

49th Power Sources Conference 2023

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49th POWER SOURCES CONFERENCE

• June 27-29, 2023, Gaylord National Resort & Convention Center, Fort Washington, MD, USA

Welcome to the Power Sources Conference 2023

Welcome!

We are pleased to welcome you to the 49th Power Sources Conference at the Gaylord National Resort & Convention Center in Fort Washington, MD. Our last gathering was in 2018 and we are looking forward to seeing everyone again. This conference was started in 1947 in Fort Monmouth, NJ, and has been managed and produced by General Technical Services and Palisades Convention Management continuously since 1994. This year's meeting will focus on advanced energy storage and power generation technologies (largely, but not exclusively, electrochemical), which are of interest to the DoD, other Government agencies, and the civilian marketplace. As usual, the orientation will be toward advancements in power sources, renewable energy power generation, advanced materials and processes including safety, quality control, testing mechanisms, and power management. In addition, contributions to prototype development, manufacturing technology, device and systems engineering, and economic and environmental considerations will be presented. This year's technical program reflects continued strong interest in high-energy high-power batteries, fuel cells, and other power generation technologies for man portable power, mobile ground vehicles, sea, and aerospace applications. We are certain that you will also enjoy the exhibits and networking opportunities in our convenient National Capital Region setting.

Enjoy the Conference!

~ 49th Power Sources Conference Committee

49th POWER SOURCES CONFERENCE

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 Co-Chair: Sam Stuart, *NSWC*

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Daniel P. Schmidt, *U.S. Army Combat Capabilities Development Command Armaments Center*
Aaron M. Stern, *U.S. Army Combat Capabilities Development Command Armaments Center*
Richard Dratler, *U.S. Army Combat Capabilities Development Command Armaments Center*
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Chair: Homeshwar Lalbahadur, *U.S. Army DEVCOM Armaments Center*
Co-Chair: Stanley Rodrigues, *AFRL Wright Patterson*

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Chair: Julianne Douglas, *U.S. Army CCDC C5ISR*

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Frank Joseph Puglia, *EaglePicher Technologies, LLC*
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Lauren Morris, *U.S. Army Combat Capabilities Development Command Armaments Center*
Aaron Stern, *U.S. Army Combat Capabilities Development Command Armaments Center*
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Ethan R. Steinmetz, *Cornerstone Research Group*
Nickolas J. Vallo, *Cornerstone Research Group*
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Chair: Charles Patrissi, *NUWC*

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Session 27: Battery Electrolytes & Interfaces II

Chair: Matthew Limpert, *U.S. Army CCDC C5ISR*

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Suresh Sriramulu, *Koura Global, Inc.*

27-5: Accelerated Battery Electrolyte Research: Chemical Physics Platform for Expanded Property Datasets ~ Paper Unavailable

Kevin L. Gering, *Idaho National Laboratory*