TRANSPORTATION STRUCTURES COUNCIL

The mission of the Transportation Structures Council (TSC) is to coordinate the development and promotion of composites technology and products used in the repair or replacement of transportation structures. The Council partners with trade, technical and professional organizations to identify and reduce barriers to market acceptance, promotes education and awareness of composites technology and provides leadership in the development of codes and standards. Council members also engage government agencies and legislators to identify programs and solicit funding to facilitate the specification of composites technology and demonstration projects.

Activities and Achievements:

- **Conducted** a design workshop on composites bridge design at the International Accelerated Bridge Construction Conference in 2022 and International Bridge Conference in 2023.
- **Supported** in the execution and developed educational content for the Construction and Infrastructure Composites Technology Day in 2021 and 2023.
- **Exhibited** and developed technical workshops on FRP composites advancements to educate engineers and asset owners at the International Bridge Conference for 19 consecutive years.
- **Advocated** to Congress for FHWA to engage the Transportation Research Board to assess the overall performance of over 300 bridges built under the Innovative Bridge Research and Construction (IBRC) Program. Over half of these bridges were built with composites.
- **Supported** development of various American Concrete Institute (ACI) standards and specifications for FRP composites used in concrete.
- **Collaborated** with the American Association of State Highway and Transportation Officials (AASHTO) COBS T-6 strategic plan in development and implementation of FRP composites design and standards products.
- **Educated** Congressional legislators on the benefits of composites and supported development of legislation for Transportation Bill reauthorization. Developed infrastructure programming for conference track at CAMX and presentations to DOTs.
- **Collaborated** with the Federal Highway Administration and Florida DOT to educate engineers through webinars and workshops on the benefits of using composites in transportation structures.

Current and Future Projects:

- **Education:** Present composites bridge design workshops to State DOTs.
- **Standards:** Update the AASHTO Pedestrian Bridge Specification. Support the development of new standards for composites through committees in the American Concrete Institute (ACI), ASCE FCAPS (LRFD Standard), and ASTM (test methods).
- **Advocacy**: Support ACMA Capitol Hill infrastructure legislative issues.
- **Outreach:** Develop relationships with State DOT and FHWA agencies in the education of engineers and bridge owners on FRP composites technology. Develop partnerships with other organizations such as AASHTO, the Transportation Research Board, and the Center for Accelerated Bridge Construction.

For more information, or to join this committee, contact the Composites Growth Initiative at cgi@acmanet.org.

MEMBERSHIP

Manufacturers:

- ✓ AIT Composites
- ✓ CMS Infrastructure
- ✓ Creative Composites Group
- ✓ Marshall Composite Technologies, LLC
- ✓ McClarin Composites
- ✓ Orenco Systems
- ✓ Sika Corporation
- ✓ Structural Composites, Inc.

Suppliers and Distributors:

- ✓ AOC
- ✓ Aramco Services Company
- ✓ Composites One, LLC
- ✓ EJ Muskegon
- ✓ INEOS Composites
- ✓ Interplastic Corporation
- ✓ Owens Corning
- ✓ Oxco Inc.
- ✓ Polynt
- ✓ Scott Bader
- ✓ United Initiators, Inc.
- ✓ Vectorply Corporation

Affiliates:

- ✓ Axcess LLC
- ✓ Cegep Saint-Jerome
- ✓ Clemson Composites Center
- ✓ Composites Association of New Zealand (CANZ)
- ✓ Composites Designs & Technology
- ✓ FX Consulting LLC
- ✓ Infrastructure Ventures LLC
- ✓ Kansas Polymer Research Center
- ✓ Lucintel
- ✓ North Carolina State University
- ✓ Sustainable Composites
- ✓ University of Delaware
- ✓ University of Massachusetts Lowell
- ✓ University of Miami – Civil, Architectural, & Environmental Engineering
- ✓ University of Sherbrooke
- ✓ UTComp, Inc
- ✓ West Virginia University

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