



Meeting Minutes: NRRRA Intelligent Construction Technologies (ICT) Team (Meeting No. 6)

(Agency & Associate Member Meeting)

Date: April 4, 2019
 Minutes prepared by: Rebecca Embacher
 Location: Skype

Attendance

Agency Members

Participated	Affiliation	State Contact	e-mail
<input type="checkbox"/>	California	Deepak Maskey	deepak.maskey@dot.ca.gov
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<input type="checkbox"/>	Illinois	Brian Hill	Brian.Hill@illinois.gov
<input checked="" type="checkbox"/>	Minnesota	Rebecca Embacher	rebecca.embacher@state.mn.us
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<input type="checkbox"/>	North Dakota	Curt Dunn	cdunn@nd.gov
<input type="checkbox"/>	North Dakota	Amy Beise	abeise@nd.gov

Associate Members

Participated	Affiliation	Contact	e-mail
<input type="checkbox"/>	American Engineering and Testing, Inc.	Derek Tompkins	dtompkins@amengtest.com
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<input type="checkbox"/>	The University of Texas at El Paso	Nazarian Soheil	nazarian@utep.edu
<input type="checkbox"/>	GSSI	Roger Roberts	roger@geophysical.com
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<input type="checkbox"/>	Leica Geosystems	Brad Adams	brad.adams@leicaus.com
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<input type="checkbox"/>	Midstate Reclamation & Trucking, Inc.	Dan Schellhammer	dans@midstatecompanies.com
<input type="checkbox"/>	Midstate Reclamation & Trucking, Inc.	John Peterson	johnp@midstatecompanies.com
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<input type="checkbox"/>	WSB & Associates, Inc.	Mike Rief	mrief@wsbeng.com

Friends

Participated	Affiliation	State Contact	e-mail
<input type="checkbox"/>	FHWA – MN	Kevin Kliethermes	Kevin.Kliethermes@dot.gov
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<input type="checkbox"/>	North Dakota	Jordan Nehls	
<input type="checkbox"/>	North Dakota	Darin Lindblom	
<input type="checkbox"/>	North Dakota	Carey Schreiner	

Other Attendees:

Decisions Made

- None at this time.



Action items

- NRRRA ICT Team | Send Embacher breakout topic ideas for NRRRA Pavement Workshop.
- NRRRA ICT Team | Review BIM for Pavements Workshop agenda and send any recommendations and/or comments to Embacher.
- Embacher | Let technical liaison (TL) for seismic project know that Hoegh and Maser are interested in participating on technical advisory panel (TAP).

Agenda

- Project Updates
- Draft Agenda for BIM for Pavements Workshop
- NRRRA Workshop Presentations
- August NCAT Demonstration Project

Next Meeting

Date: April 4, 2019

Time: 10:30-11:30AM Central Time

Location: Skype

(no conference call will be used; skype audio is also available via smart phone application if needed)

Agenda items: TBD

Meeting Notes

NRRRA Workshop in Minnesota (May 21 – 23, 2019)

(Embacher / Worel)

- May 21 – BIM for Pavements (University of Minnesota – St Paul)
- May 22 – NRRRA Focus Workshop (City of Maple Grove, MnROAD tour, Reception)
 - Team Overviews (Team leads or designee)
 - Committee Breakout Topics Needed (due in March) – 1 hour/Team
- May 23 – NRRRA formal Conference (University of Minnesota – St Paul)
 - Committee Breakout Topics Needed (due in March) – 2 hour/Team



Possible ideas generated were:

- 1 Hour Session Ideas:
 - E-Ticketing Specifications and Lessons Learned – couple state perspectives, or
 - State Experience with the Use of Automated Machine Guidance in Milling, Paving and Excavation Activities

- 2 Hour Session Ideas:
 - Focus on Intelligent Compaction (IC) and Paver Mounted Thermal Profile (PMTP) Technologies – split 2 hours as follows:
 - How to build an IC and PMTP program (project selection, where to focus energy, tips for spreading workload) – 30 Minutes
 - Identification of Asphalt Workmanship Issues using the Paver Mounted Thermal Profile and Intelligent Compaction Method (includes Veta software demonstration) – 1.5 hours

NCAT Demonstration Projects (70th and 80th Streets near MnROAD)

(Embacher / Worel)

Focus on Building Information Modeling (BIM) as another focus of the demo projects. Ben will discuss the items below with the NCAT team.

- Creation of 3D Models.
- Inclusion of models as contract document and not through the reference information documents (RID). Would include a digital signature.
- Automated Machine Guidance – Milling Method (3D Milling)
- Automated Machine Guidance – Paving Method (3D Paving)
- E-Ticketing
- Paver Mounted Thermal Profiling
- Intelligent Compaction
- Dielectric Profile Method (equipment demonstrations by various vendors)
- High density of testing to assist with establishment of testing protocol for assistance with compliance with the 23 CFR 637 for the IC and PMTP technologies.