



**National Seminar on  
Lead & Zinc Batteries – Green Recycling & Energy Storage  
24 April 2023, Hotel Chancery Pavilion, Bangalore**

**Technical Programme**

**24 April 2023, Monday**

08.30 hrs      **Registration / Kit Collection**

09.30 hrs      **Inaugural Session**

10.15 hrs      **Session 1: Green Recycling**                      **Chairman: R P Sharma**

- "SOPs for Green Recycling of Used Lead Acid Batteries"  
by Brian Wilson, International Lead Association, UK
- "Recent Advances in the Management of Lead Exposure" by Dr Venkatesh Thuppil, NRCLPI
- "ULAB Recycling – A Well Proven Example for Metals Circularity in India"  
by Vijay Pareek, Gravita India Ltd
- "Growing Market for Lead Acid Battery Recycling in India" by Sandeep Ramesh, Nile Ltd
- "Battery Waste Management Rules, 2022" by L Pugazhenthly, ILZDA
- "The New EU Battery Regulation – Creating a Circular Economy for Battery Raw Materials"  
by Dr Steve Binks, International Lead Association, UK
- "Refined Lead Branding – The Indian Way" by Chittaranjan Rege, MCX India

12.15 hrs      **Session 2: Energy Storage**                      **Chairman: Brian Wilson**

- "Net Zero – Energy Transition & Role of Lead Batteries"  
by Subhankar Chakarabarty, Exide Industries Ltd
- "Lead Acid Battery Manufacturing in Safe & Sustainable Environment"  
by Amlan Kanti Das, Luminous Power Technologies India Pvt Ltd
- "Fine Tuning Tubular Plate Manufacturing Technology" by C S Ramanathan, Consultant
- "Beyond Lithium – Indian Market Opportunities"  
by Dr Debi Prasad Dash, India Energy Storage Alliance
- "Batteries for Renewable Energy – Solar Systems" by Ramesh Natarajan, Consultant

13.30 hrs      **Lunch Break**

14.00 hrs      **Session 3: Energy Storage**                      **Chairman: L Pugazhenthly**

- "Lead Battery & It's Strategic Role in Energy Storage"  
by Dr Carl Telford, Consortium for Battery Innovation, UK
- "Lead Acid Battery Performance & its Dependence on Internal Resistance"  
by Dr N Sugumaran, Intl. Battery Consultant
- "Strategies for Enhancing Lead Acid Battery Pack Performance"  
by Dr Sundar Mayavan, CSIR, CECRI

15.00 hrs      **Session 4: Zinc Batteries**                      **Chairman: S K Prabhu**

- "Revolutionizing Zinc Energy Storage Solutions – A Perfect Fit for India"  
by Milind Dukle, Godrej UEP
- "Designing Anodes for Zinc Air Batteries – Challenges & Opportunities"  
by Dr M Jayakumar, CSIR, CECRI

- “Secondary Zinc Air Batteries – Futuristic Energy Storage System”  
by Dr S T Nishanthi, CSIR, CECRI

16.30 hrs Panel Session

17.00 hrs Concluding Remarks

**25 April 2023, Tuesday**

Visit to Exide Industries Ltd, Hosur, Bangalore



08.30 hrs Assemble at Chancery Lobby  
 09.00 hrs Departure from Hotel Chancery Residency to Exide Industries Ltd., Hosur  
 10.30 hrs Arrival at Exide  
 13.00 hrs Lunch  
 14.00 hrs Departure to Hotel Chancery/Bangalore

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