



The 5th Tactical Innovation Symposium
West Point, NY - December 10 -12 2025
Agenda

Wednesday 10 December 2025

Tactical Innovation Officer Training

0830-0900 Arrive at Mahan Hall – Escort to Conference Room

Escorts will be at main entrances in Grant turnaround (across from construction) to help you get to the right room)

0900-0930 Why Are We Here?

What is Tactical Innovation, what is a tactical innovation officer? What are we hoping to get out of this training?

0930-1030 The Intangibles

What makes a good innovation officer?

1030-1130 The Tangibles

How do we source a problem from a Soldier at the edge and put the best solution back in their hand?

1130-1230 New Opportunities through T2COM

COL Clay McVay, Director – Army Application Lab

1200-1300 No Host Lunch @ West Point Club

1300-1700 Foundations of Technical Innovation Crash Course

We will work through a real Soldier problem to hands-on learn the engineering design process, CAD, additive manufacturing, HW/SW prototyping, and using Gen AI to streamline the process.

1800-2000 No Host Social @ Patton's Tavern (Thayer Hotel)



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Thursday 11 December 2025

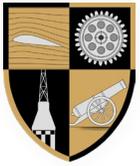
Technical and Procedural Paper Presentations

- 0830-0900** **Arrive in Mahan Hall – Escort to Conference Room**
- 0900-0915** **Symposium Introduction**
Chris Aliperti and Chris Flournoy
- 0915-0930** **Managing the Limiting Factor: Military Cognitive Load Research**
Christopher Chelson, JRTC
- 0930-0945** **The Value of Continued Training to the Army's Innovation Process**
Seth Addeo, 82nd Airborne Innovation Lab
- 0945-1000** **Aviation maintenance Prototype and Fabrication**
Matthew Kim, 3rd ID Marne Innovation Center
- 1000-1015** **The Value of Soldier Innovation Competitions**
Brenden Shutt, 3rd ID Marne Innovation Center
- 1015-1030** **PRISM: A Digital DD-689 Sick Call & Readiness Analytics Platform**
Santiago Arminana, 3rd ID Marne Innovation Center
- 1030-1045** **Tactical LoRa Network**
Ray Needham, 3rd ID Marne Innovation Center
- 1045-1100** **Increasing Survivability of Forward Medical Elements in LSCO**
Payton Magford, 67th Forward Resuscitative & surgical Detachment – 30th MED (remote)
- 1100-1115** **Catalyst pathfinder update**
Mark Miltenberger, DEVOM ARL
- 1115-1130** **Project Capybara**
Preston Spaulding, USAF Elevate Innovation Lab
- 1130-1145** **Dunedain**
Matt Kane, Co-founder & CTO Dunedain
- 1145-1200** **Data Source of Truth for Tactical Innovation and Technology Transition**
Carlos Rodriguez, Obviant
- 1200-1215** **FOAM COOLER – A Joint-SOF-MDTF Way Forward for Massed
Autonomous Warfare**
Brandon Cea, 1SFG (remote)
- 1215-1230** **(T) Opportunities to Collaborate with the Center for Applied Engineering**
Wes Ogden, Deputy Director, West Point Center for Applied Engineering
- 1230-1400** **No Host Lunch and Networking @ West Point Club**



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- 1400-1415 Cadet Integration into Operational Training and Experimentation**
Jacob Crossman & Rob Cariello, USMA Future Applied Systems Team
- 1415-1430 USASOC Robotics**
Andrew DeMoss, USASOC
- 1430-1445 Uncovering Opportunities and Challenges of Solider-Sourced Innovation
at the XVIII Airborne Innovation Labs, 2021-2025**
Thien Vo & Vivek Rao, Duke University
- 1445-1500 ExPaTSl: Expanding Partnerships for expedient Tactical Soldier
Innovation**
Shamaria Rivers and Lucas Rider, Georgia Tech Research Institute (remote)
- 1500-1515 Enabling Units with Operational Data Science Teams**
Gage Callahan & Thomas Canchola, AI2C (remote)
- 1515-1530 Sowing Research Gains From Academic Seeds: AI2C’s Collaborative
Research Method**
Gage Callahan & William Cocke, AI2C (remote)
- 1530-1545 Shrike – Peregrine – Crowstorm**
Gage Callahan & William Cocke, AI2C (remote)
- 1545-1600 AI-Driven Additive Manufacturing Software for Rapid High-Performance
Replacement Part Design**
Aaron Chow, Vixiv
- 1615- 1630 Massachusetts National Guard Process For Development Of
An Inventory Management Tool**
Paul Martin, Massachusetts NG State Innovation Officer
- 1615- 1630 Recent Innovations from the JB-MDL Mission Enhancement Cell**
Ian Connors, JB-MDL MEC



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Friday 12 December 2025

Cadet Presentations and Working Groups

0700-0730 Arrive in Mahan Hall – Escort to Conference Room

0740-0835 ISV Mortar Storage Solutions – Session 1

First year Mechanical Engineering Cadets partnered with the 82nd Airborne Division Airborne Innovation Lab to practice their newly learned engineering design skills on real Soldier problems! These sessions consist of a 15 minute poster session followed by lightning talks from each team of Cadets.

0850-0945 ISV Mortar Storage Solutions – Session 2

1055-1150 M1Abrams Sponson Box Organizer – Session 1

First year Mechanical Engineering Cadets partnered with the 1st Infantry Division's Innovation Lab to practice their newly learned engineering design skills on real Soldier problems! These sessions consist of a 15 minute poster session followed by lightning talks from each team of Cadets.

1200-1245 No Host Lunch @ West Point Club

1245-1340 M1 Abrams Sponson Box Organizer – Session 2

1400-1530 (Tentative) UxS Training Working Group

USMA faculty and tactical innovation leaders share best practices and challenges in training Soldiers to build and employ unmanned systems

1530-1600 Symposium conclusion