

SUMMIT CHAIRS AND SPEAKERS

Summit Chair: Menahem Anderman, Ph.D., *President, Advanced Automotive Batteries USA and founder of Total Battery Consulting, Inc.*

Session 1: Electrified Vehicle Market Growth, Grand Ballroom, 3rd floor



Menahem Anderman, Ph.D. is a broad-based battery industry executive with experience ranging from materials research, cell design and product development, to market development and general management. He is distinguished within the industry by a combination of technical depth and business comprehension, as well as an understanding of the particular roles of technology, finance, manufacturing and marketing in building successful business. Prior to founding Total Battery Consulting, Inc., Dr. Anderman served as Vice President of Technology at Polystor Corporation and held a number of key technical and business development positions at Acme Electric Corporation rising to Vice President and General Manager. In the United States, Dr. Anderman has advised the U.S. Department of Energy, California Air Resources Board (CARB) and the U.S. Congress on battery development and markets. He has authored numerous technical articles and holds several battery related patents.



Russell Hensley, Expert Associate Principal, McKinsey & Company, Inc.

Russell Hensley is an Expert Associate Principal in McKinsey's Automotive and Assembly Practice and is based in the Detroit office. A 20-year veteran of the automotive industry, he works exclusively on projects with automotive manufacturers, suppliers, investors, and high-tech companies. In addition to serving automotive clients, he co-leads McKinsey's special initiative on the impact of climate change on the automotive industry which includes a focus on the future of vehicle electrification. Prior to joining McKinsey, Mr. Hensley managed the North American Vehicle Engineering Operations for Ricardo Consulting Engineers and managed the North American Operations for the Motor Industry Research Association. He obtained his M.B.A. from The University of Michigan and B.Eng. in Mechanical Engineering from Leeds University, England.



Sachiya Inagaki, Market Researcher, Chemicals, Materials, Electronics, Optics (CMEO), Yano Research Institute

Sachiya Inagaki, born in Tokyo, Japan, has worked with Yano Research Institute since August 2000, when he joined the CMEO department as market researcher. Recently, Mr. Inagaki's work has focused primarily on market research for LiB cells and their four major components (cathode, anode, electrolyte, and separator). His research is not limited to Japan, Korea, and China, but also includes the U.S and Europe where new LiB markets are emerging. He has conducted interviews around the world.



Tom Van Bellinghen, Global Marketing & Sales Director, Umicore

Tom Van Bellinghen joined Umicore in 2009 as the Global Marketing & Sales Director responsible for the Rechargeable Battery Materials business. He was previously a business Development Manager at Intel, and the Country Manager Benelux for Flir Systems. Tom holds a Master of Science in Electromechanical Engineering from the Catholic University of Leuven and a degree in Business Administration from the Leuven Graduate School for Business Studies.

Session 2: Innovations in Cell Chemistry for Energy Storage, Grand Ballroom, 3rd floor



Session Chair: **Steven J. Visco, Ph.D.,** *Chief Technical Officer and Vice President, PolyPlus Battery Company*

Steven J. Visco is a co-founder, Chief Technical Officer and Vice President of PolyPlus Battery Company in Berkeley, California, as well as a Principal Investigator in the Materials Science Division at the Lawrence Berkeley National Laboratory. Dr. Visco graduated with a B.S. in Chemistry from the University of Massachusetts in 1977 and received his Ph.D. in Physical Chemistry from Brown University in 1982. Dr. Visco then joined the staff at the Lawrence Berkeley National Laboratory as a Principal Investigator in the Materials Sciences Division in 1984 where his research interests have included solid-state ionic devices such as batteries and fuel cells. Steven Visco co-founded PolyPlus Battery Company in 1991. Dr. Visco also serves on the Technical Advisory Boards for the Conrad Foundation and the CIC Energigune Institute in Miñano, Spain. Dr. Visco has published over 84 articles in scholarly journals, and currently holds 70 issued U.S. patents and more than 200 international patents.



Norbert Schall, Ph.D., *Vice President R&D, Battery Materials, Sud-Chemie AG*

Dr. Norbert Schall was born in 1953 in Freising (Germany). After studies of chemistry at the Ludwig-Maximilian University in chemistry he graduated with his Ph.D. in 1984. Dr. Schall has worked for Süd-Chemie in a number of positions, including business unit manager and head of Strategic R&D, since 1984. He was named Vice President of R&D, Battery Materials, in 2003.



Mark Juzkow, Vice President of R&D and Engineering, Leyden Energy

Mark Juzkow began his battery career at Moli Energy in Vancouver, Canada in 1985. He managed the Product Development team as Moli Energy became the first North American company to manufacture and commercialize lithium-ion cells in the early 1990's. Mr. Juzkow has worked and consulted in the field of batteries, supercapacitors, battery materials, battery testing and regulatory matters. Currently, Mr. Juzkow is the CTO at Leyden Energy in Fremont, CA. He holds B.Sc., M.Sc. (Chemistry) and MBA degrees.



Marianne Chami, Li-ion Cell Conception Manager, R&D, CEA-LITEN

Marianne Chami studied chemistry at University of Bordeaux I and holds a Ph.D. in Lithium polymer battery, in collaboration with Batscap. In 2005 she joined the Atomic Energy Center (CEA in Grenoble, France) as project leader to develop specific Li-ion cells following industrial demands. Today, she has the research and development responsibility of new Li-ion cell conception, in the R&D Li-ion laboratory of CEA-LITEN.



Jeffrey Phillips, Chief Technology Officer, PowerGenix

As founder and chief technology officer of PowerGenix Dr. Phillips in the battery, energy and electronics industry has 25 years of research and development, manufacturing and technology management experience. He was the 1995-2000 president of the new century, the power company's chief technology officer, responsible for strategy development and guidance of all R & D and engineering projects. Previously, Phillips, Ph.D. has any PowerBook laptops, Apple's technical manager, responsible for the total value of \$ 350 million PowerBook notebook components manufacturing. He also served as project manager and Altus's technical director, responsible for managing one rechargeable lithium battery

R & D activities. Phillips, Ph.D. University of Newcastle holds a Ph.D. in electrochemistry, also holds 15 patents and has written more than 20 publications in this technology.

Session 3: Battery Design for Safety and Extended Life, Grand Ballroom, 3rd floor



Session Chair: **Robert Spotnitz, Ph.D.**, President, Battery Design LLC.

Robert M. Spotnitz, Ph.D., is a leading developer of mathematical models that simulate battery operation and founded Battery Design LLC in 1999 to develop custom software for battery design and development and recently participated as co-founder at start-up of two battery development companies: American Lithium Energy Corporation and MicroAzure Corporation. Dr. Spotnitz previously served as Director, Advanced Product Development at PolyStor Corporation where he led efforts to develop large lithium-ion batteries and won a \$9.5 million PNGV (U.S. Partnership for New Generation Vehicles) grant for hybrid electric vehicle battery development. Dr. Spotnitz has 18 patents related to battery design and development and has authored 35 articles in the electrochemical field.



Uwe Weidemann, Ph.D., Product Manager Global Battery Team, AVL List GmbH

Uwe Wiedemann studied Mechatronics at the University of Aalen, Germany and the University of Teesside, GB. During his Ph.D. thesis at the University of Ulm, he investigated ageing mechanisms for NiMH cells for HEVs. Since 2003, he has been involved in battery management systems and works with electrochemical storage systems. After working in research and development departments at Daimler AG and Robert Bosch GmbH, he joined AVL List GmbH as Product Manager for Battery Systems in 2009.



Patrick Leteinturier, Senior Principal Automotive Systems, Infineon Technologies AG

Patrick Leteinturier has 22 years of experience in automotive electronics. He is currently responsible for system architecture of silicon products (silicon sensors, microcontrollers, silicon smart powers, and power modules) for HEV, PHEV, BEV applications at Infineon Technologies AG. He is SAE Fellow. Mr. Leteinturier started his career at Lucas and SAGEM developing powertrain electronic systems for PSA and Renault. He is a member of SAE International, SIA and

IEEE. He holds various patents on automotive electronics, and has authored more than 20 SAE publications. He has been a guest professor at Tianjin University (China) since 2006. Mr. Leteinturier received his Mechanical Engineering degree from ENSAM: Ecole Nationale Supérieure des Arts et Métiers (France) in 1987 and his Electric & Electronic Engineering degree from ESE: Ecole Supérieure d'Electricité (France) in 1990.



Jia Hongtao, Ph.D., Director, Power Cell R&D, Tianjin Lishen Battery Company

Dr. Hongtao Jia is Director, Power Cell R&D Division, R&D Center, Tianjin Lishen Battery Joint-Stock Co., Ltd. Dr. Jia began employment with Lishen in November 2004 and is currently responsible for Li-ion battery researching and development for electrical vehicles. He holds a PhD in Material Science and has over 10 years of experience in Li-ion battery and ultra-capacitor development.

Session 4: Battery Pack Integration and Charging Challenges and Solutions, Grand Ballroom, 3rd floor



Session Chair: **Zhenxing Fu, Ph.D.**, Chief Engineer, Powertrain Systems, Shanghai E-Propulsion Auto Technology Co., SAIC Motor Corporation, Ltd.

Dr. Zhenxing Fu currently has ten years of experience in the development of hybrid and electric powertrain systems, including energy storage, transmission, and conversion systems. He has published over 30 technical papers in this field. He is a senior member of IEEE and a member of Sigma Xi.



Robert Shoemaker, Systems Engineering Manager, Texas Instruments, Inc.

Bob Shoemaker is Systems Engineering Manager for Electric Transportation - Battery Management Systems with Texas Instruments, Inc. He is an active SAE and IEEE member and has served on Technical Committee's for Li-ion battery safety, and is currently a member of the ISO26262 US-TAG. His primary responsibilities at TI include systems and IC design for the automotive and electric transportation Battery Management space, as well as Business Development, Marketing, and Key Customer interface. He has 30 years of experience in designing, developing and managing complex electronic products for a variety of businesses with more than 4 years of direct experience with Li-ion IC Battery Management Solutions.



Jeff Kessen, Director of Automotive Marketing, A123 Systems Inc.

Mr. Kessen works for A123 Systems where he focuses on market strategy. Prior to joining A123 in 2009, he spent 11 years at Bosch, which included holding leadership positions in program management, sales, and strategic marketing for automotive control software. In 2007, he was appointed General Manager of Bosch's US business unit focused on software development tools. Earlier in his career Jeff worked in chassis component development at Delphi. Jeff holds a B.S. in Mechanical Engineering from GMI Engineering and Management Institute and an M.B.A. from the University of Michigan.