

## Mid-Scale Manufacturing & Characterization Capacity: Accelerating scale-up and transition of technologies to mitigate DoD critical materials supply challenges.

Ask questions on [slido.com](https://www.slido.com) using the code **#DMMI2025**

WEDNESDAY, JANUARY 29, 2025\*

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- 9:00 AM**     **Welcome to Workshop**  
Julie Christodoulou (Chair) and Erik Svedberg (NASEM)
- 9:15 AM**     **Introduction to the Workshop Topic**  
Angus Kingon (Brown University)
- 9:30 AM**     **Speaker 1: Creating Mid-Scale Manufacturing of GaN Semiconductor Devices**  
Cem Basceri (Qromis)  
*Introduction and Q&A lead: Angus Kingon (Brown University)*
- 10:45 AM**     **BREAK**
- 11:00 AM**     **Speaker 2: Platforms**  
Daniel Gamota (NextFlex)  
*Q&A Introduction and Q&A lead: Jian Cao (Northwestern University)*
- 12:00 PM**     **LUNCH**
- 1:00 PM**     **Speaker 3: Acceleration Consortium at the University of Toronto**  
Avi Goldfarb (University of Toronto)  
*Introduction and Q&A lead: Jason Hattrick-Simpers (University of Toronto)*
- 2:00 PM**     **BREAK**
- 2:15 PM**     **Panel 1: Semiconductors, Manufacturing, and Pharma**  
John Kelly (IBM)  
Mark Johnson (Clemson University)  
Jen Dailey Lambert (JHUAPL)  
*Introduction and Q&A lead: Rudy Wojtecki (Applied Materials)*
- 3:45 PM**     **Speaker 4: Energetics, Magnetics, and Critical materials**  
Leslie Hamilton (JHUAPL)  
*Introduction and Q&A lead: Morgana Trexler (JHUAPL)*
- 4:45 pm**     **Closing Remarks and Overview of Day 2**  
Julie Christodoulou (Chair)
- 5:00 PM**     **ADJOURN**

\*All times ET

**THURSDAY, JANUARY 30, 2025\***

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- 9:00 AM**     **Speaker 5: Intellectual Property and Innovation Issues**  
**James Conley (Northwestern University)**  
*Introduction and Q&A lead: Jian Cao (Northwestern University)*
- 9:45 AM**     **Speaker 6: Smart Mid-Scale Manufacturing**  
**Tom Kurfess (Georgia Tech)**  
*Introduction and Q&A lead: David Aspnes (North Carolina State University)*
- 10:30 AM**   **Speaker 7: Energetics**  
**David F. Bahr (Purdue)**  
*Introduction and Q&A lead: Pablo Zavattieri (Purdue University)*
- 11:15 PM**   **LUNCH**
- 12:00 PM**   **Speaker 8:**  
**Keith Whitener (DARPA)**  
*Introduction and Q&A lead: Julie Christodoulou*
- 12:45 PM**   **Panel 2: Electronics and Chemistry**  
**Joe Poshusta (Synthio Chemicals)**  
**Jacob Woodruff (EMD Electronics)**  
**Nick Korolchuk (SkyWater Technology)**  
*Introduction and Q&A lead: Rudy Wojtecki (Applied Materials)*
- 2:15 PM**     **BREAK**
- 2:30 pm**     **Wrap up of Part 1 and Outlook for Part 2 of the Workshop Set**  
Julie Christodoulou (Chair)
- 3:00 PM**     **ADJOURN**
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