

AllCell draws crowds at automotive battery tradeshow

Source: AllCell

Class: PRESS RELEASE

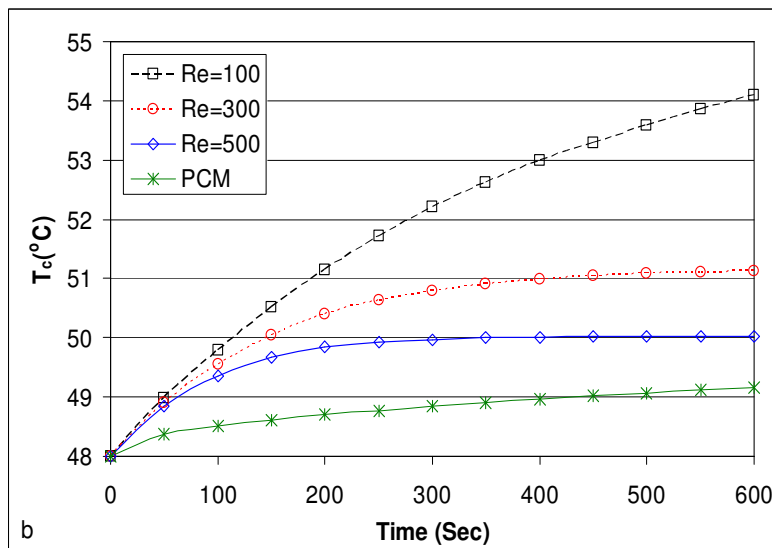
SYNOPSIS: AllCell's customized energy storage solutions and thermal management for large-format cells resonates with conference attendees .

Long Beach – AllCell recently participated in the Advanced Automotive Battery Conference 2009 in Long Beach, CA. The conference is the marquee annual meeting of the major companies in the automotive battery industry. We had the opportunity to present our latest work at our poster and exhibit booth, and actively discuss the current and future markets for world-leading automotive OEMs and cell manufacturers.

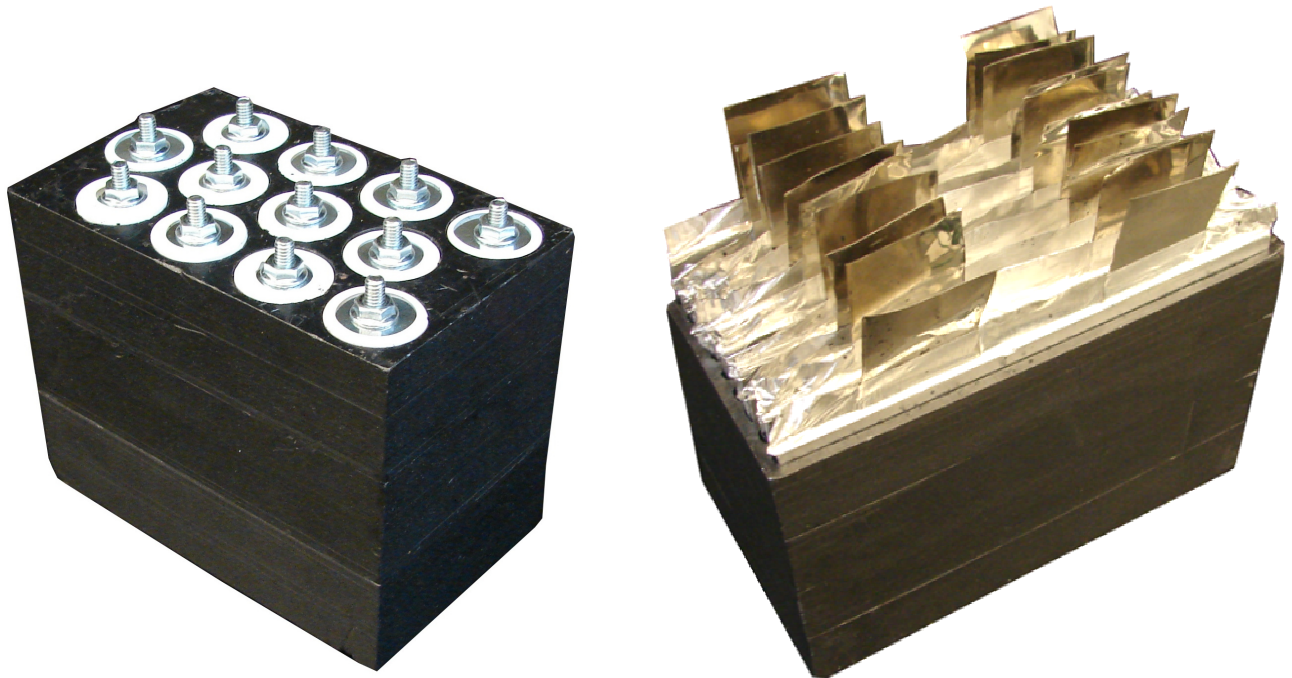
As speakers presented their efforts to commercialize lithium ion for automotive applications, the same three key factors were mentioned again and again: reliability, safety, and cost. AllCell's unique passive thermal management with phase change material allows us to directly address all three. High cell temperature uniformity extends the life and reliability of the pack. Our passive prevention of thermal runaway propagation provides cutting edge safety and our commodity material and low labor process makes us the most economic thermal management available today.

AllCell and the Illinois Institute of Technology presented a poster comparing liquid cooling to PCM as potential thermal management solutions for large format lithium ion battery packs. The poster displayed the results of R&D work involving modeling of 13 Ah lithium polymer cells in a 500 Wh pack. As can be seen in the graph below, the simulation clearly shows PCM performs better than the liquid cooling plate system at high ambient temperature and high discharge rate. The poster drew interest from a number of OEMs and Tier 1 auto suppliers.

Cell Temperature during 78 A Discharge: Liquid Cooling vs. PCM



AllCell also made an impressive showing at the exhibition. The booth showcased some large format battery pack designs and the value proposition of PCM for a variety of vehicles. What turned the most heads by far were AllCell's mockups of a large format cylindrical cell pack and a large format polymer cell pack. These demos struck a chord with the general consensus from the show that since large format cells are the future of the automotive battery market, cost effectively overcoming their thermal issues was key to commercial success.



All Cell Technologies offers customized thermal management solutions and battery packs for high power lithium-ion based systems in applications such as hybrid electric vehicles and light electric vehicles (i.e. electric scooters, electric bikes, and neighborhood electric vehicles). Their patented phase change material (PCM) surrounds each lithium-ion cell to absorb and conduct heat away from the battery, effectively doubling the life of the cells and preventing fire or damage to the battery. www.allcelltech.com

Founded in 1890, IIT is a Ph.D.-granting university with more than 7,500 students in engineering, sciences, architecture, psychology, design, humanities, business and law. IIT's interprofessional, technology-focused curriculum is designed to advance knowledge through research and scholarship, to cultivate invention improving the human condition, and to prepare students from throughout the world for a life of professional achievement, service to society, and individual fulfillment. www.iit.edu