

Workshop II : Next-Generation Ion Battery Technologies: High Power, High Energy Density, and Industrial Challenges

Chair: Chih-Wei Hu (胡芝瑋)

August 27 (Thursday)

(Chinese speech)

Place: L100

08:30		Registration -@Activity Center (Entrance 5)
09:00		Opening Remarks Meng-Fan Luo (羅夢凡), NSRRC (國家同步輻射研究中心) <i>Session Chair: Yao-Jane Hsu (許瑤真)</i>
09:15	II1	Next-Generation Battery Technology and Industrial Applications Kuei-Yung Wang (王貴雲), COLD (長庚國際能源(股)公司)
10:05	II2	Breaking Through at the Microscopic Level, Exploring the Pinnacle of Lithium Batteries- MOLICEL: Pioneering the New Era of AI Infrastructure and Next-Generation Aerospace Ren-Jen Shiue (薛人禎), E-ONE Moli Energy Corp. (能元科技(股)公司)
10:55		Coffee Break
		<i>Session Chair: Chih-Wei Hu (胡芝瑋)</i>
11:20	II3	Risks and Safety Protection Considerations for Li-ion ESS Applications Yu-Sheng Chen (陳昱昇), COLD Electric (長庚國際能源(股)公司)
11:50	II4	Extreme Performance and Intrinsic Safety: Next-Generation High-Power Lithium-Ion Battery Innovations for AI Data Centers, Robotics, and UAVs Nan-Hung Yeh (葉南宏), E-ONE Moli Energy Corp. (能元科技(股)公司)
12:20		Lunch
		<i>Session Chair: Yen-Fa Liao (廖彥發)</i>
13:30	II5	Research Toward High Performance and Safety for Ni-Rich Li Ion Batteries Nae-Lih Wu (吳乃立), Advanced Lithium Electrochemistry (立凱電能科技(股)公司) / National Taiwan Univ. (國立臺灣大學)
14:00	II6	Synchrotron-Guided Electrolyte and Single-Crystal Engineering of Co-Free High-Voltage LNMO Cathodes for Sustainable Lithium-Ion Batteries Fu-Ming Wang (王復民), National Taiwan Univ. of Science and Technology (國立臺灣科技大學)
14:30	II7	Current Advancements in Energy Storage Materials Research at the CPC Green Energy Research Institute Jen-Hsien Huang (黃任賢), Green Technology Research Institute (台灣中油綠能科技研究所)
15:00		Coffee Break
		<i>Session Chair: Yi-chuan Lin (林逸全)</i>
15:30	II8	The Future Trends of Lithium Batteries Cheng-Zhang Lu (呂承璋), Patriot Green Energy Tech. (愛國者綠能科技(股)公司)
16:00	II9	Entropy-Engineered Cathodes and Advanced Solid Electrolytes for High-Energy, High-Power, and Safe Next-Generation Ion Batteries Han-Yi Chen (陳翰儀), National Tsing Hua Univ. (國立清華大學)
16:30	II10	An Overview of Material Selection for EV and ESS Lithium-ion Batteries Kai-Pin Huang (黃楷斌), Foxconn (鴻海精密 EV 電池暨整車製造中心)
17:00		Discussion & Closing Remarks