NiZn Battery Symposium

Introduction

James Trevey Ph.D

Vice Chair MPSC

April 14th, 2022

9am MST



Military Power Sources Committee

Providing Power Sources for the modern warfighter

The MPSC

We are the unbiased Power and Energy voice for DOD, collecting and reporting expert input on matters of interest.

*The mission of Military Power Sources Committee (MPSC) is to **provide a forum for its members to share information and develop a collective voice** on issues related to the preserving and enhancing the domestic design, development and manufacture of energy generation and storage systems, both renewable and non-renewable, and their components for the Department of Defense*

NAATBatt INTERNATIONAL

VENN STRATEGIES

SAFE

Power Sources TWG

Federal Consortium for Advanced Batteries (FCAB)

Among the Following U.S. Federal Government Agencies

DEPARTMENT OF ENERGY
DEPARTMENT OF COMMERCE
DEPARTMENT OF DEFENSE
DEPARTMENT OF STATE

Areas of Interest

- Tactical Energy Sources
  - ***Rechargeable batteries***
  - Non-rechargeable batteries
  - Fuel cells
  - Solar panels
  - Battery charging
- Emerging technologies
- ***Domestic supply chain and manufacturing***
- Advanced manufacturing







Membership

- The MPSC consists of:
  - Steering Committee – 14, Government and Industry
  - Membership - 750, 30% DOD

- Membership – Recommended paid membership to NDIA
  - Presenting at networking meetings
  - Organize symposiums and get MPSC advertising to entire membership
  - Monthly Newsletter
  - Opportunity to participate on steering committee
  - Opportunity to further the MPSC mission and improve national security
  - Steering committee introductions (10-minute intros)
  - Site visits (w/w/o PSTWG)
  - Funding and RFI announcements
  - Opportunity to participate in select closed DOD and industry sessions

Steering Committee

- **Executives**
  - **Marc Gietter – Chair**
    - **Crystal Clear Consulting**
  - **James Trevey – Vice Chair**
    - **Forge Nano**

Steering Committee

Mather Hutchens - DLA
Eric Shields - OSD
Adrian Parker - Navy
Mike Brundage - Army
Lloyd Zilch - Navy
Rebecca Morris – Alion Science
Ben Craig – Alion Science
Robert Anstey – Graphnx
Russ Farmer – ADA Technologies
Marc Jaker – Jakertech
Neil Johnson – Navitas
Melissa Floyd - Stryten

Events Update

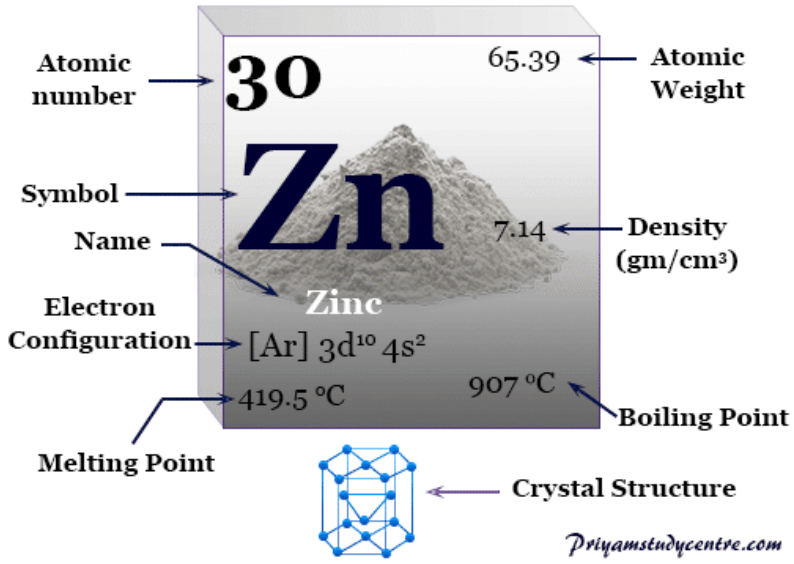
- Past
  - December 2020 – Solid State Batteries – 130+ Viewers – Information paper complete
  - January 2021 – Silicon Anodes – 200+ Viewers – Information paper complete
  - May 2021 – Battery Recycling – 200+ Viewers – Information paper complete
  - June 2021 – Li-Sulfur – 300+ Viewers – Information paper complete
  - July 2021 – Li-ion Supply Chain – 300+ Viewers – Information paper complete
  - September 2021 – Advanced Charging – 100+ Viewers – Information paper complete
  - October 2021 – Graphite (Li-ion) – 200+ Viewers – Information paper complete
  - November 2021 – Advanced Manufacturing – 100+ Viewers – Final draft
  - March 2022 – Li-metal Batteries – 200+ Viewers – Final draft

- ***Current***
  - ***April 14th, 2022 – NiZn Batteries (today)***
    - ***Expecting 75+ based on registrations***

- Future
  - April 28th, 2022 – Membership meeting with updates from DLA, FCAB, Li-Bridge, and members
  - May 12th – Fuel Cells (Government)
  - June 9th – Fuel Cells (Industry)
  - June 23rd – Standardization Debate
  - July 18th-20th – In person PSTWG+Membership meeting (Maybe at ANL, still TBD)

NiZn Battery Agenda

(All times shown in MT)



- Presentations are 20 min each
- All questions submitted in chat roll
- pdfs will be provided after w/ permission

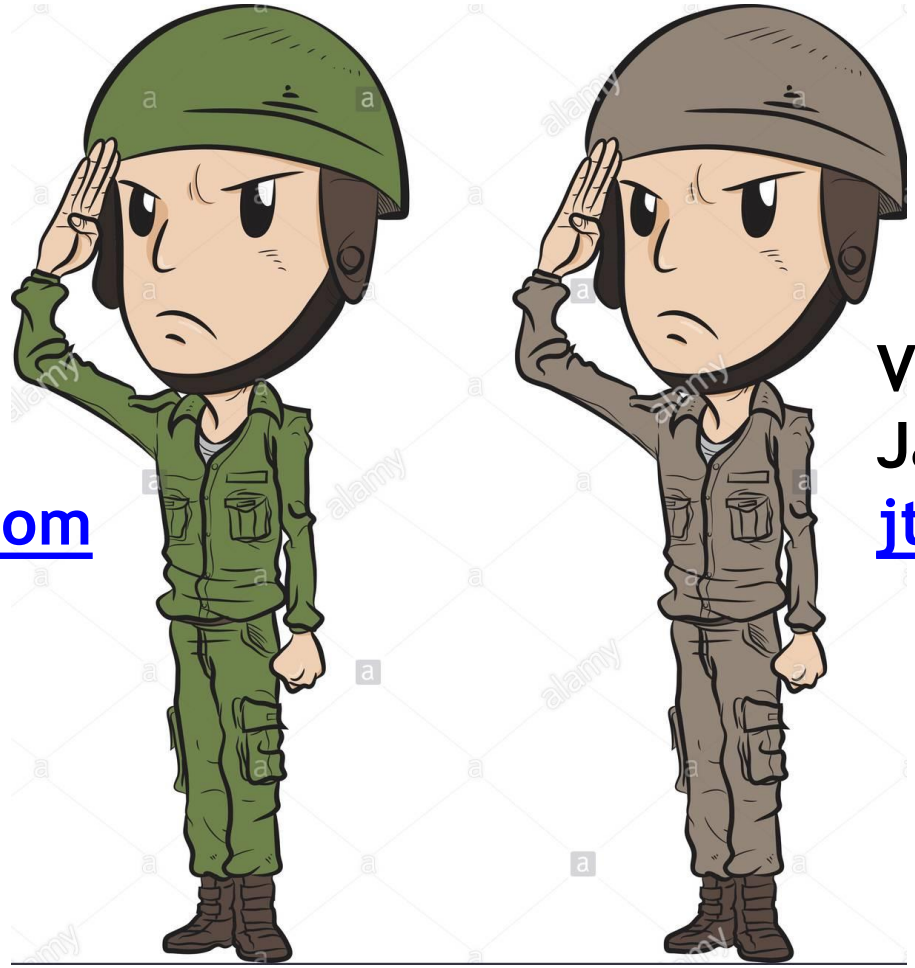
9:00am: Introduction – James/MPSC
9:05am: NSWC Crane – Alex Potter
9:25am: ACI Technologies – Rebecca Morris
9:45am: Aesir Technologies – Eivind Listerud
10:05am: Break
10:20am: NSWC Crane – Ian Wolf
10:40am: NRL – Joe Parker
11:00am: Texas State University – Chris Rhodes
11:20am: Zinc Battery Initiative – Josef Daniel-Ivad
11:40am: Round Table – All, led by Randy Moore
12:30pm: End

Thanks!

- Hosting
  - Forge Nano
    - Mike Talarico
- Organizing
  - Forge Nano
    - James Trevey
  - Aesir Technologies
    - Matt Housh

Points of Contact

Chair:
Marc Gietter
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Vice Chair:
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