

ICE-CEM Research Center Kickoff Meeting

November 2-3, 2026 | Washington Duke Inn, Durham, North Carolina

Monday, November 2 | Day 1

Center vision, research pillars, and integration strategy

Time	Session	Speakers
12:00–1:30 PM	Registration, Check-in, and Lunch	
1:30–1:50 PM	Welcome and Opening Remarks	Alec D. Gallimore, Provost, Duke University Jerome Lynch, Vinik Dean of Engineering, Duke University Lt. Gen. Jeth B. Rey, Deputy Chief of Staff, G-6, U.S. Army
1:50–2:05 PM	ARO Program Perspective	Paul Yu, Program Manager, ARO
2:05–2:45 PM	ICE-CEM: Center Vision and Research Overview	Miroslav Pajic, ICE-CEM Director (Duke University)
2:45–3:00 PM	Break	
3:00–3:30 PM	EM Research Pillar	Todd Humphreys (UT Austin)
3:30–4:00 PM	Cyber Research Pillar	Syed Hussain (Penn State University)
4:00–4:30 PM	Cyber-EM Convergence Pillar	Ning Zhang (Washington University)
4:30–5:00 PM	Integration, Testbeds, and Demonstrations	Tingjun Chen (Duke University)
5:00–5:15 PM	Break	
5:15–6:45 PM	Dinner at Washington Duke Inn	

Research pillar sessions: 20-minute presentation + 10-minute discussion.

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Tuesday, November 3 | Day 2

PI research presentations, technical discussions, and government briefing

Session 1 — EM Research | 8:30–10:05 AM

8:30–8:35	Todd Humphreys (UT)	Session Introduction
8:35–8:55	Todd Humphreys (UT)	GNSS Attacks and Passive RF Reconnaissance
8:55–9:15	Kaushik Chowdhury (UT)	Localizing Drones Using Cellular Signals
9:15–9:35	Yasaman Ghasempour (Princeton)	RF Sensing and EM Propagation Engineering
9:35–9:55	David Smith (Duke)	Advanced Dynamically Reconfigurable Metasurface Apertures, Reflect- & Transmit-arrays for Threat Detection, RF Imaging, and Active Camouflage
9:55–10:05	Government Team	Discussion and feedback

10:05–10:15 AM • Coffee Break

Session 2 — Cyber Research | 10:15–11:50 AM

10:15–10:20	Syed Hussain (PSU)	Session Introduction
10:20–10:40	Morley Mao (University of Michigan)	Sensor Attacks and Cyber-Physical Vulnerabilities
10:40–11:00	Syed Hussain (PSU)	Wireless Protocol Attacks and Cyber Exploitation
11:00–11:20	Saman Zonouz (GaTech)	From Bits and Boards to Dynamics: Modeling Cyber-EM UAS Effects
11:20–11:40	Michael Reiter (Duke)	Data Inference from UAS Platforms (and Defending Against It)
11:40–11:50	Government Team	Discussion and feedback

11:50 AM–1:20 PM • Lunch (90 minutes)

Session 3 — Cyber-EM Convergence, AI, Integration, Acceleration, and Demonstrations | 1:20–3:40 PM

1:20–1:25	Ning Zhang (WUSTL)	Session introduction
1:25–1:45	Ning Zhang (WUSTL)	Cyber-EM Attack Reasoning and Orchestration
1:45–2:05	Neil Gong (Duke)	Secure AI for Unmanned Aerial Systems
2:05–2:25	Yiran Chen (Duke)	Robustness of Vision-Language-Action Autonomy on UAS: Attack Surfaces and Verifiable Defenses
2:25–2:45	Helen Li (Duke)	AI Hardware: Accelerating Cyber Attacks and Defense
2:45–3:05	Tingjun Chen (Duke)	Research Infrastructure, Testbeds, And Integration
3:05–3:25	M. Castillo-Effen (LMCO)	Operational Scenarios, Demonstrations, And Technology Transition
3:25–3:40	Government Team	Discussion and feedback

3:40–4:00 PM • Break

Session 4 — Confidential Government Team Briefing | 4:00–5:00 PM

4:00–5:00	Government Team Representatives	Army feedback on research priorities and operational relevance, Year 1-2 expectations, coordination, and discussion
5:00 PM		Adjourn