CAMX 2016 was held September 26-29, 2016 in Anaheim, CA and proved to be the biggest and best attended North America composites event covering the advanced composites and FRP composites industries under one roof. In its third year, CAMX grew in size with 10% more attendees and more exhibit space, establishing itself as the largest global composites and advanced materials event in North America. Over 1,000 new attendees made CAMX 2016 their first CAMX.

CAMX – The Composites and Advanced Materials Expo – is the one source for connecting and advancing all aspects of the world’s Composites and Advanced Materials communities: R&D, engineering, manufacturing, service providers and end-users. Regardless of the application – transportation, aerospace, marine, wind energy, software, construction and infrastructure, medical, academics, sports and leisure – CAMX is America’s go-to event in the U.S. for the global composites and advanced materials communities. It provides a venue for companies and individuals to grow business opportunities, develop industry skills, understand their potential impact on the industry and new markets, and showcase new innovations in products and technology. CAMX is jointly owned and produced by ACMA and SAMPE.

Event Highlights

- 544 Exhibitors
- 9 Unopposed Exhibit Hall hours
- CAMX Location: Anaheim, CA
- CAMX Virtual Career Fair
- 254 Technical/Education Sessions
- 5+ Networking events
- CAMX Awards featured new technologies in the marketplace
- NEW General Session format - CAMX Live! featured three composites and advanced materials innovators
- NEW CAMX Closing Luncheon - A Group Experience showcased a panel of students, the next generation of industry leaders

A Composites and Advanced Materials Event

COUNTLESS Networking Opportunities
UNRIVALED Exhibit Hall
LARGEST Conference Program

About ACMA
The American Composites Manufacturers Association (ACMA) is the world’s largest trade group representing the composites industry. It serves its members and the industry by providing strong, proactive leadership in growing the composites market and technical, legislative and regulatory affairs. To learn more and become a member, visit www.acmanet.org.

About SAMPE
The Society for the Advancement of Material and Process Engineering (SAMPE), is a global professional member society, provides information on new materials and processing technology via technical meetings, journal publications or books in which professionals in the field can exchange ideas and air their views. To learn more and become a member, visit www.sampe.org.
Delegate Demographics

AGE RANGE

- Over 65: 8%
- 56-65 years: 20%
- 46-55 years: 29%
- 33-45 years: 23%
- Under 35: 21%

75% of attendee's companies are trying to expand into new markets

79% of companies are interested in reaching international markets, including Europe, South America, North America, Russia, India and China

ATTENDEE ROLE & COMPANY TYPE

- 38% Engineers/Specifiers
- 17% Top Management of Composites Manufacturing Companies
- 12% Business Owners of Composites Manufacturing Companies
- 7% Academic
- 4% OEMs
- 2% Government or Government Contracting Companies

70% of attendees are interested in attending CAMX 2017 in Orlando, Florida

TOP MOTIVATING REASONS FOR ATTENDING CAMX

- Networking Opportunities: 19%
- Learn More About the Composites and Advanced Materials Industry: 14%
- Staying up to Date on Trends and Current Industry Issues: 12%
- Location: 11%
- Exhibit Hall: 10%

MARKET SEGMENTS:

- Aerospace: 41%
- Automotive: 12%
- Construction: 6%
- Sports Equipment: 6%
- Marine: 5%
- Military/Government Applications: 5%
- Less than 5% per segment — Architectural, Consumer Goods, Space, Pipe and Tank, Energy (Wind), Energy (Power Generation/Other), Mass Transportation, Electronics, Medical, Recreational Vehicles, Bath, Solid Surface/Cast Polymer, Swimming Pools, Other

Attendees navigating the exhibit hall on opening day.

Poster Boards featuring the latest research.
For the third time in North America, composites and advanced materials users, manufacturers and suppliers had access to the full spectrum of industry solutions in one location. Combining high-volume/low-cost material providers with low-volume/high-performance material delivered a unique experience and unprecedented opportunities for attendees and exhibitors alike. With 544 exhibiting companies and thousands of different brands on display at CAMX, the show floor was the largest ever industry marketplace in the Americas.

Exhibitors hosted business meetings in their booths, at the convention center and at surrounding hotels. Off site venues were also packed each evening with receptions, customer dinners and other events filled with CAMX attendees.
In both the CAMX Awards and the Conference Program, CAMX showcased innovations in materials and manufacturing, best practices in all aspects of the industry, and solutions to challenges. The CAMX Conference Program is unsurpassed in terms of content and experts on hand to share their knowledge. During the most extensive conference program for the industry anywhere in the world, CAMX delivered three days of sessions comprised of Technical Papers, Education Sessions, and Panels in eight tracks and over 46 unique topics and categories. From technical research on all aspects of advanced materials and composites, to manufacturing and business management topics, and trends and insights on the future of the industry, attendees received valuable information presented by expert speakers in all areas.

**GENERAL SESSION**
CAMX Live, an exciting, new General Session format, featured three individuals who are innovators in using composites and advanced materials to make a positive impact on the world. The speakers were Daniel Preston, CEO/CTO of Luminati, Gregory Haye, Knoxville General Manager at Local Motors and Greg Lynn, Prof. Arch. UCLA, CCO Piaggio Fast Forward & Greg Lynn FORM.

**INNOVATION AT CAMX**
The CAMX Award recognizes industry innovations and leadership that have the potential to significantly impact composites and advanced materials in the marketplace. The 2016 CAMX Award was presented to two game-changing entries that reflect the depth and breadth of the CAMX theme: Combined Strength. Unsurpassed Innovation. All 10 companies who were finalists, as well as the two winners, join an elite group of leaders and visionaries within the composites and advanced materials community.

**COMBINED STRENGTH AWARD**
Multi-Material Decklid Concept
Submitted by: Continental Structural Plastics

**UNSURPASSED INNOVATION AWARD**
Fire-Resistant FRP Facade Cladding System for Hi-Rise Building
Submitted by: Kreysler & Associates

**POSTER SESSION WINNER**
1st Place - Overall Winner
Influence of the Adhesive Thickness on the Energy Release Rate of Adhesively-Bonded Composite Repairs
AUTHORS: University Carlos III of Madrid, Lorena Fernández-Cañadas, Inés Iváñez, Sonia Sanchez-Saez, and West Virginia University, Ever Barbero
CONFERENCE TRACKS

- Additive Manufacturing
- Advances in Materials
- Business, Regulatory, and Workforce Development
- Design, Analysis, and Simulation
- Green & Sustainability
- Manufacturing & Processing Technologies
- Market Applications (Aerospace and Defense)
- Market Applications (Industrial and Construction)
- Market Applications (Transportation and Consumer)
- Non-Destructive Evaluation & Testing

PRESENTATIONS

254
PRESENTATIONS

SPEAKERS

313
SPEAKERS

BEST IN TRACK WINNERS

ADDITIVE MANUFACTURING

UV Cure Applications
Lightweight Replicated Composite Mirrors using UV Cured Resin, Geena Ferrelli, The Aerospace Corporation

ADVANCES IN MATERIALS

High Temperature Resins & Adhesives
Advances in MG Resin Composite and Processing for High Temperature Applications, Richard Hreha, Cornerstone Research Group

DESIGN, ANALYSIS, & SIMULATION

Advanced Design, Analysis, and Verification
Direct Laminate Selection for Simultaneous Weight Reduction, and, Strength and Layup Speed Increase, Stephen Tsai, Stanford University

GREEN & SUSTAINABILITY

Renewable & Bio-Composites Materials
Renewable Thermoplastics from Lignin with Exceptional Properties and their Composites, Amit Naskar, Oak Ridge National Laboratory

MANUFACTURING & PROCESSING TECHNOLOGIES

Out-of-Autoclave (OOA)
Demonstration of an Inflatable, Collapsible Pressure Intensifier for Out-of-Autoclave Composite Processing Using BMI Prepreg, Stephen Scarborough, ILC Dover

MARKET APPLICATIONS

Aerospace and Defense
Waterjet Capabilities for Aeroengine Manufacturing Needs, Mohamed Hashish, Flow International Corporation

MARKET APPLICATIONS

Transportation and Consumer
Improved Performance of Filament-Wound Composite Drive Shafts with Next Generation Inorganic Nanoparticle-Filled Epoxy Resins, James Nelson, 3M

NON-DESTRUCTIVE EVALUATION & TESTING

Non-Destructive Inspection & Testing
Time Temperature Indicator Film for Monitoring Composite Repair Adhesive Cure using Thermochromic Fluorescent Molecules, Ryan Toivola, University of Washington

Attendees enjoyed topics in 8 composites technology tracks.

Student panel shares their vision for the composites industry.
THANK YOU CAMX 2016 Volunteers & Sponsors

CAMX STEERING COMMITTEE
Kevin Barnett, Core Molding Technologies
Ryan Delahanty, Composites World
Tom Haulik, Hexcel Corporation
Carl LaFrance, Molded Fiber Glass Companies
Kevin McDonald, PPG Industries
Steven Mead, TenCate Advanced Composites
Marcy Offner*, Composites One
Tim Shaughnessy, Rapid Cure Technologies, Inc.
Doug Ward, GE Aircraft Engines

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Ellen Lackey, University of Mississippi
Hildeberto Nava, Reichhold LLC 2
Dailene Osborn, Molded Fiber Glass Companies
Tom Pelt, Retired
Neena Ravindran, Tecton Products, LLC.
Tony Skrobbacki, Reichhold LLC 2
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Michael Stevens, Ashland, Inc.
Amol Vaidya, Owens Corning
Sandeep Vennam, PPG Fiber Glass

ACMA EDUCATION SESSION SUBCOMMITTEE
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Bill Dolan, Dovations
Matthew Hayden*, Polyni
Richard Higgins, HK Research Corporation
James Jones, Composites Consulting Group
Jake Marquis, Kenway Corporation
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UNSURPASSED INNOVATION

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