

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:

- **Supported** and authored the update for the AASHTO LRFD Guide Specifications for the Design of FRP Pedestrian Bridges, 2nd Edition.
- **Conducted** a design workshop on composites bridge design at the International Accelerated Bridge Construction Conference in 2022 and International Bridge Conference in 2023.
- **Supported** 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.
- **Supported** development of various American Concrete Institute (ACI) standards and specifications for FRP composites used in concrete.
- **Supported** ACMA's Climate Impact Reduction through Composites Lifecycle Evaluation (CIRCLE) program to proactively address sustainability needs and demands of the automotive composites industry with the performance of composites.
- **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 composites in transportation structures.

Current and Future Projects:

- **Education:** Develop and present composites bridge design workshops to State DOTs.
- **Standards:** Develop a new draft AASHTO Tub Girder Design Specification. Support the development of standards through committees in the American Concrete Institute and ASTM.
- **Advocacy:** Support ACMA Capitol Hill infrastructure legislative issues.
- **Outreach:** Foster relationships with State DOT and FHWA to educate engineers and bridge owners on FRP composites technology. Collaborate with AASHTO Specialized Structures and Concrete Committees, the Transportation Research Board, and the Center for Accelerated Bridge Construction at FIU.

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 Composites
- ✓ INEOS Composites
- ✓ Luna Innovations, Inc.
- ✓ Interplastic Corporation
- ✓ Owens Corning
- ✓ Polynt Group
- ✓ Scott Bader
- ✓ United Initiators, Inc.
- ✓ Vectorply Corporation

Affiliates:

- ✓ Access LLC
- ✓ Cegep Saint-Jerome
- ✓ Clemson Composites Center
- ✓ Compeng Composite Solutions (OPC)
- ✓ Composites Association of New Zealand (CANZ)
- ✓ FX Consulting LLC
- ✓ Infrastructure Ventures LLC
- ✓ Lucintel
- ✓ Mississippi State University – Advanced Composites Institute
- ✓ North Carolina State University – Civil Engineering
- ✓ Sustainable Composites
- ✓ University of Delaware – Center for Composites Material
- ✓ University of Massachusetts Lowell
- ✓ University of Miami – Civil, Architectural, & Environmental Engineering
- ✓ University of North Dakota
- ✓ University of Sherbrooke
- ✓ UTComp, Inc
- ✓ West Virginia University