



## IICTG 2017 Conference

Minneapolis, MN

September 26 to 28, 2017

### **Agenda At-a-Glance**

| <b>TUESDAY, SEPTEMBER 26</b>   |  |
|--------------------------------|--|
| 08:00 AM – 12:00 PM            | IC-TP ETG Meeting                                      |
| 01:00 PM – 05:00 PM            | Vendors Setup; ICDM/Veta Workshop                      |
| 06:00 PM – 08:00 PM            | <i>Ice Breaker Reception</i>                           |
| <b>WEDNESDAY, SEPTEMBER 27</b> |  |
| 07:00 AM – 08:00 AM            | <i>Breakfast/Vendor Exhibits</i>                       |
| 08:00 AM – 09:30 AM            | Session 1 – Welcome and Keynotes Speeches              |
| 09:30 AM - 10:00 AM            | <i>Break/Vendor Exhibits</i>                           |
| 10:00 AM – 12:00 PM            | Session 2 – Keynotes Speeches                          |
| 12:00 PM - 01:00 PM            | <i>Lunch/Vendor Exhibits</i>                           |
| 01:00 PM – 02:30 PM            | Session 3 – ICT Research I                             |
| 02:30 PM – 03:00 PM            | <i>Break/Vendor Exhibits</i>                           |
| 03:00 PM – 05:00 PM            | Session 4 – ICT Research II                            |
| 05:00 PM – 06:00 PM            | IICTG Open Business Meeting                            |
| 05:00 PM – 06:00 PM            | Drone Inspection Demo at Stone Arch Bridge             |
| 06:30 PM – 09:00 PM            | <i>Banquet</i>   |
| <b>THURSDAY, SEPTEMBER 28</b>  |  |
| 07:00 AM – 08:00 AM            | <i>Breakfast/Vendor Exhibits</i>                       |
| 08:00 AM – 10:00 AM            | Session 5 – CIM Workshop                               |
| 10:00 AM - 10:30 AM            | <i>Break/Vendor Exhibits</i>                           |
| 10:30 AM - 12:00 PM            | Session 6 – ICT Solutions I                            |
| 12:00 PM - 01:00 PM            | <i>Lunch/Vendor Exhibits</i>                           |
| 01:00 PM – 02:30 PM            | Session 7 – ICT Solutions II                           |
| 02:30 PM - 02:45 PM            | <i>Break</i>   |
| 02:45 PM - 05:30 PM            | Session 8 – ICT Case Studies and Open Panel Discussion |
| 05:30 PM – 05:45 PM            | Closing, 2019 meeting, and Farewell                    |



## Tuesday, September 26

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| <b>08:00 AM – 12:00 PM</b><br><b>IC-TP ETG Meeting</b>   |  | <b>Moderator: Curt Turgeon, MnDOT</b>  |
| <p>Intelligent Compaction (IC) and Thermal Profiling (TP) Expert Task Group (ETG) Meeting</p> <p>The meeting is by-invitation only.<br/>Contact IICTG if you like to sit in.</p>   |  | Curt Turgeon, MnDOT  |
| <b>01:00 PM – 05:00 PM</b><br><b>Intelligent Construction Data Management/Veta Workshop</b>  |  | <b>Moderator: George Chang, Transtec Group, USA</b>  |
| <p>Hands-on Training on Using Veta for Intelligent Construction Data Management (ICDM) – Viewing, Analysis, and Reports</p> <p>Detailed agenda and software instructions are posted on the conference website</p> <p>This training workshop is open to all registered IICTG 2017 attendees and TPF-5(334) members. Participants are highly recommended to bring their own laptop computers (64-bit is required) for the hands-on exercise.</p> |  | <p>Trainers and Assistants:</p> <p>George Chang, Transtec Group<br/>Rebecca Embacher, MnDOT<br/>Mr. Curt Turgeon, MnDOT<br/>Mr. Mike Johnson, MnDOT<br/>Mr. Jim Schneider, MnDOT<br/>Mr. Randy Tilseth, MnDOT<br/>Eyoab Zegeye, American Engineering Testing</p> |
| <b>06:00 PM–8:00 PM</b><br><b>Ice Breaker Reception</b>  |  |  |
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| <p>All IICTG attendees are welcome!</p> <p>Enjoy and Mingle!</p>   |  |  |



## Wednesday, September 27

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| <b>08:00 AM – 09:30 AM</b>   |   |
| <b>Session 1 – Welcome and Keynotes Speeches</b>   |   |
| <b>Moderator: Curt Turgeon, MnDOT</b>  |   |
| Welcome from Local Host  | Christopher Roy, MnDOT, USA   |
| Introduction to IICTG  | George Chang, Transtec Group; IICTG president, USA                    |
| The Future of Highway Construction   | Connie Yew, FHWA, USA   |
| Intelligent Compaction in Europe: Harmonization, standardization & management                          | Antonio Correia, U. of Minho, Portugal                                |
| <b>10:00 AM – 12:00 PM</b>   |   |
| <b>Session 2 – Keynotes Speeches</b>   |   |
| <b>Moderator: Tim Aschenbrener, FHWA, US</b>   |   |
| Intelligent Compaction in the US   | Michael Arasteh, FHWA, USA  |
| Intelligent Compaction in China  | Guanghui Xu, Southwest U., China<br>George Chang, Transtec Group, USA |
| Intelligent Compaction Research  | Soheil Nazarian, UTEP, USA  |
| Vendors' Brief Introduction  | All sponsors and exhibit vendors                                      |
| <b>01:00 PM – 02:30 PM</b>   |   |
| <b>Session 3 – Intelligent Construction Research I</b>   |   |
| <b>Moderator: Soheil Nazarian, UTEP, USA</b>   |   |
| NCHRP 24-45 Soils Intelligent Compaction Study   | Mehran Mazari, California State U LA, USA                             |
| Intelligent Compaction Meter Values (ICMV) for Oscillating Rollers                                     | Johannes Pistor, Vienna U, Austria                                    |
| Models, Indexes and Classification of CCC & IC   | Guanghui Xu, Southwest U., China<br>George Chang, Transtec Group, USA |
| <b>03:00 PM – 05:00 PM</b>   |   |
| <b>Session 4 – Intelligent Construction Research II</b>  |   |
| <b>Moderator: William Stone, MoDOT, USA</b>  |   |
| Addressing the Challenges and the Return on Investment for Paperless Project Delivery (e-Construction) | Richard Duval, FHWA, USA  |
| Monitor Asphalt Temperature Segregation with Paver-Mounted Thermal Profilers                           | Paul Angerhofer, MOBA, Germany/USA                                    |
| Continuous Asphalt Density Measurement with GPR-based Rolling Density Meters                           | Kyle Hoegh, MnDOT, USA  |
| Use UAS for Bridge Inspection  | Jennifer Wells, MnDOT, USA  |
| <b>05:00 PM – 06:00 PM</b>   |   |
| <b>IICTG Open Business Meeting</b>   |   |
| <b>Moderator: George Chang, IICTG President</b>  |   |
| All attendees are welcome to attend and share the IICTG Visions/Future Conferences and Activities      | George Chang, Transtec Group, USA and IICTG Committee members         |
| <b>05:00 PM – 06:00 PM</b>   |   |
| <b>(Optional) Drone Inspection Demo at Stone Arch Bridge</b>   |   |
| <b>Moderator: Jennifer Wells, MnDOT</b>  |   |
| It is an optional walking trip to the Stone Arch Bridge  | Further instructions will be provided                                 |



**Thursday, September 28**

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| <b>08:00 AM – 10:00 AM</b>   |   |
| <b>Session 5 – Civil Integrated Management (CIM) Workshop</b>  | <b>Moderator: Lance Parve, WisDOT, USA</b>  |
| Emerging Trends in Model-based Design-Construction   | Lance Parve, WisDOT, USA  |
| Lifecycle Modeling: Case Studies of 3D Model Use in Design, Construction and Operation-Maintenance                 | Chris Johnson, CH2M, USA  |
| Industry Foundation Classes (IFC), Models and Collaborative Data Sharing for Construction                          | Jay Vose, Ineight/Kiewit, USA   |
| Use of UAS and Wireless Sensor Systems for Achieving Intelligent Construction Monitoring and Management Practices  | Halil Ceylan, ISU, USA  |
| Interactive Q and A  | All Speakers  |
| <b>10:30 AM - 12:00 PM</b>   |   |
| <b>Session 6 – ICT and IC Solutions I</b>  | <b>Moderator: Todd Mansell, Caterpillar, USA</b>  |
| Caterpillar's Solutions for Intelligent Construction   | Bryan Downing, Caterpillar, USA   |
| TOPCON's Solutions for Intelligent Construction  | Jim Preston, TOPCON, USA  |
| Trimble's Solutions for Intelligent Construction   | Kevin Garcia/Brian Girouard, Trimble, USA   |
| <b>01:00 AM - 02:30 PM</b>   |   |
| <b>Session 7 – ICT and IC Solutions II</b>   | <b>Moderator: Todd Mansell, Caterpillar, USA</b>  |
| Hamm-Wirtgen's Solutions for Intelligent Construction  | Tim Kowalski and Laikram Narsign, Hamm-Wirtgen, Germany/USA   |
| Dynapac's Solutions for Intelligent Compaction   | Fredrik Akesson, Dynapac-Fayat Group, Sweden/USA  |
| Volvo's Solutions for Intelligent Compaction   | Bill Laing, Volvo, USA  |
| <b>02:45 PM – 05:30 PM</b>   |   |
| <b>Session 8 – ICT Case Studies and Open Panel Discussion</b>  | <b>Moderator: Rebecca Embacher, MnDOT, USA</b>  |
| 3D Paving inside US Bank Stadium   | Shawn Bloch, Park Construction, USA   |
| Validation of Intelligent Compaction to Characterize Pavement Foundation Mechanical Properties at Illinois Tollway | David White, Ingios Geotechnics, USA  |
| IC Implementation in California  | Blair Anderson, Caltrans, USA   |
| IC and PMTP Implementation in MN   | Rebecca Embacher, MnDOT, USA  |
| Open Panel Discussion: Specification and Standards, Big Data Managements, Challenges and Solutions                 | Moderator: Curt Turgeon, MnDOT<br>Panel Members:<br>Michael Arasteh, FHWA, USA<br>Rebecca Embacher, MnDOT, USA<br>Larry Ilg, ORDOT, USA |



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|  | Antonio Correia, U. Minho, Portugal<br>Soheil Nazarian, UTEP, USA<br>Erv Dukatz, Mathy Construction, USA<br>Don Mathews, Pavement Recycling System, USA<br>Brent Carron, Valley Paving, USA<br>Blair Scheibel, RDO, MN, USA<br>Tim Kowalski, Hamm-Wirtgen, Germany/USA<br>Tom Abell, Ziegler CAT, USA |
| <b>05:30 PM - 05:45 PM</b><br><b>Closing, Invite to IICTG 2019, and Farewell</b> | <b>Moderator: George Chang, IICTG President</b>   |
| Acknowledgement<br>Introduction to IICTG 2019 Conference in China                | Curt Turgeon, MnDOT, USA (host)<br>Guanghui Xu, Southwest U., China<br>Renwu Xie, China Roads, China<br>IICTG 2019 Organization Committee   |