

NEW PRODUCTS EVALUATION COMMITTEE MEETING

May 8, 2025

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

NPE COMMITTEE

S. Jacob Walker	<i>Chair - OMAT</i>	Connie Coleman	<i>New Products Supervisor - OMAT</i>
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		Sydney Herrington	<i>New Products- OMAT</i>
		(404) 608-4865	OMAT Room 305

NPE COMMITTEE MEMBERS

Shahid Jenkins	<i>OMAT - Soil, Physical, & Chemical</i>	Tony Eadie – Design Engineer	<i>G.O. – Roadway Design</i>
(404) 608-4817	OMAT Room 306	(404) 631-1662	G.O. Roadway Design 27 th floor -Cubicle 2714
Steve Gaston – Assistant State Bridge Engineer	<i>G.O. - Bridge Design</i>	Paul Harvey	<i>Maintenance Liaison</i>
(404)-631-1881	<i>G.O. Bridge Office 24th floor</i>	(404) 608-4841	<i>Maintenance Activity Unit</i>
David Miranda C (404) 803-9627	<i>TMC - Traffic Operations</i>	David Neighbors	<i>G.O. – Construction</i>
(404) 635-2465	TMC - Bldg. 24	470-572-4856 (C)	G.O. 11 th Floor
Jose Hernandez-Ramirez – Design Engineer 3	<i>G.O. – Design Policy and Support</i>	Abdel Koundaba	<i>State Utilities Liaison</i>
404-631-1833	<i>G.O. 25th Floor</i>	404-631-1821	G.O. 10 th Floor
Daryl L. Williams - Environmental Compliance Bureau C (404) 326-5986	<i>Office of Engineering Services</i>	Ben Ruzowicz – Urban Program Manager	<i>GA Soil and Water Conservation Commission</i>
(404) 631-1763	G.O.	(706) 552-4475 Athens	4310 Lexington Rd
Eugene Utsalo	<i>Geotechnical Branch</i>	Rabindra Koirala –Bridge and Structural Design Engineer	<i>G.O. - Bridge Design & Maintenance</i>
(404) 608-4735	OMAT	(404)-635-2893	TMC – Bldg. 24
Shronica Holland	<i>Office of Transportation Data</i>		
(404) 347-0707	Transportation Data		

Time	*NPE # / Product*	*Guest(s)*	*Meeting type* (In Person, Phone Conf.)	*Phone Number*
9:05	NPE# 2409-1 Edyston – “Densygel”	Jon Belkowitz, PhD, PE jon@edystonconcrete.com		(719) 367-8092
9:25	NPE# 2502-4 Omnisight – “Fusion Sensor”	Aaron Pennell aaron@omnisightusa.com		(843) 628-5433
9:45	NPE# 2501-2 Wavelogix, Inc. – “Rebel”	Don Nielsen don@wavelogix.tech		(773) 457-9560
10:05	Break			
10:15	NPE# 2503-1 Trafficalm Systems– “Wrong Way Vehicle Detection System”	John Ragan jragan@trafficalm.com Bret McCain bmccain@universalsigns.com Anthony Montoya amontoya@universalsigns.com		(855) 738-2722 (772) 461-0665 (772) 242-9116 ext. 129
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Presentations

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OLD BUSINESS

NPE# 2408-2 Coatings International LLC – “Forever Bond 50-570-10FR”

Product Description: Forever Bond 50-570-10FR is a 100% polyurea spray elastomeric coating with outstanding physical properties with the ability to apply high film thickness and fast cure rates in 10 seconds. It has a Class I Fire Rating with great chemical resistance with high tensile strength and elongation. It has tremendous adhesion over concrete.

Material Composition: It is a two-component polyurea elastomer where the A side is a polymeric isocyanate and the B side is a composition of polyetheramines.

Recommended Use: It is recommended as a protective coating over concrete retaining walls and bridge embankments against water intrusion and providing crack resistance and leak protection to the environment.

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

Cost: at 60 mils thick \$1.95 sq. ft. coating cost

Committee Recommendation:

Important Dates:

Notes: David Neighbors – Construction Office, Shahid Jenkins – Physical and Chemical Branch

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NPE# 2405-1 CMC – “ASTM A1094 Galvabar”

Product Description: A1094 GalvaBar is Continuous Hot-dip Galvanized Rebar (CGR) that combines the corrosion protection of zinc and exceptional formability without peeling or flaking. Processed prior to fabrication, GalvaBar allows for seamless procurement of corrosion resistant rebar utilizing existing supply chains, ready for fabrication and delivery straight to the job site. Mechanistic performance in recent federally funded research shows that CGR is a more homogeneous and efficient use of zinc without iron and is equivalent to or better than a thicker zinc-iron alloy layered coating structure.

Material Composition ASTM A1094 is a pure Zinc metallurgical coating. Base material can be any metallic rebar such as A615, A706, etc.

Recommended Use: It is recommended as corrosion resistant reinforcing steel for bridges, marine structures, residential and commercial applications, mining projects as a better substitute to A767 HDG.

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

Cost: same cost or less than A767

Committee Recommendation:

Important Dates:

Notes: Ian Rish – Materials and Testing Office, Dr. Peter Wu – Technical Assistance Bureau, Jacob Walker – Testing Management Bureau

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NPE# 2410-1 Master Dowel – “Master Dowel GFRP Baskets”

Product Description: Master Dowel GFRP Baskets are fiberglass reinforced polymer dowels and .306 steel dowel bar baskets.

Material Composition: It is composed of Boron-free E-Glass greater than 75% by weight, and vinyl-based resin.

Recommended Use: It is recommended for joint plain concrete pavement construction and Dowel retrofits.

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

Cost: 1.25" Basket - \$5.32 LF; 1.5" Basket - \$6.79 LF

Committee Recommendation:

Important Dates:

Notes: Dr. Peter Wu – Technical Assistance Bureau, Jason Waters – Concrete Branch, David Neighbors – Construction Office

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NPE# 2412-1 Nukote Coating Systems International – “Nukote PP300”

Product Description: High performance polyurea/polyurethane hybrid liner that is utilized in full structural rehabilitation of culverts and pipes.

Material Composition: It is a two component polyurea/polyurethane spray applied liner.

Recommended Use: It is recommended for liner installation for the structural rehabilitation of culverts and pipes.

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

Cost: \$25-\$27/gallon (volume tiered pricing)

Committee Recommendation:

Important Dates:

Notes: Matthew Barber – Maintenance (District 4), Paul Harvey – Maintenance Office, David Neighbors – Construction Office, Eugene Utsalo – Geotechnical Branch

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NEW BUSINESS

NPE# 2409-1 Edyston – “Densygel” (9:05 am)

Product Description: DENSYGEL is engineered to chemically interact with the contaminants of damaged and deteriorated concrete. The interaction results in the formation of EDYSTON Concrete AntiBiotic® gel (calcium-silicate-hydrate or C-S-H gel), which enhances the mechanical properties of the repaired concrete, thereby improving its structural integrity and durability.

Material Composition: It is a Nano Silica-based composition.

Recommended Use: It is used in conjunction with concrete repair methods and materials for cracked, corroded, damaged, and deteriorated concrete.

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

Cost: \$3/sqft

Committee Recommendation:

Important Dates:

Notes: Peter Wu – Technical Assistance Bureau, Matthew Barber – Maintenance (District 4), Paul Harvey – Maintenance Office, David Neighbors – Construction Office, Amanda Sheldon – Concrete

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NPE# 2502-4 Omnisight – “Fusion Sensor” (9:25 am)

Product Description: The Fusion Sensor combines HD3D Radar with HD Video to accurately detect, track, and classify road and micro-mobility users including vehicles, pedestrians, and bicycles. With TrueEdge processing, this means no controller or processing units are required. With an on-board cellular modem, minimum infrastructure requires only power. This device is managed and updated over the air (OTA) using our online device portal, making installation and maintenance easy.

Material Composition: The product features an enclosure made of anodized aluminum, providing durability and environmental protection with IP66 and NEMA 4 compliance. It includes sensors such as an HD3D radar and a 1080p HD camera. Connectivity options are provided through 100BaseT Ethernet, 2.4 GHz wireless (FUSE-ANT only), and a 4G/5G LTE cellular (FUSE-SIM only), with a power and data connection via an RJ-45 PoE connector.

Recommended Use: It is recommended for traffic counts, truck parking, people counting, work zone safety, congestion and queuing alert systems, and adaptive traffic timing.

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

Cost: \$6,200 per unit

Committee Recommendation:

Important Dates:

Notes: David Miranda – Traffic Operations

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NPE# 2501-2 Wavelogix, Inc. – “Rebel” (9:45 am)

Product Description: Concrete sensor system that is deployed into wet concrete to produce a real time chart of strength vs time eliminating the need for cylinder breaks.

Material Composition: It is composed of rubber, epoxy, and plastic.

Recommended Use: It is recommended for measuring real time strength of curing concrete from inception through final specification strength (28 to 56 days).

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

Cost: \$200 per unit

Committee Recommendation:

Important Dates:

Notes: Amanda Sheldon – Concrete, Rusty Branch – Concrete

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NPE# 2503-1 Trafficalm Systems– “Wrong Way Vehicle Detection System” (10:15 am)

Product Description: WWVDS is a comprehensive wrong-way detection system that encompasses thermal radar vehicle detection, programmable logic controller enclosure with electronics (battery/solar panel for DC devices), flashing lights and camera. may be used in any concrete but is most applicable for concrete located in freeze-thaw environments where the potential for cracking due to drying shrinkage is prevalent and undesirable.

Material Composition: It is comprised of a controller, detectors, camera, enclosure with electronics, battery/solar panel for DC devices.

Recommended Use: It is recommended for use as a vehicle detection system, wrong way vehicle detection system.

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

Cost: \$44,024 AC / \$51,208 Solar per unit

Committee Recommendation:

Important Dates:

Notes: David Miranda – Traffic Operations

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