

FHWA Virtual Workshop

Non-Destructive Testing and Intelligent Construction Technologies during Asphalt Construction Workshop

Part I



Date and Time

Tuesday, March 18, 11:00 a.m. to 1:00 p.m. Eastern

Objectives

- Overview of non-destructive testing and intelligent construction technologies for asphalt paving.
- Summarize PMTP, IC, DPS, Veta: capabilities, shortfalls, and appropriate usage.
- Share ICT implementation strategies to improve quality, safety, asset management/performance, and to reduce costs.

Workshop Agenda

Time	Topics
11:00 AM to 11:30 AM	Introduction and Overview
11:30 AM to 12:15 PM	Paver Mounted Thermal Profile (PMTP)
12:15 PM to 01:00 PM	Intelligent Compaction (IC)

Moderator

- Monica Jurado, Pavement and Material Engineer, FHWA, Email: monica.jurado@dot.gov

Speakers

- Dr. George K. Chang, P.E., Director of Research, The Transtec Group, Email: GKchang@TheTranstecGroup.com
- Ms. Amanda L. Gilliland, P.E., Project Manager, The Transtec Group, Email: AmandaG@TheTranstecGroup.com
- Dr. Subu Sankaranarayanan, Project Manager, The Transtec Group, Email: Subu@TheTranstecGroup.com

Dr. George Chang is an expert on pavement smoothness, intelligent compaction, and construction technologies. Dr. Chang founded the International Society for Intelligent Construction (ISIC). His research, teaching, specification development, and software tools (such as ProVAL and Veta) have helped make significant technological advancements in the above fields. Dr. Chang has been the principal investigator for numerous projects that enhance pavement materials/structures, surface characteristics, etc., in the past three decades.

Amanda Gilliland, P.E., has extensive experience in the design, analysis, and construction of pavement systems. She completed Transverse Pavement Profile (TPP) system certification and verification according to AASHTO PP106, PP107, PP108, PP109, and PP110 under the Transportation Pooled Fund (TPF)-5(299)/(399) DQMP project. She has worked in the field for most of her career in quality control and quality assurance for pavement construction..

Dr. Subu Sankaranarayanan has extensive experience in the analysis, design, instrumentation, and testing of flexible pavement systems using modern technologies such as accelerated pavement testing and non-destructive testing. During his PhD, Subu helped develop a laser profilometer capable of measuring pavement surface profiles under laboratory conditions using a line laser mounted on a servo-controlled actuator. He also helped develop several informational and training materials for TxDOT on centrifuge testing of expansive clays and soil-geosynthetic interaction tests to characterize geogrids for use as base reinforcement.

Who Should Attend

FHWA, DOTs, agencies, contractors, consultants who are interested in implementing ICT on asphalt paving projects.

PDH/CEU

All attendees will receive workshop certificates with 2 units of PDH or 0.2 units of CEU for completing the workshop.

Registration

Please sign up the workshop using this link or scan the following QR code. Registration is required to receive the PDH/CEU and the workshop PDF handouts.

- Registration link <https://forms.gle/HWwW9ysUNKwW3RBD8>
- QR code



Meeting Link

Please use the following Zoom link and passcode to attend this webinar:

<https://usdot.zoomgov.com/j/1617333726?pwd=Rg0r80jAmWC72dJmqPGKSRQCjzXM77.1&from=addon>

Meeting ID: 161 733 3726

Passcode: 414767