

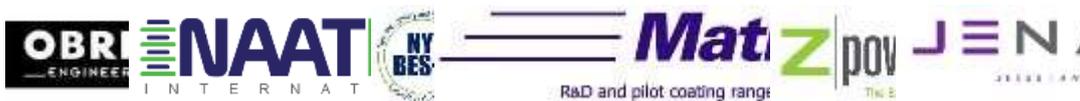


## Shmuel De-Leon Energy - Battery Weekly Newsletter

March 6, 2020, No. 531

Sent to Battery industry members since 1/2010, [Join our mailing list](#)

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### **Battery Training**

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30/3/2020 Battery Safety Tutorial as part of Florida International Battery Seminar, Fort-Lauderdale FL, USA [Program](#)

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21/4/2020 Battery Safety Workshop as part of Soteria Battery Innovation Group and NAATBatt battery safety workshop, Greenville, SC, USA [Program](#)

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5/5/2020 Battery Safety Tutorial as part of 3rd Medical Battery Conference, Seligenstadt, Germany [Program](#)

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3-4/6/2020 Battery Seminar, Le Bourget Du Lac, France, [Program](#)

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8/6/2020 Battery Safety Tutorial as part of AABC USA 2020 Conference San Diego, CA, USA [Program](#)

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18-19/6/2020 6th Li-Ion Cells Manufacturing Seminar, Rochester, USA [Program](#)

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### **Special Offers**

[Shmuel De-Leon Energy provides an on-demand purchasing services for cells and batteries from all chemistries and vendors](#)

[Shmuel De-Leon Energy provide a new Battery Daily News Service - Sign up for free 30 days trial](#)

## ***Batteries and Super Capacitors news***

[Europe Floors It in Race to Dominate EV Batteries](#)

[Audi pauses e-tron production on battery shortages](#)

[Battery storage might not be scaling up fast enough to meet demand: WoodMac](#)

[More EV Manufacturing Slowdowns As Europe Scrambles To Ramp Up Battery Production](#)

[Samsung SDI Expands Its Battery Plant In Hungary](#)

[BloombergNEF: Lithium-Ion Battery Cell Densities Have Almost Tripled Since 2010](#)

[German car parts producer to build e-vehicle battery factory in western Romania](#)

[Factory where lithium batteries stored goes up in flames](#)

[NASA Mars Reconnaissance Orbiter update will improve its battery usage](#)

[Sion Power Demonstrates Key Electric Vehicle \(EV\) Battery Performance Requirements in its Lithium-Metal Rechargeable Battery Cell Technology](#)

[GPSC to build plant for 24M semi-solid batteries in Thailand; 30 MWh to start, 100 MWh in 2021](#)

[KULR Working with NASA on a PPR Battery Design Solution](#)

[Toyota and Toyota Industries announce new battery for hybrid electric vehicles](#)

[Stanford Researchers Develop Stretchable Battery That Could Revolutionise Wearables](#)

[Si-dominant Li-ion company Enevate targeting power tool market](#)

[French company created powerbank trailers for electric cars](#)

[Lucid Motors Announces Partnership with LG Chem that Secures Battery Cells for Long-Term Volume Production of the Lucid Air](#)

[French NAWATechnologies raises €13 million to build next-gen cleantech battery cells](#)

[Battery manufacturing seal to be ready by 2022](#)

[Army researchers zero-in on rugged lithium-ion battery technology for reliable power in extreme condition](#)

## ***Raw & Battery Materials news***

[Next-generation lithium-ion battery research project launched](#)

[American Manganese Announces up to 99.72% Purity from Recycling Test Results on Electric Vehicle Battery Materials from U.S. Department of Energy Critical Materials Institute Project](#)

[MIT's solid-state battery electrode materials breakthrough](#)

[BHP joins Rio in keeping close watch on lithium](#)

[Audi & Umicore Collaborate On EV Battery Recycling](#)



NEI Corporation offers cathode, anode, & solid electrolyte materials for Lithium and Sodium-ion batteries, as well as cell fabrication and testing services. [Learn More »](#)

[Advance in next-generation lithium metal batteries](#)

[EU wants battery autonomy, but first it needs graphite](#)

[Researchers develop high-capacity EV battery materials that double driving range](#)

[Aleees may benefit from cooperation between Tesla and CATL](#)

[Albemarle expects 2020 profit decline as lithium price drops](#)

## ***Chargers & BMS News***

## ***Grid Energy Storage News***

[Falling US solar-plus-storage prices start to level as batteries supersize](#)

[Biggest battery in Europe set to land on British shores](#)

[Illinois Battery Startup Natrium Affiliated with Department of Energy's Joint Center for Energy Storage Research](#)

[esVolta Secures \\$140 Million Credit Facility for Portfolio of Battery Energy Storage Projects](#)

[Tesla's cheap home batteries set to upend utility business](#)



f-cell+HFC April 1+2, 2020 The Hydrogen and Fuel Cell Event being held at the prominent Vancouver Conference Centre. 50+ International Speakers, Trade Fair, Workshops and a celebrated Evening Event are included. Participate as a Sponsor, Exhibitor, or as a Visitor at this Canadian highlighted networking event. Follow us on social media #fcellhfc and watch the options grow on our website [www.hyfc.com](http://www.hyfc.com)



[International Battery Seminar & Exhibit conference 2020, Orlando, FL, USA – 30/3-2/4, 2020](#)



From April 21-23, Soteria Battery Innovation Group and NAATBatt will be co-hosting a workshop on Lithium-ion battery safety in Greenville, South Carolina. The workshop will kick off with a half-day battery safety training by Shmuel De-Leon Energy, followed by a full day outlining today's issues and potential solutions. The meeting will bring together different perspectives throughout the industry from the material level to the end user.

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The Battery Technology Show & Future of Electric & Hybrid Vehicles, 21-23 April 2020

Co-located with WCX in Detroit, The Battery Technology Show brings together thousands of delegates to discover the latest developments. The event's two conference tracks will also allow visitors to hear from some of the leading companies and individuals shaping the forthcoming revolution.

[www.batterytechnologyusa.com](http://www.batterytechnologyusa.com)

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You have the technology to make Electric & Hybrid Aircraft fly. But what about commercial viability, certification & implementation? Join the discussion on the reality of electrification of PAM, UAM, regional & narrow-body aircraft at our: ELECTRIFICATION OF AEROSPACE DAYS EUROPE/E & H AIRCRAFT South of France 2020 27.-28.04.2020, Toulouse, France: <https://aerospace.euveris.eu/electric-eu/>

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## THE BATTERY SHOW

EUROPE

[The Battery Show Europe](#) : Join 10,000+ industry peers at the leading meeting place for the advanced battery and H/EV technology community, where you can meet over 550+ leading suppliers.

Running alongside the free-to-attend trade fair is an expert-led conference with speakers from top manufacturers such as Tesla, Aston Martin and Volvo. Use the code 'SDLE10' for 10% off conference passes.

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RRC Power Solutions GmbH and Shmuel De-Leon energy are pleased to invite you to participate in the [3rd Medical battery conference](#), which will take place at the Hotel Columbus, Seligenstadt, Germany on May 4-5, 2020. The Conference for Medical batteries will meet to discuss and provide a platform for technological innovations and business opportunities with the latest updates in that fields in Germany and abroad. The conference is held once a year and is the leading and the only Medical Battery dedicated conference, bringing together participants from leading private and public battery and companies, start-ups, investors, academics and businesses that are interested in the Medical battery field.

Conference Web Site: <http://www.medicalbatteryconference.com/>



More Electric Aircraft USA

May 12-14, 2020 Washington DC, USA

Pushing electrification of aviation by upscaling electric airplanes and discussing infrastructural needs

During a full three-days-program with lectures and interactive workshops, you will meet international experts to discuss, hear and learn about their experiences and challenges in the fields of More Electric & Hybrid Aircraft.

Download Agenda: <http://bit.ly/38sZiqJ>

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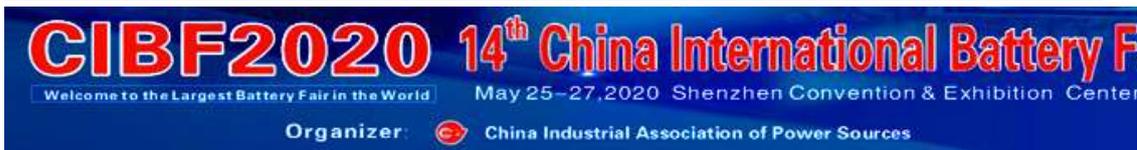


**[3RD EDITION EV CHARGING INFRASTRUCTURE FORUM](#) 21<sup>st</sup> – 22<sup>nd</sup>**

**May, Porto, Portugal**

EV Charging Infrastructure Forum will gather energy and oil & gas companies, transmission/distribution companies, car makers, OEMs, battery manufacturers, technology providers, investment firms, government and regulatory agencies to discuss EV charging infrastructure development. The 3rd Edition is organized in partnership with Efacec, CEiiA, and EDP. As part of the Forum, a site tour to Efacec Electric Mobility Factory is organized.

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China Industrial Association of Power Sources will hold the "14th China International Battery Fair ([CIBF2020](#))" with over 110,000 m<sup>2</sup> area & 1350 exhibitors & over 5500 booths on May 25 to 27, 2020 in Shenzhen. CIBF2020 will be accompanied by the 5th China Energy Storage Exhibition and 3rd China Power Bank Exhibition. The theme of CIBF2020 technical conference will be "power batteries and energy storage batteries", focusing on electric vehicle batteries and micro-grid, smart grid and energy storage battery with a variety of the latest developments. There will be 1500 people from more than 50 countries and regions attend the meeting.

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ACI's European Electric Vehicle Batteries Summit will be taking place in Rotterdam, the Netherlands on 3rd – 4th June 2020.

The conference will look at '[Advancing Battery Performance While Driving Down Production Costs: Unleashing The Power of Electric Mobility](#)'.

For more information or to register your attendance contact Marcin Janecki at [mjanecki@acieu.net](mailto:mjanecki@acieu.net) or phone +48 61 646 7047.

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[AABC USA](#) Conference, 8-11/6/2020, San-Francisco. CA. USA

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The 11<sup>th</sup> International Conference on Lead-Acid Batteries [LABAT'2020](#) will be held 9-12 June 2020 in the magnificent Golden Sands resort on the Bulgarian Black Sea coast ([www.labatscience.com](http://www.labatscience.com)). LABAT is a globally recognized scientific forum gathering leading battery experts, technologists and academic researchers from all over the world. LABAT'2020 technical sessions will once again offer an insight into the latest research achievements and development trends in the field of lead-acid battery manufacture, operation and recycling, while the exhibitionfair will present a perfect opportunity to showcase your new products and services.

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[49th Power Sources Conference](#), 15-18 June 2020, Sawgrass Marriott Resort, Jacksonville, FL, USA

The Power Sources Conference is the oldest continually held biennial conference devoted to research and development of power source, energy conversion, power distribution and management technologies for military

use. The conference goal is to bring Government, industry and academic researchers and developers together to discuss advances in power and energy technologies to support the growing power demands of military platforms and electronic systems.



The eleventh International Flow Battery Forum will be held in Düsseldorf, Germany from 30<sup>th</sup> June – 2<sup>nd</sup> July 2020. The IFBF is the major international conference covering all aspects of flow battery research, development, technology, manufacturing and commercialisation. We are delighted to confirm the support of John Cockerill and Volterion as hosts for our visits at IFBF 2020. There will be an evening visit to one of Volterion's sites on Thursday 2<sup>nd</sup> July and on Friday 3<sup>rd</sup> July we will visit John Cockerill's site at Seraing in Belgium. Registration is [open](#).



Battery Cells & System Expo 2020 - A major exhibition and conference for the advanced battery industry launches on 8th - 9th July 2020 at the NAEC Stoneleigh, Warwickshire UK. This international showcase of manufacturers, users and the entire supply chain working to increase battery performance, cost and safety will gather in the heart of UK manufacturing.



**25<sup>th</sup> International Congress for Battery Recycling ICBR 2020, September 15 – 18, 2020, Salzburg, Austria**

ICBR 2020 is the international platform for reviewing the challenges faced by the Battery Recycling Industry on a global basis. ICBR will bring together the international community of experts and decision makers of the entire Battery Recycling value chain, including battery recyclers and producers, collection organizations, OEM's, policymakers, materials and services providers and many more. <https://www.icm.ch/icbr-2020>



*BATTERY CONFERENCE AND EXHIBITION*

*The Battery Experts Forum 29/9-1/10/2020 is the most important event for*

battery technology. The event takes place annually at Forum Messe Frankfurt. Over 100 experts from the leading battery manufacturers and users provide information on the newest trends, product developments and solutions. The event will be accompanied by a specialized exhibition with more than 160 exhibitors, who are among the most important companies in the entire battery supply chain. [www.battery-experts-forum.com](http://www.battery-experts-forum.com)

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### **f-cell Stuttgart, September 29+30, 2020 – the annual event for hydrogen and fuel cell professionals**

The networking event consists of a leading conference, providing an up to date overview of relevant hydrogen and fuel cell markets and technologies worldwide; an international trade fair, interactive workshops and topic tables, thus offering active networking opportunities. Register online for the conference or contact us to discuss your involvement. [www.f-cell.de](http://www.f-cell.de)

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[The Batteries Event](#) will cover all aspects of the battery circular economy, beginning from the production of the battery through raw materials, battery manufacturing, battery use and safety, management and applications, going through market trends, research and development, new technologies and finally closing the loop with a focus recycling, second life and regulations. International battery industry key players such as manufacturers, end users, experts, researchers and recyclers will come together to discuss and exchange on existing recycling technologies, life cycles, secondary raw material use, producer regulatory obligations in Europe, future expectations and innovations.

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The Battery Technology Show, 21-22 October 2020

The leading event for battery and EV innovation in the UK, now in its third year attracting companies from around the world Our two conference tracks - The Future of Battery Technology and The Future of Hybrid & EV - allow delegates to hear from the leading protagonists in battery technology in the heart of the UK's automotive and manufacturing base.

[www.batterytechnologyshow.com](http://www.batterytechnologyshow.com)

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The 5th FENIBAT will gather in Londrina, Paraná, Brazil, from May 23 to 25, 2021, the Brazilian and Latin American battery and lead recycling industry with its international suppliers through its Expo and Conference.

The FENIBAT public includes not only industrialists, high management and investors but also middle-managers, supervisors and technicians of Administration, Purchasing, Production, Maintenance, Projects and Product Development, Quality Control, Laboratories, Metrology, Work Health and Safety, Environment, etc.;

In this issue, we will also have, as part of FENIBAT, the 1st FENILITIO, a part, in the Exhibition and Conference, dedicated to new battery chemistries that are under development.

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