



Center For Advanced Materials Processing 2026 Annual Technical Meeting

June 1 – June 2, 2026
1000 Islands Harbor Hotel, Clayton, NY

We welcome all industry leaders, managers and researchers, research faculty and graduate students from Clarkson University and other research institutions, as well as Federal, State and Regional leaders.

Website: <https://sites.clarkson.edu/camp/2026-camp-annual-technical-meeting/>.

Schedule of Events

Monday, June 1, 2026

- 11:00 am – 2:00 pm CAMP Industrial Advisory Board (IAB) meeting and lunch (both invitation only)
- 2:00 pm Registration (*Harbor Ballroom Lobby*)
- 2:30 pm - 2:40 pm *Welcome Remarks, **Devon A. Shipp**, Director, CAMP (Harbor Ballroom)*
- SESSION I:** **Advancing Technologies through Particles & Coatings (*Harbor Ballroom*)**
(tribute to Prof. Richard Partch)
Chair: **Eric Xu**, CAMP Business Development Director, Clarkson University
- 2:40 pm - 3:10 pm *Dick Partch's Role in Catalyzing My Career and in Fostering Excellence in Research at Clarkson, **George Schatz**, Professor of Chemistry, Northwestern University*
- 3:10 pm - 3:30 pm *Overcoming Immiscibility for Tailorable Bimetallic Nanoparticles, **Melissa King**, Assistant Professor of Chemistry and Biochemistry, Clarkson University*
- 3:30 pm - 4:00 pm *Advancements in Silver and Copper-Based Conductive Materials Enabling SilverThriftig for Cost Efficient Electronic Applications, **Geetha Thiruvengadam**, R&D Manager, Ames Advanced Materials Corporation*
- Catalyst for Energy Conversion Technologies: How to Manage Performance and Durability Metrics for Deployable Proton Exchange Membrane (PEM) Technologies, **Joesene Soto Perez**, Lead R&D Scientist, Ames Advanced Materials Corporation*



- 4:00 pm - 4:20 pm *Advanced Materials for Sensors: Lessons Learned in Translating Technology From Lab to Field*, **Silvana Andreescu**, Professor of Chemistry & Biochemistry, Clarkson University
- 4:20 pm – 4:30 pm Break (10 min)
- 4:30 pm - 4:50 pm *Single-Molecule Force Sensors for Advanced Materials*, **Xiaocun Lu**, Associate Professor of Chemistry and Biochemistry, Clarkson University
- 4:50 pm - 5:10 pm *Advanced Optical Materials for Scalable AR Waveguides: Challenges and Opportunities*, **Abraham Jordan**, Principal Engineer, Vuzix Corporation
- 5:10 pm - 5:30 pm *Emulsion Aggregation Toners and Alternatives to Titania for External Additive Design*, **John Pawlak**, Toner Raw Material Lead, Xerox Corporation
- 5:30 pm - 5:50 pm *Nanoparticle-mediated Self-healing in Polymer Coatings*, **Sitaraman Krishnan**, Professor of Chemical and Biomolecular Engineering, Clarkson University
- 6:30 – 9:00 pm Sunset Boat Tour on the 1000 Islands and Dinner

Tuesday, June 2, 2026

- 7:00 am – 8:30 am Breakfast Buffet (*Harbor Ballroom Lobby*)

SESSION II: Big Data & Digital Twins: How AI Can Revolutionize Developments in Advanced Materials (*Harbor Ballroom*)
Chair: **TBD**, Affiliation

- 8:40 am – 9:00 am *Machine Learning-Enhanced Precursor Ampoule Depletion Detection in Chemical Vapor Deposition Using Quartz Crystal Microbalance Data*, **Kyle Drake**, Data Scientist, INFICON
- 9:00 am – 9:20 am *Next generation aerosol sensors: Enabling deeper air quality insights*, **Suresh Dhaniyala**, Professor of Mechanical and Aerospace Engineering, Clarkson University



9:20 am – 9:40 am *When AI Is Not Enough: A Hybrid Framework for Restoring Grain Orientation Maps*, **Prashant Athavale**, Associate Professor of Mathematics, Clarkson University

9:40 am - 10:00 am *Ultrasonic Quality Assessment Techniques for Pharmaceutical Tablets: A Microstructure-Centric Approach with AI Modeling*, **Cetin Cetinkaya**, Professor of Mechanical and Aerospace Engineering, Clarkson University

10:00 am – 10:30 am Break (30 min)

Session III: **Decarbonizing Infrastructure Materials** (*Harbor Ballroom*)
Chair: **Sulapha Peethamparan**, Professor of Civil and Environmental Engineering, Clarkson University

10:30 am – 10:50 am *Construction Materials Industry Needs for Sustainability*, **Don Streeter**, Vice President, New York Construction Materials Association

10:50 am – 11:10 am *The State of Glass Pozzolans in New York and the Market*, **Jacob Kumpon**, Co-Founder, KLAW Industries

11:10 am – 11:30 am *The Rapid-Set Paradox – Durability Development in Ultra-High Early Strength Concrete*, **Robert Thomas**, Associate Professor of Civil and Environmental Engineering, Clarkson University

11:30 am – 11:50 am *Formulating Cementitious Tile Adhesives – Schluter Systems*, **Brandon LeBlanc**, Research and Development Engineer, Schluter Systems

11:50 pm – 1:20 pm **Lunch** (*Harbor Ballroom Lobby*)

SESSION IV: **Materials Development & Testing for the Defense & Aerospace Industries** (*Harbor Ballroom*)

Chair: **Nick Tepylo**, Assistant Professor of Mechanical and Aerospace Engineering, Clarkson University

1:30 pm – 1:50 pm *A Review of Recent Additively Manufactured Ceramic Applications*, **Matthew Rose**, Service Engineer, Lithoz America

1:50 pm – 2:10 pm *Efficient Analysis of Energy Absorption in TPMS Lattice Structures under Uncertainties*, **Mishal Thapa**, Assistant Professor of Mechanical and Aerospace Engineering, Clarkson University



- 2:10 pm – 2:30 pm *Short-Cut Fibers for Aerospace Applications: Materials, Characterization, Challenges, **Andrei Zelenev**, Technical Director, Cellusuede Products dba Engineered Fibers Technology*
- 2:30 pm – 2:50 pm *From Cryogenic Storage to Airworthiness: Materials Challenges in Retrofitting Turbine-Powered Aircraft for Liquid Hydrogen, **Jose Martin**, Founder and CEO, Martin Solutions*
- SESSION V:** **Research and Technology Showcase** (*Harbor Ballroom Lobby*)
- 3:00 pm – 5:00 pm Poster session and technology showcase by Clarkson students & postdocs
- 5:00 pm – 6:30 pm **Pre-Dinner Reception & Special Comments** (*Harbor Ballroom Lobby*)
- 6:30 pm – 8:50 pm **2026 CAMP Annual Technical Meeting Dinner & Keynote Address** (*Harbor Ballroom*)
Keynote Speakers: **Dr. Curtis Zimmermann**, Forge Nano Inc.
Chief Legal Counsel
Introduced by Clarkson University by TBD
- 8:50 pm – 9:00 pm *Closing Remarks, **Devon A. Shipp**, Director, CAMP & Depart*