



## Shmuel De-Leon Energy - Battery Weekly Newsletter

July 3, 2020, No. 548

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### *Battery Training*

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27/7/2020 Battery Safety Tutorial as part of Florida International Battery Seminar, Fort-Lauderdale FL, USA [Program](#)

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10-11/9/2020 3rd Li-Ion Solid Electrolyte & Lithium Metal rechargeable cells manufacturing Seminar, Livermore, CA, USA [Program](#)

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14/9/2020 Battery Safety Tutorial as part of The Battery Show USA, Novi, MI, USA [Program](#)

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29/9/2020 Battery Safety tutorial as part of Battery Expert Forum, Frankfurt, Germany [Program](#)

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13-14/10/2020 Battery Seminar, Le Bourget Du Lac, France [Program](#)

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26-27/10/2020 Battery Seminar, Appenzell, Switzerland [Program](#)

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2/11/2020 Battery Safety Tutorial as part of AABC USA, San Francisco, CA, USA [Program](#)

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11-12/11/2020 Battery Seminar, Wezep, Netherlands [Program](#)

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17-19/11/2020 7th Li-Ion cells Manufacturing Seminar + Battery Safety Workshop, Rochester, NY, USA [Program](#)

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23/11/2020 Battery Safety Tutorial as part of 1st International Electric Vehicle & Stationary Battery Conference, Vitoria, Spain [Program](#)

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2/12/2020 Battery Safety Workshop as part of Battery Cells & Systems Expo, Coventry, UK [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***

[Batttrion and Hilti present jointly built high-power lithium-ion](#)

[Tesla plans to expand its battery manufacturing operation in an effort to make its own automotive batteries](#)

[Constellium to lead £15 million ALIVE project for the development of new aluminium battery enclosures for electric vehicles](#)

[Battery 'cause of RCV fire in East Sussex'](#)

[Germany Amps Up Domestic Battery Production With Massive State Subsidies](#)

[Germany supports battery cell manufacturing expansion at Varta with €300m](#)

[SK Innovation signs \\$940 mn investment for second battery plant in US](#)

[Proposed merger will make zinc battery developer Eos Energy a public company](#)

[UK's Pivot Power sees first battery on line by 2021](#)

[Li standards should be set by battery makers](#)

[Mercedes-Benz Investing Over \\$1 Billion in Global EV Battery Production](#)

[CBAK Energy Planned Investment in Lithium Battery Project in Jiangsu Province,](#)

[China](#)

[DOE solicits proposals for battery manufacturing innovations](#)

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

[CATL Sets Up 21C Lab to Expand R&D on Novel Energy Technologies](#)

[Effective regeneration of scrapped LiFePO<sub>4</sub> material from spent lithium-ion batteries](#)

[Researchers move closer to better lithium metal batteries](#)

[EcoGraf completes \\$3.79 million capital raising to advance graphite facility development](#)

[Talga eyes battery anode production expansion to meet demand](#)

[SAMSUNG SDI obtains a license from CAMX for its GEMX™ advanced battery cathode material platform](#)

[How Li-Cycle Technology Retrieves 95% of Lithium Battery Content](#)



[NEI Corporation](#) supplies ready-to-ship, cathode and anode electrode sheets for lithium-ion batteries in packages of 2, 5, and 10 sheets. We're still open – order today!

[Recycling Li-ion batteries: Opportunities and challenges](#)

[Battery makers face looming shortages of high-quality lithium](#)

[Finland: Europe's battery producing Shangri-La](#)

[Sub-nanometric particles to stabilize lithium-oxygen batteries](#)

[Microporous triples lead-acid battery separator capacity with state-of-the-art production line](#)

[Electrolyte breakthrough suggests superior solid-state lithium-ion batteries are around the corner](#)

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

[Battery balancing IC measures voltage in 12 cells](#)

[Indian Oil launches battery swapping facility for quick recharge of EVs](#)

[China lithium-ion battery maker partners with wireless charging firm Energous](#)

[ATEQ Introduces the EVB5100 Industrial EV Battery Module Balancer](#)

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

[EDF to optimise 49.9MW of Pivot Power battery storage](#)

[ZincFive releases nickel-zinc battery cabinet for megawatt class UPS](#)

[Catching the thermal runaway: Testing safety of energy storage systems](#)

[20kWh Redflow zinc-bromine flow battery goes into operation at Swansea University](#)

[EDF Renewables UK, Octo Energy team up on solar, battery projects](#)



[International Battery Seminar & Exhibit conference 2020, Orlando, FL, USA – 27/7-30/7, 2020](#)



f-cell+HFC September 9+10, 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)

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[The Battery Show](#) - Headline: Ready to Inspire the Next Great Battery Application? Now in its 10th year, The Battery Show 2020 is North America's largest and most comprehensive annual trade show event for the advanced battery manufacturing industry representing the entire supply chain from raw materials through end-of-life battery recycling. Combined with the Electric & Hybrid Vehicle Technology Expo, this two-in-one event gives you a complete end-to-end view across the entire battery supply chain.

[Electric & Hybrid Vehicle Technology Expo](#) - Headline: Join the Auto Revolution at the EVT Show. Each year, engineers, innovators, and thought leaders converge in Novi, Michigan, for a conference and expo dedicated to the fast-moving EV and HEV drive train and power system industries. Combined with The Battery Show, this two-in-one event offers the latest in electric motors, cooling, converters, and charging as well as an end-to-end view across the complete battery supply chain.



### **25<sup>th</sup> International Congress for Battery Recycling ICBR 2020, September 16 – 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>



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: ELECTRICIFICATION OF AEROSPACE DAYS EUROPE/E & H AIRCRAFT South of France 2020 28.–29.09.2020, Toulouse, France: <https://aerospace.euveris.eu/electric-eu/>



**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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**EV Charging Infrastructure and Technology Expo 30<sup>th</sup> September to 2<sup>nd</sup> October 2020 at MECC, Maastricht, Netherlands**

[www.mnmexpo.com/ev-charging](http://www.mnmexpo.com/ev-charging) The EV Charging Infrastructure and Technology Expo, the only international event in Netherlands focuses on bringing together key stakeholders like government, utility companies, municipalities, OEM's fleet owners, researchers and electric vehicle technology providers to discuss the growth opportunities in the EV Charging Industry through new infrastructures and technology. Learn about EV Charging Infrastructure, Charging Technology, Battery Technology and Energy Storage.

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From October - TDB, 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.



[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.



[The Battery Show Europe](#) : 15-17/10/2020 - Join industry peers at the leading meeting place for the advanced battery and H/EV technology community, where you can meet over 500+ suppliers. Running alongside the free-to-attend trade fair is an expert-led conference with speakers from top manufacturers such as Daimler, CATL and Volvo. Use the code 'SDLE10' for 10% off conference passes.



eMove360 battery conference - Messe Munich, Germany 20-22/10/2020

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21-23/10/2020 - InterBattery is the only marketplace where world's leading battery manufacturers such as Samsung SDI, LG Chem and SK Innovation attend at the same time, and showcase their products capabilities. Exhibitors can meet both domestic and international key buyers and therefore make new business deals. Asia's No.1 Battery Show, InterBattery 2020, provides you the diversity of concurrent events, differentiated services such as Biz-matchmaking, accommodation, 24/7 online promotions. Join the InterBattery 2020, where more than 200 companies, 30,000 buyers attend. <http://interbattery.or.kr/en/>

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The Battery Technology Show Virtual Expo - 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.  
<https://www.batterytechnologyshow.com/virtualevents>

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[AABC USA](#) Conference, 2-5/11/2020, San-Francisco. CA. USA

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[1st EV & Stationary Battery Conference](#), Vitoria, Spain 23-24/11/2020 - Shmuel De-Leon Energy and CIC energiGUNE decided to organize yearly battery conference that will be a place to discuss and provide a platform for technological innovations and business opportunities in Spain and abroad. The conference will discuss the latest advances and innovation in Electric Vehicle's & Stationary batteries.

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[Battery Cells & System Expo 2020](#) - A major exhibition and conference for the advanced battery industry launches on 1st-3rd December 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.

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ACI's European Electric Vehicle Batteries Summit will be taking place in Rotterdam, the Netherlands on 9th – 10th December 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 Europe 2021 Conference - 17-21/1/2021, Wiesbaden, Germany

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The Battery Technology Show, 23-24 February 2021

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 14th China International Battery Fair](#) (CIBF2020), organized by China Industrial Association of Power Sources, was originally planned to be held in Shenzhen Convention & Exhibition Center from May 25 to 27, 2020. The

novel corona virus is spreading all around the world. In order to protect the health and life safety of exhibitors, visitors and partners, and ensure the exhibition results of exhibitors at home and abroad, we solemnly announce: the 14th China International Battery Fair, CIBF2021 will be held in Shenzhen Convention & Exhibition Center on March 19-21, 2021, and the exhibition venue, booth number and area of exhibitors will remain unchanged.

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The Battery Technology Show & Future of Electric & Hybrid Vehicles, 13 April 2021

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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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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49th Power Sources Conference, 7-10 June 2021, 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.

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The 11<sup>th</sup> International Conference on Lead-Acid Batteries [LABAT'2021](https://www.labatscience.com) will be held 8-11 June 2021 in the magnificent Golden Sands resort on the Bulgarian Black Sea coast ([www.labatscience.com](https://www.labatscience.com)). LABAT is a globally recognized scientific forum gathering leading battery experts, technologists and academic researchers from all over the world. LABAT'2021 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 exhibition fair will present a perfect opportunity to showcase your new products and services.

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