Architecture for UltraLow Power Edge AI

Speaker

Graham Thomas

4:05 PM

3:45 – 4:05 PM

Maximizing HBCU University Websites to Highlight Contributions to AI-Enabled Semiconductors: Research, Workforce Development, Academic Programs, and Institutional Initiatives

Speaker

Myah Webb

2:45 PM

Technical Session 2: Room C: Education and Workforce Development

Session | **Location:** 5th floor, Rialto A | **Convener:** Shyam Aravamudhan

2:45 – 3:05 PM

Bridging the Talent Gap: A New Approach to Accelerating Workforce Solutions for Semiconductors

Speaker

Michelle Williams-Vaden

3:05 – 3:25 PM

Collaborative Research: Advancing Semiconductor Education through Expansion and Diversification (ASEED)

Speaker

Suxia Cui

3:25 – 3:45 PM

Development of a Multiuser Collaborative Virtual Training Environment for Photolithography Cleanroom Processes

Speaker

Emmanuel Osei-Kwame

3:45 – 4:05 PM

On the Feasibility of Solving the Time Independent Schrödinger Equation using Neural Network and Block Form with Rayleigh Quotient Loss Function

Speaker

Prof. T.L. Wallace

4:05 PM