

# NEW PRODUCTS EVALUATION COMMITTEE MEETING

**May 16, 2024**

Georgia Department of Transportation--Office of Materials and Testing  
15 Kennedy Dr. Forest Park, GA 30297

## NPE COMMITTEE

<b>Ian Rish</b>	<i>Chair - OMAT</i>	<b>Connie Coleman</b>	<i>New Products Supervisor - OMAT</i>
(404) 608-4708	OMAT	(404) 608-4816	OMAT Room 305
		<b>Sydney Herrington</b>	<i>New Products- OMAT</i>
		(404) 608-4865	OMAT Room 305

## NPE COMMITTEE MEMBERS

<b>Shahid Jenkins</b>	<i>OMAT - Soil, Physical, &amp; Chemical</i>	<b>Tony Eadie – Design Engineer</b>	<i>G.O. – Roadway Design</i>
(404) 608-4817	OMAT Room 306	(404) 631-1662	G.O. Roadway Design 27 <sup>th</sup> floor -Cubicle 2714
<b>Steve Gaston – Assistant State Bridge Engineer</b>	<i>G.O. - Bridge Design</i>	<b>Paul Harvey</b>	<i>Maintenance Liaison</i>
(404)-631-1881	<i>G.O. Bridge Office 24<sup>th</sup> floor</i>	(404) 608-4841	<i>Maintenance Activity Unit</i>
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(404) 635-2465	TMC - Bldg. 24	470-572-4856 (C)	G.O. 11 <sup>th</sup> Floor
<b>Jose Hernandez-Ramirez – Design Engineer 3</b>	<i>G.O. – Design Policy and Support</i>	<b>Abdel Koundaba</b>	<i>State Utilities Liaison</i>
404-631-1833	<i>G.O. 25<sup>th</sup> Floor</i>	404-631-1821	G.O. 10 <sup>th</sup> Floor
<b>Daryl L. Williams - Environmental Compliance Bureau</b> C (404) 326-5986	<i>Office of Engineering Services</i>	<b>Ben Ruzowicz – Urban Program Manager</b>	<i>GA Soil and Water Conservation Commission</i>
(404) 631-1763	G.O.	(706) 552-4475 Athens	4310 Lexington Rd
<b>Vincent Newsome</b>	<i>Geotechnical Branch</i>	<b>Rabindra Koirala –Bridge and Structural Design Engineer</b>	<i>G.O. - Bridge Design &amp; Maintenance</i>
(404) 608-4787	OMAT	(404)-635-2893	TMC – Bldg. 24

Time	*NPE # / Product*	*Guest(s)*	*Meeting type* (In Person, Phone Conf.)	*Phone Number*
9:05	NPE 2401-4 Damage Prevention Solutions, LLC – “SignalTape Underground Warning Tape”	Kelly Boccippio <a href="mailto:sales@damageprevention.com">sales@damageprevention.com</a>		(434) 202-8710
9:25	NPE 2401-3 McTech Group, Inc. – “EZ Basket”	Steve McDonald <a href="mailto:steve.mcdonald@mctechgroup.com">steve.mcdonald@mctechgroup.com</a>		(770) 913-8363
9:45	NPE 2403-1 GeoTree, Inc. – “RenewWrap FRP System: RenewWrap CF600 with LPL Resin”	Brian Tinoco <a href="mailto:btinoco@cs-nri.com">btinoco@cs-nri.com</a> <a href="mailto:brian.tinoco@henkel.com">brian.tinoco@henkel.com</a>		(720) 921-8812
9:45	NPE# 2403-1 GeoTree, Inc. – “RenewWrap FRP System: RenewWrap CF335 with LPL Resin”	Brian Tinoco <a href="mailto:btinoco@cs-nri.com">btinoco@cs-nri.com</a> <a href="mailto:brian.tinoco@henkel.com">brian.tinoco@henkel.com</a>		(720) 921-8812
9:45	NPE# 2403-1 GeoTree, Inc. – “RenewWrap FRP System: RenewWrap CF1400 with LPL Resin”	Brian Tinoco <a href="mailto:btinoco@cs-nri.com">btinoco@cs-nri.com</a> <a href="mailto:brian.tinoco@henkel.com">brian.tinoco@henkel.com</a>		(720) 921-8812
9:45	NPE# 2403-1 GeoTree, Inc. – “RenewWrap FRP System: RenewWrap GF875 with LPL Resin”	Brian Tinoco <a href="mailto:btinoco@cs-nri.com">btinoco@cs-nri.com</a> <a href="mailto:brian.tinoco@henkel.com">brian.tinoco@henkel.com</a>		(720) 921-8812
9:45	NPE# 2403-5 GeoTree, Inc. – “RenewWrap FRP System: RenewWrap MCU”	Brian Tinoco <a href="mailto:btinoco@cs-nri.com">btinoco@cs-nri.com</a> <a href="mailto:brian.tinoco@henkel.com">brian.tinoco@henkel.com</a>		(720) 921-8812
10:10	NPE 2312-1 MST Rebar, Inc. – “MST Bar”	Borna Hajimiragha <a href="mailto:Borna.h@mstbar.com">Borna.h@mstbar.com</a>		(416) 618-4848
10:25				
10:45				
11:05				
11:25				
11:45				

## Presentations

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# OLD BUSINESS

## **NPE# 2210-1 Alchemco – “BridgeDeck Protectant”**

**Product Description:** BridgDeck® products are a bio-based waterproofing system that employs a sodium silicate waterproofing agent, which is enzymatically modified to chemically bond with concrete. With the introduction of water, the waterproofing agent reacts with the calcium, increasing in mass as it forms a gel that encapsulating the water trying to enter the concrete. This vapor permeable gel fills cracks, pores, and voids in the concrete, creating a long-term barrier to water infiltration.

**Material Composition:** BridgeDeck Protectant is an enzymatically modified sodium silicate solution.

**Recommended Use:** It is recommended for Integrally waterproofing structural concrete

**Product meets GDOT Specification:** Product falls outside of current GDOT specification.

**Cost:** Price is not given

**Committee Recommendation:** Field Test

**Important Dates:**

**Notes:** Concrete – Jason Waters

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## **NPE# 2211-1 Carolina Hydrologic – “Floc Product Suite”**

**Product Description:** The Floc Product Suite (FPS) is a non-toxic anionic polyacrylamide blend shaped into different sizes and shapes for different applications. The FPS is designed for water clarification on job sites or in industrial processes through flocculation.

**Material Composition:** It is an anionic polyacrylamide and mineral blend

**Recommended Use:** Passive or active treatment on job sites or industrial processes.

**Product meets GDOT Specification:** Product falls outside of current GDOT specification.

**Cost:** Cost varies based on distributor

**Committee Recommendation:** Field Test

**Important Dates:**

**Notes:** Construction – David Neighbors

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## **NPE# 2309-2 Transpo Industries – “Screen-Safe Glare Screen Safety Shield”**

**Product Description:** This is a Highway / Bridge Glare Screen designed to protect drivers and work crews from headlight glare and debris.

**Material Composition:** It is composed of hot-dip galvanized 25ga steel sheet and can also receive a powder coating in a large variety of colors, ASTM A-653 Coating designation G90. All hardware components are structural grade.

**Recommended Use:** It is recommended as a highway glare screen barrier, pedestrian highway/bridge safety barrier, work zone debris safety barrier, barrier fencing, jet blast fencing and Rock Fall Zone Barrier Screen.

**Product meets GDOT Specification:** Product falls outside of current GDOT specification.

**Cost:** Prices vary. Each project requires an individual quote.

**Committee Recommendation:** Pilot Test

**Important Dates:**

**Notes:** Design Policy and Support – Jose Hernandez-Ramirez, Bridge Design and Maintenance – Donn Digamon, Bridge Design and Maintenance – Steve Gaston

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### **NPE# 2308-1 TreeTop Products – “Left-Turn Calming/ Center Line Hardening Speed Bumps”**

**Product Description:** These are premium rubber speed bumps with double row of hardware, built-in cat-eye reflectors, molded yellow or white rubber, not paint or tape.

**Material Composition:** It is composed of mold injected recycled rubber.

**Recommended Use:** It is recommended for centerline hardening for left turn calming, used to slow vehicles making a left turn, thus creating a delineation device prompting drivers to make a 90-degree left turn, slowing the average left turn speed from 14mph to 9 mph. This gives drivers more time to see pedestrians and cyclists on the crosswalk and reduces crashes and fatalities.

**Product meets GDOT Specification:** Product falls outside of current GDOT specification.

**Cost:** \$120 per unit

**Committee Recommendation:** Field Test

**Important Dates:**

**Notes:** Design Policy and Support – Jose Hernandez-Ramirez, Traffic Operations – David Miranda, Maintenance – Paul Harvey, Maintenance – Barry Barnes

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### **NPE# 2309-1 ADA Solutions – “ADA Directional Wayfinding Surfaces”**

**Product Description:** Directional Wayfinding Panels are used stand alone or in conjunction with Detectable warning dome panels to create a guidance system for the Blind or visually impaired pedestrian. The Directional Bars provide guidance to a certain point whereas the Detectable warning domes (QPL-87) provide a decision or stopping point.

**Material Composition:** The product is composed of Fiberglass Composite SMC material.

**Recommended Use:** Directional wayfinding Bartile are used to guide a blind or visually impaired pedestrian from point A to point B, for example down a sidewalk to avoid obstacles or direct them to a certain point or feature (door location, Bus loading, etc).

**Product meets GDOT Specification:** Product falls outside of current GDOT specification.

**Cost:** \$100 per unit

**Committee Recommendation:**

**Important Dates:**

**Notes:** Physical and Chemical Branch – Shahid Jenkins, Traffic Operations – David Miranda, Design Policy and Support – Jose Hernandez-Ramirez

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### **NPE# 2305-3 Pavement Technology Inc. – “JointBond Longitudinal Joint Stabilizer”**

**Product Description:** Polymerized petroleum maltene emulsion formulated to penetrate the pavement surface around the longitudinal joint to reduce viscosity of the asphalt binder improving flexibility and creating an in-depth seal.

**Material Composition:** It is composed of maltene emulsion, which is a chemical blend of four basic Maltene components of asphalt (polar compounds, first acidifins, second acidifins, and saturated hydrocarbons), a polymer, tracing dye and emulsifiers.

**Recommended Use:** It is recommended for use as a polymerized petroleum maltene base longitudinal joint stabilizer, as well as a life extender for rumble strips, in-set and joint patches.

**Product meets GDOT Specification:** Product falls outside of current GDOT specification.

**Cost:** \$25.00 per gallon FOB Mansfield, OH

**Committee Recommendation:**

**Important Dates:**

**Notes:** Maintenance – Paul Harvey, Maintenance – Barry Barnes, Pavement – Jewell Stone

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### **NPE# 2309-2 Transpo Industries – “Screen-Safe Glare Screen Safety Shield”**

**Product Description:** This is a Highway / Bridge Glare Screen designed to protect drivers and work crews from headlight glare and debris.

**Material Composition:** It is composed of hot-dip galvanized 25ga steel sheet and can also receive a powder coating in a large variety of colors, ASTM A-653 Coating designation G90. All hardware components are structural grade.

**Recommended Use:** It is recommended as a highway glare screen barrier, pedestrian highway/bridge safety barrier, work zone debris safety barrier, barrier fencing, jet blast fencing and Rock Fall Zone Barrier Screen.

**Product meets GDOT Specification:** Product falls outside of current GDOT specification.

**Cost:** Prices vary. Each project requires an individual quote.

**Committee Recommendation:** Pilot Test

**Important Dates:**

**Notes:** Design Policy and Support – Jose Hernandez-Ramirez, Bridge Design and Maintenance – Donn Digamon, Bridge Design and Maintenance – Steve Gaston

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# NEW BUSINESS

## **NPE# 2401-4 Damage Prevention Solutions, LLC – “SignalTape Underground Warning Tape” (9:05 am)**

**Product Description:** SignalTape Underground Warning Tape provides mechanical protection from excavation damage. The strong core material and sine wave design pulls the tape to the surface alerting the excavator when contact is made from any direction.

**Material Composition:** The product is composed of polyethylene terephthalate with para-aramid core material with a fully customizable print legend.

**Recommended Use:** SignalTape is used to protect, identify, and locate all underground utilities.

**Product meets GDOT Specification:** Product falls outside of current GDOT specification.

**Cost:** SignalTape 6” is \$1.08 /ft.

**Committee Recommendation:**

**Important Dates:**

**Notes:** Utilities – Abdel Koundaba

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## **NPE# 2401-3 McTech Group, Inc. – “EZ Basket” (9:25 am)**

**Product Description:** EZ Basket is a field assembled dowel basket.

**Material Composition:** It is composed of ASTM 510/A510 cold drawn wire, “no break” polypropylene sleeves, and ASTM A 36 steel.

**Recommended Use:** It is recommended for joint support in concrete contraction joint in highway pavement, airport and marine applications, especially for concrete repair projects.

**Product meets GDOT Specification:** Product falls outside of current GDOT specification.

**Cost:** \$25.00 per gallon FOB Mansfield, OH

**Committee Recommendation:**

**Important Dates:**

**Notes:** Technical Assistance – Dr. Peter Wu, Concrete – Jason Waters

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## **NPE# 2403-1 GeoTree, Inc. – “RenewWrap FRP System: RenewWrap CF600 with LPL Resin” (9:45 am)**

**Product Description:** RenewWrap CF600 is a dry, unidirectional reinforcing fabric made with high strength, standard modulus carbon fibers. RenewWrap CF600 fabrics, along with RenewWrap LPL Saturant are used to strengthen or retrofit existing concrete and masonry structures.

**Material Composition:** It is composed of dry carbon fabric saturated with epoxy resin.

**Recommended Use:** It is recommended to strengthen for load increases, address changes in structural system, like slab openings, retrofit for seismic, wind, or blast, restore strength to damaged members like fire or vehicle impact, restore strength to deteriorated members subject to corrosion, strengthen for design or construction errors.

**Product meets GDOT Specification:** Product falls outside of current GDOT specification.

**Cost:** \$5-20 per sq ft of material

**Committee Recommendation:**

**Important Dates:**

**Notes:** Geotechnical Branch – Eugene Utsalo

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**NPE# 2403-2 GeoTree, Inc. – “RenewWrap FRP System: RenewWrap CF335 with LPL Resin” (9:45 am)**

**Product Description:** RenewWrap CF335 is a dry, unidirectional reinforcing fabric made with high strength, standard modulus carbon fibers. RenewWrap CF335 fabrics, along with RenewWrap LPL Saturant are used to strengthen or retrofit existing concrete and masonry structures.

**Material Composition:** It is composed of dry carbon fabric saturated with epoxy resin.

**Recommended Use:** It is recommended to strengthen for load increases, address changes in structural system, like slab openings, retrofit for seismic, wind, or blast, restore strength to damaged members like fire or vehicle impact, restore strength to deteriorated members subject to corrosion, strengthen for design or construction errors.

**Product meets GDOT Specification:** Product falls outside of current GDOT specification.

**Cost:** \$5-20 per sq ft of material

**Committee Recommendation:**

**Important Dates:**

**Notes:** Geotechnical Branch – Eugene Utsalo

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**NPE# 2403-3 GeoTree, Inc. – “RenewWrap FRP System: RenewWrap CF1400 with LPL Resin” (9:45 am)**

**Product Description:** RenewWrap CF1400 is a dry, unidirectional reinforcing fabric made with high strength, standard modulus carbon fibers. RenewWrap CF1400 fabrics, along with RenewWrap LPL Saturant are used to strengthen or retrofit existing concrete and masonry structures.

**Material Composition:** It is composed of dry carbon fabric saturated with epoxy resin.

**Recommended Use:** It is recommended to strengthen for load increases, address changes in structural system, like slab openings, retrofit for seismic, wind, or blast, restore strength to damaged members like fire or vehicle impact, restore strength to deteriorated members subject to corrosion, strengthen for design or construction errors.

**Product meets GDOT Specification:** Product falls outside of current GDOT specification.

**Cost:** \$5-20 per sq ft of material

**Committee Recommendation:**

**Important Dates:**

**Notes:** Geotechnical Branch – Eugene Utsalo

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## **NPE# 2403-4 GeoTree, Inc. – “RenewWrap FRP System: RenewWrap GF875 with LPL Resin” (9:45 am)**

**Product Description:** RenewWrap GF875 is a dry, unidirectional reinforcing fabric made with high strength, standard modulus carbon fibers. RenewWrap ESR GF875 fabric, along with RenewWrap LPL Saturant are used to strengthen or retrofit existing concrete and masonry structures.

**Material Composition:** It is composed of dry E-glass fabric saturated with epoxy resin.

**Recommended Use:** It is recommended for use as seismic retrofit and strengthening of masonry elements, additional protection from environmental conditions, confinement of repaired elements, and insulation barrier between exposed steel and carbon fiber.

**Product meets GDOT Specification:** Product falls outside of current GDOT specification.

**Cost:** \$5-20 per sq ft of material

**Committee Recommendation:**

**Important Dates:**

**Notes:** Geotechnical Branch – Eugene Utsalo

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## **NPE# 2403-5 GeoTree, Inc. – “RenewWrap FRP System: RenewWrap MCU” (9:45 am)**

**Product Description:** RenewWrap MCU Products are made of unidirectional carbon fabric presaturated in an ISO9001 certified facility. They arrive on site in inspected, hermetically sealed pouches, ensuring high-quality products that are ready to be applied in the field. And with no VOCs and low odor. RenewWrap MCU repairs are user friendly and environmentally safe.

**Material Composition:** It is composed of factory saturated moisture cured urethane with carbon fabric.

**Recommended Use:** It is recommended for strengthening structures for an increase in load requirements due to code change or design error, containment and shear reinforcement, seismic retrofitting, and structural damage.

**Product meets GDOT Specification:** Product falls outside of current GDOT specification.

**Cost:** \$5-20 per sq ft of material

**Committee Recommendation:**

**Important Dates:**

**Notes:** Geotechnical Branch – Eugene Utsalo

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## **NPE# 2312-1 MST Rebar, Inc. – “MST Bar: Straight (#2-#11), Bent (#3-#10), Anchor Heads” (10:10 am)**

**Product Description:** Reinforcement bar for concrete reinforcement. There are 3 categories: straight, bent bar and anchor heads. MST Rebar Inc. has the capability to make different sizes of all but most common sizes are: Straight, No. 10M(#3), 13M(#4), 15M(#5), 20M(#6), 22M(#7), 25M(#8), 30M(#9), 32M(#10), and 35M(#11); Bent, No. 10(#3), 13(#4), 15(#5), 20(#6), 22(#7), 25(#8); Anchor heads, No. 15M(#5). All MST Products comply with CAN/CSA S807, CAN/CSA S806 and ASTM D7957 and B8505.

**Material Composition:** It is composed of glass (82% ECR Glass) and Vinyl Ester Resin (18%).



**Recommended Use:** The glass fiber rebars are intended to be used in reinforcement of concrete, that is mostly suitable for applications where corrosion is a problem. The product is virtually corrosion proof and due to its light nature is optimally used where man handling is required. It is currently used in buildings, roads, tunnels, bridges, parking garages, etc.

**Product meets GDOT Specification:** Product falls outside of current GDOT specification.

**Cost:** 10% lower than steel rebar

**Committee Recommendation:**

**Important Dates:**

**Notes:** Technical Assistance Bureau – Dr. Peter Wu

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