



Event Dates: February 3 - 5, 2015
 Event Venue : Parker Palm Springs

- Feb. 3: Introduction to ThermoSet Class & Exhibitor Set Up
- Feb. 4: Conference, Leadership Panel Discussion, Exhibits and Networking Reception
- Feb. 5: Conference, Design Panel Discussion & Exhibits

Tuesday, February 3, 2015 - Exhibitor Set Up, Preliminary Conference Activities

- 9:30 AM Thermosets Board of Directors Meeting - Norma's Patio
- 12:30 PM - **Advanced ThermoSet Processing Techniques - 4 hours.**
 - **THE BRIG** *This instructional builds from previous classes. Students MUST pre-register for the class. It is separate from the conference.*
- 2 PM - 8 PM - Exhibitor Set Up - Ballroom Foyer & Ballroom Lawn
- 5:00 PM - Firepit Reception - Chips & Salsa complimentary of SPE ThermoSet Division. Cash Bar

Wednesday, February 4, 2015 - Conference, Panel Discussion, Exhibits & Networking Reception

- 8:00 AM REGISTRATION OPENS - Ballroom Foyer
- 8:00 AM BREAKFAST - Palm Court - outdoor lawn
- 9:00 AM OPENING COMMENTS - Marc Imbrogno, ThermoSet Division Chair - *Ballroom*
- Society of Plastics Engineers - Society Update - Wim DeVos, CEO, SPE
- 9:15 - 9:45 AM Advances in Low Density SMC for Automotive Class A Applications
 Jeff Klipstein, *Closed Mold Technical Service Specialist, AOC*

Wednesday, continued

BIO. Jeff Klipstein has been at AOC in Valparaiso, Indiana since 2002. He is a Closed Mold Technical Service Specialist. Jeff has over 26 years of experience in the Thermoset Industry. He has a BA degree in Chemistry from the University of Akron.

OVERVIEW. Today the automotive market is pursuing lighter weight materials to reduce the overall weight of the vehicle. This is mainly due to the ever increasing demand to improve gas mileage. Past advances have shown that a lower density Sheet Molding Compound (SMC) based on fiberglass and unsaturated polyester technology can be manufactured with sufficient mechanical properties and weight reduction; but this this has been limited to structural or non-Class A applications. However, recent advancements have shown that a Class A surface with acceptable mechanical properties can be achieved in a 1.2 specific-gravity, low-density SMC system, based on fiberglass and unsaturated polyester technology. This paper will compare past advancements with recent improvements in lower density Class A SMC systems, along with an insight into future work that is currently in progress.

9:45 - 10:15 **Thermoset Injection Molding; Technology & Know-How for Integrated Solutions**
Juergen Gieosow, PhD, Sales & Engineering Manager, Arburg, Inc

BIO. Juergen Gieosow, PhD started in 1983 as an apprentice at a Packaging company to become a Certified Process Technician. After the 3 year program he stayed with the company and became a shift leader. In 1989 he went back to University for Plastic Engineering in Troisdorf Germany. After finishing this program Juergen joined ARBURG at the head Quarter facility in Germany to become a trainer. As part of that he went through an elaborate

training program and spent some time in every department of the company for a total of 16 month. After years in the training department at ARBURG he started to travel to the US in 1996 to set up an Application Engineering department. In 1998 he moved to the US and became an ARBURG US employee. In 2002 Juergen moved to CA to become the Area Sales and Technical Manager for ARBURG for the West Coast.

OVERVIEW. Some twenty years after the expectation that engineering thermoplastic would shrink the roll of thermoset materials, the thermoset sector is thriving. Thermosets have a wide range of applications thanks to their special characteristics. Today thermoset parts are typically used in applications requiring extreme functionality. To process thermosets efficiently and economically there has been a trend toward the utilization of integrated robots and even full turnkey systems - inclusive of six-axis robotics and other automation components.

10:15 - 10:45 **BREAK - EXHIBITS OPEN - Sponsored by Mar-Bal, Inc.**

10:45 - 11:30 **THE STATE OF THE COMPOSITES MARKET - KEYNOTE**



Tom Dobbins, President, American Composite Manufacturer Association

BIO. Tom Dobbins has been the President for the American Composites Manufacturers Association (ACMA) since 2006. In this capacity he has worked with ACMA members and staff to launch the new CAMX trade show in partnership with SAMPE,

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ACMA's new Education Hub, and new websites for members and for Composites Manufacturing magazine, with a third to promote composites and member companies in development. During his tenure, ACMA's Composites Growth Initiative program has launched new committees and new programs and its government affairs program has been effective in working with federal agencies and Congress on key issues for the industry.

Most recently, ACMA has been working closely with the Department of Energy and stakeholder groups to launch the new Manufacturing Innovation Institute for Advanced Composites, which will invest over \$250 million in R&D in the industry over a 5 year period. ACMA is also representing its members on two key industry roadmaps, which are strategies to grow the composites industry.

Prior to joining ACMA, Mr. Dobbins served in the Executive and Legislative branches of the U.S. government, as well as in two other associations. He has also worked in the private sector doing government relations and public relations.

11:30 - 12:00 Prepreg Compression Molding for High Volume Manufacturing of Lightweight Epoxy Automotive Structures
Stephen Greydanus, Momentive Specialty Chemicals, Inc.

BIO. Stephen Greydanus is a Senior Application Development Engineer for Momentive Specialty Chemicals. He is an Industrial Designer with extensive experience in the design and manufacture of lightweight composite structures and interior components. In his current role, he oversees Momentive's development activities at the Fraunhofer Project Centre for Composites Research in London

Ontario, Canada. Greydanus joined Momentive in 2013 after 18 years working in a variety of roles including R&D leader for composites and engineering leader for interiors at European-based aircraft manufacturer, Diamond Aircraft Industries. He has managed activities ranging from design and development to tooling and assembly systems for several all-composite production aircraft with particular focus on out-of-autoclave composite processing.

OVERVIEW. Strategies for reducing the weight of modern car bodies involve greater use of composite materials. New manufacturing technologies in combination with new material solutions are providing high-performing, high volume capable and cost efficient solutions that were previously unavailable.

12:00 - 1:15 LUNCH - Sponsored by Citadel Plastics, Inc.
Palm Court (Lawn, outdoors, weather permitting)

1:15 - 1:45 UV Stable Pigmented Sheet Molding Compound (SMC) for High Temperature, Highly Cosmetic Exterior Body Applications
Joe Keeler, Ashley Industrial Molding

BIO. Joe Graduated from The University of Toledo with a Bachelor of Science in Mechanical Engineering. He has spent over 15 years in the SMC industry having worked for the 3 largest SMC molding companies. He started with the Budd Company where he launched the Corvette convertible panels as a Product Engineer, later he became a Quality Engineer and then Product Engineering Manager supporting new product launches and daily production of molding, assembly and paint.

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To enhance his career he went to work for GenCorp automotive as a Project Engineer responsible for quoting new products. Joe briefly served as the Program Manager for the Electric Vehicle SMC panels and supported the launch of several key new programs. After this Joe moved back in to manufacturing as a Business Unit Manager in charge of the day to day molding and assembly of the Camaro and Firebird SMC panels. Late in the mid 1990's, with the downturn in the SMC industry, Joe stayed in plastics molding but switched to thermoplastics. His original position was Project Engineering Manager for highly engineered engine deactivators, insert molded transmission housings and window lift motor housings; later becoming the Business Unit Manager for insert molding. After 12 years in thermoplastics Joe switched back in to the thermoset industry, now working for Ashley Industrial Molding in Sales serving a dual role as Business Unit Manager and Advanced Sales Engineer.

OVERVIEW. Through collaboration with IDI composites international, Ashley Industrial Molding (AIM) has introduced a custom compounded E-205 SMC material to its line of compression molded materials. E-205 is a high temperature, cosmetic, black pigmented, polyester sheet molding compound (SMC); tailored to meet the demanding requirements of a plastic styling enclosure for a large 8000 series John Deere exhaust after treatment system. The high temperatures associated with the exhaust after treatment system and the temperature limitations of polyester SMC materials, drove a very thorough development of the custom compounded E-205 material.

1:45 - 2:15 **Evalith™ Honeycombs - A New Generation of Honeycomb based on Polyester Spunbond for Thermoset Applications**
Julia Moegel & Dr. Klaus Gleich, Johns Manville

BIO. Julia Moegel is Business Development Manager, Nonwovens Europe at Johns Manville. She works in that position since 2011. Based in Bobingen, Germany, she focuses on a global approach for new opportunities for nonwovens in composites. Within this approach she evaluated new material combinations and processes for enhanced sandwich panels with Johns Manville nonwovens. She gained a lot of experience within the last 20 years in new business development in high performance textile applications with global textile industry suppliers.

In her previous responsibilities she worked for Invista and DuPont de Nemours as international Sales Manager in Europe and Business Development Manager for polyamide carpet fibers in Östringen, Germany. Julia developed new processes for carpet fibers and their use in carpets and established new carpet styles together with European and global customers. At Johns Manville she evaluates market opportunities and develops new processes and products in and with polyester spunbond and glass nonwovens. Together with new business contacts she evaluates the value proposition.

Julia Moegel received her university degree in textile engineering at the University of Reutlingen, and a master of business administration at the Export Academy Baden Württemberg in 1997.

BIO. Dr. Klaus Gleich is Senior Research Associate, Corporate R&D at Johns Manville. Since September he works out of the Wertheim facility. Prior to that he worked at the Technical Center of Johns Manville, Littleton, CO where he has managed the Sizing Technology Group. He has more than 20 years of experience in advanced materials development and processing and is well known for his expertise in thermoplastic composites. Over the years, he held key positions in the material, process and application development as well as in production of composites parts.

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He was responsible at the Royal Dutch Shell Group (later Fibron Technology) for the development and production of LFT-materials and for the processing of these materials to automotive parts as well as for development of RTM and RIM-parts. Later he joined Kannegiesser-KMH as managing director. After moving to the US, Klaus Gleich was in charge for the Polymer Composite Group at Southern Research Institute. At Johns Manville, he is involved in application development with customers as well as in the development of new products.

Dr. Klaus Gleich received his university degree in chemistry at the University of Konstanz and in economics at the Fernuniversity of Hagen. He received his doctorate degree in Chemistry at the University of Konstanz in 1990. Klaus Gleich serves the board of the Composites Division of SPE.

OVERVIEW: Honeycombs are well known especially in aircraft applications for decades for use in structural components. Lightweight composites gain more and more interest in transportation, marine and building applications. A new generation of honeycombs with a better cost / performance ratio is required to fulfill the fitness for use.

Johns Manville developed together with a partner a new type of honeycomb based on polyester Spunbond. This type of honeycomb offers superior processability and excellent adhesion to a variety of resin systems and foams due to their porous structure. An ultra-high strength sandwich panel can be achieved by infusion of the porous honeycomb wall structure with various resin systems in a one or two step process.

The presentation will focus on the Spunbond process and the specifics of the honeycomb impregnated with thermoset resin sys-

tems. It will highlight potential thermoset applications and their value proposition.

2:15 - 3:15 **Panel Discussion: Leveraging Design to Drive Successful Product Development**
Moderated by: Robert Grace, Founder and Longtime Editor of Plastics News

Panelists: Scott Clear, RKS Designs,
Robson Splane, President, CEO & Owner, Splane Design Associates, Inc.
David Saltman, Chairman & CEO, Malama Composites, Inc.

BIOS - Media executive **Robert Grace** has been in business-to-business communications his entire career. He has broad global experience and for nearly 35 years has worked as a journalist, editor-in-chief and key connector of like-minded parties. He has launched successful publications and C-level events on three continents. While with Crain Communications Inc., he oversaw the relaunch of the 100-year-old European Rubber Journal in London and helped to start Urethanes Technology magazine there. In 1989 he returned to Akron, Ohio, to serve as founding editor of Plastics News, an award-winning weekly business newspaper. In 2005 he oversaw the editorial launch of the bilingual PN China e-newsletter and website. For more than a decade at PN he also held the titles of associate publisher, editorial director and conference director, and most recently served as business development director. In 2014 he left Crain and created RC Grace LLC (www.rcgrace.com) as a consultancy that aims to help companies to enhance their branding and market presence, find business partners, connect with design

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resources (here or in Asia), secure funding and advance their growth initiatives.

Scott Clear is Chief Design & Innovation Officer at RKS Design (www.rksdesign.com) in Thousand Oaks, Calif. He brings a new dimension to the world of industrial design with his competencies, experiences, training and knowledge that combine to represent a highly desired missing link in the "Business of Design." He has an impressive skill set – a world-class industrial designer with expertise in business strategy, marketing, branding, material sciences and product development processes. This combination results in signature solutions and industry firsts that unlock areas of design opportunities and intellectual properties, which in turn often open doors to new acquisitions, management growth and, of course, bottom-line profits. As an industry thought leader and champion of brand and design innovation, Scott is an articulate lecturer and correspondent on the topics of using design and creative processes to engage new design strategies. He focuses on thinking beyond the constraints of existing processes to envision and implement progressive solutions., Philadelphia, PA, as well as an MBA from INSEAD in Fontainebleau, France.

Robson Splane has spent 30+ years as an Industrial Design Consultant. Education: BA, MA, MA, MFA (equiv. PhD.) Former professor @ CSUN, CSULB and UCLA. Former Co-chair IDSA-LA Education Committee. Founder of: Splane Design Associates, Inc. Dream Projects, Care-a-peutics, co-owner of Miriam J Fashions. Graduated from California State University - Long Beach - College of Business Administration. Specialties: Design and development of Medical, Rehab. Fitness and other products requiring expertise in anthropometrics, human factors and ergonomics.

David P. Saltman is Chairman and CEO. He has been an advocate of cleantech innovation and a pioneer in sustainable business development for two decades. Saltman was CTO of Flexform Technologies, the first bio-composites company in North America. These materials enabled engineers at Ford, GM, and Chrysler to produce automotive interiors that were stronger, lighter, safer and far easier to recycle than glass reinforced plastics. He was Chairman/CEO of Open Energy Corporation, manufacturers of photovoltaic roofing tiles and solar glass products. He served on the Presidential Task Force that developed green procurement guidelines for the federal government. He has spoken at numerous cleantech and investment conferences, and received awards from the American Marketing Association and the National Recycling Coalition. He was a founding board member of CleanTECH San Diego, Executive Director of Surfrider Foundation and member of California League of Conservation Voters.

3:15 - 3:45 **BREAK - EXHIBITS OPEN - Sponsored by Mar-Bal, Inc.**

3:45 - 4:45 **EMERGING GLOBAL FOOTPRINT. PANEL DISCUSSION - FOLLOWED BY Q&A**
Steven Balogh, Vice President, Mar-Bal, Inc.
Alan Gardiner, COO, Jushi USA and President, Jushi Canada
Len Nunnery, Executive Vice President, Citadel Plastics Engineered Composites Division

LEADERSHIP BIOS:

Alan Gardiner Alan Gardiner is the COO of Jushi USA, and President of Jushi Canada. In 2011 Jushi Group acquired Gibson

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USA. The new company, renamed Jushi USA, became a wholly owned subsidiary of Jushi, and joined the global network of other Jushi subsidiaries. Since then, Gardiner has been managing Jushi's North American distribution in the U.S. and Canada, providing world class products and services to the growing reinforced composites market.

Jushi Group, headquartered in the Tongxiang Economic Development Zone, Zhejiang, China, is one of the world's largest producers of fiberglass reinforcements. With three China based production facilities in Tongxiang, Jiujiang, and Chengdu, and one in Egypt, Jushi has total assets of over \$1.3 billion USD and 8,000 employees, is ISO 9001 certified, and produces over 1,000,000 metric tons of fiberglass per year. Their expansion plan includes adding an additional 500,000 metric tons of melt capacity by 2015. Jushi USA, headquartered in Irwindale, California, is a leading supplier of fiberglass reinforcements and fabrics to the reinforced plastics industry in the US. With distribution Centers in Elkhart, Indiana, Columbia, South Carolina and Irwindale, California, Jushi USA is able to supply reinforcements to all regions of the US. The company supplies reinforcements to a wide variety of industries including Marine, Construction, Infrastructure, Transportation, and alternative Energy.

Steven Balogh has responsibility for procurement and Asia Operations. Until recently, with the addition of a Director of Materials Engineering, he was responsible for Mar-Bal's state of the art Research and Development Center and has led the pioneering efforts to introduce innovative Thermoset plastic materials which have resulted in higher quality and lower costs for Mar-Bal's customers.

Since he started with Mar-Bal, Inc. in 1993, his focus on the development of new materials and production techniques for Mar-Bal's Bulk Molding Compounds (BMC) has enabled the company to support a compound sales growth rate of over 10 percent. Over the last ten years, he has developed a supply base in China for several raw materials and purchased components as well as a toll manufacturer and licensee for Mar-Bal's proprietary products. In 2012 he launched a sales office in Shanghai, China and is currently launching manufacturing operation in China.

Steven graduated from the Berklee College of Music in Boston with a degree in Music Production and Engineering. His wife, Diana, and their children live in Novelty, Ohio. Steven enjoys music and fishing, and likes to spend as much of his spare time as possible with his family and traveling.

Len Nunnery is a well known voice, leader and brand within the thermoset composites industry and is Executive Vice President, Key Global Accounts at Citadel Plastics' Engineered Composites Division. He is a graduate of Boston College. Len began his career with Bulk Molding Compound, Incorporated's (BMCI) as a production shift supervisor overseeing the original BMCI manufacturing plant in Saint Charles, Illinois. (BMCI was later purchased by/is known today as Citadel Plastics). Today, Citadel Plastics has 21 production facilities on four continents and is the largest manufacturer of thermoset polyester/glass molding composites in the world. Len's career at the company includes operations, research and development, from design and new material testing and processing techniques, sales, Global Director of Quality and various commercial roles that include VP Global Sales and Marketing. Len is a Six Sigma Black Belt, holds a patent for a gas assist molding technique used to core thermoset parts, and is a published technical author and speaker. He is a specialist in organic growth and brand development.

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Len enjoys international and adventure travel with his wife, Shelane, and two sons. He also spends as much time as possible in the outdoors hiking, camping and riding horseback.

OVERVIEW. Three leaders of the thermoset composites industry discuss expansion into global markets - the path, the success, 'risk vs. reward', markets, segments, future opportunities, etc.. North American panel members will review current and emerging Asian markets, Latin American markets, and will gain a unique perspective from Jushi, a Chinese company investing in the U.S. to meet their current customer and market demands.

**5:00 - 7:00 PM HOSTED RECEPTION AMONG EXHIBITS,
BALLROOM FOYER & BALLROOM LAWN**

Thursday, February 5, 2015 - Conference & Exhibits

8:00 AM REGISTRATION OPENS

8:00 - 9:00 BREAKFAST - Grand Ballroom Foyer, *Ground Level*

**9:00 - 9:30 Thermal Analysis of Thermosets
Noah Menard, Veritas Testing**

BIO. Noah Menard received his BS from the University of Texas at Dallas. He has over a decade experience in thermal analysis including work at the University of North Texas, Colorado School of Mines, Southern Methodist University, Xavier University, and an internship with PerkinElmer. In 2013, he was one of the three cofounders of Veritas Testing and Consulting, which specializes in thermal analysis testing and materials consulting. He is currently the lab manager there and oversees the testing part of the company.

OVERVIEW. Thermal analysis remains one of the most powerful tools in the characterization of thermosets. Capable of both characterization the curing process of a thermoset and its final properties, thermal techniques have long been used in the industry. This talk will review the standard methods including DSC, TMA, and DMA as well as look at the application of newer techniques like modulated temperature and fast scanning rate DSC, hyphenated TGA, dilatometry, and humidity and immersion studies in the DMA. Examples of combining IR and DSC will also be discussed.

**9:30 - 10:00 Process Characterization of Bio-Filler SMC
Paula Watt, Citadel Plastics, Inc.**

BIO. unavailable at time of printing.

OVERVIEW. Recent advances in treatment of biomass has led to the development of a low density filler which is significantly less hydrophilic and does not inhibit cure of thermoset systems. These fillers have been incorporated into SMC formulas, resulting in a weight reduction of 25% for molded components. It is important to

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understand any molding process adjustments which may be necessary with these bio-filler compounds relative to CaCO₃ filled systems, which they would displace. Squeeze flow rheometry and dielectric cure analysis are useful tools for characterizing the process behavior of compression molded SMC. These methods will be used to compare closing stress, viscosity, relaxation time, gel time and cure time of bio-filled and CaCO₃ filled SMCs. Mechanical properties of these systems are also compared..

10:00 - 10:30 ACASA: Why Composites Will Transform the Building Industry
David Saltman, Chairman & CEO, Malama Composites, Inc.

BIO. David P. Saltman is Chairman and CEO of Malama Composites, Inc. He has been an advocate of cleantech innovation and a pioneer in sustainable business development for two decades. Saltman was CTO of Flexform Technologies, the first bio-composites company in North America. These materials enabled engineers at Ford, GM, and Chrysler to produce automotive interiors that were stronger, lighter, safer and far easier to recycle than glass reinforced plastics. He was Chairman/CEO of Open Energy Corporation, manufacturers of photovoltaic roofing tiles and solar glass products. He served on the Presidential Task Force that developed green procurement guidelines for the federal government. He has spoken at numerous cleantech and investment conferences, and received awards from the American Marketing Association and the National Recycling Coalition. He was a founding board member of CleanTECH San Diego, Executive Director of Surfrider Foundation and member of California League of Conservation Voters.

OVERVIEW. One billion people live in shelters of their own making, without access to dependable power, safe drinking water or access to the internet. Even the most privileged of us own homes that are energy inefficient and unable to withstand fires, floods or hurricanes. The pressures of population growth and the impacts of global climate change will only exacerbate this situation. It is high time that our homes match the intelligence of our phones. The advent of new composite materials will forever transform the way we build homes and measure their performance. By combining bio-composite foams with light gauge steel framing and geo-composite coatings, we will create stronger, healthier far more energy efficient structures capable of meeting the demands of 21st century development. That is ACASA

10:30 - 11:00 BREAK - EXHIBITS OPEN - Sponsored by Mar-Bal, Inc.

11:00 - 11:30 Intumescent Passive Fire Protection in Composites
Daniel R. Frechette, Technical Fiber Products, Inc.

BIO. 17 years in sales, product development, with a focus on the development of fire protection non-woven materials. A total of 40+ years' experience in fibers, textiles, composites with a strong focus on new product development. B.S. Industrial Technology, Northeastern University, Boston, Massachusetts 1976.

OVERVIEW. Intumescent Mats manufactured using a unique wet laid non-woven process has successfully been utilized in construction, infrastructure, transportation and military for passive fire protection applications. These applications required that the intumescent mat to be processed and incorporated into a composite system which then needs to pass prescriptive fire testing

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protocols. This presentation will discuss both the intumescent and composite manufacturing process, fire testing systems and end applications. In addition, the incorporation of scrim technology and it's synergy with intumescent mats will be discussed in relation to increasing insulation efficiency of the intumescent char as demonstrated through UL1709 fire test data. Additional testing data focusing on ASTM E-84 and ASTM E-136 will also be discussed. The importance of controlling edge effects during a fire testing protocol will be addressed.

11:30 -12:00 UL 1446 and Thermosets for Electric Motors and Transformers
Kevin Henson, Product Manager, Standoff Insulators, Mar-Bal Inc.

BIO - Kevin Henson serves as the Product Manager of Standoff Insulators for Mar-Bal, Inc. and has been a member of the Mar-Bal Sales & Marketing team since 2012. He has 35 years of experience in engineering, sales and marketing leadership positions in the electrical apparatus industries. His specialty is providing engineering and technical expertise to companies such as Baldor Electric, General Electric, Schneider Electric and other market leaders in the OEM and aftermarket segments of the industry. His areas of expertise include electrical insulation materials and systems, electric motor manufacturing and repair processes and electric motor mechanical and electrical testing. Mr. Henson has held sales management positions with EIS, Inc., Superior Essex and others. Kevin has a B.A. - Business Administration from Queens University in Charlotte NC. He now lives in Greer, SC with his wife Jean.

OVERVIEW:UL 1446 is the standard for Electrical Insulation Systems for low voltage electric motor and transformer products. Thermoset materials are vital elements of those insulation systems. UL 1446 lays out the test requirements of those materials as well as the methodology to ensure compatibility of those products in the insulation system. UL 1446 provides the added assurance that the end product is as safe as possible for the end user.

12:00 CLOSING COMMENTS

POST- CONFERENCE OPTIONAL ACTIVITIES - MUST REGISTER IN ADVANCE.

12:30 PM SPE Golf Outing

Must reserve in advance. Space is limited Group rate available.
Call 630.247.6733 or email amy@gvineme.com. Shotgun start.

- OR -

12:30 PM San Gorgonio Wind Farm Tour

Must reserve in advance. Space is limited Group rate available.
Call 630.247.6733 or email amy@gvineme.com

Depart by bus from the hotel to get a first hand look at the 2,700 wind turbines in San Gorgonio Wind Park, the oldest wind farm in the United States. Tour includes a look at previous turbine designs and why they failed.