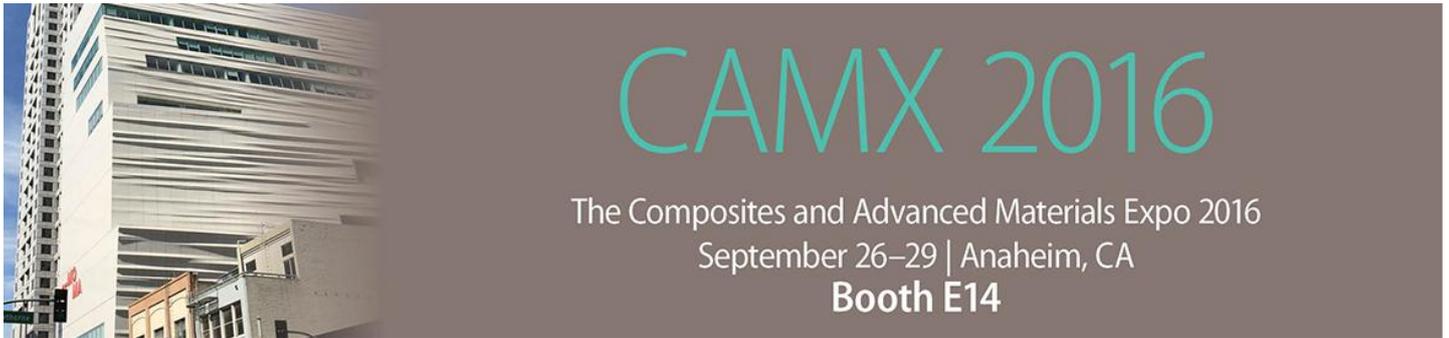


Composites and Advanced Materials (CAMX) Expo 2016

09/26/2016 - 09/29/2016 Booth No.E14, Anaheim Convention Center, Anaheim, CA
Ashland Performance Materials



The **American Composites Manufacturers Association (ACMA)** and **Society for the Advancement of Material and Process Engineering (SAMPE)**, the two leading composites and advanced materials industry organizations for nearly 60 years, are once again hosting CAMX, an event that connects and advances all aspects of the world's composites and advanced materials communities.

Ashland Performance Materials is the global leader in unsaturated polyester resins and vinyl ester resins. In addition, it offers leading chemical technologies in gelcoats, and coatings. Key customers include: manufacturers of residential and commercial building products; infrastructure engineers; wind blade and pipe manufacturers; auto and truck manufacturers; and boatbuilders.

For more information, please visit the [convention website](#).

Exhibit Hours:

Date	Start	End
Tuesday, September 27	9:30 a.m.	5:00 p.m.
Wednesday, September 28	9:30 a.m.	5:00 p.m.
Thursday, September 29	9:30 a.m.	1:00 p.m.

Ashland Presentations



Monomer-Free Vinyl ester Resin for Prepreg Applications

Speaker: Jonathan M. McKay, Ph.D.

Abstract:

The composites industry has continually shown interest in resins with improved mechanical properties and rapid cure times while demonstrating compatibility with a range of reinforcing fibers. These characteristics can be essential to a composites manufacturer seeking to answer the demands of prominent market trends such as lightweighting and emissions reduction. In this report we detail the development of a styrene-free vinyl ester resin suitable for prepreg applications. Investigations regarding resin stability and optimal cure conditions in both continuous fiberglass and carbon fiber systems will be discussed.



Achieve desired appearance and process times in a challenging regulatory environment with low styrene resins and gelcoats

Speaker: Andrew Maher, Ph.D.

Abstract:

Recent developments in the regulatory landscape continue to put pressure on boat manufacturers to reduce styrene emissions and reduce worker exposure. Ashland has taken steps to lower emissions from resins and gelcoats. Join us as we present new ways to help reduce worker exposure and meet new regulations.



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

Speakers: Kevin Lambrych and Mike Stevens

Abstract:

The goal of this session is to educate the audience on the material science of fire retardant (FR) composite materials based on fiber reinforcement, thermoset resins and gelcoats. Compared to traditional metal, wood and masonry based construction materials, composites offer benefits such as improved weight savings, ease of transportation, simplified on-site assembly, good strength and durability. With these benefits in mind, fire performance is often one of the first properties considered by engineers and architects when selecting composite materials for use in mass transit and building applications.

This session will review the chemistry of fire, the types of phenolic, unsaturated polyester, modified acrylic, epoxy and epoxy vinyl ester resins used, how halogen and non-halogen based resins and gelcoats achieve good fire performance and the effect of reinforcement and filler content on flame spread and smoke development. This session will cover the various test methods (UL 94, ASTM E162, ASTM E662, BSS7239, SMP800-C, ASTM E 84, NFPA 285 and NFPA 286) used to evaluate the FR performance of

composite materials. The audience can expect to learn the basics of FR test specimen fabrication and evaluation. Participants will gain an understanding of how FR test data relates back to selection of composite materials for mass transit, architecture and construction applications. Methods used to evaluate weathering, durability and aesthetics of composite materials will also be discussed. Real world case histories will be used to highlight how FR composite materials have been used successfully for many decades in mass transit, building and architecture.