

NRRA PM Minutes
May 4, 2022 (2:30 – 3:30pm, CDT)

PM Team link - <http://www.dot.state.mn.us/mnroad/nrra/structure-teams/preventive-maintenance/index.html>

Subscribe to the NRRA Channel - <https://www.youtube.com/channel/UCPqdt93L6aIOyPDCLiHvDug>

Project Pages: Visit for updates on individual projects

1. **Welcome** – Joel Uring – Chair. 21 attendees at the start
2. **Changes or additions to the Agenda** Discuss the MTC&E PM team agenda
3. **Calendar meeting notices for 2022 NRRA Team meetings have be sent.**
4. **Current Membership** – see [NRRA PM Team Members](#) Web Page
 - A. 35 DOT Agency Members: CA, IA, IL, MI, MS, MN, MO, ND, WI,
Other Agency Members: IL Tollway, MN LRRB
 - B. 28 Associate members
5. **New Members or First Time Attendees**
New Members: none
6. **Presentation – North Dakota DOT – PM Treatments Study**
Stephanie Weigel & Jordon Nehls (maintenance office). Short pptx on hwy 1804, 30 miles south of Bismarck. Using PM treatments. Would have been a typical mill and overlay. Try 8 different test sections. 3 miles segments. Will construct in 2023! Last treatment was a 2011 chip seal. IRI about 95-114. **Objectives:** how easy to construct, develop specs (if needed), evaluate performance, can we use RAP, encourage Districts to try these methods. Test sections: Double chip seal, cape seal, both with RAP, RAP double micro, UTBWC, 9.5mm NMAS , 4.75 NMAS, maybe a 2" overlay. Likely micro mill everything. Talked with industry. Evaluate by: visual, pathways, profilograph. From Ben Worel – feds are talking about a similar program, we should keep in touch. Get pretreatment condition. Pete Kemp – what is the pavement life extension!! Ashley Buss – RAP micro – will it need more processing – this is TBD. The RAP will likely need additional processing. Joel Uring – MnDOT will do a RAP micro surfacing project in 2022. Paul Denkler – Vance brothers is talking to MODOT about using RAP for micro surfacing.
7. **NRRA Update - Ben Worel.** MnROAD construction is starting May 23, with milling. CS McCrossan is the contractor. Website will have construction updates.
8. **Minnesota Transportation Conference and Expo/NRRA Meeting Update**
The conference and NRRA Meeting, St. Paul, MN River Center, May 17-19, 2022. Lauren Dao – there is a booth sign up sheet for the NRRA booth. Innovation showcase will have 25 minute presentations during the event. NRRA annual meeting is Tuesday pm. Reception on Tuesday night. Friday MnROAD tour!

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9. Phase II Research

Thinlay as a PM Treatment – Principal Investigator, Andrea Blanchette, Terracon Technical Liaison, Ashley Buss, Iowa DOT. No update

PM Team Co-sponsored Projects

Reclamation and Recycling Techniques to Achieve Perpetual Pavements Characteristics – Emil Bautista, Flex Team (co-sponsored with Geotech, ICT, and PM teams). No update

Road Resiliency, PM and Extreme Events (flooded roadways) – Raul Velasquez, Geotech Team (co-sponsored with PM Team). From Raul, task one is done. A summary report for the survey is being reviewed.

10. Update on Other Projects:

- **Spray on Rejuvenator Test Sections** – Michael Vrtis, MnDOT. No update.
- **Bio-Materials Maintenance Treatments** – Chris Williams, ISU. No update.

11. Research Pays Off Presentations

Upcoming [“Research Pays Off”](#) webinar presentation:

May	No webinar - Mn Transportation Conference/NRRA Annual Mtg.
June	"ICT (Intelligent Construction Technologies) as a Service and for Compliance – How ICT Research has led to the Removal of Technicians from Construction Sites in the UK" presented by Ruairi Charlesworth of Highway Data Systems. This talk will discuss HDS technology, how ICT can be delivered as a service and explain how ICT is being used for asphalt testing compliance in the UK and Ireland.

12. Round Robin

PM Team- Join the NRRA Preventive Maintenance Team as they meet to hear updates from multiple current projects and discuss future agency needs in the field of preventive maintenance.

1. Welcome and Introductions (2 min)- Jerry
2. Review of NRRA Preventive Maintenance Team Efforts; Past, Present & future – (10 min) Jerry **Lauren to check on internet.**
3. Presentations
 - The Smooth Side of Pavement Preservation - Micro milling and surface treatments – (20 min) Jerry
 - Spray applied rejuvenators - Update of testing at MnROAD and St. Michael 15th street – (25 min) speaker **TBD**

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- **Service Life Enhancement of Substrates Overlayed with Thin Overlays – (25 min)**
Sheue Lee
- Bio-Materials Maintenance Treatments – (25 min) **Chris Williams**
- 4. Future of NRRA Preventive Maintenance Team (10 min) – Agency Members (DOT's) PM Needs
- 5. Discussion/Questions

From Ben Worel – looking for ideas to the low volume loop 550' HMA section and 550' or PCC (cells 31 and 32). Sattar Dorafshan, Univ of ND – are we collecting GPR, temp data, =yes for temp.

“2022 Call for Construction” MnROAD Low-Volume Road Sections Available

Looking for new partnerships / research ideas

- Low Volume Road allows greatest risk/innovation
- Need for immediate repairs
- Could be Concrete / Asphalt / Reclamation
- Want to maximize research opportunities

Open Test Sections (550 feet each)

- Existing HMA – Cell 31 (2004)
 - 4" Taconite HMA / 12" granular base / Clay
- Existing PCC – Cell 32 (2000)
 - 5" PCC / 7" granular base / Clay

Contact - ben.worel@state.mn.us



13. Next Meeting

June 1, 2022 at 2:30 PM (CDT)