

# NEW PRODUCTS EVALUATION COMMITTEE MEETING

**August 30, 2018**

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

<b>NPE COMMITTEE</b>			
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<b>NPE COMMITTEE MEMBERS</b>			
<b>Neoma Cole</b>	<i>OMAT - Soil, Physical, &amp; Chemical</i>	<b>Tony Eadie – Design Engineer</b>	<i>G.O. – Roadway Design</i>
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<b>Steve Gaston – Assistant State Bridge Engineer</b>	<i>G.O. - Bridge Design &amp; Maintenance</i>	<b>Rodney Way</b>	<i>Maintenance Liaison</i>
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<b>Keith Murphy</b>	<i>TMC - Traffic Operations</i>	<b>Todd Wood – State Construction Liaison</b>	<i>G.O. – Construction</i>
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<b>Holly Cross – Senior Design Engineer</b>	<i>G.O. – Design Policy and Support</i>	<b>Shajan Joseph</b>	<i>State Utilities Construction Engineer</i>
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		(404) 347-0604	G.O. 10 <sup>th</sup> Floor
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<b>ASSISTING IN LOCATING FIELD TEST SITES</b>			
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Time	*NPE # / Product*	*Guest(s)*	*Meeting type* (In Person, Phone Conf.)	*Phone Number*
9:00	NPE# 1802-4 Kwik Bond Polymers, LLC – “PPC-1121”	Casey Rafter – <a href="mailto:casey@kwikbondpolymers.com">casey@kwikbondpolymers.com</a>	Phone Conf.	703-881-1772
9:15	NPE# 1805-1 CreteDefender – “CreteDefender P2”	Tom Nickell – <a href="mailto:tom@cretedefender.com">tom@cretedefender.com</a>	Phone Conf.	859-492-1532
9:30	NPE# 1805-5 Creative Pultrusions, Inc. – “SUPERPILE® FRP Pipe Piles”	Corey Sechler – <a href="mailto:csechler@pultrude.com">csechler@pultrude.com</a>	Phone Conf.	814-839-4186 ext. 291
9:45	NPE# 1805-6 Creative Pultrusions, Inc. – “SUPERLOC® FRP Sheet Piling”	Corey Sechler – <a href="mailto:csechler@pultrude.com">csechler@pultrude.com</a>	Phone Conf.	814-839-4186 ext. 291
10:00	NPE# 1805-7 Martin Asphalt Company – “Flexible GTR Bituminous Marker Adhesive”	Dolly Navarrete – <a href="mailto:dolly.navarrete@martinmlp.com">dolly.navarrete@martinmlp.com</a>	Phone Conf.	713-943-5200
10:15	<b>Break</b>			
10:30	NPE# 1805-8 Ennis-Flint, Inc. – “Stimsonite Model 201 Lens Cradle”	Kevin Garmon – <a href="mailto:kgarmon@ennisflint.com">kgarmon@ennisflint.com</a>	In Person	336-477-8363
10:45	NPE# 1805-9 E-Chem, LLC – “EPC-Overlay”	Dan Patacca – <a href="mailto:dan@e-chem.net">dan@e-chem.net</a>	In Person	505-217-2121
11:00	NPE# 1806-1 Dura-Line – “MicroDucts and FuturePath”	Olaf Storaasli – <a href="mailto:olaf.storaasli@duraline.com">olaf.storaasli@duraline.com</a>	In Person	865-274-3004
11:15	NPE# 1807-1 MH Corbin – “Connect:ITS”	Andrea Jones – <a href="mailto:ajones@mhcorbin.com">ajones@mhcorbin.com</a>	In Person	614-420-4830
11:30	NPE# 1807-2 MH Corbin – “Surface Scan”	Andrea Jones – <a href="mailto:ajones@mhcorbin.com">ajones@mhcorbin.com</a>	In Person	614-420-4830
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# OLD BUSINESS

**NPE #: 1510-4 – Durant’s “Stat-A-Flex” (11:45pm)**

**Product Description:** Two Part polyester resin sealant formulated for encapsulating & sealing electrical signal wire in any road surface

**Material Composition:** Unsaturated Polyester Resin, Methyl Ethyl Ketone Peroxide, hardener (organic peroxide)

**Recommended Use:** Protection of embedded signal wire such as traffic loop detectors, electrical signal wire & data/communication cable.

**Product meets GDOT Specification:** Product fall outside of current GDOT specification

**Cost:** \$24.00/ gallon

**Committee Recommendation:**

**Important Dates:**

**Notes:**

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# NEW BUSINESS

## **NPE #: 1802-4 – Kwik Bond Polymers, LLC’s - “PPC-1121” (9:00am)**

**Product Description:** PPC-1121 (Polyester Polymer Concrete) is a composite system made up of aggregates and polyester resin binder, with a High Molecular Weight Methacrylate (HMWM) primer. KBP certifies that all PPC-1121 components are designed to be compatible with one another. PPC is mixed on site in buckets, mortar mixers or mobile volumetric mixer units. PPC overlays can be placed by a vibratory screed or slip form paver (min ¾” thick).

**Material Composition:** HMWM primer flood coat, Polyester binder resin, Graded silica-quartz aggregates, Silica top sand

**Recommended Use:** Bridge preservation and rehabilitation; Concrete bridge deck overlay

**Product meets GDOT Specification:** No Existing GDOT Specification

**Cost:** \$90-\$120/ SY furnish & install

**Committee Recommendation:**

**Important Dates:**

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**NPE #: 1805-1 – CreteDefender, Inc.’s “CreteDefender P2™” (9:15pm)**

**Product Description:** CreteDefender P2™ is a water-carried concrete treatment that chemically reacts with the free lime in concrete to penetrate the pore and capillary structure. It permanently seals and protects concrete from salts, freeze/thaw cycles, sulfates, chloride ions, and water. It never needs to be re-applied during the concrete’s lifetime.

**Material Composition:** Water-based reactive sodium silicate, with surfactants and other ingredients that enhance performance on exterior concrete

**Recommended Use:** Protect concrete from damage caused by water, salt, other airborne chemicals, and abrasion. Limit and slow carbonation and chloride ion penetration, to protect rebar from corrosion. Prevent damage from sulfates and acid rain. Use on bridges and roads throughout the state, near the coast to protect from salt in the air, and to protect the floors of salt storage facilities.

**Product meets GDOT Specification:** No Existing GDOT Specification.

**Cost:** \$0.30-\$0.37/sf for product. Installation is \$0.20 - \$.35/sf depending on preparation needed.

**Committee Recommendation:**

**Important Dates:**

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**NPE #: 1805-5 – Creative Pultrusions, Inc.’s - “SUPERPILE® FRP Pipe Piles” (9:30am)**

**Product Description:** SUPERPILE® Composite Pipe Pile is manufactured with electrical grade fiberglass and high impact, high strength polyurethane resin. The combination of the advanced resin and high strength glass produces a superior strength, highly corrosion resistant pipe pile.

**Material Composition:** The SuperLoc® Composite Sheet Pile System can be produced using either a vinyl ester resin and fiberglass mix or a polyester resin and fiberglass mix.

**Recommended Use:** Dock Pile, Bearing pile, and fender systems

**Product meets GDOT Specification:** No existing GDOT Specification

**Cost:**

**Committee Recommendation:**

**Important Dates:**

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**NPE #: 1805-6 – Creative Pultrusions, Inc.’s - “SUPERLOC® FRP Sheet Piling” (9:45am)**

**Product Description:** SuperLoc® Composite Sheet Pile System, a FRP composite system, is manufactured by the pultrusion process and is designed and manufactured to provide a solution for deteriorated waterfront structures subjected to the harsh marine environment.

**Material Composition:** The SuperLoc® Composite Sheet Pile System can be produced using either a vinyl ester resin and fiberglass mix or a polyester resin and fiberglass mix.

**Recommended Use:** Wavebreaks, Retaining Walls, Water control, Land Stabilization, Bridge Abutments, Erosion Control, Stay-In-Place Forms, Storm Surge/ Flood Protection and Containment/ Cut-off Walls

**Product meets GDOT Specification:** No Existing GDOT Specifications.

**Cost:**

**Committee Recommendation:**

**Important Dates:**

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**NPE #: 1805-7 – Martin Asphalt Company’s – “Flexible GTR Bituminous Marker Adhesive” (10:00am)**

**Product Description:** Hot melt flexible Bituminous Marker Adhesive, modified with polymers and Ground Tire Rubber.

**Material Composition:** Blend of asphalts, virgin polymers, recycled tires (GTR), and inert mineral fillers

**Recommended Use:** To permanently bond retroreflective pavement markers to Portland cement concrete and asphalt concrete surfaces.

**Product meets GDOT Specification:** No Existing GDOT Specification

**Cost:** \$0.55/pound

**Committee Recommendation:**

**Important Dates:**

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**NPE #: 1805-8 – Ennis Flint, Inc.’s “Stimsonite Model 201 Lens Cradle” (10:30am)**

**Product Description:** A poly carbonate cradle casting which is attached to a replaceable prismatic retroreflector for reflecting light from a single or opposite direction. The casting has two tabs for placing the casting at an optimal depth to eliminate snowplow blade hits. The replaceable retroreflective maker fits and adheres to the polycarbonate cradle through the use of an approved adhesive.

**Material Composition:** Polycarbonate plastic

**Recommended Use:** Designed to be used in conjunction with centerline and edge line approved markings in order to enhance delineation especially in wet night conditions. Raised pavement markers are a safety device used to improve delineation and increase preview time, particularly under wet conditions, and have been shown to decrease crash rates on highways with raised pavement marker center lines by approximately 0.5 crashed per million vehicle miles.

**Product meets GDOT Specification:** No Existing GDOT Specification

**Cost:** \$3.00 each 201 cradles plus lens

**Committee Recommendation:**

**Important Dates:**

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**NPE #: 1805-9 – E-Chem LLC’s – “EPC-Overlay” (10:45am)**

**Product Description:** 100% solids, solvent free, moisture insensitive, high performance, multi-purpose epoxy polymer concrete overlay system (3/4”-10” cross sections). This is an alternative to polyester concrete overlays.

**Material Composition:** polymer resin and aggregate

**Recommended Use:** Bridge deck overlays and joint headers, concrete spalls, grade correction, etc.

**Product meets GDOT Specification:** Product falls outside of current GDOT specification; 100% solids, solvent free, moisture insensitive, high performance, multi-purpose epoxy polymer concrete overlay system (3/4”-10” cross sections)

**Cost:**

**Committee Recommendation:**

**Important Dates:**

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**NPE #: 1806-1 – Dura-Line’s “MicroDucts and FuturePath” (11:00pm)**

**Product Description:** MicroTechnology is a term given to the practice of reducing the structure size in outside plant infrastructure size in outside plant infrastructure. MicroDucts are small conduits (from 0.2” OD to 0.9” OD) developed as a solution to house fiber cables that were smaller in size but still carried significant capacity, today up to 432 fiber strands. The glass fibers are the same type as used in traditional fiber cables, only the cable design has advanced to reduce the size of the cable sheath and support system. MicroCables are designed to be installed by the air-jetting or High Air Speed Blowing (HASB) method, eliminating the labor intensive need to pull the cables through conduits. Typical distances up to 4,000 feet or greater can be obtained with the use of HASB and MicroTechnology. Future Path products are bundled and jacketed MicroDucts, ranging from 2 to 24 Microducts in a bundled/ jacketed configuration. MicroDucts are FuturePath are commonly utilized in the telecommunications and transportation industries, including many DOT applications in other states.

**Material Composition:** High Density Polyethylene (HDPE)

**Recommended Use:** Pathways for rapid/easy installation fiber optic cable. A form of conduit or duct.

**Product meets GDOT Specification:**

**Cost:** 20-50% material cost reduction versus current GDOT products used

**Committee Recommendation:**

**Important Dates:**

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**NPE #: 1807-1 – MH Corbin’s “Connect:ITS” (11:15pm)**

**Product Description:** Roadside system controller used to gather, analyze, and communicate information in real-time to multiple sensors (including 3<sup>rd</sup> party sensors). The system has built-in preprogrammed intuitive logic that is able to perform multiple functions simultaneously.

**Material Composition:** The Connect ITS is in either a 19” rack amount or din rail configuration. It is composed with an Intel processor, Linux operating system. Internal Skywire modem and LCD Display. Ethernet, RS232, RJ485 connections are present with cellular, GPS and DSRC antenna capabilities.

**Recommended Use:** ITS projects and applications. It is ideal to manage input from multiple sensors, apply (if/then – and/or) logic, to perform multiple functions simultaneously such as send text alerts/messages to the police department and TMC operators, turn-on flashing beacons, send messages to VMS signs, etc. It is designed as a solution for multiple situations that occur on roadways such as wrong way vehicle detection, advanced curve warning, advanced queue detection warning, and weather-related issues including high wind, snow, ice, and low visibility.

**Product meets GDOT Specification:**

**Cost:** \$6,200 roadside controller only (does not include sensors, cabinet, cables, etc.)

**Committee Recommendation:**

**Important Dates:**

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**NPE #: 1807-2 – MH Corbin’s “Surface Scan” (11:30pm)**

**Product Description:** The Surface Scan is a vehicle-mounted mobile weather sensor. It measures road surface temperature, air temperature, relative humidity, and dew point. It displays live readings using a dash-mounted graphical display.

**Material Composition:** The Surface Scan is composed of a Markroblend EL 703 Polycarbonate plastic housing, a non-contact IR surface temperature sensor and an air temperature/relative humidity sensor. A Bluetooth interface (SSBI-1) powers and connects with the probes to an android driven display module.

**Recommended Use:** The Surface Scan can be used to detect freezing temperatures on the pavement to determine where frost or black ice may form when precipitation occurs.

**Product meets GDOT Specification:**

**Cost:** \$1,300

**Committee Recommendation:**

**Important Dates:**

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