ALBA Asia 2025

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

Monday, 9:00 - 10:30 — Tea 10:30

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

Monday, 10:45 - 11:40

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

Monday, 11:40 - 12:30 — Lunch 12:30

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

Monday, 1:30 - 2:20 — Breakout Session 2:20, Tea 3:15

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

Monday, 3:45 - 4:30

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

Monday, 4:30 - 5:30 — Bus departure 6:10

How can the negative electrode improve DCA and Charge Recovery?		L1
Jun Furukawa	**Review about negative electrode with respect to charging**	L11
Jun Furukawa	**UltraBattery: Performance and mechanisms**	L12
Mahadevaswamy Kodimole Mahadevappa, Jibo Zhang *, John Wertz *, Shane Christie, Campbell Matthews	**From grid plates to GEM/AA fibre-structure negative electrodes**	L13
Grace Rocha *	**DCA, Charge Recovery and hot-climate fleet test data for EFB with additivated negative plates**	L14
Yu Ping *	**NAM modificati on effect on Charge Recovery**	L16
Luke Salzer, Carter Abney	**The role of lignosulfonate molecular weight on 2V cell performance (breakout session - Tuesday)**	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, 8:30 - 9:00

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

Tuesday, 9:00 - 10:00 — Tea 10:00, Breakout Session 10:15

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

Tuesday, 11:15 - 12:00

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

Tuesday, 12:00 - 12:30 — Lunch 12:30

Closing ALBA Asia		
panel discussion	**Opportunities for collaboration and application-relevant research**	
all	**Participants' feedback**	

Tuesday, 1:30 - 5:30

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