



Experience the **CAMX** Difference

September 26–29, 2016: **Conference** / September 27–29, 2016: **Exhibits**
Anaheim Convention Center / Anaheim, California

550+ Exhibits / 300+ Conference Sessions / 7,500+ Attendees / 45+ Countries
Business Meetings / Product Displays / Poster Sessions
Manufacturing Demonstrations / Innovation Awards

IT'S ALL AT CAMX

COMBINED **STRENGTH.**
UNSURPASSED **INNOVATION.**

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www.theCAMX.org

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INDUSTRY LEADERS COMPOSITES ADVANCED MATERIALS EDUCATIONAL

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EVERYTHING YOU NEED IS AT CAMX 2016

SCHEDULE AT-A-GLANCE

MONDAY, SEPT. 26

9:00 AM – 12:00 PM – Pre-conference Tutorials
1:00 – 4:00 PM – Pre-conference Tutorials
5:00 – 7:00 PM – ACMA Awards Ceremony & Reception
6:00 - 8:00 PM – SAMPE Awards Ceremony & Reception

TUESDAY, SEPT. 27

8:30 – 9:30 AM – Opening General Session
9:30 AM – 5:00 PM – Exhibit Hall Open
2:00 – 2:30 PM – ACE Awards Presentation
2:30 – 5:00 PM – Conference Programming
5:00 – 6:00 PM – Welcome Reception

WEDNESDAY, SEPT. 28

8:00 – 11:00 AM – Conference Programming
9:30 AM – 5:00 PM – Exhibit Hall Open
10:00 AM – 12:00 PM – Poster Session Author Talks
2:30 – 5:00 PM – Conference Programming
5:00 – 6:30 PM – Market Segment Reception

THURSDAY, SEPT. 29

8:00 AM – 12:00 PM – Conference Programming
9:30 AM – 1:00 PM – Exhibit Hall Open
1:00 – 2:00 PM – CAMX Closing Luncheon
2:30 – 5:00 PM – Conference Programming

**Schedule is subject to change.*

Join the CAMX Buzz

Connect on Facebook, LinkedIn, Twitter, and YouTube to receive updates on speakers, exhibiting companies, session topics, product displays and demonstrations, as well as technology and innovation.



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 for products, solutions, networking, and advanced industry thinking.

At CAMX you will:

- **DISCOVER** exciting new industry developments.
- **GROW** your business opportunities.
- **DEVELOP** industry skills and connections.
- **RECOGNIZE** your potential impact on the industry.

General Session

CAMX 2016 will kick off with a General Session that embodies the “Combined Strength. Unsurpassed Innovation.” that is CAMX. The keynote portion of the program will feature talks by innovators and industry leaders that will inspire anyone involved with composites and advanced materials. They will explore the current innovation and future opportunities for our industry and how the industry is shaping the world in which we live. The CAMX Awards are also presented here, recognizing even more industry innovations over the last year. Open to all attendees. *Sponsored by Owens Corning.*

Networking

Monday, Sept. 26

Both ACMA and SAMPE hold Awards ceremonies on Monday evening. Both are open to members of the respective organization. For more information, view the “Other meetings and events” page on www.theCAMX.org.

Tuesday, Sept. 27

Help us kick off CAMX at the Welcome Reception while you catch up with old friends and make new connections. *Sponsored by Reichhold.*

Wednesday, Sept. 28

Join us for a Market Segment Reception where you can discuss relevant issues within specific areas of interest, “Hollywood” style. *Sponsored by Composites One.*

Thursday, Sept. 29

New this year – Attend the CAMX Closing Luncheon to hear from students who are looking forward to being a part of the composites and advanced materials industry once they graduate. Learn what the future workforce has in mind on how they can make an impact, and why they choose this industry as their field of study.

Awards

At both the CAMX and ACE Award displays, discover and interact with 2016 award winners and nominees, displaying new and creative products, applications, and research. The **CAMX Award** recognizes cutting-edge innovations that are shaping the future of composites and advanced materials in the marketplace. *Sponsored by Ashland.*



What's New?

ACMA Awards Ceremony and Reception

Monday, September 26, 2016, 5:00 PM – 7:00 PM

Join the celebration of these exceptional people who have made major advancements in the field of composites at the new ACMA Awards Ceremony and Reception. Open to ACMA members only. Ticket required.

First Time Attendees Orientation Breakfast

Tuesday, September 27, 2016, 7:30 AM – 8:15 AM

Are you NEW to CAMX? Join other first-timers for coffee, breakfast, and networking as you learn how to make the most of your CAMX experience.

CAMX Race

Wednesday, September 28, 2016, 10:30 AM – 2:30 PM

CAMX Race is an exciting scavenger hunt in the exhibit hall where students and young professionals use their mobile phones to navigate the expo hall and answer trivia questions that could be worth cash prizes and more.

CAMX Closing Luncheon

Thursday, September 29, 2016, 1:00 PM – 2:00 PM

Hear from the industry's next generation during the closing CAMX Luncheon, featuring a panel of students who will excite and inspire you to imagine the possibilities of composites. Included with all Full Conference and Premium registrations. All others must purchase a ticket.

REGISTRATION CATEGORIES & EARLY RATES*

Rates Increase after September 1. *Registration rates will be higher for all categories on-site.

PREMIUM

Access to ALL conference programming including Pre-conference Tutorials, and all networking events.

ACMA & SAMPE Members: \$925 / Non-member: \$1075

FULL CONFERENCE

Access to ALL conference programming and networking events. Tickets to tutorials must be purchased separately.

ACMA & SAMPE Members: \$675 / Non-member: \$825

SHOW SAMPLER

Access to four Education Sessions or Technical Papers of your choosing. May purchase Pre-conference Tutorial tickets separately. Tickets to Market Segment Reception, Closing Luncheon, and ACMA or SAMPE Awards ceremony must be purchased separately.

ACMA & SAMPE Members: \$350 / Non-member: \$475

EXHIBIT HALL ONLY

BONUS: Includes access to Exhibit Hall, General Session, and Tues. Opening Reception.

Tickets to all other events must be purchased separately.

ACMA & SAMPE Members: \$30 / Non-member: \$50

STUDENT

Discount registration rates are available to full-time under graduate and graduate students.

Visit www.theCAMX.org/student-registration for categories and prices.

Awards Cont.

Hosted by ACMA, the **Awards for Composites Excellence (ACE)** offers six total awards recognizing excellence in Design, Manufacturing, and Market Growth. *Sponsored by Composites One.*



“ Show keeps getting bigger and better... Makes it nice to get [it] all under one roof...networking and discovering. ”

Robert C. Rambo,
Cambro Manufacturing

“ One of the best [expos] we have attended. ”

Kevin Fochtman,
Pacific Coast
Composites

Housing

Reserve by September 1, 2016 for the best selection and rates. CAMX hotels are filling up fast! Make reservations today to take advantage of the best availability and rates before they're gone. Official CAMX hotels range from \$129 to \$232 per night. All of the official CAMX hotels are within walking distance to the Anaheim Convention Center. To make your reservation, visit www.theCAMX.org/hotels or call the only approved CAMX Housing Bureau, Conference Direct, at US TOLL-FREE: 888-557-0824 or INTERNATIONAL: +1 801-512-2547.

Anaheim, California, USA

Anaheim is your gateway to exhilarating sports, vibrant cultural experiences, world-renowned attractions, trend-setting shopping, world famous spas and beaches, acclaimed restaurants and breathtaking golf courses. The average temperature in Anaheim is 62 °F – 86 °F (17 °C – 30 °C) during September.

Airport Information

Anaheim is centrally located in Orange County, California, and conveniently serviced by four airports: John Wayne/Orange County Airport (SNA), Los Angeles International Airport (LAX), Long Beach Airport (LGB), and Ontario International Airport (ONT).

Ground Transportation

Taxis can be picked up at the airports, hotels and the Taxi Drop-off/Pick-up area located outside of the Anaheim Convention Center. For specific taxi rates, please contact the taxi company directly. Uber(TM) and Lyft also operate in the Anaheim area.

- From John Wayne/Orange County Airport (SNA) and Long Beach Airport (LGB) it takes approximately 30 minutes to drive to CAMX Hotels and the Convention Center.
- From Los Angeles International Airport (LAX) and Ontario International Airport (ONT) it takes approximately 1.5 hours to drive to CAMX Hotels and the Convention Center.

Parking

The Anaheim Convention Center is currently undergoing an expansion of the facility which is expected to be completed April 2017. Therefore car parks 4 and 5 are available to attendees and will accommodate car, truck, and trailer parking at the Anaheim Convention Center. Overnight and RV parking is not permitted. The established parking fee per entry are listed below, however these are subject to change. Standard rate \$15.00 / Premium rate \$20.00 / VIP rate \$25.00

Travel Discounts

CAMX has arranged discounts with some travel providers to help keep your costs down. Discounts are available to anyone attending CAMX.

American Airlines

Save 5% on certain fare classes when you use promotion code **A7396AZ** to book your fare. For reservations, call 1-800-433-1790, and refer to the authorization number A7396AZ. Please note that a Service Charge will apply when booking through American Airlines. The zone fares are not valid for online booking.

Delta Airlines

Save up to 10% on applicable fares when you use meeting code: **NMMX2** to book your fare.

- Book your fare online at www.delta.com. On the homepage, select "Advanced Search" under the "Book a Trip" button to enter the meeting event code on the next screen. Enter in NMMX2 in the meeting event code box.
- Reservations can also be made by calling Delta Meeting Network Reservations at 800-328-1111 Mon-Fri 7am-7pm CDT. *Please note that a Direct Ticketing Charge will apply for booking by phone.*

CAMX is proud to partner with **Advantage Rent a Car** to offer a 10% discount off their already low internet rates. Call 800-777-5500 and mention discount code **CD03DA69FE** or visit www.thecamx.org/travel-logistics.

THE MOST ROBUST PROGRAMMING ANYWHERE

CAMX offers the most robust programming anywhere for the composites and advanced materials industries. Delivering a dynamic General Session, plus Pre-conference Tutorials, Featured Sessions, Technical Paper presentations, Education Sessions hosted by industry thought leaders, and a Poster Sessions highlighting the latest research, the CAMX Conference Program provides timely topics and industry experts sharing their knowledge of over 250 different topics.

CAMX Featured Sessions

This year's Featured Sessions focus on trends and exciting new opportunities for the industry, including topics that bridge all manufacturing types and market types, and provide innovations and trends that can be applied throughout the industry. Topics include:

- Additive Manufacturing: Technology and Application Challenges
- Challenges and Opportunities for the Future of the Wind Energy
- Global State of Composites Industry
- Global Trends in Automotive Technology: An OEM Perspective
- IACMI Program Technology Focus and Updates
- Impact of Technological Advancements on Workforce Development: How the Aerospace Industry is Responding
- Incorporating Additive Manufacturing into Business, Economics, & Market Applications
- Lessons Learned from Industry Leaders
- Mixed Materials: What works – and Doesn't - in Different Market Segments
- The Road Ahead for Composite Recycling: Obstacles, Options, and Opportunities
- Thermoplastics & Thermosets in High Rate RTM Processing and Technologies

Pre-conference Tutorials

Monday, September 26

A great way to kick-off the CAMX learning experience, these courses fully immerse attendees in a single area of focus and are ideally suited for seasoned professionals and engineers, technicians new to the composites and advanced materials industry, as well as business development and marketing staff. Arrive a day early and participate in Pre-Conference Tutorials! These three hour courses are held on Monday, September 26, and fully immerse participants in a specific area of focus. Included with all Premium registrations, or they can be purchased individually with any CAMX registration. Visit www.thecamx.org/registration for tutorial add on prices.

9:00 AM – 12:00 PM

Gel Coat Application Technology

Larry Cox, CCT-I, Structurlite Composites Consultants

Molds & Tooling for Manufacturing Composites

Lou Dorworth, Abaris Training Resources

Overview of Composites Manufacturing

Dr. Andrew George, Brigham Young University

Pultrusion Technology: From Rebar to Rockets

Dr. Clement Hiel, Composite Support & Solutions, Inc.

Resin Infusion & Liquid Molding Technologies

Dr. Dirk Heider, University of Delaware

Test Methods for Composites

Dr. Don Adams, Wyoming Test Fixtures

1:00 PM – 4:00 PM

Assessing the Manufacturability of Composites Products

Bob Lacovara, Convergent Composites

Composite Damage Assessment: Testing, NDE and Analysis

Dr. Dan Adams, University of Utah

Processing, Curing and Controls for Composites

Dr. Anoush Poursartip & Dr. Goran Fernlund, University of British Columbia-Vancouver

Sandwich Materials and Structures

Dr. Rik Heslehurst, Heslehurst & Associates

Thermoplastic Composites Technology

Arnt Offringa, Fokker Aerostructures

Vacuum Infusion Processing

Andre Cocquyt, ACSM, Inc. and Neil Smith, Composites One



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CAMX Questions?

Contact CAMX at +1 626-533-5140 or info@theCAMX.org.

Poster Sessions

Poster Sessions are a special collection of work, highlighting significant research conducted by students, universities, and companies. Posters will be on display at CAMX, and authors will be available on Wednesday, September 28th, from 10:00 am - 12:00 pm for discussions and questions.

ITAR Restricted Sessions

A small portion of the CAMX Conference Program contains presentations that are regulated by International Traffic in Arms Regulations. As a result, attendance to ITAR presentations is restricted to U.S. Citizens who are employees of the U.S. Government or of U.S. Government contractors. ITAR presentations are indicated with *ITAR* after the title. Validation is required for any attendee who wants to attend ITAR sessions. For more information about ITAR Clearance Requirements visit www.theCAMX.org/ITAR.

Education Sessions

These sessions deliver critical information spanning the composites and advanced materials industry, and are NOT accompanied by formal research papers. Find case studies, best practices, and issue reviews, all presented as lectures, panels, and/or discussions.

Technical Papers

Technical Papers are 25 minute presentations and include formal written research papers reviewed by industry peers within ACMA and SAMPE. Find presentations that address critical areas important to the composites and advanced materials industry from business, applications, and research perspectives.

Prepare with MyCAMX

CAMX brings together all aspects of the industry into one unforgettable event. Having a conference plan is strongly recommended. Use the MyCAMX Planner on www.theCAMX.org to:

- Create a map of which exhibitors to visit on the Show Floor.
- Create a customized Conference Program plan.
- Schedule meetings in advance with exhibitors.

CAMX is the largest composites and advanced materials event in the largest global market for the industry.

CONFERENCE PROGRAM



ADDITIVE MANUFACTURING

3D Printing of Resilient Thermoplastic Aircraft Ducting

Additive Manufacturing and Characterization of Primary Aerospace Structures

Challenges in Laser Sintering of Melt-Processable Thermoset Imide Resin

Characterization of Shape Memory Polymer Composites for the Fabrication of Resilient Aircraft Ducting Via Fused Deposition Modeling

Combining Aspects of Additive Manufacture and Filament Winding to Produce Composites With Novel Fiber Reinforcement Patterns

Co-Printing Test Specimens as Surrogates for Complex Part Characterization

Cure Cycle Development for High Temperature Thermosetting Resins for Fused Deposition Modeling

Design Guide Development for Composite Tooling Produced With Additive Manufacturing (FDM)

ADDITIVE MANUFACTURING CONT.

Direct Manufacture of Continuous Fiber Reinforced Composites through a Combination of Fiber Placement and 3D Printing

Feasibility of Using 3D Printed Thermoplastic Molds for Stamp Forming of Thermoplastic Composites

Holistic AM Quality Control with 3D Optical Measurements

In-Situ Powder Bed Fusion Build Quality Assessment for Thermoplastics

Investigation of In-Autoclave Additive Manufacturing Composite Tooling

Investigation of Ultem 1010 FDM Sparse-Build Parts Using Design of Experiments and Numerical Simulation

Lightweight Replicated Composite Mirrors using UV Cured Resin

Manufacturing of Bio-Inspired Micro Drones using Advanced 3D Printing

Optimized Cellular Cores for Sandwich Composite Structures Using Additive Manufacturing Process

Selective Directional Reinforcement of Structures for Multi-Axis Additive Manufacturing

The Durability of Large-Scale Additive Manufacturing Composite Molds

UV Curable Material Formulations for Space Applications from AMSENG

ADVANCES IN MATERIALS

A Novel High Peel and High Shear Structural Paste Adhesive for Aerospace Applications

A Novel Multifunctional Epoxidized Phenolic Novolac for High Performance Composites

Advances in MG Resin Composite and Processing for High Temperature Applications

Ambulatory Ground Reaction Forces with Quasi-Piezoelectric Nanocomposite Foam

Bio-reinforced Composite Development for Additive Manufacturing: Nanocellulose-PLA

Bonding of Composite Parts: The Structural Adhesive Advantage

Carbon Based Alpha Silicon Carbide Fibers for Use in Composites

Carbon Fiber Applications for Hot Melt Vinyl Hybrid Snap Cure Prepreg Resins

Carbon Woven, Thin Ply Fabric Development and Deliverable Improvements

Characterization of a Room Temperature Infusion, High Tg, No-Oven, No-Autoclave Curing Epoxy Resin

Characterization of Electrical Conductivity of a Carbon Fiber Reinforced Plastic Laminate Reinforced with Z-Aligned Carbon Nanofibers

Comparison of Woven Basalt, Glass, and Carbon Fiber Composites using the High Pressure Resin Transfer Molding Process

Competing Philosophies for Certifying Materials for Cored Structure in Large Commercial Aerospace Applications

Composite Materials Applied in the Auto Industries by HPRM Technology and Flame Retardant Series

Custom Core: Design and Application for Optimized Composite Sandwich Structures

Design and Development of a Thermoplastic Carbon Composites B-pillar

Design, Manufacturing, Analysis and Implementation of Thick Solid FRP Composite Miter Blocks

Determination of Material Properties for Discrete Damage Mechanics Analysis in ANSYS

Development of Bicycloaliphatic Vinyl Ester for Low Cost Composites

Durability of Sandwich Composite Structures due to Freezing and Thawing and Ice Chemicals

Effect of Preheating and Size on the Mechanical Performance of Thermoplastic Flake Molding Compound (FMC)

Effect of Random or Size-Ordered Addition of Spherical Nanoparticles Inside a Representative Volume Element

Effect of Single-Walled Carbon Nano-Tubes on Cure Kinetics of Vinyl-Ester Resins

Effects of Silanized Graphene Nanoflakes on Mechanical Properties of Carbon Fiber Reinforced Laminate Composites

Electrical Response of MWCNT/xGnP/PDMS Hybrid Composites under Compression

Electromagnetic Interference Shielding Effectiveness of Prepreg Laminates Enhanced with Graphene and ITO Coatings Studied over VLF to VHF Frequencies Bands

Experimental and Numerical Modeling of Tri-Axial Braided CFRP Crush-Tubes

Fabrication and Characterization of a Graphene-Oxide Thin Film Developed for Lightning Strike Protection of Polymer Composite Laminates

Fabrication and Evaluation of Multiscale Thermoplastic Composites Based on the In-Situ Polymerization of Cyclic Butylene Terephthalate

Fabrication and Photocatalytic Activity of Porous Recycled Cellulose Triacetate Nanofibrous Membranes Embedded with TiO₂

Fatigue Performance of Carbon Reinforced Composites Containing Reactive Liquid Rubbers

Fundamentals and Emerging Technologies of Fiber Sizing and Interfacial Adhesion

High Performance Lightweight Automotive Nanocomposites

High Volume Production of Continuous Fiber Reinforced Thermoplastics

Highly Robust Electrospun Nanofiber Films for the Fabrication of MAV Wings

High-Performance CNT/Carbon Fiber/Polymer Multiscale Hybrid Composites with In-Situ-Polymerized Interface

How Glass Reinforcements Support the Cost of Electricity Reduction in the Wind Industry

How to Win in Carbon Composites for Automotive Market

Impact of Processing on Structure and Properties of Carbon Fiber and Effects on Composite Performance

“CAMX was very helpful in furthering my understanding of, and experience with composites.”

**David Sommerfeld,
LeTourneau University**

CONFERENCE PROGRAM

ADVANCES IN MATERIALS CONT.

Improved Acoustic and Sub-Acoustic Response in Composite Laminates using Metal Coated Carbon Fibers

Improving Adhesive Bonding of Composites through Surface Characterization Using Inverse Gas Chromatography (Igc) Methods

Improving the Strengths of Metal-Metal Bonding via Inclusion of Graphene Nanoflakes into Adhesive Joints

Interfacial and Wetting Properties of Carbon Fiber Reinforced Epoxy Composites Using Electrical Resistance Measurement with Different Epoxy Formulation

Light Weighting, Bond Line Read Through and Impact of Temperature Induced Cyclic Stress

Long Fiber Composites – Obstacles and Opportunities

Manufacturing of Honeycomb Core Sandwich Structures: Film Adhesive Behavior Versus Cure Pressure and Temperature

Material Models of Individual Components in a Thermoplastic PAEK Hybrid Composite System

Mechanical and Thermal Properties of Hollow Canned Polymer Nanocomposite Foams

Mechanical, Thermal, Electrical and Structural Behavior of 'Reversible bonded' Multi-material Joints

MMLV Composite Structural Applications using Carbon Fiber Polyamide

Monomer-Free Vinylester Prepreg for Automotive Applications

Nanoreinforced Epoxy Composites Based on Boron Nitride Nanotubes and their Application to Adhesive Joints and Composite Laminates

Next Generation Novolac Epoxy Vinyl Ester Resins for Heat Resistant Composites

Novel Halogen Free and Monomer Free Flame Retardant Vinyl Hybrid Composite Resins

Numerical Modeling and Experimental Validation of CFRP/Aluminum Sandwich Structures

Optimization of Electromagnetic Wave Transmission through Sandwich Composites with Different Core Materials in Ku-Band

Outdoor Weathering Stability of Fiber Reinforced Polymers for Fiberglass Crossarms

Parametric Optimization of an Overmolded Continuous Woven Glass Impact Box for Maximum Impact Energy Absorption Using BASF'S ULTRASIM®

Performance Drivers on Fatigue Properties of Glass Fiber Composites

Phase Change Materials - The Key to Shorter Cycle Times and Improved Sustainability?

Phenolic Resin Modified by Silicon and Boron: Structure, Thermal Stability and Anti-Oxidation Mechanism

Physical and Mechanical Properties of Nickel Coated Carbon Fibers and Composites Fabricated Thereof

Plasma Oxidation of Carbon Fiber Precursor

Predicting Performance of Particulate Magnetolectric Composites

Production and Characterization of Epoxy Syntactic Foams Highly Loaded with Thermoplastic and Glass Microballoons

Reaction-Induced Phase Separation Study in the Thermoset/Thermoplastic Blends

Recent Developments on Nanomaterials and Nanosafety for Engineering Applications

Reduced Emissions and Worker Exposure through Low Styrene Resins and Geloats

Reduced Shrink Mold Making Materials Utilizing Core Shell Nano-Technologies

Retrofitting of Concrete Structures Against Earthquakes via Pre-preg Fiber Composites

Selecting the Right Adhesive for Skin to Core Bonding in Sandwich Structures

SMC Advancements Using Thickenable Liquid Vinyl Hybrid Resins

Study on Ablation Properties of High-Temperature Resistant Phthalonitrile Resin and its Composites

Synthesis of High Purity Benzoxazine Monomer and Prepolymer via Continuous High-Shear Reactor

Synthetic Pathway for High Performance Aryl-Ketone-Ether (AKE) Diamine Curatives

Triple-Shape Memory Behavior of Phenoxy Modify Epoxy/Polycaprolactone Blends

Zinc Oxide Nanoparticles Used as Kevlar Composite Interface Reinforcement and UV Protection

BUSINESS, REGULATORY, AND WORKFORCE DEVELOPMENT

Carbon Fiber Composites Industry Supply Chain Competitiveness

Composites Joining and Repair Technology Roadmapping Effort from the Consortium for Accelerated Innovation and Insertion of Advanced Composites

Industry's Role in Composite Technician Workforce Development

IRI2038 – A Journey into the Future of R&D Management

Mapping the Course to Advance Composites Manufacturing in the U.S. through the FIBERS Roadmap

Not Just for Companies in California: What Every Composites Manufacturer Needs to Know about Prop 65

Process Safety – Compliance and Stewardship

DESIGN, ANALYSIS, AND SIMULATION

Adhesively Bonded Composite Doubler Loaded by Remote In-Plane Loads

Characteristics of Advanced Sheet Molding Compound (A-SMC) under Coupled Loading of Fatigue Crash

Comparison of Mechanical Test Methods under Consideration for Durability Characterization of Pultruded Composites

Compressive Residue Strength Properties of Damaged Epoxy/Carbon Composite Oriented Strand Board

Computational Characterization of Thermoset Polymers: Free volume evolution and its effects

Crack Propagation Fracture Toughness of GFRP Composite Repairs

Design and Processing Considerations for Optimal Performance of Short-Fiber Composite Parts

Determination of Material Properties for Progressive Damage Analysis Using Abaqus

Direct Laminate Selection for Simultaneous Weight Reduction, and Strength and Layup Speed Increase

Durability of Glass Fiber Reinforced Composites in Seawater and Alkaline Environments: The Interface Factor

Dynamic Compressive Behavior of Aramid and UHMWPE Composites Using Split Hopkinson Pressure Bar

Effect of Core Joints on Axial Fatigue of Composite Sandwich Structures

Estimation and Uncertainty Quantification of Yield via Strain Recovery Simulations

Evaluation of GFRP Repairs through Monotonic Tensile Testing

Evaluation of Process Modeling Methodologies for Polymer Matrix Composites

Experimental and Computational Investigations into the Effect of Process Induced Stresses on the Mode I Fracture Toughness of Composite Materials

Experimental Measurement and Finite Element Modeling of Residual Stresses in Simple Composite Structures

Experimental Validation of Fiber Orientation Prediction by Flow Simulation on Compression Molded Discontinuous Long-Fiber Composites Using Computed Tomography Imaging

Fatigue Behavior of CFRP Cables Under Tensile and Bending Loads for Offshore Applications

Fatigue of Carbon/Epoxy Laminates: Beyond Experimental Testing Thanks to Multiscale Modeling

Flexural Behavior of Cross-Ply Thermally Aged Bismaleimide Composites

Forming Process Simulation and Optimization

In-Situ Repair Quality Assurance Tool for Inspection of Metallic Surface Preparation

Integrated Computational Tools for Flow and Progressive Damage Analysis of Discontinuous Long-Fiber Thermoplastic Composite Parts

Integration of Fiber Bragg Grating in a CFRP-rocker panel for the Next Generation Car

Linear and Non-linear Correlation of Tensile, Compressive, and Flexural Testing for Shapes and Plates

Material Engineering to Speed-Up New Composites Material Insertion into Part Design

Mode I Delamination Failure of Fiberglass Composites Under Quasi-Static and Impact Fatigue Loading

Modeling Non-linear Material Properties in Composite Materials

Modeling Thermoset Polymers at the Atomic Scale: Prediction of Curing, Glass Transition Temperatures and Mechanical Properties

Multiscale Modeling Methodology for Short Fiber Filled Injection Molded Parts Subjected to Bending Loads: Model Enhancements

nanoHUB: Cloud Scientific Computing for Integrated Computational Materials Engineering

Numerical Simulation of a Multilayer Transparent Composite Panel Under Impact

Overmolding – An Integrated Design Approach for Dimensional Accuracy and Strength of Structural Parts

Parametric Design, Buckling Analysis and Higher Order Abstract Structural Element of Hat Stiffened Composite Panels

Physics Based Multiscale Composite Analysis in Abaqus-CAE

Prediction and Optimization of the Mechanical Properties of Short Chip Composites using Full Finite Element Analysis

Progressive Damage Modeling of Sandwich Composites Under Edgewise Compression

Progressive Modeling of Discontinuous Fiber Composites

Root Cause Failure Analysis of Composites across Industries

Study of the Failure Mechanisms of Ceramics by Numerical Analysis during Low Velocity Impact of Protective Systems

Tailored Fiber Placement in Automotive Application: Composite Control Arm

Thermal and Structural Response of Thermal Break Strategies in Steel Building Systems

Using Computation for Composite Matrix Development

GREEN & SUSTAINABILITY

BioComposites: Design, Testing, and Engineering

Bioplastics: Food vs Sustainability - The Debate Continues

Briquetting and Carbonizing of Waste Biomass for Activated Carbon Sources

Creating Shared Value & Competitive Advantage for Composites through Sustainability

Development of Chip Composites with Improved Mechanical Performance Attributes Using Hybrid Multi-Scale Modelling Methods

End-of-Life Assessments of Piezoelectric Materials and their Applications

Environmental Aspects of Recycled Carbon Fibre Composite Products

Fabrication and Testing of Soy-based Polyurethane Foam

Influence of Nanoclay on Curing, Mechanical and Thermal Properties of Bio-Based Epoxy Resin System

Long-Term Behavior of Bio-Composites for Structural Applications

Multidisciplinary Entrepreneurial Training in Resource Recovery

Performance Improvements in Natural Fiber Reinforced Thermoplastics: Sizing vs Additives

Plant Requirements for Large-Scale Chemical Recycling of Composite Materials

Reach the Ultimate Frontier of Lightweight Composites with American Silk Fiber

Recent Advances in Producing Lignin-Based Carbon Fibers for High-Temperature Applications

Recyclable High Pressure Resin Transfer (HP-RTM) Molding Epoxy Systems and their Composite Properties

Recycled Carbon Fibre --Addressing the Issues of High Volume Supply

Recycling Alternatives for LFT Machining Residue

Renewable Thermoplastics from Lignin with Exceptional Properties and their Composites

Use of Recycled (Carbon) Fibers in Wetlaid-Nonwovens – Current Status, Potentials and Ongoing Research Efforts.

Vibration Evaluation of Recycled Carbon Fiber Thermoplastics through Multiple Process-Shred Steps



CONFERENCE PROGRAM

MANUFACTURING & PROCESSING TECHNOLOGIES

Achieving Automated Tension Control for Multi-Tow and Single Web Composites Manufacturing

Alternative Heating Technology for the Braiding Pultrusion Process

Analysis of Sonication Dispersion Parameters for Batch-Production of Buckypaper

Automated Fiber Placement Trials for Composite Cryotank Fabrication

Automated Poly-Film Removal

Characterizing Amine Blush and Its Effect on Bond Strength in Epoxy Paste Adhesives

Compression Molded Billet: Its Advantages and Use

Context Aware Computing Leverages the Industrial Internet of Things (IIoT) to Create a Rich Digital Context and Weave the Digital Thread for Automated and Optimized Decision Making in Composites Manufacturing

Continuous Fiber Reinforced Fully Impregnated Polyamide-6 Prepregs

Demonstration of an Inflatable, Collapsible Pressure Intensifier for Out-of-Autoclave Composite Processing Using BMI Prepreg

Design, Analysis, and Manufacturing of a Custom Carbon Fiber Ankle Foot Orthoses

Dry Ice Cleaning – Preventative Maintenance for Composite Tool Cleaning

Effect of Mixing Time and Method on Fiber Dispersion in Wet Laid Process

Effective Use of Abrasive on Tooling

Effects of Curing Cycle and Loading Rates on the Bearing Stress of Double Shear Composite Joints

Electron Heat: A cutting edge curing process

Enabling a Step Change in Single-Line Carbon Fiber Production Capacity through Advanced High Precision Large Scale Thermal Processing Equipment

Evaluation of Continuous Fiber-Reinforced Ceramic Composites Fabricated Using High Pressure Resin Transfer Molding

Experimental Assessment of Thermoformed Composites

Factory of the Future: High Volume Automated Composite Centre

Fiber Placement, Tape Layup, or a Hybrid?: How to use software to assist in the decision of an automated layup methodology

Filament Forge: Design and FEA of Composite Filament Wound Hydraulic Cylinders and retention system designed to enable precision die forging metal under High Pressure and temperature

Flexible Cauls for High-Aspect Ratio Stiffeners Used in Composites Manufacturing

Gelcoat Yellowing Study Phase II

Heated, Digital Imaging, Glass Table for Product and Process Development / Optimization

High Volume Automotive Part Production from UD Tape Based Composite Tailored Blanks

“ This is a “Learning Place” for me in Composites...Well laid out...easy to navigate. ”

**Tom Buddenbohn,
Technology Components**

How to Grow SMC Technology Applications

Increased Productivity through Automated Pick, Place and Form Technology

Increasing the Productivity of CFRP Production Processes by Robustness and Reliability Enhancement

Introduction to Overbraiding and Net Shape Preforms

Investigating the Effects of Tilt Angles on Self-Cleaning of Superhydrophobic Composite Surfaces

Laser Cutting of Glass Fiber Preform to RTM

Manufacturing of Thermoplastic, Unidirectional Composites from Nanomodified PP/GF Hybrid Yarns by Microwave Compression Molding

Mechanical Properties of Glass Fiber/Basalt Fiber Reinforced Polypropylene Hybrid Composites Fabricated by Direct Fiber Feeding Injection Molding Process

New Solutions for Economic Trimming and Machining of Composites

Optimized Preforms for High Performance Long Fiber Reinforced Thermoplastic Tubing

Out-of-Autoclave Bonded Repairs for A350XWB

Overcoming Challenges When Manufacturing and Post Curing Thick Furan Parts

Permeability Testing, Finite Element Analysis and Vacuum Infusion Processing of Elevated Temperature Carbon Fiber Tooling

Plasma Surface Preparation of Bismaleimide Composite and Stainless Steel Nutplates for Bonding

Point-of-Use Resin Heating Reduces Cost and Improves Efficiency in Pre-impregnated Composites

Prediction of Residual Stresses in a Thick Composite Cylinder Rim after Manufacturing and Curing

Predictive Model for the Yarn's Bending Stiffness During Forming Process

Preforming Operation: A Mandatory Step in the Process to Fulfill Production Rate for Composite Parts

Processing & Characterization of Composites Via Self-Pressurizing (Soluble) Tooling

Properties of UV Cured Filament Wound Composites

Rapid Consolidation and Electron Beam Curing of Resin-Infused Thermoset Composites

Real Time AFP Inspection with Single Head-Mounted Sensor

Real Time Gauging of Wrinkle, Shear and Bridge Formation in an Automated Composite Manufacturing Process

Real-time Tracking of Composite Materials on the Shop Floor

Repair of Laminates Fabricated Using the Vacuum Infusion Process

Sealing the Holes of Aircraft Composites via Epoxy Nanocomposites Incorporated with Layered Nanoscale Inclusions

Sheet Hydroforming and Drawability Studies of Discontinuous Recycled Fiber

Study on the Mechanical Properties and Failure Behavior of 0 Degree Unidirectional Fiber Reinforced Thermosetting and Thermoplastic Composite Laminates

MANUFACTURING & PROCESSING TECHNOLOGIES CONT.

Theoretical Estimates and Experimental Validation of Microbuckling of Uncured Carbon-Epoxy Prepreg

Towards the Intelligent RTM System

Traditional & Alternative Machining Methods for Perforating Composite Materials

Understanding Resin Chemistry for Successful Light Resin Transfer Molding Production

MARKET APPLICATIONS

25 Years of Successful Use of Fiberglass Crossarms in the Electric Utility Industry

ACMA Guidelines and Recommended Practices for Fiber-Reinforced-Polymeric (FRP) Architectural Products

An Advanced Composite Repair Technique to Fully Restore the Original Structure, While Reducing Total Repair Time

Anodization of Metallic Biomaterials for Improved Corrosion Resistance
Ballistic Impact Behaviour of the Aramid and UHMWPE Composites

Best Practices Utilizing FRP and Elastomeric Liners for Various Substrates

Compression Molded Articles with Reduced Residual Styrene Content
Deployment of Composites in Truck Body and Semi-Trailer Applications

Development of Composites for Highway Truck Bodies & Trailers

DUNES Residence: Composites play key role in a distinctive and innovative house

Energy Absorption Properties of Braided Composite Rods

Fast Cure Liquid Shim Materials with Long Term Durability and Fatigue Resistance for Structural Bonding

Fiber Reinforced Polymer Composites for Infrastructure Applications

Fiber Reinforced Polymer Deployment for Florida DOT Structural Applications

Improved Performance of Filament-Wound Composite Drive Shafts With Next Generation Inorganic Nanoparticle-Filled Epoxy Resins

Net Energy Consequences of Carbon Fiber Reinforced Polymer Composites in U.S. Light-Duty Vehicle Fleet Lightweighting

Novel Chemistry Solutions for Tougher Composites in Filament Winding

Reinforcements of Concrete – Next Frontier for Composites

Resin Transfer Molding of High Temperature, Highly Filled, Fast-Cure Thermosets for Automotive Friction Applications

The Implementation of ICME in Aerospace Material Design

Ultra-Light Hybrid Composite Car Door Design & Rapid Manufacture

Use of Fire Retardant Resins and Gelcoats in Mass Transit, Architecture, and Building Materials

Waterjet Capabilities for Aeroengine Manufacturing Needs

Where Glass Reinforcements Can Help Create Value for Low and High Pressure Pipe Manufacturers

NON-DESTRUCTIVE EVALUATION & TESTING

Accelerating Composite Material Qualification using Statistically Significant Multi-Scale Progressive Damage Models

Advanced UT Methods for the Inspection and SHM of Composites

Closing the Loop on Composite Design Validation Using High Definition Fiber Optic Sensing

Deferred Severity Spectrum for Durability and Damage Tolerance Certification Testing of Hybrid Structures

Electromagnetic NDT of Composite Materials: Experimental Tests and Numerical Models

Environmental Durability Assessment of Composite Bonded Joints Using the Wedge Test

Experimental Investigation of Bonded Tab Geometry Effects on Unidirectional Carbon Fiber Reinforced Composite Tensile Strength Specimens

Guided Wave Based Online Monitoring of Composites

Microstructure Sensitive Design of Composite Materials

Monitoring of Impact Damage Accumulation in GFRP Composites using Guided Waves and Optical Transmission Scanning

NDE of Composites Using Far Field Microwave Time Reversal

Radiation Based Imaging for Fiber Reinforced Composites and Sandwich Structures

Recognition of Defects in Carbon-Fibre Reinforced Epoxy Composite Structures using Non-Destructive Testing

Thermal Damage Detection for Composites using Thermochromic Fluorescent Molecules

Thermographic Detection of Foreign Object Debris in Cured and Uncured Composite Layups

Triboluminescent Sensor Network for Load Monitoring in Wind Turbine Blades

Using Ultrasonic Technique to Determine Fitness for Service of FRP Equipment for Chemical Handling Applications 

“What a great show and a great atmosphere. Everyone was willing to share ideas, take the time to talk about their products and there was great excitement about the future of the composites industry. I can’t wait to come back in 12 months...to see what new applications have been developed...”

**Jennifer Hawkins,
Tecnon OrbiChem**

EXHIBITION INFORMATION

CAMX is the largest gathering of composites and advanced materials companies ready to do business in America. Filling the space of over six football fields, CAMX offers 550+ exhibiting companies, live demonstrations and innovative product displays, plus networking with fellow industry professionals. Browse the floor plan and view virtual booths of companies spanning every market in the industry at www.theCAMX.org.

Create your personal list of exhibitors to visit and schedule business meetings using the MyCAMX Planner.

“The show was very well done and gave us many opportunities to meet existing and potential new customers.”

Daniel Mahlmeister,
The R. J. Marshall
Company

482
EXHIBITORS
CONFIRMED

**as of 6/24/2016.*

EXHIBIT HALL HOURS

Tuesday, September 27
9:30 AM – 5:00 PM

Wednesday, September 28
9:30 AM – 5:00 PM

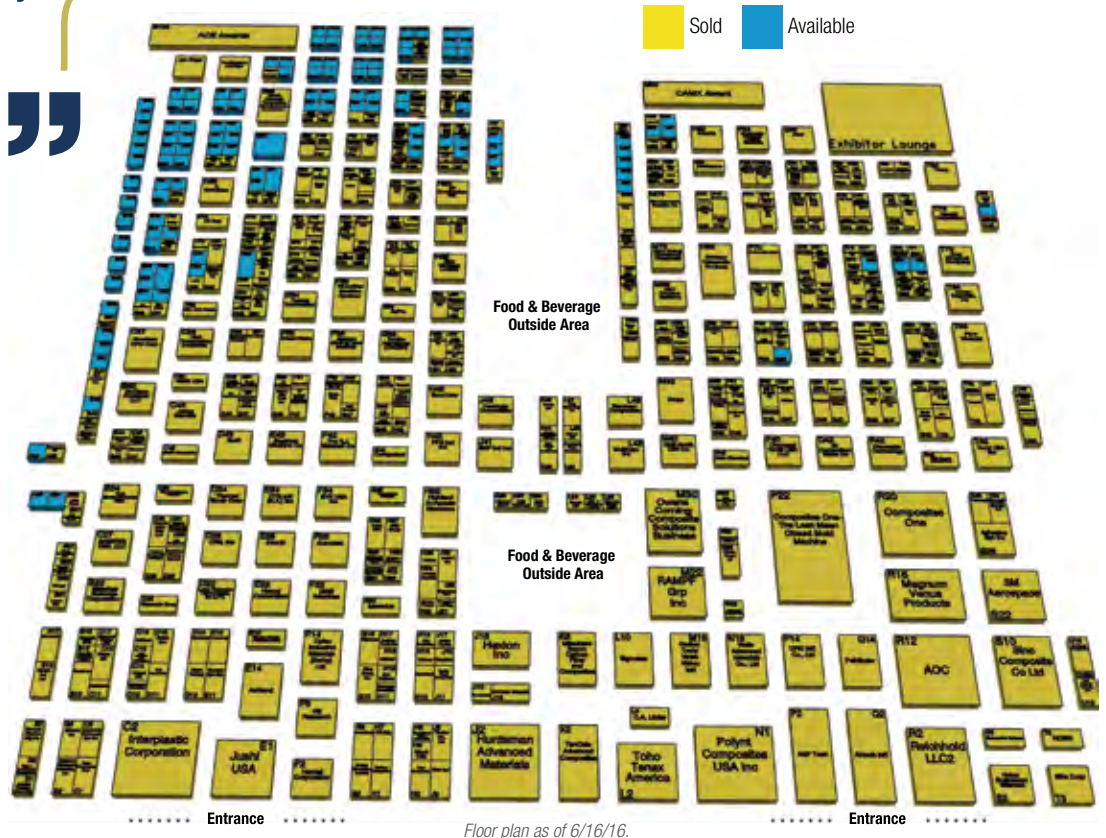
Thursday, September 29
9:30 AM – 1:00 PM

EXHIBITOR PRODUCT CATEGORIES

Additives/Fire Retardants/Fillers
Adhesives & Sealants
Aerospace
Air Pollution Control
Armor/Ballistic Materials
Assembly/Bonding Equipment
Autoclave
Automation Equipment
Auxiliary Processing
Blenders/Mixers
Braiding, Knitting/Stitching
Carbon Fiber Systems
Carbon Fibers
Ceramic Materials
Cleaning Products
CNC Machining Equipment

Coatings
Composites Structural Elements
Compounds/Putties
Computer Hardware/Software
Consulting Services
Core Materials
Cure Initiators/Catalysts
Cutting Equipment
Design Product Development Services
Education/Training
Electrical/Electronic
Fabricating Supplies
Fabrics
Fasteners
Exhibitor Product Categories
Filament Winding Equipment
Foams
Glass Fibers
Infusion Equipment
Laser Projection

Manufacturing Process Development
Material Research and Development
Matrix Materials
Mold Release Systems
Nano Materials
Ovens/Dryers/Furnaces
Preforms
Prepreg Manufacturing/
Handling Equipment
Prepregs
Presses/Compression
Pultrusion Machinery
Reinforcements
Repair
Resin and/or Gel Coat
Resin Transfer Molding
Safety Equipment and Supplies
Sporting Equipment
Testing Equipment
Testing Laboratory
Thermoplastics
Tools and Tooling Equipment
Ventilating Equipment/Dust/Odor Control



CAMX 2016 EXHIBITORS

A-C

21st Century Chemical
3A Composites/Baltek Inc.
3M Aerospace
A&P Technology
A. Schulman

A.B. Carter, Inc.
A.P.C.M. Manufacturing LLC
AAF International
ABARIS Training Resources Inc.
Accudyne Engineering & Equipment Co.
Accudyne Systems

ACG Materials
 American Composites Manufacturers Association (ACMA)
 Acrolab
 ACS International, Inc.
 Addcomp North America
 Adesso Advanced Materials Wuxi Co., Ltd.
 Adhesive Systems, Inc.
 Advanced Composite Products and Technology, Inc. - ACPT Inc.
 Advanced Composites, Inc.
 Advanced Plastics
 Adwest Technologies Inc.
 Agilent Technologies
 Airtech International
 Akar Makina San. Tic.A.S.
 AKPA Organik Peroksit Kimya San. ve Dis Tic. Ltd. Sti.
 Akzo Nobel Functional Chemicals
 Albany Engineered Composites
 Alpha Professional Tools
 Altair
 AMAMCO Tool
 American Colors Inc.
 American GFM Corporation
 American Rotary Tools CO. - ARTCO
 AMP Composites Co., Ltd.
 AMS Corehog
 ANF Technology Limited
 AOC
 Applied Aerospace Structures Corporation
 Aramicore Composite Co., Ltd.
 Argosy International Inc.
 Arkema Inc.
 Armacell Benelux S.A.
 ASC Process Systems
 Ashland
 Assembly Guidance Systems, Inc.
 Associated Industries Inc.
 Associated Technologies Weld Mount
 ATI dba SCRA Applied R&D
 Autodesk
 Automated Dynamics
 Autometrix Precision Cutting Solutions
 Autonational Composites BV
 AvPro
 AXEL Plastics Research Lab
 Axiom Materials, Inc.
 Bally Ribbon Mills
 Barrday Composite Solutions
 BASF Corporation
 Becker Pumps Corp.
 Beijing Composite Material Co., Ltd.
 Beijing Jiapeng Machinery Co., Ltd.
 Berndorf Belt Technology USA
 BGF Industries, Inc.
 Blueshift
 Bondtech Corporation
 Bostik Inc.
 BriskHeat Corporation
 Burnham Composite Structures, Inc.
 BYK USA Inc.

C.A. Litzler Co., Inc.
 C.R. Onsrud Inc.
 California State University, Long Beach
 Carbon-Core Corp
 Carlson Engineered Composites Inc.
 Carolina Narrow Fabric
 Century Design Inc.
 CGTech
 Changzhou Pro-Tech Industry Co., Ltd.
 Changzhou Sunlight Pharmaceutical Co., Ltd.
 Changzhou Topweaving New Material Tech Co. Ltd
 Chemir - EAG
 Chem-Trend LP
 Chomarat North America LLC
 Chromaflo Technologies
 Cimarron Composites
 Cincinnati Testing Laboratories
 Claremont Flock / Spectro Coating
 Clayton Associates Inc.
 Clear Carbon and Components, Inc.
 Click Bond, Inc.
 CMS North America Inc.
 CNAM Center/CAPE Lab, South
 Dakota School of Mines & Technology
 Coastal Enterprises Company
 Coats plc
 Cobham Composite Products
 Cold Jet
 Composite Alliance Corp
 Composite Essential Materials, LLC
 Composites Consulting Group
 Composites Horizons
 Composites One
 Composites One-The Lean Mean Closed Mold Machine
 Composites Washington
 CompositesWorld
 Compotool
 Conductive Composites Company
 Contech
 Convergent Manufacturing Technologies
 Conwed Global Netting Solutions
 Coosa Composites LLC
 CoreLite, Inc.
 CPIC International Co., Ltd.
 Crane Composites
 Creative Foam Composite Systems, LLC
 CRG, Inc
 CTG International (N.A.) Inc.
 Cytec Industrial Materials (Derby) Ltd.

D-I

Daicel (U.S.A.), Inc.
 Dakota Coatings Inc.
 Dantec Dynamics Inc.
 David H Sutherland & Co., Inc.
 De-Comp Composites, Inc.
 DelStar Technologies, Inc.
 Dexmet Corporation
 DIAB Americas

Dia-Stron Ltd
 Diatrim Tools
 Dino-Lite Scopes (BigC)
 Diversified Machine Systems
 Dixie Chemical Company
 DNB Engineering, Inc.
 Dow Chemical Company
 DPSS Lasers Inc
 Duna USA
 Dunstone Company Inc
 DWA Aluminum Composites USA, Inc.
 E.V. Roberts
 Eastman Machine Company
 EconCore
 EFI Composites, LLC
 EHA Composite Machinery GmbH
 Electrolock, Inc.
 Element Materials Technology
 Elite Heritage Limited
 Elliott Company of Indianapolis Inc.
 Ellsworth Adhesives
 Endurance Technologies
 Engineered Bonding Solutions, LLC
 Engineered Solutions
 Engineering Technology Corporation
 Entropy Resins
 Epcon Industrial Systems, LP
 ES Manufacturing
 Euro-Composites Corp
 Eurovac Inc.
 Evonik
 e-Xstream engineering
 Fabric Development
 FEI
 Ferry Industries Quintax
 Fiber Materials Inc.
 Fiberglass Coatings, Inc.
 Fiberlay, Inc.
 Fiber-Line LLC
 Fives Machining Systems
 FlackTek, Inc
 Flow Waterjet
 Freeman Manufacturing & Supply Company
 Gabriel Phenoxies, Inc.
 General Plastics Manufacturing Co.
 Genesis Systems Group
 Gerber Technology / Virtek Vision International
 Globe Plastics
 Graco Inc.
 Graphenea
 Green Belting Ltd
 GS Manufacturing
 Gunnar USA, Inc.
 Gurit
 Hall Composites
 Hamamatsu Corporation
 Harper International
 Harris Corporation

Hawkeye Industries, Inc.
 HEATCON Composite Systems
 HELD Technologie GmbH
 Henkel Corporation
 Hennecke Inc.
 Hexcel Corporation
 Hexion Inc.
 Hi Tech Products
 Highland Composite Structures
 Hilltop Technology Laboratory, Inc.
 HK Research
 Hollingsworth & Vose
 HORN
 HOS-Technik GmbH
 Hubei Greenhome Fine Chemical Co., Ltd.
 Huber Engineered Materials
 Hunan Heaven Materials Development Co., Ltd
 Huntingdon Fiberglass Products, LLC
 Huntsman Advanced Materials
 HyComp LLC
 Hyosung Corporation
 HyperSizer - Collier Research
 IC Flow Controls, Inc.
 IDI Composites International
 IKONICS Advanced Material Solutions
 Imetrum Ltd.
 Impact Composites
 Impossible Objects LLC
 Ingersoll Machine Tools, Inc.
 Innegra Technologies
 Innovative Composite Engineering (ICE)
 Institute for Advanced Composites Manufacturing Innovation, IACMI
 Instron
 Interplastic Corporation
 Intertape Polymer Group
 Intertek
 IST - Industrial Summit Technology Corporation
 ITW Insulation Systems
 Izumi International Inc.

J-L

J6 Polymers
 Janicki Industries
 Jiangsu Jiuding New Material Co., Ltd.
 Jiaxing Ason Composite Materials Co., Ltd.
 Jiaxing Sunny FRP Industries Co., Ltd.
 JOBS Inc.
 Johns Manville
 JPS Composite Materials
 JRL Ventures, Inc.
 Jushi USA
 Kaneka North America LLC
 Kayco Composites, LLC

Knowlton Technologies, LLC
Krauss Maffei Corporation
Krayden
Laguna Tools Inc
Lans Company
LAP Laser, LLC
Laser Projection Technologies, Inc. (LPT)
Leadgo America
LERESCHE Blades
LEUCO Telcon
LEWCO, Incorporated
Lindau Chemicals, Inc.
Litek Composites Corp.
LMG
LMI Aerospace
LMT Onsrud
Lucas Industries
Lucintel
Luna

M-P

M.B. Superabrasives
M.C. Gill Composites Center / University of Southern California
Mafic
Magnolia Advanced Materials, Inc.
Magnum Venus Products
Manufacturers Supplies Company
Marietta Nondestructive Testing, LLC
Master Appliance Corp.
MasterWorks Inc.
Matec Instrument Companies, Inc.
Materials Sciences Corporation
Maverick Corporation
McClean Anderson LLC
McCoy Machinery Corp.
McLube Division of McGee Industries Inc.
MDC Mould & Plastic Co., Ltd.
Mektech Composites Inc
Michelman
Miki Sangyo USA Inc.
Mikrosam AD
Miller-Stephenson Chemical
MISTRAS Group
Mitsubishi Rayon Carbon Fiber and Composites
Modular Web Solutions
Mokon
Montalvo
MultiAx America, Inc.
MultiCam Inc.
Myers Mixers
N12 Technologies, Inc.
Nabertherm
Nanocomp Technologies, Inc.
NDE Labs, Inc.
NDT Systems, Inc
Nederman LLC
Netsch Instruments North America
Niabrazo Corporation
Nippon Graphite Fiber
NMG USA Inc.

NONA Composites
Nordson Sealant Equipment
North American Composites
North Star Imaging
Northern Composites, Inc.
Northwood Machine Manufacturing Company
Norton
OCSIAI LLC
OEM Press Systems
Olmar S.A.
Olympus
OMAX Corporation
Omya
Onyx Specialty Papers, Inc.
Orbital ATK Aerospace Structures Division
Owens Corning Composite Solutions Business
Pacific Coast Composites
PakSense
Parabeam BV
Park Electrochemical Corp
Parson Adhesives, Inc.
Pathfinder
Patz Materials and Technologies
Performance Minerals Corp.
Permabond Engineering Adhesives
Phoenix Inspection Systems Limited
Plascore, Inc.
Plastic Materials Incorporated
Plexus - ITW Polymers Adhesives North America
Polynt Composites USA Inc.
Polystrand Inc.
Polyumac USA
Potters Industries LLC
Powerblanket
PPG Industries Semco Packaging & Application Systems
PPG Industries, Inc.
Precision Fabrics Group, Inc.
Precision Measurements and Instruments Corporation
PRO-SET Epoxy
Prospect Mold & Die Company
PTM&W
Pultrex Ltd

Q-R

Quatro Composites
RAMPF Group, Inc
Reed Industrial
Reichhold LLC2
Reinhold Industries, Inc.
Renegade Materials Corporation
Reno Machine Company
Revchem Composites, Inc.
REXCO
Rhinokore Composites Solutions
RobbJack Corporation
Rock West Composites
Rosenthal Manufacturing Co. Inc.

Rotaloc
Royce International
Rubbercraft

S-T

SAERTEX USA, LLC
Saint-Gobain ADFORS
SAMPE
Sanders Composites Inc.
Sandvik TPS
Schrödinger, Inc.
SCIGrip Smarter Adhesives Solutions
SCM Group
Scott Bader, Inc.
Sensitech, Inc.
SGL Technologies GmbH
Shandong Shuangyi Technology Co., Ltd.
Shimadzu Scientific Instruments, Inc.
Sicom
Sigmatex
Sika Corporation
Siltech Corporation
Sino Composite Company Limited
SL Laser Systems
Smart Tooling
Socomore/Dysol/Dynamold/Magchem Sogel Inc.
Soul Composites
Specialty Materials, Inc.
Spunfab Adhesive Fabrics
StateMix Ltd
Staubli Corporation
STELIA Aerospace North America
Stiles Machinery Inc.
Stoner Inc.
Strand7 Pty Ltd
Structural Composites
Surface Generation America
Surfx Technologies
SWORL (div. of Prairie Technology)
Symmetrix Composite Tooling
T Plates Global
TA Instruments
Taconic
Taizhou Huangyan DaSheng Mould Plastics Co., Ltd
Taricco Corporation
TCR Composites
TE Wire & Cable
Technical Fibre Products, Inc.
Technology Design LTD
Technology Marketing Inc.
TEI Composites Corporation
TenCate Advanced Composites
Texonic
TeXtreme® (Oxeon, Inc.)
Textum Carbon Solutions
The Adhesive and Sealant Council
The R.J. Marshall Company
Thermal Equipment Corporation
Thermal Wave Imaging, Inc.
Thermwood Corporation

THINKY USA, Inc.
Tiger-Vac Inc.
Tinius Olsen
Tiodize Co., Inc.
TMP, A Division of French
Toho Tenax America
TOR MINERALS
Toray
TR Industries
Tricel Honeycomb
Tri-Mack Plastics Manufacturing Corp

U-Z

UCLA Architecture & Urban Design - IDEAS
Ultracor
Unicomposite Technology Co., Ltd
Uni-ram Corporation
United Initiators, Inc.
University of Alabama at Birmingham
University of Massachusetts Lowell
University of South Carolina, McNair Center for Aerospace Innovation and Research
University of Southern Mississippi
Utah Composites Industry
Utah Foam Products
V2 Composites
Valmiera Glass UK Ltd
Vectorply Corporation
Venango Machine Company, Inc.
Ventilation Solutions
Verisurf Software, Inc.
Victrex
Volume Graphics
Wabash MPI / Carver, Inc.
Wacker Chemicals Corp.
Weather-Rite LLC
Web Industries
Weber Manufacturing Technologies Inc
Weibo International
Weihai Guangwei Composites Co., Ltd.
Wellco Industries, Inc.
Wells Advanced Materials Co., Ltd.
West Virginia University
WichiTech Industries, Inc.
Wickert Hydraulic Presses USA
Wisconsin Oven Corporation
World Autoclave Solutions LLC
Xamax Industries, Inc.
XTX Composites, Inc.
YXLON (Comet Technologies USA Inc.
Zeus, Inc
Zhejiang Hengdian Imp-Exp Co., Ltd.
Zhermack SpA
Zodiac Aerospace (ZACEM)
Zoltek
Zotefoams Inc.
Zund America Inc.
Zwick USA 

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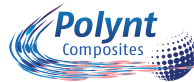
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