



IACMI Renewal: Innovation, Technology, Member Value

Dale Brosius
Chief Commercialization Officer
June 21, 2023

Convene. Connect. Catalyze.

Convene

Connect

Catalyze

Connecting the Composites Industry

Professional Societies

American Chemistry **Associations AEMA** SPF SOCIETY OF PLASTICS ENGINEERS sampe Indiana JobsOhio OAK RIDGE National Laboratory VANDERBILT UNIVERSITY PURDUE MICHIGAN STATE **MNREL** University of Dayton Research Institute uammi COMPOSITES Alliance ABARIS UNITED Innovate UK

> **Communications Partners**

Federal and state partners

International Consortia



Trade

U.S. DEPARTMENT OF ENERGY

TN Department of Economic & Community Development COLORADO
Office of Economic Development
6 International Triade

SkillCrafters

Workforce **Partners and** Community Colleges















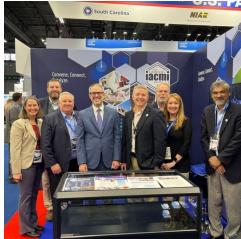
JEC WORLD 2023 The Leading International Composites Show

April 25-27, 2023

PARIS-NORD VILLEPINTE







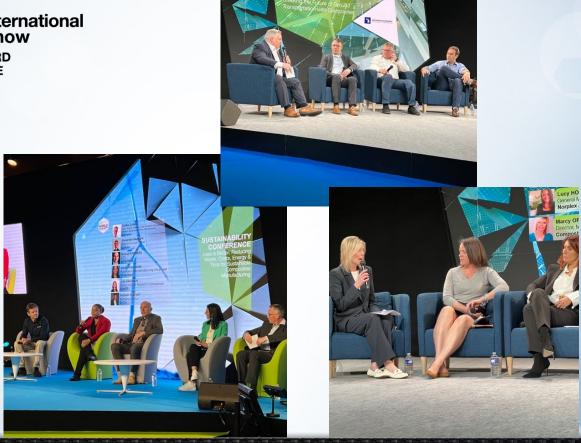




JEC WORLD
2023 The Leading International Composites Show

| PARIS-NORD | VILLEPINTE April 25-27, 2023





Upcoming Events







November 28-30 Salt Lake City

We're a small company with a great product/process. How do I get an introduction to the right people?

We have a new product and need to generate properties for a data sheet. Who has the testing capabilities that we can trust?

I would like to hire college graduates with some understanding of composites. Where can I find them?



Where can we make the customer needs for validation?

"Anyone looking for a solution should know that IACMI is the place to go"

- IACMI Premium Member

Manufacturing Assets at Relevant Scale























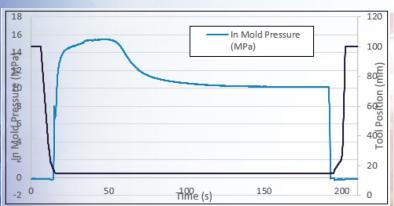






Ford Liftgate Carbon Fiber Inner Panel









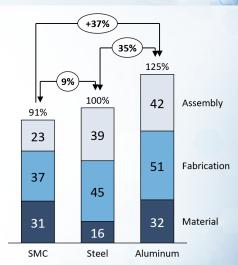
VW SMC Liftgate











Recurring cost comparison (performed by VW)

13 Meter Blade Fabrication









Infusion and Cure



Demolding



Bonding



Blade Prep for Testing

13 Meter Blade Testing



IACMI Consortium Membership Growing Again



> 21 NEW members in 2023

- > 13 industrial across all size categories
- > 7 workforce ACE/MEEP members
- ➤ 1 academic member (non workforce)
- Targeting 154 by end of year
- Membership fees fund members meetings and other activities, including project funding from Resource Pool

IACMI Technical Working Groups



High Rate Aerostructures Fabrication



Future Mobility & Vehicles
Technology



Wind Energy



Recycling Circular Economy



Infrastructure & Construction

Highlighting Small and Medium Members

AGENDA

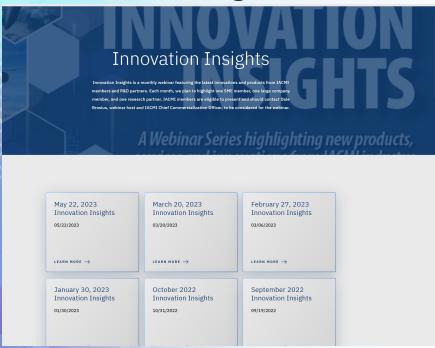
4:50pm - 5:20pm

Small and Medium Enterprise Panel

- John Dispennette, OMNIA Products
- Alec Redmann, Netzsch Instruments North America
- Tom Drye, Orion Compounding
- Scott Lewit, Structural Composites
- David Morgan, Carbon Rivers
- A big hit at every members meeting, ongoing since July 2016
- 68 small companies featured to date

Marriott Knoxville Fulton/Armstrong

Innovation Insights Webinars



Every episode recorded and can be found on IACMI website and IACMI YouTube channel



- Presenters must be IACMI members
- Attendance is open to everyone
- Interested in presenting? Next events are July 17, August 21 and September 18

IACMI Consortium Council

EX OFFICIO MEMBERS



DALE BROSIUS EXECUTIVE DIRECTOR



UDAY VAIDYA CTO



MAHA KRISHNAMURTHY UT RESEARCH FOUNDATION



TOM DRYE

PREMIUM MEMBERS



STEVE NOLET TPI COMPOSITES



RANI RICHARDSON DASSAULT SYSTEMES



GINA OLIVER
AMERICAN CHEMISTRY COUNCIL

IACMI Consortium Council

ELECTED AND APPOINTED MEMBERS



HALEY MARIE KEITH – MITO MATERIALS HICHAM GHOSSEIN – ENDEAVOR COMPOSITES SMALL ENTITY REPRESENTATIVE



SMALL ENTITY REPRESENTATIVE



CRAIG BLUE - ORNL STATE/NATIONAL LAB/ACADEMIA



JOHN PRUETT - HEXCEL LARGE ENTITY REPRESENTATIVE



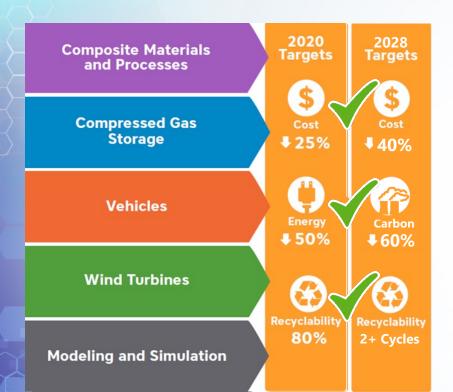
JOE FOX - FX CONSULTING **EXECUTIVE DIRECTOR APPOINTEE**



GLENN RICHARDSON – JOBS OHIO EXECUTIVE DIRECTOR APPOINTEE



IACMI Technical Goals under DOE Funding



IACMI Priorities 2023-2028	
Clean Energy Markets	Wind Energy, EVs, Hydrogen Storage
Cross-cutting Technologies	Circular Economy, Digitalization, Materials & Processes
Workforce of the Future	Education and Workforce Development, DEIA
Industry health	Small & Medium Enterprises; Robust, Resilient Supply Chains; Regional Partnerships/Clusters

DOE Renewal Scope

- Major "in-scope" technical topics:
- Offshore wind and longer onshore wind turbines
- Hydrogen generation and storage
- Vehicle electrification, both ground and airborne, supported by lightweighting
- Circular and renewable economy, including recycling, bio-based materials and reversible resins
- Digital process twins via simulation, incorporating real time life cycle analysis (LCA) into the design process
- In addition to technical scope, we will be addressing workforce and DEIA elements and Community Benefits.
- Baseline funding \$30M over five years plus \$30M in cost share.

DOE Renewal – What Comes Next?

- Currently in negotiations with DOE to get under contract
 - Targeting July for Cooperative Agreement
 - Working on streamlined process for project approval and commencement of project work
- Working with core partners to refine scope, and identify high priority, high impact projects, including input from IACMI Working Groups.
- Projects will require industry cost share, some of which may be cash depending on need for tooling or other assets. Building a team with multiple partners allows for greatest leverage on project contributions.
- Stay tuned for a member webinar in early August to more fully describe how to participate.

Thank You for Being IACMI Members!

