



Akiyama, Koichi

Koichi Akiyama joined Mitsubishi Rayon Co., Ltd. in 2007 and has been Research Director since then. His team is developing a mass-production process for automotive carbon fiber -reinforced plastics including material, molding process, and application related technologies. He had 20 years' experience on research and development of unsaturated polyester and vinyl ester resins, molding compounds such as SMC and BMC made of various thermoset resins, and reinforcements and molding processes for these materials at Takeda Chemical Industries, Ltd. (Japan) and Quantum Composites Inc. (the United States). He received his MS degree of Applied Chemistry from Osaka University in 1987.

Armstrong, Nathan James

Nathan James Armstrong is President and Director of Motive Industries Inc. (Calgary, Alberta, Canada). He has over 16 years of transportation design engineering experience in both the aerospace and automotive sectors. Prior to founding Motive in 2004, he worked for Boeing and Arrowhead Products on the International Space Station, Delta Rockets, and Joint Strike Fighter programs. In 1996, he moved from aerospace to automotive engineering working for Metalcrafters and Aria Group in Southern California as Vice-President of Engineering where he managed the design and construction of a vast array of vehicle projects including over 30 production vehicles, over 200 concept vehicles, and close to 1,000 clay models, interior models, and scale models. Moving himself and the company to Calgary in 2006, Armstrong has become a mainstay of local tech talks and advisory presentations to large companies. These include presentations at the ENMAX Leadership Forum where he gave a one-hour lecture on Electric Vehicles and Smart Grid Technology, the Alberta Clean Tech Forum, the Haskayne School of Business, the Edmonton Division of the American Society of Material Engineers (ASME), and the Canadian Prairies Group of Chartered Engineers, where he gathered the largest audience in the group's history. Armstrong is also a member of the Lethbridge Technology Commercialization Centre Pilot Advisory Panel, and holds the position of 'Advisor for Advanced Manufacturing' with the Alberta Space Program. He also co-founded Project Eve, a nationwide Canadian consortium of technology companies, research centers, technical schools, and universities all coming together to combine technologies and resources to develop Canada's own line of advanced transportation technology and production-level electric vehicles. Additionally, Armstrong co-founded the SuperDesigner Project with the Alberta Association of Colleges and Technical Institutes (AACTI) to promote the use of advanced design and engineering tools in colleges throughout the province. He also has taught Automotive Engineering at the prestigious Art Center in Pasadena and has taught Design for Manufacturing at the Alberta College of Art and Design. Motive Industries, which has significant experience providing vehicle design, engineering, and prototyping for composite-bodied electric vehicles (EVs), announced last fall that it would produce prototypes of an all-Canadian content, bio-composites-intensive EV named the Kestrel

targeted for commercial introduction in 2012. The company was recently been recognized as an Outstanding Alberta Science and Technology (ASTech) honoree in the field of Technology Futures.

Assaker, Roger

Roger Assaker is co-founder and CEO for eXstream Engineering. He holds a doctorate in Applied Mechanics from the University of Louvain in Belgium; an MS degree in Aerospace Engineering from the University of Liège in Belgium; and an MBA in International Business from the John F. Welch College of Business at Sacred Heart University in Luxembourg. Assaker also has 5 years' experience in Computational Mechanics working at the Goodyear Technical Center in Luxembourg.

Ball, Cedric

Cedric Ball is Global Marketing Director for Bulk Molding Compounds, Inc. (BMCI) headquartered in West Chicago, IL. He has over 15 years of composites experience working primarily in the area of marketing and new business development. Prior to joining BMCI, Ball worked for Ashland Performance Materials, Owens Corning, and General Motors' Saturn Corp. in a progression of engineering and commercial roles. He holds a BS degree from the College of Engineering at the University of Illinois - Urbana and an MBA from the Ross School of Business at the University of Michigan.

Bell, Rick

Rick Bell is the North American Development Manager responsible for DuPont's marketing initiatives with bio-based engineering polymers. He has held a variety of marketing and sales assignments, primarily in the automotive segment, during his 30 years with the company. These included 4 years in Europe where he was responsible for new product introductions in the automotive segment. Bell holds a BS degree in Mechanical Engineering from Michigan State University.

Bendo, Andre

Andre Bendo is a graduate of the University of Delaware with a degree in Chemical Engineering. He has worked for the last 18 years at Ciba and BASF in a variety of positions ranging from research to production to marketing. He currently is the Business Development Manager for BASF's Acrodur technology. Bendo is an active member or SPE, RadTech, and the Adhesive & Sealant Council.

**Berger, Libby**

Libby Berger has a bachelor's degree in Chemistry from the University of Kansas, and a PhD in Physical Chemistry from the Pennsylvania State University, where she studied quasi-elastic laser light scattering. She began her career with Owens Corning Fiberglas, working on sizing emulsions and fiber/matrix interface properties, and she then moved to General Motors Corp. in 1985. At GM, she has worked in Research and Development on adhesives and structural composites, including fiber/matrix interactions, preforming, molding, and characterization of both carbon fiber and glass fiber composites. The projects she has been able to contribute to include the Silverado composite truck box and the carbon fiber Corvette hood. Since 2000, Berger has been very involved in USCAR's Automotive Composites Consortium, working with the Material Group and Processing Group, the Focal Project 3 all-carbon body-in-white, and currently the Focal Project 4 Structural Composite Underbody.

Bowland, Creig

Creig Bowland has over 20 years' experience in the design and production of composite materials for both the aerospace and automotive markets. He has been involved in almost all aspects of the business including: materials design, production management, technical support, business development and marketing. His area of expertise is the design and use of long-fiber thermoplastics (LFT) for structural parts. Bowland holds a master's degree in Physical Chemistry and has been heavily involved in the Composites Division of SPE. He is current Chair of the SPE ACCE and is the LFT Technical Leader for PPG Industries.

Bravo, Victor

Victor L. Bravo PhD, PEng has 20 years' experience in the polymer-processing field and is the author of more than 20 scientific publications and 1 patent. After completing his doctorate at McMaster University (Hamilton, Ontario) on the subject of finite-element computer simulation of 3-dimensional flow in a twin-screw extruder, he took up the position of Associate Researcher at Indesca, the R&D centre for a cluster of polymer production companies dedicated to the manufacturing and commercialization of PE (HDPE, LDPE and LLDPE), PP, PVC and PS/EPS located at the Ana Maria Campos Petrochemical Complex in Venezuela. In fact, he is one of the founders of Indesca's injection-moulding technology centre. Following his experience in South America, Bravo moved to Canada in 2002 and immediately got involved in the development of a microcellular-foaming process for automotive applications and later in natural fibre thermoplastic composites for construction applications as the Product Engineering Manager for McFarland Cascade. He currently holds the position of Research Officer at the National Research Council of Canada, working at the newly created Magna-NRC Composites Centre of Excellence located in Concord, Ontario. Bravo has been a member of SPE since 2003.

Bureau, Martin

Martin Bureau holds a PhD in Materials Science from École Polytechnique of Montreal (1997). His areas of expertise are fracture mechanics, fatigue, and process-structure-performance relationships in polymer-based foams, composites and nanocomposites. He is Group Leader of the Advanced Polymer Composites Group of the National Research Council of Canada and lead for the Magna-NRC Composites Centre of Excellence. Additionally, he holds a faculty position as Adjunct Professor at École Polytechnique of Montreal and at McGill University. His research interests are focused on polymer-composites processing, processing-structure-property relationships, and design and fabrication of composites applications in the automotive, ground transportation, and aerospace industries.

Chaudhari, Raman

Raman Chaudhari has worked as a research employee at Karlsruhe Institute of Technology (KIT) since September 2007. He has also worked as a part-time research employee at Fraunhofer ICT since March 2009. He holds a bachelor's degree in Polymer Engineering from Pune University, India and a master's in Applied Polymer Science from Martin Luther University, Halle-Wittenberg, Germany. Currently he is working on his PhD with the research topic of "Development and Characterization of Various High Pressure RTM Processes," which is supervised by Prof. Peter Elsner and Prof. Frank Henning. Prior to starting his doctoral work, Chaudhari worked on materials and process development of LFT materials that can withstand the e-coat process for structural automotive applications.

Choi, Chi-Hoon (C.H.)

Dr. Chi-Hoon (C.H.) Choi is currently a Research Fellow in the field of polymeric materials at the Central Advanced Research & Engineering Institute at Hyundai Motor Co. Previously, between 2003 and 2010, he was a Senior Research Engineer, Leader of Plastics Group, for the Polymeric Materials Research Team, at Hyundai & Kia Corporate Research & Development Division. He joined Hyundai Motor Co. in 1994 as a Research Engineer, on the Materials Research Team at the Hyundai Research & Development Center. Choi holds a BS and MS degree in Polymer Engineering, as well as a PhD in Polymer Science & Engineering, all from Pusan National University in Pusan Korea.

Condeelis, Paul

Paul Condeelis is the Vice-President of Business Development at Romeo RIM where he has worked for 9 years. During this time, he has obtained 5 patents for newly developed products and is responsible for the development and implementation of in-mold coated long-fiber injection (LFI) and the largest LFI shuttle press in the World. Before joining Romeo RIM, Condeelis worked as a project engineer at Whirlpool and Lionel Trains where he designed and launched consumer products in 5 different countries. He earned an MBA, specializing in International Business, from Baker College and a BS in Mechanical Engineering from Pennsylvania State University.

**Costello, Charlie**

Charlie Costello is a Market Development Specialist in transportation for Ticona Engineering Polymers. In this role, he is focused on developing new high-performance thermoplastic composite applications in aerospace, automotive, heavy truck, and general transportation. Costello joined Ticona with over 25 years of global engineering-resins experience and has held various product management, business development, and application development positions with DSM, CPC, and Asahi. He holds a BS degree from East Carolina University.

DeLeo, Francesco

Francesco DeLeo is a doctoral candidate in the Department of Aeronautics & Astronautics at the University of Washington in Seattle. Since January 2011, DeLeo Francesco has been co-teaching a metal fatigue and fracture mechanics course in the U.S. as well as abroad together with Dr. Safarian of the U.S. Federal Aviation Administration. DeLeo has served as a teaching assistant for several graduate-level courses, including Integrity of Metallic Aircraft Structures, Finite Element Analysis, and Integrity of Composite Aircraft Structures. Prior to his current position, he worked first as undergraduate and then as master's student in the Automobili Lamborghini Advanced Composite Structures Laboratory (ACSL) under the direction of Dr. Paolo Feraboli. His research focused on dynamic analysis using LS-DYNA on crash and impact damage. DeLeo received a BS degree in 2007 and an MS degree in 2011 from the University of Washington. He is co-author of 4 journal publications and presented at several conferences.

Diwanji, Ashish

Ashish Diwanji has held his current position as Vice-President of Innovations for Owens Corning's Composite Solutions Business since 2006. In this role, he is responsible for commercializing innovations that yield growth and investment-grade financial results by leading creative technical talent-based teams globally in sites like Granville, Ohio; Chambéry, France; Apeldoorn, The Netherlands; Shanghai, China; and Ibaraki, Japan. Diwanji joined Owens Corning in 1995 and has held numerous positions with global accountability, including in marketing, business development, automotive operations, and technology leadership. He has 20 years of composite-materials experience – 10 of it in the automotive industry – in technical, marketing, and commercialization roles, and more recently has worked on composite solutions for wind energy, marine, and ballistics. In addition, Diwanji has represented Owens Corning on several university and U.S. government agency panels and committees such as the National Science Foundation (NSF) and the Department of Energy (DOE). He was previously a member of the board of directors for the National Composite Center (Dayton, Ohio) and currently sits on the board of the State of Ohio's Research and Commercialization Program (RCP) committee for commercialization of composites in wind and ballistics. He holds a bachelor's degree in Materials Science from the Indian Institute of Technology in Mumbai, India, and

MS and PhD degrees in Materials Science from the Center for Composite Materials at the University of Delaware. He has also been awarded 2 patents.

Dodworth, Antony

Antony Dodworth, Managing Director of Dodworth Design has spent most of his storied career working for automakers and racing teams. From 2003 until earlier this year, he was Principal Research Manager at Bentley Motors Ltd. (Crewe, Cheshire, U.K.). His initial duties were to lead a small team investigating the adoption of composite materials. The team's efforts were well received internally and externally, leading to at least 16 patent applications, a large capital investment, expansion of the team, and the work being translated through other members of the Volkswagen Group, which owns Bentley. Before joining Bentley, Dodworth spend a year-and-a-half at Futura Design as a Studio Engineer, where he worked on mechanisms for door and vent openings, as well as the composite chassis for the Cadillac Cien show car for then General Motors Corp. During his time at the company, he also worked on the chassis for a Jaguar F Type show car for Ford Motor Co., and carried out feasibility work on the interior, main chassis components, and novel multilink powered front and rear door hinges for a show car being developed by Nissan Motors. For most of 2001, Dodworth was Senior Engineer-Style Feasibility for Rolls Royce and Bentley Motors Cars where he liaised between designers and engineers and supervised a small team of studio engineers working on vehicle concept designs – from clay models through production to intent. In this role, he was also responsible for producing design proposals and patents for unique features such as a retractable hardtop, composite chassis assemblies, and door hinging systems. From 1996-2000, Dodworth worked in Germany for Hyundai Motor Europe as a Studio Engineer, where he was responsible for all aspects of studio projects, including packaging and feasibility. In this position, he primarily worked on show cars, and designed composite chassis and suspension components, as well as any additional mechanisms required to make parts function better. From 1994-1996, Dodworth was Chief Designer for International Automotive Design Espa a S.A. (now IDD) where he led the engineering team in design and development of the MCC / Iberdroca electric light van from blank sheet through to prototype testing and homologation. Another project Dodworth oversaw was the body-in-white for a new SEAT Motors Sport Rally kit car with a newly designed front suspension assembly. Additionally, Dodworth has held positions at Ford Motor Sport, McLaren Cars, Ltd., Fondmetal Formula 1, Composite Technics Ltd., Leyton House Racing Ltd., March Engineering Ltd., Ralt Racing Cars, Peter Brotherhood Precision Engineering Co., and Schmidt Manufacturing & Equipment (UK) Ltd. He holds an Ordinary National Diploma in Mechanical and Production Engineering and a Higher National Certificate in Mechanical Engineering.



Feng, Jie

Dr. Jie Feng is a Senior Engineer in the Material Science & Engineering Group in the Core R&D section of Dow Chemical Co. in Midland, MI.

Fuchs, Hannes

Hannes Fuchs is a Senior Engineer at Multimatic Engineering and has 19 years of experience in advanced engineering and R&D of composite and lightweight structures. He came to the automotive industry from the NASA-Virginia Tech Composites Program and did post-doctoral research activities at the NASA Langley Research Center. While at General Motors Research & Development, Fuchs conducted research on advanced lightweight and crashworthy carbon composite automotive structures. He came to Multimatic 11 years ago and since then has managed and directed a wide range of advanced and composite structures engineering activities, including design engineering, CAE, prototype and production manufacture, tooling, and testing. He is recognized as an industry expert in the design and application of lightweight structures and materials. Fuchs holds BSME and MSME degrees from the University of Maryland and a PhD from Virginia Tech.

George, Joe

Joseph George has been working in the plastics industry for the past 20 years. Currently, he is employed at Quadrant Plastic Composites, Inc. (a subsidiary of Quadrant Plastic Composites AG based in Zurich, Switzerland) as Senior Product Manager supporting application developments in structural & semi-structural GMT materials in North America for automotive, industrial, and military industries. Prior to Quadrant, George spent the majority of his professional career supporting development of large structural and decorative plastic applications for the automotive and industrial markets. He holds an MBA from Michigan State University and a BS in Plastics Manufacturing Technology from the University of Detroit.

Grumm, Kipp

Kipp Grumm is an Advanced Development Engineer for BASF, where he has worked for 9 years. In this role, he designs innovative solutions for applications and new technologies in the automotive industry. Prior to joining BASF, he worked as a Metals Design Group Engineer at Paulstra CRC and as a Project Engineer at General Motors. Grumm holds a BS degree in Mechanical Engineering from Michigan Technological University, an MS in Mechanical Engineering from Western Michigan University, and an MS in Environmental Engineering from the University of Florida.

Handelsman, Mark

Mark Handelsman is the Advanced Technology Product Manager for KMT Robotic Solutions in Auburn Hills, Michigan. Handelsman has worked in the robotics industry for over 25 years serving in a variety of capacities, including Project Manager, Robot and Vision System Programmer, Product Manager, and Account Manager. In his current role, he focuses on developing new market opportuni-

ties for robotics, including wind energy, cleaning, and carbon fiber structures. He holds BS and MS degrees in Electrical Engineering from Carnegie Mellon University and an MBA from the Wharton School of the University of Pennsylvania.

Hangs, Benjamin

Benjamin Hangs graduated in 2010 and holds a degree in Mechanical Engineering from the Karlsruhe Institute of Technology (KIT), Germany. In May 2010, he started work as doctoral candidate in Prof. Dr.-Ing. Frank Henning's Polymer Engineering Department at the Fraunhofer Institute for Chemical Technology (ICT) in Pfinztal, Germany. Thanks to a partnership between Fraunhofer ICT and the Fiberforge Corporation (Glenwood Springs, Colorado), Hangs' research is based on a novel high-speed tape-laying technology focusing on methodologies to integrate features such as ribs, clips, or screw bosses into thermoplastic, continuous-fiber-reinforced laminate structures. This is achieved by processing with traditional and novel compression and injection molding technologies.

Latimer, Tim

Tim Latimer is a senior at the University of Tulsa studying Mechanical Engineering with a minor in Business Administration. He plans to graduate in 2012. On campus, Latimer has held many leadership positions in several campus organizations, including the American Society of Mechanical Engineers chapter, Mortarboard Honor Society, University Ambassadors, and the Kappa Alpha Order fraternity. He also has spent the last 2 summers as an intern at Ford Motor Company.

Huber, Timo

Timo Huber studied mechanical engineering at the University of Stuttgart, specialized in automotive and polymer engineering, and graduated as an engineer (Dipl.-Ing) in 2007. Since graduating, he has worked as a Scientific Staff Member and Project Director in the Polymer Engineering department headed by Prof. Dr.-Ing. Frank Henning at Fraunhofer ICT. Huber is also a PhD student in the faculty of Mechanical Engineering at the Karlsruhe Institute of Technology (KIT). He has experience in processing thermoplastic polymers and composites, especially in the field of long-fiber-reinforced thermoplastics (LFT) in direct processing and local reinforcement of structural parts. In 2009, he became Team Leader of Injection Moulding and Extrusion, and since 2011 he has been responsible for thermoplastic processing at Fraunhofer ICT in Germany.

Hunt, Justin

Justin Hunt is a Senior Research and Development Engineer at AET Integration. He holds a degree in Mechanical Engineering and is the Technical Lead for welding and joining application development, durability improvement, and failure analysis services for clients in the automotive, defense, heavy equipment, electronics, and energy industries. Hunt has extensive experience in the areas of joining and fatigue of metals, as well as composites and adhesives.



Jiang, Xian

Xian Jiang is a PhD candidate in the Department of Chemical Engineering and Material Science at Michigan State University having previously received a bachelor's degree in Engineering at Zhejiang University in China. Jiang's research interests include multifunctional composites materials, graphene nanocomposites, nano-structured materials, and bipolar plates for automotive applications. Additionally, Jiang has published 4 journal articles and 3 papers in conference proceedings.

Jin, Yan

Dr. JinYan was born in Liaoning province, China in 1960. She has worked at the SINOPEC Beijing Research Institute of the Chemical Industry since 1985 and has been working on polymer applications and plastics technology. She holds a bachelor's degree from DaLian University of Technology, a master's degree from ChangChun Institute of Applied Chemistry-Chinese Academy of Sciences, and a PhD from the Institute of Chemistry-Chinese Academy of Sciences. She has been honored with multiple awards from the Chinese government and SINOPEC.

Joyce, Robert

Robert Joyce is the Owner and President of Innovative Plastics and Molding (IPM), a natural fiber technology company located in Lambertville, Michigan. Joyce is an entrepreneur, businessman, family man, and inventor who has been working with biopolymer compounds since 2000. He holds several North America patents to produce molded parts with biopolymers and was a recent speaker at the 11th International BioFiber Conference in Madison, Wisconsin.

Kazmierski, Charles (Chuck)

Charles (Chuck) Kazmierski, is Program Manager at Lucintel, a global management consulting and market-research firm with expertise in the composites arena. He has over a decade of experience in the resins and composites industries and has 23 years' experience in market research, opportunity screening, value-based management, voice-of-the-customer, value-chain analysis, and market-structure analysis. Prior to joining Lucintel, he spent 34 years at The Dow Chemical Co., where he worked in technical sales & service, R&D, manufacturing, marketing communications, and he enjoyed a succession of increasingly responsible positions in market research and business intelligence including: Business-Unit Research Analyst, Research Manager for the Business Analysis team, Subject-Matter Expert in the Marketing Research Expertise Center, and Internal Business/Marketing Consultant. A native of Bay City, Michigan, Kazmierski holds a BS degree in Chemical Engineering from the University of Cincinnati, and pursued MBA studies at Louisiana State University. He has published a paper entitled "The Value of Market Research" with the Marketing Science Institute, and is a past member of the American Institute Chemical Engineers (AIChE), the American Marketing Assoc. AMA, and the Marketing Research Assoc. (MRA).

Klein, John

A veteran of the plastics industry, John Klein has over 15 years of experience as an Application Development Engineer. With a bachelor's degree in Mechanical Engineering from Kettering University, his extensive experience in material formulation, processing, testing, and application development has helped grow applications in both the automotive and commercial furniture industries. Klein's work has encompassed structural interior parts, fuel systems and components for electric vehicles in the automotive segment, and seating and furniture systems for major furniture OEMs.

Knakal, Charles (Chuck)

Chuck Knakal is a Project Engineer at the United States Council for Automotive Research LLC (USCAR), the collaborative automotive technology company of Chrysler Group LLC, Ford Motor Co., and General Motors Co. He joined USCAR in April 2007 with 37 years of automotive experience at General Motors, from which he retired in 2006. While at GM, Knakal was directly involved with the development and execution of a global manufacturing requirements system. Prior to that, he had extensive composites design and testing responsibilities along with CO2-laser processing applications. At USCAR, Knakal has completed several assignments, including designing and implementing a materials property/report database; the fabric SMC Underbody project; and developing a chopped carbon fiber / SMC (CF-SMC) material system. The CF SMC project led to a patent processing application. Knakal holds a bachelor's degree in Mechanical Engineering from Kettering University (formerly General Motors Institute (GMI)) and a master's degree in Engineering Management from Rensselaer Polytechnic Institute.

Kulkarni, Amit

No information available at press time.

Kurcz, Marcia (Marcie)

Marcie Kurcz is a 25+ year veteran of the automotive-plastics industry. Her career experience includes sales, marketing, and industry management for GE Plastics; Interior Market Development Manager for Solvay; and Market Development Manager for Quadrant Plastics Composites. She is presently the North American Business Manager for Polyscope Polymers B.V., a Netherlands-based manufacturer of styrene maleic anhydride. She holds two degrees: a BS in Agricultural Economics from Michigan State University and a Master's degree in Finance from Walsh College.

**Lambi, Marios**

Marios Lambi is Manager of the Application Development and Computer Aided Engineering Groups at BASF's Engineering Plastics. He received his PhD degree in mechanical engineering from West Virginia University. After graduation, he worked for the Advanced Structures group of Learjet Inc. in Kansas investigating the integrity of airplane frame structures. He also worked for the Engineered Plastics Division of Johnson Controls Inc. in the design of plastic automotive components as well as automotive seating applications. He has been with Honeywell Plastics and most recently BASF since 1996, where, he specializes in the development of automotive and industrial applications utilizing engineering plastic materials.

Lashmore, David S.

Dr. David S. Lashmore is one of 3 founders of Nanocomp Technologies Inc., a 2004 spin-off from Synergy Innovation, Inc., a Lebanon, New Hampshire-based technology-development company. In his work there as Vice-President and Chief Technology Officer, he is involved in the basic issues of nanotube growth, manufacturing development, and property measurements. He is also instrumental in helping develop new applications for carbon nanotube (CNT) textiles, such as cables and conductors, ballistic armor, thermal interfaces, super insulators, heat straps, thermoelectric applications, and space-based CNT composites. Prior to joining Nanocomp Technologies, Lashmore was a Senior Scientist at Synergy Innovation from 2002 to 2004, and before that he was a co-founder and Vice-President of R&D at Materials Innovation Inc. from 1994 to 2002. Lashmore also worked as Group Leader-Metallurgy Division at the National Institute of Standards and Technology (NIST) from 1977 to 1993. With over 100 total and 11 non-archival publications to his credit, and named on 35 issued patents and 22 patent applications, Lashmore also is the recipient of numerous awards and industry recognitions. He has been honored with the U.S. Department of Commerce' Bronze Metal (1986), the Electrochemical Society's Electrodeposition Research Award (International, 1989), the Electrochemical Society's Blum Award (1992), a Research Award from the American Electroplaters and Surface Finishers International (1994), the Power Metallurgy Award for Advanced Soft Magnetic Materials (2000), Time magazine's Invention of the Year award for the compact powder metallurgy press (2000), the Wall Street Journal's Technology Innovation Award for CNT sheets (2008), and the National Aeronautics and Space Administration (NASA)'s Nano-50 2007 for CNT sheets (2008). He was also President of the Electrochemical Society's Electrodeposition Division from 1987 to 1989. Lashmore holds a BS degree in Engineering Science from the University of Florida, an MS degree in Physics from Michigan Technological University, and a PhD degree in Materials Science from the University of Virginia.

Mahdi, Syed

Syed Z. Mahdi is currently a Technical Leader in the Dow Automotive Adhesive business in Michigan. He received his master's degree in Polymer Chemistry from the University of Detroit and has developed numerous products for Dow Automotive Glass and Plastic Bonding. His over 15 years at Dow have been focused on urethane adhesive technology. He holds 13 patents and has filed 20 in his career with Dow.

Mazahir, Syed

Syed Mazahir is a doctoral candidate in the Chemical Engineering department at Virginia Tech University, Blacksburg, Virginia, and is currently working with Dr. Don Baird on injection molding of thermoplastic composites. Mazahir is the recipient of a fellowship from the Institute of Critical Technology and Applied Sciences for his PhD. He holds a master's degree in Mathematics of Finance from Columbia University and earned his undergraduate degree in Chemical Engineering at the India Institute of Technology in Delhi, India. Prior to joining the PhD program at Virginia Tech, he also worked as a Quantitative Analyst with an asset management firm in New York.

Meyer, Kevin

Kevin Meyer is originally from southwest Florida. He did his undergraduate studies at Florida State University where he received his BS degree in Chemical Engineering. He is currently a Chemical Engineering doctoral student working under Dr. Don Baird in the Polymer Processing Laboratory at Virginia Tech.

Miller, Scott

Scott Miller is a Plastics and Composite Additives Application Engineer for the Advanced Interface Markets at Dow Corning Corp. in Midland, Michigan. He has 18 years of silicon chemistry-related experience, performing various technical and leadership roles in Application Development, Engineering, and Manufacturing. He has been an Industry Specialist on the Plastics & Composites global team for the past 6 years and also a member of the Surface and Interface Solutions Center, a team dedicated to developing the interfacial science and application of silicon-based surface treatment and reinforcement chemistry. Miller holds a BS degree in Chemical Engineering from Michigan Technological University.

Mok, Steve

Steven Mok is the Thermal Management Segment Lead for DuPont. For the past 4 years, he has led a global team of DuPont application development experts working on solutions in thermal management systems, which includes heat-exchanger components such as charged air coolers, EGR coolers, control valves, as well as the engine-cooling components that come in contact with fluids. Previously, Mok spent 7 years in DuPont R&D with the Polymer Science Group where he helped to invent and develop PPA materials and other products that work in these hot, aggressive environments.

**Newill, Bob**

Bob Newill is a Market Development Specialist in transportation for Ticona Engineering Polymers, where he is focused on developing new high-performance polymer applications in automotive cooling, air management, and other underhood components. Newill joined Ticona with over 25 years of engineering resins experience and has held various business development and automotive application development positions with BASF, RTP, and DSM. He holds a BSME degree from Michigan Technological University, an MSIE degree from University of Nebraska, and an MS degree in Management from Walsh College.

O'Donovan, Terrence J. (Terry)

Mr. Terrence J. (Terry) O'Donovan has been Vice President – Marketing & Sales for Core Molding Technologies Inc. since January 2009. Core is a compounder of sheet-molding compound (SMC) and a molder of fiberglass-reinforced plastics (FRP). O'Donovan's primary responsibility is to continue to grow Core's business in both existing and new markets and to further develop and expand its marketing and sales organization. Prior to joining Core, he served as Vice President of Sales & Marketing for Q3 Industries, a manufacturer of engineered products for the commercial vehicle, automotive, and general industrial markets from 2006 to 2008, and prior to that, served as its Chief Operating Officer from 2003 to 2006. Before joining Q3, O'Donovan served in various management roles at Hawk Corporation, The Auld Company, and The Timken Company. He has a commercial vehicle and industrial background and has extensive experience in operations, sales, and marketing. He holds a bachelor's degree in Engineering from Carnegie Mellon University and a master's degree in Engineering from The University of Pittsburgh.

Parrott, Michael

Michael Parrott is a Project Engineer at e-Xstream engineering, working out of an office in Plymouth, Michigan. His previous work experience was at SGL Carbon GmbH and Munich Reinsurance. He holds a BS degree in Mechanical Engineering from Northwestern University and an MS degree in Materials Engineering from Catholic University of Louvain in Belgium. His thesis was Nanocomposites for the Aerospace Industry. He is a National Merit Scholar, he graduated Magna Cum Laude, was an Erasmus Mundus Scholar, and was valedictorian. He also has done research at Northwestern University, the University of Augsburg in Germany, and at the Catholic University of Louvain.

Potyra, Tobias

From 2000 to 2005, Tobias Potyra studied Material Science at the University of Bayreuth, Germany, where he focused on polymers and polymeric composites. After graduating, he joined the Fraunhofer Institute for Chemical Technology as a researcher and PhD candidate. His research field is thermoset polymers, with particular focus on sheet molding compound (SMC). His main work is material and process development, especially in the field of Direct SMC as well as conventional SMC. Since 2007, Potyra has been responsible for all SMC activities within Fraunhofer ICT. Also since that year, he has been a member of the steering committee of the European Alliance for SMC/BMC. At the 2008 ACCE, Potyra was awarded the SPE ACCE scholarship for his work on "New Direct Processing Technology for the Manufacturing of SMC Parts: Direct- SMC." Earlier this year, Potyra became Group Leader of the Canada Group at Fraunhofer ICT and will relocate to London, Ontario later this fall to coordinate the North American activities of Fraunhofer ICT.

Rehkopf, Jackie

Dr. Jackie Rehkopf is the Senior Researcher at Plasan Carbon Composites, working out of Tennessee at their facility at Oak Ridge National Laboratory and out of their new Customer Development Centre in Wixom, Michigan. She is a Civil Engineer with bachelor's and doctorate degrees from the University of Waterloo in Ontario, Canada. She has spent her career working in the field of mechanics of materials. Prior to joining Plasan, Rehkopf worked in research at Ford Motor Co. and as a consultant at Exponent, a failure-analysis consulting firm.

Richardson, Rani

Rani Richardson is a Composites Product Specialist at Dassault Systèmes where she brings technical expertise and extensive real-life composites design and manufacturing experience to her position there. In this role, she consults with customers, particularly in the aerospace and automotive industries, concentrating on North American implementation and demonstrations for the CATIA V5 and V6 Composites Solutions. Prior to joining Dassault Systèmes, Richardson worked for nearly a decade at Magestic Systems, a leader in nesting and laser projection solutions, where she was Director of Operations. She is an active member of SAMPE (Society for the Advancement of Material and Process Engineering), NCC (National Composite Center), COE (CATIA Operators Exchange), SAE (Society of Automotive Engineers), SME (Society of Manufacturing Engineers) and SPE (Society of Plastics Engineers). She is also a frequent presenter at various industry conferences on the subject of composites.

**Russell, Tom**

Tom Russell is a founding member of Composite Systems & Technologies as well as Allied Composite Technologies LLC. He has 35 years of experience with leading manufacturing enterprises, and has an extensive background in plastic materials and processes. For 15 of those years, Russell was employed by the Lear Corporation, one of the world's largest automotive suppliers. At Lear, he held the positions of Vice-President of Advanced Engineering - Interior Products Division, Vice-President of Interior and Electronic Advanced Products, Vice-President of Product Engineering for Electrical and Electronic Products, Director of Advanced Sales, Director of Six Sigma Deployment, Director of Consumer Research and Analysis, and Director of Research. Prior to joining Lear, Russell spent a decade at GE Plastics, where he held a variety of engineering and marketing management positions. He began his career at Ford Motor Company as a product engineer. Russell holds an MS degree in Mechanical Engineering from Caltech, an MBA degree from the University of Michigan, and a BS degree in Mechanical Engineering from Penn State University. Russell is a senior member of SPE and also belongs to SAE and ESD. A Registered Professional Engineer, Russell also holds a U.S. patent.

Salerno, James

James Salerno earned his BSME degree with an automotive focus from the Rochester Institute of Technology. Currently he works for Plasan Carbon Composites in Bennington, Vermont. His projects at Plasan have included engineering supervision of the Dodge Viper ACR part production, total implementation of CAD and simulation software, implementing comprehensive CAD training for engineering, research work relating to Plasan's high-capacity prepreg molding process, and advanced modeling and simulation capabilities.

Schaake, Richard

After studying Materials Technology, Richard Schaake started his career as a Tribologist at TNO in 1996. A project on structure-tribology relations between different polymers awoke his interest in polymers. Upon receiving his doctorate on the topic at the Technical University of Eindhoven, he joined the Engineering & Research Centre of SKF in 2006 where he has worked on a variety of polymer materials, moving from elastomers and thermoplastics to thermosetting composites. His current focus is on structure-performance relations of injection molded thermoplastic composites and high-performance composites for structural applications.

Schmidt, Thomas

Dr. Thomas Schmidt is currently the Global R&D Manager and New Business Development Manager at TIGER Coatings in Wels, Austria, a position he assumed in 2002. Before this, he served as the R&D Manager at TIGER Coatings in Toronto, Canada. Before joining Tiger, Schmidt was the Health, Safety and Environment Manager for adidas-Salomon in Guangzhou, China. He holds a doctorate degree in Nanotechnology and Materials Science from the University of Würzburg, Germany and worked as a scientist at the Fraunhofer Institute für Silicatforschung (ISC), also in Würzburg. He also did post-doctoral research at the University of Durham in the UK on thin-film photovoltaic solar cells.

Schutte, Marcel

Marcel Schutte is the New Business Development Manager at DSM Coating Resins. An expert in powder-coating resins, he started by studying Analytical Chemistry in Deventer (The Netherlands) and has worked for 29 years in several roles in R&D and Marketing of this technology. His focus has been fast-curing systems for heat-sensitive substrates like plastics. With regard to the topic of his presentation, he is leading the Powder in-Mould Coating Project, which is a joint program within DSM between DSM Powder Coating Resins and DSM Composites.

Schweitzer, John

Since 1989, John Schweitzer has managed regulatory and legislative affairs for the composites industry at the American Composites Manufacturers Association. Major programs managed during this period include the EPA MACT standard for composite manufacturing, adoption of the voluntary styrene worker exposure limit, promulgation of the UEF emission factor program, and development of styrene hazard assessment and risk communications. From 1979 to 1989, John managed R&D and manufacturing operations for plastic manufacturing companies.

Sherman, Robert (Bob)

Robert (Bob) Sherman lives in Dakota, Minnesota with his wife of 35 years, Mary. He joined RPT Co. in September of 1999 to start the company's new CAE Analysis capability to support customers with design assistance utilizing Moldflow analysis. Before RTP, Sherman spent 6 years as a dynamic and structural analyst at Bell Helicopter Textron in Ft. Worth, Texas; 9 years as a structural analyst with McDonnell Douglas Astronautics Co. (now Boeing) in St. Louis, Missouri; 5 years with Moldflow Pty, Ltd. in Kalamazoo, Michigan as a Customer Support Manager for North America; and 5 years with Bluegrass Plastics Engineering's office in Kalamazoo as a Consulting Engineer in molding and structural analysis of injection molding. A Purdue University graduate with a BS degree in Aeronautical & Astronautical Engineering, Sherman is a co-author (with John Beaumont & Bob Nagel) of the book, *Successful Injection Molding* published by Hanser Publications, and has authored numerous papers and presentations on molding analysis, especially as it relates to fiber orientation and structural properties.



Sinthon, Patrice

Patrice Sinthon joined JEC Group, the worldwide composites industry association, in March 2004. During the last 8 years, he has been in contact with all the stakeholders of the composites value chain around the world, developing a complete understanding of composites application sectors such as aerospace, automotive, construction and more. In addition, for 6 years Sinthon has organized all JEC conferences and forums globally and has appeared as a speaker in many industry events. He initially joined JEC to manage Marketing and Communication and has contributed to the development of JEC offerings to composites professionals such as the creation of high value-added services for customers that brought JEC geographical growth. In 2008, he also took over the Sales Department and has since successfully continued the JEC Asia show in Singapore and has been instrumental in launching the new JEC Americas show that will be held in Boston, Massachusetts in 2012. Sinthon is fluent in English, French, and Italian and graduated from one of the Top 10 French business schools with a degree in Business and International Marketing. His 18 years of experience in multinational companies have provided him with expertise in the 3 fields that characterize JEC activities: press editing, education (for multinational companies), and event organization.

Snider, Duane

Duane Snider is the Advanced Robotic Application Business Manager at Flow International, where he has been employed for 25 years and involved in the implementation and refinement of hundreds of multiple 6-axis waterjets and abrasive waterjets worldwide in various industries. He holds the design patent for Flows' "Flying Bridge" cutting machine, which is the the company's largest selling CNC (2-Dimensional) X-Y waterjet machine. He is a member of the Society of Aerospace Engineers, the Society of Manufacturing Engineers, and the WJTA (Waterjet Technology Association). His education background is in Manufacturing Engineering and Sales & Marketing.

Thattaiarthasarthi, Krishan Balaji (K.B.)

Dr. Krishan Balaji is a Research Associate at the University of Alabama at Birmingham (UAB) Materials Processing and Applications Development (MPAD) Center for Composites. He received his PhD from UAB in 2008 and has a broad range of expertise in the design, processing, and manufacture of advanced thermoset and thermoplastic composites. He is involved with several projects dealing with processing, testing, and characterization of advanced composites for transportation, defense, and commercial applications.

Trexler, Tom

Tom Trexler is General Manager for Signature Control Engineering, LLC in Denver, Colorado, leading the company's worldwide sales and marketing efforts. Prior to this, he worked for Ashland, Inc. and Signature Control Systems, Inc. utilizing the SmartTrac technology to improve composite processing. Trexler has also worked as Managing Director for Centurion Wireless Technologies, been Vice-President of Sales and Marketing for Xertex Technologies, and Director of Sales and Marketing for Larsen Technologies. All told, he has 25 years of sales and management experience with companies such as General Electric, Cooper Industries, and Schlumberger. Trexler holds a BS degree in Industrial Engineering from the University of Cincinnati and an MBA from the University of Washington.

Vaidya, Uday

Dr. Uday Vaidya is a Professor and Director of the Materials Processing and Applications Development (MPAD) Center for Composites at the University of Alabama at Birmingham (UAB). The UAB MPAD Center works closely with industry for applications-development support and composites R&D leading to commercialization. Vaidya has 23 years of experience in the design, analysis, application development, and processing of composite materials. He also has published a comprehensive book on Composites for Automotive, Mass Transit and Transportation.

Voss, Mark

Mark Voss is the Lead Design Engineer for Composites at GM. He has held a variety of automotive engineering positions since his graduation. In his current role, he is responsible for the engineering execution of all carbon fiber, SMC, and other advanced composites at the automaker. He has successfully led teams responsible for all of the carbon fiber panels implemented at GM, starting with the 2004 Anniversary Edition Corvette Z06 hood, the first OEM original equipment carbon fiber painted exterior panel. He also led the 2006 Corvette Z06 fender and 2009 Corvette ZR1 carbon fiber panel development and execution, and he is GM's carbon fiber application technology leader. Voss has received numerous patents related to the execution of carbon fiber and composite technologies, including a 2008 SPE Automotive Innovation Award for the ZR1 hood, and the 2009 Boss Kettering Award from GM, the highest technical honor bestowed by the company. He received his BSME from the University of Michigan in 1994 and an MSME from Purdue University in 2004.



Warren, C. David (Dave)

Since 2008, C. David (Dave) Warren has been the Program Manager, Transportation Materials and Carbon Fiber in the Materials Science & Technology Division of Oak Ridge National Laboratory (ORNL, Knoxville, Tennessee) where he manages the U.S. Department of Energy's (DOE's) program to develop advanced materials technologies for DOE's Vehicle Technologies Program. Previously, he was Program Manager-Transportation Composite Materials at ORNL where he managed DOE programs for the FreedomCAR, Partnership for Next Generation Vehicle (PNGV), and High Strength Weight Reduction Materials Programs. Before that he held positions as Program Manager-Automotive Composite Materials, Project Manager/Principal Scientific Investigator, and R&D Associate at ORNL. From 1988-1991, Warren served as a Lieutenant and then Captain of the U.S. Air Force at Norton Air Force Base, where he managed propulsion stages and re-entry systems for the Peacekeeper ICBM. He holds both an MS degree in Materials Science & Engineering and a BS degree in Mechanical & Materials Engineering from Vanderbilt University. He is a member of the Air Force Association, the American Society of Metals, the American Society of Mechanical Engineers, the Society of Aerospace Engineers, the Society of Automotive Engineers, the Metallurgical Society, and the Society for the Advancement of Materials and Process Engineering

Zhong, W.H. Katie

W.H. Katie Zhong, Ph.D., is a Professor in the School of Mechanical and Materials Engineering at Washington State University (WSU). Zhong started her academic career in 1994 in the Composites and Manufacturing Program of the Department of Materials Science and Engineering at Beijing University of Aeronautics and Astronautics (BUAA) in Beijing, China, where she received her doctorate. In 1999, she was promoted to full professor, becoming the youngest full professor at BUAA, and one of the youngest full professors in China. She has worked closely with the aero industries, and since 2006 she has been consultant and educator for Boeing engineers in the field of nanotechnology. She has conducted many research projects on nanocomposites, bio-nanomaterials, electronic materials, and nano-manufacturing technology. Zhong has more than 200 publications, including over 130 peer-reviewed journal papers, 1 book, 4 book chapters, and 70 conference papers.