

# NAC 2023 Conference Agenda

## Monday, February 20, 2023

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Noon	Golf Lunch	Pro Shop Lawn
1:00 p.m.	Golf Tournament	Red Course (shotgun start)
2:30 p.m.	Tennis Tournament	Tennis Center
7:00 - 9:30 p.m.	Tournament Dinner	Trellis Garden

## Tuesday, February 21, 2023

Unless otherwise indicated all sessions will be in the Wigwam Ballroom

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7:30 a.m.	Registration Opens	Outside Mohave Ballroom
7:30 - 11:30 a.m.	Exhibit Floor Set Up	Mohave Ballroom
8:00 - 9:00 a.m.	Education Committee Meeting	Sachem Ballroom
8:00 - 9:00 a.m.	Zinc Battery Committee Meeting	Ozanne Room
8:00 - 9:00 a.m.	Military Battery Committee/ MPSC Meeting	Kiva & Sahuaro Rooms
9:00 - 10:00 a.m.	Policy & Regulatory/ Battery Safety Committees Joint Meeting	Kiva & Sahuaro Rooms
9:00 - 10:00 a.m.	On-Shoring Battery Technology Committee	Ozanne Room

<b>9:00 - 10:00 a.m.</b>	<b>Lithium Battery Recycling Committee Meeting</b>	Sachem Ballroom
<b>9:00 a.m. - Noon</b>	<b>Shmuel De Leon Battery Safety Workshop</b> (virtual format - via Zoom) Additional registration required.	Palm Room Attendees must bring their own laptop
<b>10:00 - 11:00 a.m.</b>	<b>Manufacturing in North America Committee Meeting</b>	Sachem Ballroom
<b>10:00 - 11:00 a.m.</b>	<b>Second Life Battery Committee Meeting</b>	Kiva & Sahuaro Rooms
<b>11:00 a.m. - Noon</b>	<b>Energy Materials Committee Meeting</b>	Sachem Ballroom
<b>11:00 a.m. - Noon</b>	<b>Tracking &amp; Tracing Committee Meeting</b>	Kiva & Sahuaro Rooms
<b>Noon - 1:00 p.m.</b>	<b>Lunch</b>	On your own
<b>12:30 - 1:00 p.m.</b>	<b>Meet &amp; Greet Reception</b>	Wigwam Ballroom Foyer Sponsored by Interco
<b>1:00 p.m.</b>	<b>Opening of NAATBatt 2023</b>	
<b>1:00 - 1:10 p.m.</b>	<b>Welcome by Executive Director and President of NAATBatt</b>	<b>Jim Greenberger,</b> NAATBatt International  <b>Renata Arsenault,</b> Ford Motor Company
<b>1:10 - 1:30 p.m.</b>	<b>Report of the Chief Science Officer of NAATBatt</b>	<b>Stanley Whittingham,</b> Binghamton SUNY
<b>1:30 - 1:50 p.m.</b>	<b>Report of the Chief Technology Officer of NAATBatt</b>	<b>Bob Galyen,</b> Galyen Energy
<b>1:50 - 2:10 p.m.</b>	<b>Market Report: EV Markets in North America</b>	<b>Evelina Stoikou,</b> BloombergNEF

<b>2:10 - 2:30 p.m.</b>	<b>Market Report: ESS Markets in North America</b>	<b>Chris Seiple,</b> Wood Mackenzie Power & Renewables
<b>2:30 - 2:50 p.m.</b>	<b>Market Report: Lithium Battery Cell and Cell Components Manufacturing in North America</b>	<b>Sam Jaffe,</b> E Source
<b>2:50 - 3:30 p.m.</b>	<b>Opening of Exhibit Showcase and Networking Break</b>	<b>Mohave Ballroom</b> Sponsored by American Battery Solutions
<b>3:30 - 3:50 p.m.</b>	<b>Market Report: Energy Materials Markets Outlook</b>	<b>Andrew Miller,</b> Benchmark Minerals Intelligence
<b>3:50 - 4:10 p.m.</b>	<b>Making Sense of the Opportunities in the Inflation Reduction Act</b>	<b>Nathan Niese,</b> Boston Consulting Group
<b>4:20 - 5:50 p.m.</b>	<b>Member Update Presentations: Session 1A Upstream Companies</b>	20 companies (4 min. each)
	Airgas, an Air Liquide company Lithium Americas Corp. American Battery Solutions Digatron Power Electronics Inc. Stryten Energy A&D Technology Alabama Power Company American Electric Power Anovion NECA-IBEW CA & NV LMCC	Bechtel Circular Cabot Corporation Celgard LLC Daikin America Flexo Concepts GFL Americas LLC Honeywell Forge Nano Piedmont Lithium Inc
<b>4:20 - 5:50 p.m.</b>	<b>Member Update Presentations: Session 1B Downstream Companies</b>	19 companies (4 min. each)
	EnerSys QAD, Inc. Renewance, Inc. SAE International Amphenol Aqua Metals Clarios DuPont Hitachi America Ltd. Inventus Power	Kurl Technology Siemens Ecobat Huntsman Inc. Æsir Technologies, Inc. Alliant Insurance Services Automotive Recyclers Association Blue Whale Materials Call2Recycle, Inc

<b>6:00 - 7:00 p.m.</b>	<b>Opening Reception</b>	Mohave Ballroom Sponsored by EnerSys
<b>7:00 - 9:30 p.m.</b>	<b>Opening Dinner</b>	Front Lawn Sponsored by SAE International
<b>7:15 - 9:30 p.m.</b>	<b>Board of Directors Meeting and Dinner</b>	Ozanne Room

## Wednesday, February 22, 2023

**Unless otherwise indicated all sessions will be in the Wigwam Ballroom**

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<b>7:30 - 8:20 a.m.</b>	<b>Continental Breakfast</b>	Mohave Ballroom
<b>7:30 - 8:15 a.m.</b>	<b>Breakfast Table Discussion Groups</b>	Sahuaro Ballroom
	<b>Breakfast Discussion Table 1</b> Topic: Enterprise Quality Management for Battery and Cell Manufacturing	Host: Honeywell
	<b>Breakfast Discussion Table 2</b> Topic: Best Practices for Advancing Battery Innovations to Commercial Scale Manufacturing	Host: Schenck Process LLC
	<b>Breakfast Discussion Table 3</b> Topic: Optimizing Materials Generated by Battery Recycling	Host: Ascend Elements
	<b>Breakfast Discussion Table 4</b> Topic: Site Selection Considerations for Battery Manufacturers in North America	Host: NEWMARK
<b>8:20 - 8:25 a.m.</b>	<b>Welcome by the Chairman of NAATBatt</b>	Jeff Yambrick Energy Supply Developers, LLC
<b>8:25 - 8:35 a.m.</b>	<b>Reports by Breakfast Table Discussion Leaders</b>	

<b>8:35 - 8:45 a.m.</b>	<b>NAATBatt Annual Members Meeting</b>	
<b>8:45 - 9:35 a.m.</b>	<b>The Upstream Lithium Battery Supply Chain Challenge in North America</b> Sponsored by: Schenck Process, LLC	<p><b>Nick Giefer (Moderator),</b> Schenck Process, LLC</p> <p><b>Abby Wulf,</b> Securing our Energy Future (SAFE)</p> <p><b>Austin Devaney,</b> Piedmont Lithium</p> <p><b>Linda Gaines,</b> Argonne National Laboratory</p>
<b>9:35 - 10:25 a.m.</b>	<b>Roundtable: Who Will the Winners and Losers in the Battery Business Be Five Years from Now?</b>	<p><b>Dirk Spiers (Moderator),</b> Spiers New Technologies</p> <p><b>Kurt Kelty,</b> Sila Nanotechnologies, Inc.</p> <p><b>Renata Arsenault,</b> Ford Motor Company</p> <p><b>Mark Caffarey,</b> Umicore</p> <p><b>Julie Blundren,</b> New Energy Nexus</p> <p><b>Denise Gray,</b> LG Energy Solution Michigan</p>
<b>10:25 - 11:00 a.m.</b>	<b>Networking Break</b>	<p>Mohave Ballroom Sponsored by Busch Vacuum Solutions</p>

<b>11:10 - 12:35 p.m.</b>	<b>Member Update Presentations: Session 2A</b>	<b>Wigwam Ballroom</b>
	Upstream Companies	20 companies (4 min. each)
	24M Technologies, Inc. 6K Energy Concentric Addionics Alkegen American Battery Factory Inc. American Battery Technology Company Arkema Armor Battery Films Ascend Elements, Inc.	Precision Roll Grinders Siemens Aquatech International LLC Birla Carbon BrightVolt Huntsman Milwaukee Tool Sion Power South 8 Technologies Everledger
<b>11:10 - 12:35 p.m.</b>	<b>Member Update Presentations: Session 2B</b>	<b>Sachem Ballroom</b>
	Downstream Companies	19 companies (4 min. each)
	Electric Applications Incorporated Li-Cycle Liminal Insights Lithion Recycling, Inc. Nuvation Energy PACT ThermoShield Parker LORD Photon Automation Snell & Wilmer	Abel + Imray Car-Part.com EaglePicher Technologies Electrada OPTEL Customized Energy Solutions Glencore Nickel Green Li-ion Inc. IT Asset Partners Li Industries, Inc.
<b>12:35 - 1:55 p.m.</b>	<b>Lunch</b>	Front Lawn Sponsored by Lithium Americas
<b>1:55 - 2:45 p.m.</b>	<b>Breaking Down the Barriers to Commercialization of U.S. Battery Innovation</b>	<b>James Trevey (Moderator)</b> Forge Nano  <b>Sue Babinec,</b> Argonne National Laboratory  <b>Christina Lampe-Onnerud,</b> Cadenza Innovation  <b>Mike Fetcenko,</b> Sion Power

<b>2:55 - 4:10 p.m.</b>	<b>Member Update Presentations: Session 3A Upstream Companies</b>	<b>Wigwam Ballroom</b> 18 companies (4 min. each)
	<p>Enovix  Epsilon Advanced Materials  Esterlam International Ltd  Battery Innovation Center Institute  Forsee Power  Grillo-Werke AG  Impossible Metals Inc.  INOAC USA Inc.  IP PowerSystems</p>	<p>Battery Streak  Blue Solutions Canada, Inc.  BST North America  Conovate, Inc  Albemarle  Soteria  DNV Energy USA Inc. - BTCC  Dukosi  Durr Systems, Inc.</p>
<b>2:55 - 4:10 p.m.</b>	<b>Member Update Presentations: Session 3B Downstream Companies</b>	<b>Sachem Ballroom</b> 15 companies (4 min. each)
	<p>Veolia ES Technical Solutions  Voltaiq  2ndlife Batteries.com  Sandia National Laboratories  Military Power Sources Committee  Btree Cycling  Argonne National Laboratory</p>	<p>Posh  Princeton NuEnergy  RecycliCo Battery Materials Inc  ReElement Technologies, LLC  Ricardo Strategic Consulting  Robertson's Auto Salvage  Spiers New Technologies  Umicore USA</p>
<b>4:10 - 4:45 p.m.</b>	<b>Networking Break</b>	<p>Mohave Ballroom  Sponsored by Circulor</p>
<b>4:45 - 5:35 p.m.</b>	<b>Addressing Safety Requirements in Lithium Battery Packaging and Logistics</b>	<p><b>Brian Engle,</b>  Amphenol Sensors</p> <p><b>Nathan Nye,</b> Tesla</p> <p><b>Bob Clatterbuck,</b>  U.S. Department of Transportation  Pipeline and Hazardous Materials  Safety Administration</p>
<b>6:00 - 7:00 p.m.</b>	<b>Networking Reception</b>	

<b>7:45 - 8:30 p.m.</b>	<b>NAATBatt Annual Dinner</b>	Front Lawn Sponsored by QAD
<b>8:30 - 8:50 p.m.</b>	<b>Keynote Speakers</b> Front Lawn	<b>David Howell</b> U.S. Department of Energy  <b>Alex Jacquez</b> National Economic Council
<b>8:50 - 9:10 p.m.</b>	<b>Lifetime Achievement Award Presentation</b> Front Lawn	2023 Honoree: Eric C. Darcy, NASA

## Thursday, February 23, 2023

**Unless otherwise indicated all sessions will be in the Wigwam Ballroom**

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<b>7:30 - 8:20 a.m.</b>	<b>Continental Breakfast</b>	Mohave Ballroom
<b>7:30 - 8:15 a.m.</b>	<b>Breakfast Table Discussion Groups</b>	Sahuaro Ballroom
	<b>Breakfast Discussion Table 1</b> Topic: The State of Solid State Battery Technology	Host: Blue Solutions
	<b>Breakfast Discussion Table 2</b> Topic: Commercializing Next-Gen Batteries	Host: Enovix
	<b>Breakfast Discussion Table 3</b> Topic: Increasing the Operations Safety of Battery Recycling	Host: Li-Cycle
	<b>Breakfast Discussion Table 4</b> Topic: Reshoring the Manufacture of Battery Manufacturing Equipment	Host: Siemens
<b>8:20 - 8:25 a.m.</b>	<b>Welcome by President-Elect of NAATBatt</b>	<b>Joe LoGrasso</b> Polaris Industries Inc.



**8:25 - 8:35 a.m. Reports by Breakfast Table Discussion Leaders**

**8:35 - 9:25 a.m. Developing Battery Charging and V2G Infrastructure**

**Michael Lew (Moderator)**  
Clearer Horizons

**Margaret O'Riley**, Electrada

**Joern Tinnemeyer**, EnerSys

**9:35 - 11:05 a.m. Member Update Presentations: Session 4A**  
Upstream Companies - Track 1

**Wigwam Ballroom**  
21 companies (4 min. each)

Nanoramic Laboratories  
Netzsch Pumps USA  
Newmark  
NSL Analytical Service Inc.  
Ratel Consulting LLC  
Schenck Process, LLC  
Miracle Automation Engineering Co., Ltd.  
South32  
Spraying Systems Company  
NY-BEST

JAKERTECH L.L.C.  
LiCAP Technologies, Inc.  
Koura (Orbia)  
KTON LLC  
Li-Metal Corp  
LiNova Energy  
Lyten  
Machinery Analytics  
Manz USA  
Graphenix Development  
Nano One

**9:35 - 11:05 a.m. Member Update Presentations: Session 4B**  
Upstream Companies - Track 2

**Sachem Ballroom**  
21 companies (4 min. each)

Octet Scientific, Inc.  
Exponent  
International Zinc Association  
Nickel Institute  
National Research Council of Canada  
CHASM Advanced Materials  
NREL  
Binghamton University  
Regional Growth Partnership  
Titan Advanced Energy Solutions

TA Instruments – Waters LLC  
TDA Research, Inc.  
Ten-Nine Technologies  
The Coretec Group  
The Metals Company  
CSA Group  
UL Solutions  
UnitX, Inc.  
Westwin Elements  
EnPower  
Solvay

<b>11:05 - 11:40 a.m.</b>	<b>Networking Break</b>	Mohave Ballroom <i>Sponsored by Renewance</i>
<b>11:40 - 12:30 p.m.</b>	<b>Better Ways to Handle Black Mass</b>	<b>Kraig Houser</b> , Cirba Solutions  <b>Sidd Subramani</b> , Hatch  <b>Dr. Jim Craner</b> , Tesla
<b>12:30 - 1:45 p.m.</b>	<b>Lunch</b>	Front Lawn <i>Sponsored by Airgas</i>
<b>1:45 - 3:00 p.m.</b>	<b>The Li-Bridge Project: Where To From Here?</b>	
<b>3:30 - 5:30 p.m.</b>	<b>Salt River Project ESS Tour</b> (Additional registration required)  Meet at Convention Center Entrance	<b>Matthew Rhodes</b> Salt River Project  <b>Dale Fox</b> Salt River Project
<b>5:45 - 6:45 p.m.</b>	<b>Farewell Reception</b>	Trellis Garden <i>Sponsored by Edwards Vacuum</i>