

# ALBA Asia 2025

1-2 September 2025 Kota Kinabalu, Borneo, Malaysia  
Agenda (status: 14 August 2025)

Monday, 9:00 - 10:30

Tea 10:30

Lead market insights (joint session with RECYCLE100)		
Mark Stevenson, Eckhard Karden	<b>Conference Opening</b>	
Huw Roberts	<b>Challenges Facing Lead Producers and Consumers Over the Next Five Years</b>	
Joao Jorge	<b>Global Lead Market Facts, Figures &amp; Fundamentals</b>	
Dong Li	<b>Recycled Lead in China</b>	

Monday, 10:45 - 11:40

Automotive battery market perspectives		A1
Kohei Koga	<b>Market Trend in Japan and Southeast Asia</b>	A11
Mohamed Sharif	<b>The Adaptive Shift: Emerging Trends in Indian Automotive Batteries</b>	A12
Prince Elmer Reyes	<b>Automotive market trends in Asia</b>	A13
Kevin Luo *	<b>The trend of LAB as low-voltage power for NEV</b>	A14
Zhao Ke *	<b>NEV low-volt battery application and trend</b>	A15
Eckhard Karden	<b>Market trends for other regions</b>	A16
Begüm Bozkaya	<b>OEM expert survey about 12V battery requirements and technologies</b>	A17

Monday, 11:40 - 12:30

Lunch 12:30

New vehicle applications for 12V lead batteries		A2...A4
Eckhard Karden	<b>Stop/start and micro-hybrid functions</b>	A21
Jun Furukawa	<b>12V mild-hybrid functions in contrast to micro-hybrid</b>	A22
Eckhard Karden	<b>12V auxiliary and backup battery applications</b>	A31
Eckhard Karden	<b>How do 12V auxiliary batteries fail in the field? Field data overview</b>	A41
Kohei Koga	<b>Field life of 12V AUX batteries in HEV</b>	A42
Kevin Luo *	<b>Analysis of failure modes and charging strategies for 12V auxiliary batteries in NEV</b>	A43
Zhao Ke *	<b>Failure mode investigation of 12V batteries in BEV</b>	A44

Monday, 1:30 - 2:20

Breakout Session 2:20, Tea 3:15

Power performance beyond & after engine cranking			P
	Eckhard Karden	<b>State of Function (SOF): A concept to define, measure and monitor power performance</b>	P11
	Eckhard Karden	<b>The new pulse-power characterization (PPC) and mapping methods in IEC 60095-8</b>	P21
	Yukiyasu Nagata, Eason Tu, Shawn Peng	<b>PPC-based performance characterization for alternative battery chemistries</b>	P22
	Eckhard Karden	<b>Transient power boost in freshly charged batteries</b>	P31
	Yu Ping *	<b>How far can we improve SOF recovery? Analysis of IEC benchmarking data</b>	P32

Monday, 3:45 - 4:30

Charging performance - new application demands and competing technologies			C
	Eckhard Karden	<b>Session introduction: Charging performance - new application demands and competing technologies</b>	C11
	Shane Christie, Campbell Matthews	<b>Microhybrid battery requirements: How DCA, shallow-cycle life and high-temperature durability go together</b>	C12
	Prince Elmer Reyes	<b>How can we efficiently qualify micro-hybrid batteries for global OEMs? Synopsis of international test standards</b>	C13
	Jun Furukawa	<b>12V mild HEV battery requirements in contrast to micro-hybrid</b>	C21
	Eckhard Karden	<b>Measuring the recovery of both SOC and SOF in the new IEC 60095-8</b>	C31
	Yukiyasu Nagata	<b>Charge Recovery test method for cell-technology comparison (breakout session - Tuesday)</b>	C3a

Monday, 4:30 - 5:30

Bus departure 6:10

How can the negative electrode improve DCA and Charge Recovery?			L1
	Jun Furukawa	<b>Review about negative electrode with respect to charging</b>	L11
	Jun Furukawa	<b>UltraBattery: Performance and mechanisms</b>	L12
	Mahadevaswamy Kodimole Mahadevappa, Jibo Zhang *, John Wertz *, Shane Christie, Campbell Matthews	<b>From grid plates to GEM/AA fibre-structure negative electrodes</b>	L13
	Grace Rocha *	<b>DCA, Water Loss, SOF and SOC: Revisiting High-Surface Area Carbon Additives in NAM</b>	L14
	Yu Ping *	<b>NAM modification effect on Charge Recovery</b>	L16
	Luke Salzer, Carter Abney	<b>The role of lignosulfonate molecular weight on 2V cell performance (breakout session - Tuesday)</b>	L1a

Monday, 6:30 p.m.

Workshop Dinner
ALBA Asia and RECYCLE100 participants will enjoy a dinner at The Pacific Sutera Hotel (included in the workshop fee). Transfers will depart Hilton Kota Kinabalu and Holiday Inn Express Kota Kinabalu City Centre at 6:10 pm. Return transfers to both hotels will commence from 8:45 pm.

Tuesday, 8:15 - 9:00

<b>Think out of the box: new concepts for automotive batteries</b>			<b>L2</b>
Naoto Miyake, Eric Miller *	<b>Future Separator Design for enhanced flooded batteries under partial state-of-charge (PSoC) duty</b>		L21
Naoto Miyake	<b>Stratosphere versus conventional separator (breakout session - Tuesday)</b>		L2a
Mark Stevenson	<b>Primary or Secondary Lead – Is there really a difference?</b>		L22

Tuesday, 9:00 - 10:00

Tea 10:00, Breakout Session 10:15

<b>How can the positive electrode improve DCA and Charge Recovery?</b>			<b>L3</b>
Paul Everill	<b>Limitations of the charging reaction in the positive electrode and mechanisms of SOF recovery</b>		L31
Paul Everill	<b>PAM material investigations before &amp; after CR test</b>		L32
Enqin Gao	<b>About the interaction of charging regime and PAM</b>		L33
Eckhard Karden	<b>Can pauses accelerate charging?</b>		L34
Micha Kirchgessner, Rainer Bussar, Hamid Ramianpour	<b>Laser microscopy to investigate PAM during charging</b>		L35
Micha Kirchgessner, Rainer Bussar, Hamid Ramianpour	<b>Laser microscopy scans of freshly-charged versus freshly-discharged PAM (breakout session - Tuesday)</b>		L3a
Matt Raiford	<b>CBI projects on PAM improvements and Best Practices Manual</b>		L37

Tuesday, 11:15 - 12:00

<b>Engineering tools and guidelines for smart application of 12V lead batteries</b>			<b>S</b>
Begüm Bozkaya	<b>The CBI ALBAplus program to support application-oriented R&amp;D for automotive applications</b>		S01
Jonathan Wirth *	<b>Which CCA rating does my auxiliary battery need? Launching a web-based CAE tool</b>		S11
Roger Zimmermann *	<b>Recommendation for 12V Charging Strategy in BEV</b>		S21
Eckhard Karden	<b>How can 12V batteries support Functional Safety?</b>		S31

Tuesday, 12:00 - 12:30

Lunch 12:30

<b>Closing ALBA Asia</b>		
panel discussion	<b>Opportunities for collaboration and application-relevant research</b>	
all	<b>Participants' feedback</b>	

Tuesday, 1:30 - 5:30

<b>CBI Technical Workshop</b>
Tuesday afternoon, all ALBA delegates are invited to join the Consortium for Battery Innovation (CBI) Technical Workshop at the same location.