

2018 FDOT-FRP Industry 2nd Winter Workshop

February 9, 2018

Orlando, FL



Part 1-Reports



Part 1 - Reports

- a. FDOT FRP-RC implementation status
- b. FDOT Materials Office update on durability focused research projects
- c. Update on AASHTO LRFD Guide Specification for GFRP-RC
- d. ACMA FRP-RMC update (*John Busel*)
- e. Action Item Status from last year



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ACMA - FRP Rebar Manufacturers Council update

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Vision & Mission

Vision

- To create a forum for composites industry manufacturers that ensures FRP rebar, tendons, and grids, are accepted by designers, engineers, and specifiers in construction and civil engineering applications

Mission

- Promote the use and growth of FRP reinforcement (rebar, tendons & grids) in concrete and masonry applications through development of quality procedures, industry specifications, performance standards, and field application guidelines



Membership (24)

Manufacturers

- Basalt America
- Composite Rebar Technologies, Inc.
- Owens Corning Infrastructure Solutions
- Marshall Composite Technologies, LLC
- Pultrall, Inc.
- Pultron Composites
- Raw Energy Materials Corp.
- Strongwell
- TUF-BAR, Inc.

Material Suppliers

- Arkema, Inc.
- Ashland
- Composites One
- Dixie Chemical
- Interplastic Corporation
- Olin Blue Cube
- Owens Corning
- Toho Tenax

Academic

- NC State University
- Ryerson University
- University of Miami
- University of Sherbrooke
- University of Mass. – Lowell
- West Virginia University



Strategic Goals

- **Standards Development** - The goal is to develop new or modify existing standards to assist engineers in design and specification of FRP rebar.
- **Education** - The goal is to provide basic education on the use and specification of FRP rebar that is targeted at designers, engineers in consulting firms or DOTs.
- **Marketing** - The goal is to promote the FRP rebar industry to a broad audience of users in the transportation infrastructure and building industry.
- **Outreach & Advocacy** - The goal is to work together as a cohesive industry to represent the needs that will remove barriers resulting in greater acceptance by educating and partnering with end-users, federal agencies, and legislators.



Priorities

1. Proactively support the development of the ASTM GFRP Rebar product specification. ASTM D7957 is published thanks to industry consensus and dialog in the FRP-RMC (complete)
2. Support the update to the AASHTO LRFD Design Guideline for GFRP Rebar used in all concrete elements of bridge construction (complete)
3. Assist in the development of the ACI GFRP rebar design codes. (in-progress)
4. Engage Florida DOT bridge designers and engineers to address critical DOT priorities / needs (in-progress)
5. Provide education and product awareness to students and engineers (ACI FRP Beam, IBC)



Infrastructure Day Recap

- 40 members, 100+ meetings on Capitol Hill
 - Introduced the 21st Century Infrastructure Act
 - Support for NIST in gathering/analyzing data for standards
 - Upgrade the Stafford Act to change “like for like”
- Federal Agency Panel: FHWA, US Chamber of Commerce, AASHTO – highly informative (report from TRB on IBRC)
- White House representative on policy announced the infrastructure bill will be unveiled on Monday
 - Innovative project delivery
 - Require performance not prescriptive
 - Incentivize that structures are built for the long term
 - Implement LCCA
 - Reduce permitting to a max of 2 years
 - 10 year capital plan, \$1.5 T

