

**NAATBatt 2013 Annual Members Meeting
and Symposium:**
National Alliance for Advanced
Technology Batteries

**Measurement, Management & Control
of Advanced Battery Systems**

**January 16-18, 2013 Austin, TX
Renaissance Hotel**



Speakers



Nils Aadland

Director
Maritime Cleantech West

Nils Aadland is a board member of the maritime cluster, Maritime Cleantech West in Norway. Nils is the former CEO of the shipyard Fjellstrand AS, and has been working with battery technology by developing and commercializing the first battery driven car and passenger ferry in Norway.



Said Al-Hallaj

CEO
All Cell Technologies

Said Al-Hallaj is the Chairman/CEO and co-founder of All Cell Technologies LLC, and an adjunct professor of Chemical Engineering at the University of Illinois at Chicago (UIC). Dr. Al-Hallaj earned his B.Sc and M.Sc in Chemical Engineering from Jordan University of Science and Technology and a Ph.D in Chemical Engineering from the Illinois Institute of Technology (IIT). He is the author of a book entitled "Hybrid Hydrogen Systems" and has published over forty technical peer reviewed journals and over thirty conference papers. Said is a the co-author of five issued patents and several patent applications in the area of energy storage and conversion with emphasis on renewable energy, hydrogen, batteries and fuel cells for stationary and transportation applications.



Eric Apfelbach
President and CEO
ZBB Energy Corporation

Eric Apfelbach is President and CEO of ZBB Energy Corporation. He became the company's CEO and joined the Board of Directors on January 7, 2010. Prior to joining ZBB, he was involved in the start-up of multiple technology companies. As President and founding CEO of Virent Energy Systems, Inc, he grew the company to over 80 people and attracted strategic partners Shell, Cargill and Honda to position the company as one of the top advanced biofuels companies in the world. Before Virent, Mr. Apfelbach co-founded Alfalight, Inc., where, as President and CEO, he helped grow the high power diode laser company to 85 employees in two years and led the company through multiple financings. Prior to Alfalight, Mr. Apfelbach was Vice President of Global Sales and Marketing at Planar Systems, Inc. (Nasdaq: PLNR), and held operating responsibility for the LCD division. He began his career working as an engineer in the semiconductor industry, rising to senior management at Applied Materials, one of the world's largest semiconductor equipment companies. Mr. Apfelbach received a Bachelor of Science degree in Chemical Engineering from the University of Wisconsin-Madison in 1984. He is a director of Xolve, Inc. and National Electrostatics Corporation (NEC). In 2006, he was elected to the Board of the Wisconsin Technology Council.



George Andrews
Energy Storage Program Manager
Oak Ridge National Laboratory

George P. Andrews joined Oak Ridge National Laboratory, Oak Ridge, Tennessee in May, 2009, as the Energy Storage Program Manager; following a twenty-five year career at General Motors in Research & Development, Business Systems, Product Engineering, and Automotive Manufacturing. As the Energy Storage Program Manager at Oak Ridge National Laboratory, Mr. Andrews provides technical and program development leadership, coordination and communication of ORNL activities across multiple technical programs and across existing offices. Mr. Andrews also supports development of program plans, research plans, and technology roadmaps, programmatic planning of future activities and collaboration with industry and universities, and serves as the relationship manager to the United States Department of Energy, Office of Electricity, Energy Storage program leader.



Ratnakumar Bugga
Battery Team Leader, Power and Devices Section
Jet Propulsion Laboratory

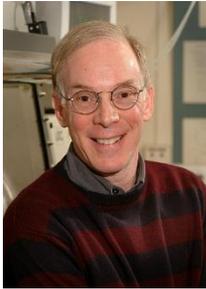
Kumar Bugga is the Principal Member Technical Staff and the Battery Team Lead in the Power and Devices Section at the Jet Propulsion Laboratory (at JPL for the last 25 years). He is the principal investigator for NASA's Space Power Systems-Batteries project. Dr. Bugga has over seventy publications in refereed scientific journals, four book chapters, 75 proceedings papers and about twenty-five US Patents on various advanced battery technologies and fifty five NASA New Technology Reports on different batteries and over 80 presentations in various National and International conferences. He holds a Ph.D. in Electrochemistry from Indian Institute of Science, Bangalore, India.



Jeff Chamberlain

Deputy Director of Development & Demonstration, JCESR
Argonne National Laboratory

Jeffrey Chamberlain is the Deputy Director of Development & Demonstration for the Joint Center for Energy Storage Research. He is also the leader of the laboratory-wide Energy Storage Initiative. The work involved is coordinated into four research areas: Advanced Battery R&D, Process Engineering for pilot-scale studies of battery materials, Energy Storage studies for power grid management, and Energy Storage R&D in advanced power train systems. In addition, he has an active role in Argonne's lithium-air battery development initiative. Prior to joining Argonne, Dr. Chamberlain performed industrial research at several companies, notably Cabot Microelectronics, Nalco, and Dow, focusing his work on the chemistry at the interface between suspended metal-oxide particles and their surrounding solutions. Products developed from Jeff's work in industry have been applied in semiconductor processing, coatings manufacture, and mineral processing. Dr. Chamberlain studied vacuum-based surface chemistry at the Georgia Institute of Technology and received his Ph.D. in Physical Chemistry.



Bruce Dunn

Professor of Materials Science and Engineering
University of California, Los Angeles

Bruce Dunn is the Nippon Sheet Glass Professor of Materials Science and Engineering at UCLA. He was a staff scientist at the General Electric Research and Development Center before joining UCLA. His recent work on electrochemical energy storage includes three-dimensional batteries and pseudocapacitor materials.



Arnstein Eknes

Segment Director, Special Ships
Det Norske Veritas (DNV)

Arnstein Eknes is segment director for special ships with Det Norske Veritas (DNV). The role includes a global responsibility for DNV's strategic directions within the special ship market segments which ranges from harbor vessels and tugs, to large passenger ships, advanced offshore and naval vessels. A key activity is to monitor market drivers and technology trends with potential impact on shipping, and help regulators to translate new knowledge into standards for best practices to achieve less harmful, more efficient and safer operations at sea.



Ankur Ganguli

Director, Engineering Technology, Corporate Innovation Center
Eaton Corporation

Ankur has been with Eaton Corporation since 2003 and currently serves as Director of Engineering for Control Systems & Solutions department at Innovation Center. In her current role she is leading a group of scientists & engineers involved in creating, evaluating & validating innovative product ideas based on breakthrough technologies in the area of automated controls & intelligent systems.

She has a MS & PhD in Automatic Controls from department of Mechanical Engineering at University of Minnesota (2003).



Yuri Gogotsi

Professor
Drexel University

Dr. Yury Gogotsi is Distinguished University Professor and Trustee Chair of Materials Science and Engineering at Drexel University. He also serves as Director of the A.J. Drexel Nanotechnology Institute. His Ph.D. is in Physical Chemistry from Kiev Polytechnic and D.Sc. in Materials Engineering from Ukrainian Academy of Sciences. His research group works on nanostructured carbons and other nanomaterials for electrochemical capacitors and batteries. He has co-authored more than 300 journal papers and obtained more than 40 patents. He is a Fellow of AAAS, MRS, ECS and ACerS and the World Academy of Ceramics.



John B. Goodenough

Professor and Virginia H. Cockrell Centennial Chair in Engineering
University of Texas at Austin

Dr. Goodenough joined the Cockrell School of Engineering in 1986 on retirement from the University of Oxford, England. Before going to England, he spent 24 years at the MIT Lincoln Laboratory as a Group Leader and Research Scientist. He has authored two books and co-authored one. He is a member of the National Academy of Engineering, and the National Academy of Sciences; a foreign associate of the Indian Academy of Sciences, L'Academie des Sciences de L'Institut de France, Academia de Ciencias Exactas Fisicas y Naturales of Spain, and the Royal Society of the United Kingdom. Among other awards, he received the prestigious Japan Prize in 2001 and the Presidential Enrico Fermi Award in 2009. Recently, he received two honorary awards for his achievements. He has been named an Honorary Engineer by the Department of Mechanical Engineering at The University of Texas and received the IEEE Medal for Environmental and Safety Technologies. Dr. Goodenough studies the relationships between the chemistry, structure and electrical properties of solids in order to design new or improved technical materials. With Professor Jianshi Zhou, he uses high pressure to study the unusual physical properties encountered at the transition from magnetic to metallic behavior in transition-metal oxides. In the 1950s, Goodenough helped to develop the ferrimagnetic memory cores of the first random-access memory (RAM) of the digital computer and he has identified all the cathode host structures for the lithium-ion batteries that have enabled the wireless revolution and will be used in tomorrow's electric vehicles, power tools, and hybrid cars. Goodenough recently identified a ceramic anode material for a solid oxide fuel cell operating on natural gas.



Phil Gorney
Safety and Compliance Engineer
NHTSA

Phil Gorney is a Vehicle Safety Research Engineer at the National Highway Traffic Safety Administration (NHTSA) in Washington, D.C. Mr. Gorney is responsible within NHTSA for alternative fuels and electric propulsion programs with a special emphasis on lithium-ion battery safety. Mr. Gorney has worked at NHTSA since 2007. He has previously been responsible for NHTSA programs and enforcement actions relating to electronic stability control in vehicles and CAFE standards. Mr. Gorney has more than 30 years' experience in the automotive industry. He worked for Chrysler Corporation from 1978 to 2007. Mr. Gorney holds a degree in electrical engineering from Purdue University Calumet.



Mark Gunderson
Engineering Manager, Electronics
Johnson Controls, Inc.

Mark Gunderson currently manages Johnson Controls' Power Solutions Electronics Engineering group in Milwaukee, Wisconsin. He has been with Johnson Controls for three years and has a total of 27 years of automotive electronics and battery systems engineering experience. Seven of those years, Mark has been working on the development of Li-ion and NiMH battery systems, electronics, and controls. He was responsible for Battery Management System (BMS) design while working for Motorola Automotive and Continental AG. Mark has a number of patents in the area of battery management and has a BSEE degree from LeTourneau University. He is married, has four children and lives in Bristol, WI.



Imre Gyuk
U.S. Department of Energy

Dr. Gyuk joined the Department of Energy to manage the Thermal and Physical Storage program. Later he managed DOE's research on biological effects of electric and magnetic fields. For the past decade he has directed the Energy Storage research program which funds work on a wide variety of technologies such as advanced batteries, flywheels, super-capacitors, and Compressed Air Energy Storage. Currently he also supervises the \$185M stimulus funding for Grid Scale Energy Storage Demonstrations which has increased storage project scales by a factor of ten. Dr. Gyuk earned his B.S. from Fordham University and did graduate work at Brown University on Superconductivity before earning his Ph.D. in Theoretical Physics from Purdue University. He served as an Associate Professor in the Department of Physics at Kuwait University before joining the U.S. Department of Energy.



Bert Haskell
Chief Technology Officer
Pecan Street Inc.

Bert Haskell is Chief Technology Officer of Pecan Street Inc., a smart grid research and development organization headquartered at The University of Texas at Austin. After being assigned to the MCC Consortium by Eastman Kodak, Mr. Haskell spent nearly a decade working for the consortium, rising to the position of MCC's Vice President of Portable Electronics Product Research. In addition to his work for Kodak and MCC, he has held product development, product marketing and advisory rolls at a number of start-up companies including Stellar Display Corporation, Wireless Age, Motion Computing, Portelligent. Prior to joining Pecan Street Project, he was Director of Product Development for Heliovolt, a developer of CIGS based thin-film photovoltaic modules. Mr. Haskell holds a Masters in Mechanical Engineering from the University of Rochester.



Brian Koch
General Motors Company

Brian Koch joined General Motors R&D in 1991 to work on development of active materials for lithium ion batteries. For the last 17 years he has served in the field of battery controls and algorithms for hybrid and electric vehicle programs ranging from the EV1 to the Chevrolet Volt.



Davion Hill
Senior Engineer
DNV Research and Innovation

Dr. Davion Hill is a Senior Engineer within DNV Research and Innovation, the global strategic research division of DNV for both DNV and DNV-KEMA groups. Dr. Hill coordinates projects related to life extension of batteries, prediction of their useful life, and implementation of battery technologies in grid and transportation applications, and presently manages an ARPA-e funded project under the AMPED program. DNV's strategic battery activities have been ongoing since 2008, but DNV-KEMA groups in energy storage and batteries have over a decade of experience to draw upon. Because batteries will continue to find new markets, there is a continued need to test their suitability, validate their performance, and do so with expediency in order to meet greater demand for energy efficiency.



David Kaplan
CEO
1Energy Systems

David Kaplan is CEO of 1Energy Systems, a Seattle-based software and information technology firm specializing in electric energy storage. In 2006, he founded V2Green to deliver the first technology platform connecting electric vehicles with the power grid. V2Green achieved national recognition as a leading clean tech company and was acquired by Gridpoint in 2008. Kaplan has over 30 years of technology experience in fields such as database management, web services, and radiofrequency identification (RFID). At Microsoft from 1987-99, he helped to create SQL Server, Access, and the company's internet services platform.



Don Karner
Chief Innovation Officer
ECOtality

Donald Karner, Chief Innovation Officer, provides Strategic direction, conducts Research and directs the development of products and services in the areas of energy, environment, and advanced transportation. Karner has authored numerous papers on these topics and ECOtality offers a number of products associated with these technology areas including battery fast chargers, specialized battery products, hydrogen fueling infrastructure and internal combustion engine vehicle hydrogen fuel conversions. Karner has over 25 years of experience in the advanced transportation and energy areas including fifteen years of electric utility industry management experience. Karner held the position of Chief Nuclear Officer for Arizona Public Service Company during the construction and commissioning of the 3800 MWe Palo Verde Nuclear Generating Station. During this period Mr. Karner directed a staff of 3,000 and interfaced with and provided testimony for the multiple plant owners, the NRC, various State regulatory commissions and the financial community regarding plant matters.



Miroslav Krstic
Associate Vice Chancellor for Research
University of California, San Diego

Miroslav Krstic holds the Daniel L. Alspach endowed chair and is the founding director of the Cymer Center for Control Systems and Dynamics at UC San Diego. He also serves as Associate Vice Chancellor for Research at UCSD. Krstic is a recipient of the PECASE, NSF Career, and ONR Young Investigator Awards, as well as the Axelby and Schuck Paper Prizes. Krstic was the first recipient of the UCSD Research Award in the area of engineering (immediately following the Nobel laureate in Chemistry Roger Tsien) and has held the Russell Severance Springer Distinguished Visiting Professorship at UC Berkeley. He is a Fellow of IEEE and IFAC and serves as Senior Editor in IEEE Transactions on Automatic Control and Automatica. He has served as Vice President of the IEEE Control Systems Society and chair of its Fellow Committee. Krstic has coauthored nine books on adaptive, nonlinear, and stochastic control, extremum seeking, control of PDE systems including turbulent flows, and control of delay systems.



Michael Kulesky

Director of Marketing, Utility and Energy Storage
EnerSys

Michael Kulesky is the Director of Marketing for the Utility and Energy Storage segment at EnerSys. Michael received his Bachelors of Science from Pennsylvania State University majoring in Operations Management and Business Logistics and holds an MBA in Global Management. He started his career managing the manufacturing floor at a Philadelphia plastics manufacturer. He then accepted an offer at American Home Products where he held several Operations Management positions. Continuing in his career he joined Lucent Technologies where he completed his tenure as a Senior Manager of Power and Batteries Supply Chain Networks.



Zachary Kuznar

Senior Project Manager
Duke Energy

Zachary Kuznar works as a Senior Project Manager in the Emerging Technology Office at Duke Energy. In this role, he focuses on identifying, developing, testing and deploying technologies in the renewable generation, energy storage, and water reuse and reclamation space. He also focuses on the development of new business cases and opportunities and provides global project management on joint venture technology initiatives. Zak holds an undergraduate degree in Chemical Engineering from Purdue University, and a Ph.D. from Yale University.



Jun Liu

Laboratory Fellow
Pacific Northwest National Laboratory

Dr. Jun Liu is a Laboratory Fellow at the Pacific Northwest National Laboratory. He is also the Leader for the Transformational Materials Science Initiative, and in this capacity, he provides oversight of the scientific directions for the large integrated energy storage program at PNNL. Jun Liu is a Fellow for the American Association for the Advancement of Science and a Fellow for the Materials Research Society. He has served as senior research staff for Sandia National Laboratories and Lucent Bell Laboratories, Department Manager for the Synthesis and Nanomaterials, Thrust Leader for Complex Functional Nanomaterials for the Center for Integrated Nanotechnologies, Sandia National Laboratories. His main research is in self-assembled, functional nanomaterials, oriented nanostructures, and the application of these materials for large scale energy storage, catalysis, environment cleanup and human health. He has received two R&D 100 Awards, two Basic Energy Science Materials Science Awards for Materials Chemistry, and was named 2007 Distinguished Inventor of Battelle. He has over 280 publications and many invited review or feature articles in leading technical journals.



Brett Lucht
Professor
University of Rhode Island

Brett Lucht received a Ph. D. from Cornell University in 1996 and is a Professor of Chemistry at the University of Rhode Island. His research is focused on novel electrolytes and electrolyte electrode interfaces for Lithium-ion batteries for electric vehicle applications. He has published over sixty articles in peer reviewed journals which have received over 1,200 citations and has an h-factor of 22. He has four patents and two patents pending and has been an invited speaker to over 50 companies, universities, national laboratories, and national or international conferences.



Arumugam Manthiram
Director, Texas Materials Institute
University of Texas at Austin

Professor Arumugam Manthiram is the Joe C. Walter Chair in Engineering in the Department of Mechanical Engineering as well as the Director of the Texas Materials Institute and the Materials Science and Engineering Graduate Program at the University of Texas at Austin. Dr. Manthiram's research is focused on materials for rechargeable batteries and fuel cells including novel chemical synthesis approaches and nanomaterials. He directs a large research group in electrochemical energy technologies with about 30 graduate students and postdoctoral fellows. He has authored more than 400 publications. He is also the co-founder of ActaCell.



Rob McHenry
Energy Technology Program Manager
PARC

Rob McHenry leads the PARC Energy Technology Program, responsible for the development, execution, and strategy for a diverse portfolio of energy technologies. His career has been focused on advanced technology development, including delivering groundbreaking defense technologies as a DARPA program manager, founding a technology management consultancy that architected and applied systematic technology development methodologies for both the public and private sectors, and developing and operating advanced technologies for the U.S. Navy as a nuclear submarine officer. Rob holds degrees from the U.S. Naval Academy in Marine Engineering, and the Massachusetts Institute of Technology in Nuclear Engineering.



Doug Moorehead
President and CEO
Earl Energy

Doug Moorehead is the President of Earl Energy, a veteran-owned power and energy systems engineering and product development company. Prior to joining Earl Energy, Mr. Moorehead was a Director and Program Manager at A123 Systems, Inc. Mr. Moorehead started his relationship with A123 systems as a graduate student at the Massachusetts Institute of Technology where the results of his graduate thesis were patented, licensed, and transferred from the university to found A123 Systems. Mr. Moorehead started his career in the Navy, serving 9 years as a Navy SEAL Officer. He was awarded the Bronze Star with Valor for combat operations in Iraq in August 2004. Mr. Moorehead graduated with Distinction from the US Naval Academy with a Bachelor of Science degree in Chemistry, a Master's of Science in Materials Science and Engineering from the Massachusetts Institute of Technology, and a Master's in Business Administration degree from the Harvard Business School.



Brian Morin
President and CEO
Dreamweaver International

Dr. Brian Morin is President and co-Founder of Dreamweaver International, an early stage development company using disruptive nanofiber technology in a versatile manufacturing process to improve rechargeable battery performance. Brian was founder and CEO of Innegrity LLC, a high performance fiber manufacturing company. Brian was co-founder and Chairman of Invenca LLC, which is dedicated to bringing best-in-the-world purification methods to markets where they have previously been cost prohibitive. Brian previously spent nine years in the Research Division of Milliken & Company, where he served as a Team Leader for the Advanced Yarns Team, as Intellectual Property Champion, and as Safety Chairman. Brian received his Ph.D. and M.S. degrees in physics from The Ohio State University in Columbus Ohio. He received his B.S. degree in physics from the University of North Carolina in Chapel Hill, NC and graduated from the North Carolina School of Science and Mathematics.



Pike Powers

Attorney
Fulbright & Jaworski L.L.P.

Pike Powers is an attorney at the law firm Fulbright & Jaworski in Austin, Texas. A former chairman of the Board of the Austin Chamber of Commerce, Powers is credited with encouraging growth of the region's hi-tech, information and entrepreneurial economy by creating a vibrant business, civic and philanthropic network. In the 1980s and on, his efforts deepened the area's technical talent pool and brought important hi-tech consortia to Austin, such as MCC, the Microelectronics & Computer Technology Corp. and SEMATECH. Powers helped recruit to the area such hi-tech employers as 3M in 1984, Applied Materials in 1991, and Samsung Electronics' second chip factory. Powers serves as a top strategist for the Texas Alliance for Nanoelectronics, a group of colleges, research institutions, and high tech companies committed to collaborating on advanced research efforts. In addition, Powers was a key strategist and crucial backer of Governor Perry's Texas Enterprise Fund and the Texas Emerging Technology Fund. Formerly, Powers served as Executive Assistant to Governor Mark White in 1983. From 1972 to 1979, he represented Jefferson County in the Texas House of Representatives.



David Robertson

Engineering Specialist
Argonne National Laboratory

David Robertson is Engineering Specialist, Electrochemical Analysis and Diagnostics Laboratory at Argonne National Laboratory. Prior to joining Argonne, David was an Electrical Engineering Manager at LGCPi in Troy, Michigan, where he served as lead in the development, validation and integration of Battery Management and Control systems, electrical interfaces, wiring systems and sensing interfaces of large format lithium ion batteries for automotive and other applications. David earned an M.S. and a B.S. in Electrical Engineering at the Illinois Institute of Technology.



Donald Sandler

Vice President, Business Development
Corvus Energy

Don Sandler has been an executive in battery and power systems development, production, and sales for 30 years. He is the Vice President of Business Development at Corvus Energy, and has previously worked at DowKokam, Maxwell Technologies, and SAFT. He has been actively involved throughout his career in new power storage technologies, and how they can profitably meet the needs of an evolving global society. Don's current focus is bringing practical, affordable hybrid power to the maritime, railroad, and mining industries. He believes that for any new technology to be successful it must be technically sound, producible, based on solid marketing research to fill a need, and offer a strong business case for a vertical ROI. Don is a Vietnam veteran, and holds an MBA in marketing.



Godfrey Sikha

Advanced Technology Group
Applied Materials, Inc.

Godfrey Sikha is a Member of Technical Staff at Applied Materials Inc.,(Santa Clara, CA) working in the area of electrochemical energy storage technologies for automotive and grid scale applications. Godfrey's background is primarily on mathematical modeling of electrochemical systems, and has published several technical articles in a wide range of aspects in the area of lithium-ion batteries and battery-capacitor hybrid systems. Godfrey holds an undergraduate degree in Chemical Engineering from Central Electrochemical Research Institute, India and a Ph.D. in Chemical Engineering from the University of South Carolina.



Ingve Sorfonn

Chairman of the Board
Maritime Cleantech West

Ingve Sorfonn is the Chairman of the Board of Maritime Clean Tech West (MCTW) in Norway. Mr. Sorfonn has more than 30 years of industrial experience within onshore, offshore oil & gas and maritime industry. He present works as Technical Director at Warsila Ship Power Solution E&A.



Dirk Spiers

Director
ATC New Technologies

Dirk Spiers, Director of ATC New Technologies (a division of ATC Drivetrain). Dirk Spiers is a pioneer in the repair, remanufacturing and refurbishment of advanced battery packs as well as the repurposing and second life of modules and cells. ATC New Technologies specializes in the refurbishment and repair of high voltage powertrain systems parts such as (P)EV battery packs, the reverse logistics of high voltage battery systems, advanced services like cell grading based on in-house developed systems and technologies. Their state-of-the-art battery center is based in Oklahoma City where they work on the battery packs of all the leading players.



Amul Tevar
ARPA-E Fellow
U.S. Department of Energy

Dr. Amul D. Tevar is an ARPA-E Fellow who is working in energy storage control systems (AMPED), energy-water and other emerging energy areas under ARPA-E program management. Before joining the ARPA-E team, Tevar received his Ph.D. in Materials Science & Engineering from Carnegie Mellon University. There he helped to invent new, low-cost sodium batteries that are now in commercial development for stationary energy storage. He also worked in novel, rapid synthesis routes and electron microscopy to investigate oxide production and lattice degradation at electrochemical interfaces. He has consulted for community health centers and a medical bioengineering startup prior to joining ARPA-E. Tevar continues to volunteer with a rural Haitian hospital to look at the integration of renewables to improve their long-term energy costs. He received his MPH in Epidemiology from the University of Illinois Chicago and his B.S. in Materials Science & Engineering from the University of Illinois Urbana-Champaign.



Pablo Valencia
Senior Director for Battery Lifecycle Management
General Motors Company

Pablo Valencia, is the Senior Manager for Battery Lifecycle Management at General Motors Company, where he leads a cross functional team that is managing the cross program traction power battery life cycle activities including service strategy, secondary use, and recycling. He has held various engineering positions in Powertrain, Thermal, and Advanced Technology Development, including responsibility for Volt Battery Thermal and Mechanical systems. Mr. Valencia has also held several business positions at General Motors, including Advanced Vehicle Line Manager for the Pontiac Solstice and a product and manufacturing management position for a GM Project in Torino, Italy.



Steve Vechy
Senior Director, Engineering & Quality Assurance
EnerSys

Steve Vechy, is the Senior Director of Engineering and Quality Assurance for the Americas at EnerSys. He is an Institute of Electrical and Electronics Engineering member and has been active in the Institute of Electrical and Electronics Engineering Stationary Battery committee and SCC-21. Mr. Vechy has also participated in the development of several standards and has published several technical papers and presentations at conferences including Battcon and Intelec. He is the chairman of the Battery Council International Industrial Battery and Charger committee and a member of the Intelec Management committee.



Tom Walker
Senior Engineer
S&C Electric Company

Tom Walker, Senior Engineer in Strategic Solutions / Automation Systems joined S&C after nearly 35 years with American Electric Power (AEP). As an engineer at AEP, Tom was primarily involved in Electric Power Distribution with a wide variety of responsibilities including planning, standards, operations, and automation of business processes such as service restoration. In recent years at AEP Tom was a Principal Engineer in Grid Management, focusing on smart grid applications. In that role he authored the functional specifications for Community Energy Storage (CES) and served as technical lead for the initial CES project in partnership with S&C. Tom has a BSEE degree from Purdue University and is a registered Professional Engineer.



Nolan Wright
Research Scientist
Southwest Research Institute

Nolan has conducted research in a broad range of stationary source and automotive emissions topics. His most recent work focuses on characterizing effluent gases that are released during xEV battery abuse testing and combustion. Nolan has conducted research in a broad range of stationary source and automotive emissions topics. His most recent work focuses on characterizing effluent gases that are released during xEV battery abuse testing and combustion. He has also provided assistance to SwRI's Energy Storage System Evaluation and Safety (ESSES) Consortium which will improve transparency in the automotive battery market by providing test data on battery cells to members in a private, third-party laboratory format.



Keith Wilson
Manager of Technical Projects
Society of Automotive Engineers

Keith is Manager of Technical Projects for SAE International. He coordinates projects and standards activities related to advanced vehicle technologies and he is involved in developing innovative business strategies surrounding vehicle safety systems, electro-mobility, chassis systems and materials/processes. Keith's role at SAE International also includes business development, ground vehicle standards support, cooperative research programs and marketing activities. Keith is also responsible for the development of technical proposals and technical project management.



Gleb Yushin

Associate Professor
Georgia Institute of Technology

Gleb Yushin is an Associate Professor of the School of Materials & Engineering and a Director of the Center for Nanostructured Materials for Energy Storage at Georgia Tech. He has over 16 year research experience in the synthesis and characterization of nanomaterials and their use in energy storage devices. For his contributions to these areas, he has received numerous awards and recognitions, including the R&D 100 Award, National Science Foundation Faculty Early Career Development Award, Air Force Office of Scientific Research Young Investigator Award, Honda Initiation Award, Petroleum Research Fund Doctoral New Investigator Award, NASA Nano 50 Award, two Roland B. Snow Awards from the American Ceramic Society, various best poster awards from the Electrochemical Society, Materials Research Society, Carbon, North American Membrane Society and other international meetings. His recent work was covered by Science, Nature Materials, Advanced Materials, JACS, ACS Nano, Physical Review Letters, other professional journals as well as 20 US and international patents and patent applications.

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