

Session Program

Apr 1 - 2, 2026



2026 HBCU CHIPS Network Conference

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Technical Session 3

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

Thu, April 2

12:25 PM

Technical Session 3: Room A: Materials & Devices

Session | **Location:** 5th floor, Chastain A | **Convener:** Mohammadreza Hadizadeh

12:25 – 12:45 PM

Interface-Engineered van der Waals Heterostructures for Next-Generation Microelectronic Contacts

Speaker

Mohamed Noufal

12:45 – 1:05 PM

Growth of Scandium Diboride Semimetallic Single Crystals by Laser Floating Zone Method

Speaker

Ahamed Raihan

1:05 – 1:25 PM

Broadband Surface Acoustic Wave Generation via Chirped IDTs for Programmable Spin Control

Speaker

Andre Saffore II

1:25 – 1:45 PM

Engineering Semiconductor Thin Films with ALD and Integrated Metrology

Speaker

Swapnil Nalawade

1:45 PM

12:25 PM

Technical Session 3: Room B: Power Electronics

Session | **Location:** 5th floor, Chastain B | **Convener:** Daniel Vrinceanu

12:25 – 12:45 PM

Titanium Oxynitride Thin Film and Nanowires for Ultrahigh Capacitance Supercapacitors

Speaker

Sheilah Cheron

12:45 – 1:05 PM

Modeling the Effects of Surface Potential on Gallium Nitride Betavoltaic Cell Collection Efficiency

Speaker

Monté Hendrix

1:05 – 1:25 PM

Multi-layered Porous PVDF 2D Heterostructure Nanofillers as High-Density Capacitive Energy Storage

Speaker

William Gladney

1:45 PM

1:25 – 1:45 PM

SLA-Printed Architected Polymer Thermal Interface Materials with BN/Microfiber Fillers for High-Power Semiconductor Cooling

Speaker

Dr Tahseen Al-wattar

12:25 PM

Technical Session 3: Room C: Advanced Packaging

Session | **Location:** 5th floor, Rialto A | **Convener:** Dinadayalane Tandabany

12:25 – 12:45 PM

Materials development and biophotonic sensor fabrication employing lead-free halide perovskites

Speaker

Demetris Geddis

12:45 – 1:05 PM

Lite VLA: Efficient Vision-Language-Action Control on CPU-Bound Edge Robots

Speaker

Mr Justin Williams

1:05 – 1:25 PM

Experimental Evaluation of BNNT-based Thin Films for Mitigating Single Event Effects in SRAM via Proton Beams

Speaker

Alexander Roque

1:45 PM