

# Li-ION 2021

1 - 3 December

The International Virtual Conference on  
Recent Advances in Lithium-ion Batteries (LIBs)  
and their Recycling Methods for Sustainable Development



## Programme

Time zone: GMT

### DAY ONE - DECEMBER 1

#### AM SESSION

##### **8:30 - 8:50 - Opening Remarks**

Prof Tim Blackman - Vice-Chancellor - The Open University

Prof B. S. Murty - Director - IITH Hyderabad

Prof M. Stanley Whittingham - 2019 Nobel Laureate

##### **8:50 - 9:30 - Key-note speaker**

Prof John Irvine - St Andrews University

#### **SPEAKERS + Q&A**

09:30 - 10:00 - Prof Vasant Kumar - University of Cambridge - *Beyond Li-ion Batteries: Prospects for Li-S Batteries*

##### **10:00 - 10:10 - Break**

10:10 - 10:40 - Professor Sagar Mitra - IITB - *Familiar LIB battery materials with unfamiliar reactivity*

10:40 - 11:10 - Prof Peter Raymond Slater - University of Birmingham - *Evaluating the effect of doping strategies on the performance of garnet solid-state electrolytes*

11:10 - 11:40 - Dr Jenny Baker - Swansea University - *Beyond lithium - challenges and opportunities of hybrid flow batteries*

##### **11:40 - 12:10 - Break**

#### PM SESSION

##### **12:10 - 1:10 - Students' presentation**

1:10 - 1:40 - Dr Yimin Chao - University of East Anglia - *A Strategy of Synthesizing High Capacity Anode Using Barley Husks*

##### **1:40 - 1:50 - Break**

1:50 - 2:20 - Dr Jagjit Nanda - Oak Ridge National Laboratory - *Design Space for Cobalt and Ni-free High-Capacity Lithium-ion Cathodes*

2:20 - 2:50 - Prof Vilas Pol - Purdue University - *Low-Temperature Performance, Thermal Safety and Upcycling of Li-ion Batteries*

##### **2:50 - 3:00 - Closing**

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### DAY TWO - DECEMBER 2

#### AM SESSION

**8:30 - 8:40 - Opening session**

#### **SPEAKERS + Q&A**

08:40 - 09:20 - Prof Emma Kendrick - University of Birmingham - *Recycling and re-use for sustainable battery materials*

09:20 - 9:50 - Prof A. S. Prakash - CSIR-CECRI - *Indigenous Li-ion Batteries for EVs and Energy Storage: Challenges and Opportunities*

9:50 - 10:20 - Prof Aninda Jiban Bhattacharyya - IISc - *A Few Case Studies of 2D Materials and Soft Matter Electrolytes for Rechargeable Batteries*

**10:20 - 10:30 - Break**

10:30 - 11:00 - Dr Pratima Meshram - CSIR-NML - *Technological advancements in Lithium-ion battery recycling - an Indian perspective*

**11:00 - 11:30 - Key-note speaker**

Prof Doron Aurbach - Bar-Ilan University

#### **SPEAKER + Q&A**

11:30 - 12:00 - Dr Vanchiappan Aravindan - IISER - *Graphite from spent Li-ion Batteries for metal-ion capacitors*

**12:00 - 12:30 - Break**

#### PM SESSION

**12:30 - 2:00 - Students' presentation**

**2:00 - 2:15 - Li-ION batteries: Distance teaching with NanoLab**

Prof Jeffrey Johnson - The Open University

**2:15 - 2:55 - Students' panel discussion**

**2:55 - 3:00 - Closing**

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The Open  
University



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### DAY THREE - DECEMBER 3

#### AM SESSION

**8:30 - 8:40 - Opening session**

#### SPEAKERS + Q&A

8:40 - 9:10 - Dr N. Kalaiselvi - CSIR-CECRI

9:10 - 9:40 - Dr Athan Fox - CEO Ever Resource Ltd - UK - *Feasibility studies into innovative separation technologies for recycling end-of-life lithium-ion batteries*

9:40 - 10:10 - Mr Kali Prasad Yalamanchili - CEO Nile Limited - India

#### **10:10 - 10:20 - Break**

10:20 - 10:50 - Prof Michael Pryke - The Open University - *Re-seeing' lithium-ion battery supply chains through an interdisciplinary lens*

10:50 - 11:20 - Ms Bindu Madhavi - IESA

11:20 - 11:50 - Dr Gavin Harper - University of Birmingham

#### **11:50 - 12:20 - Break**

#### PM SESSION

**12:20 - 1:00 - Key-note speaker**

Dr Tata Narasinga Rao - ARCI - *India Specific Energy Storage Options and Technologies*

#### SPEAKERS + Q&A

1:00 - 1:30 - Mr S.A. Gaffoor - CEO Roshan Energy Technologies - India - *Applications of the Lithium-ion batteries*

1:30 - 2:00 - Geoff Smallwood - WISH - *Fire risk at waste and recycling sites from rogue ('zombie') lithium batteries*

**2:00 - 2:40 - Panel session**

**2:40 - 3:00 - Closing session remarks/ Student prize winners**