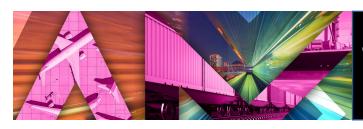
# Transportation Research Board (TRB) Annual Meeting Update

NDDOT Lunch & Learn February 28, 2019



## TRB 2019 Annual Meeting

#### Convening the Transportation Community for 98 Years

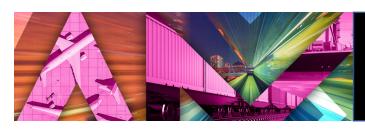
- Washington, DC; January 13-17, 2019
- 13,000 Attendees (at least registered)

#### Purpose

- Opportunity to share knowledge and perspectives with colleagues.
- Learn about the latest developments in transportation research, policy, and practice.

#### Size & Scope

- 5000 Presentations
- 800 Sessions & Workshops
- +200 Committee, Subcommittee, & Task Force Meetings



## North Dakota Attendees

NDDOT Attendee	Travel Sponsor		
Tyler Wollmuth	NDDOT		
Rebecca Geyer	NDDOT		
Chad Orn	NDDOT		
Nancy Huether	Midwest Bridge Preservation Partnership		
Amy Beise	National Road Research Alliance		
Jeani Borchert	TRB Committee Member Scholarship		
Karin Mongeon	University of Minnesota (Invited Panelist)		
Clayton Schumaker	National Road Research Alliance		
Matt Linneman	TRB State Representative		

#### **Other ND Attendees**

Jen Turnbow – KLJ

Andrew Wrucke – UGPTI/NDLTAP

NDSU & UND Professors & Researchers



#### Lunch & Learn Presentations

- Six Presenters
- Each Presenter will provide:
  - Implementable Ideas
  - Perspective on their TRB involvement/experience
  - Relationships or Connections Made
- Feel free to ask questions as we go



# Tyler Wollmuth

Bismarck District Construction Team Leader

twollmuth@nd.gov

(701) 328-6958



#### Poster Presentation

Technology Transfer Poster Presentation – Tyler Wollmuth

Subject - NDDOT Transportation Innovation Program (TRIP)

- Each poster presentation is scheduled for 1 hour 45 min
- 318 total spaces for posters
- Good opportunity to make contacts bring business cards
- Most people look at heading and pictures





# Subjects I attended

- Cold In Place Asphalt Recycling
- Tack Coat Research and Recommendations
- State DOT Innovation Programs
- Advancing Asphalt Pavements
- Chip Seal Research
- Glow in the Dark Bike Paths
- Paving and Maintaining the Indy 500 racetrack



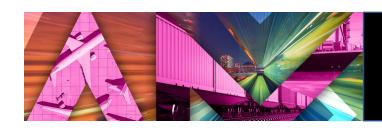




## Implementable Idea

- Tack Coat Usage on HMA Paving projects
  - Research indicates that most States should be applying more tack coat.
  - Research project concluded that 0.07 GAL/SY
     of tack coat is the appropriate amount to use
     between lifts of HMA and that 0.08 to 0.10
     GAL/SY is the amount to use on gravel base or
     milled surfaces.
  - NDDOT currently uses 0.05 GAL/SY.
  - Also, the use of spray pavers showed favorable results.





# Team ND Night

#### Team ND Night at Founding Farmers DC

- Took 2 attempts because of a blizzard on the 1<sup>st</sup> attempt...even in DC we get snowed out.
- Founding Farmers is owned by ND Farmers
   Union Co-op
- Getting to know fellow NDDOT employees
- Social Interaction is a big part of meeting people at TRB





## Rebecca Geyer

Planning & Asset Management Division Planning & Rail Section Leader

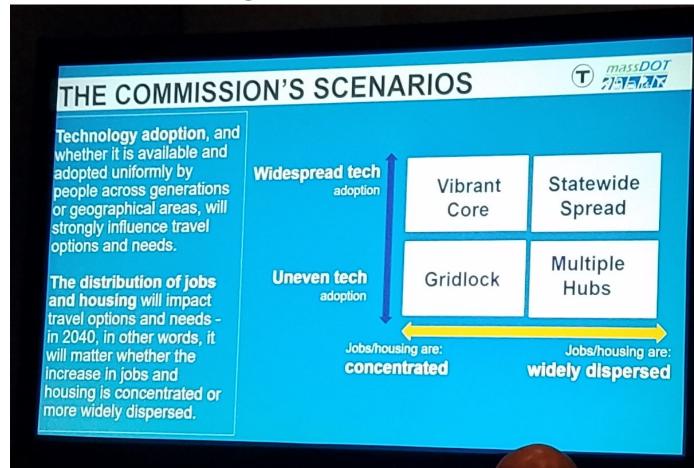
rgeyer@nd.gov

(701) 328-2675



### Implementable Idea

- Planning for the Future means watching these trends:
  - Technology
  - Jobs/Housing





#### Lectern Session Presenter

- Panel Presentation on Performance Measures
- Prep began in October 2018
- Email with Instructions 1 month prior
- Speaker Ready room
- Speaker Resource Page
- Lessons Learned





## Valuable Contacts Made

- Fellow Presenters & Former Colleagues
- Minnesota Night
- Iowa Night
- Other Networking Opportunities





## Chad Orn

Office of Project Development
Director

corn@nd.gov

(701) 328-4587



## The Program

- Sunday Workshops
  - 3-hour blocks
  - Try to be more hands on
- Sessions (Monday Wednesday)
  - Wow, lots to pick from (about 1.5 hrs long)
  - Carefully of the description, it can get you
- Posters
  - Always busy
  - Anything and everything you can think of





#### Resources

- Smartphone App
  - Workshop and Session descriptions
  - Maps Convention Center is huge
  - Track classes attended (PDHs)
  - Can look at offerings grouped by subjects
    - Safety, Design, Environment, etc.
- Book provided during Registration





# The Program

- What I found interesting
  - Elaine Chao US Secretary of Transportation
  - CEO Roundtables
  - Topics on Pedestrians, Crosswalks, Curves, Safety



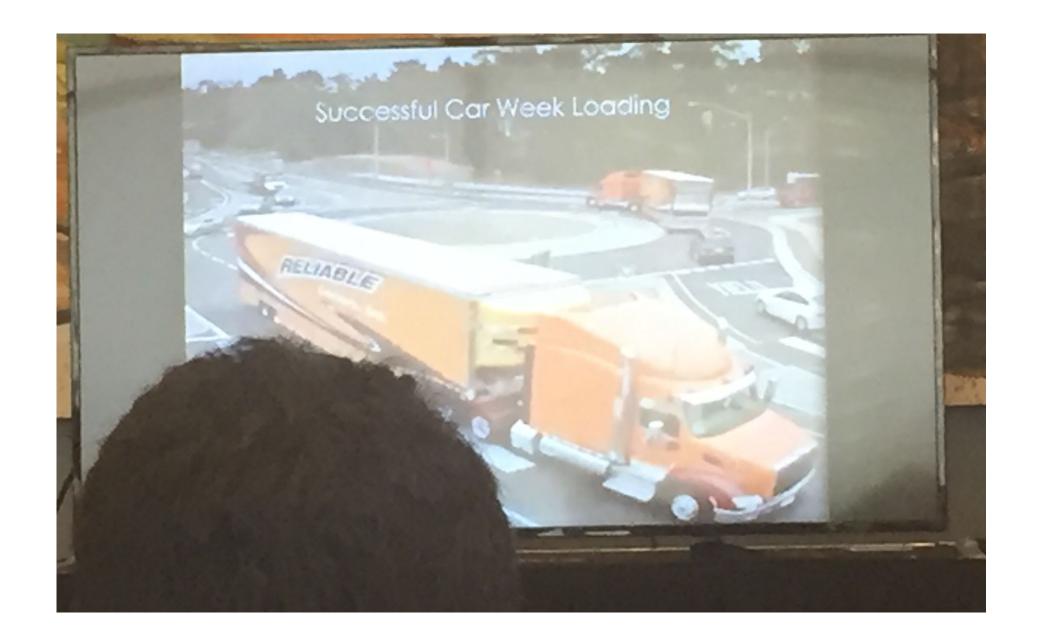


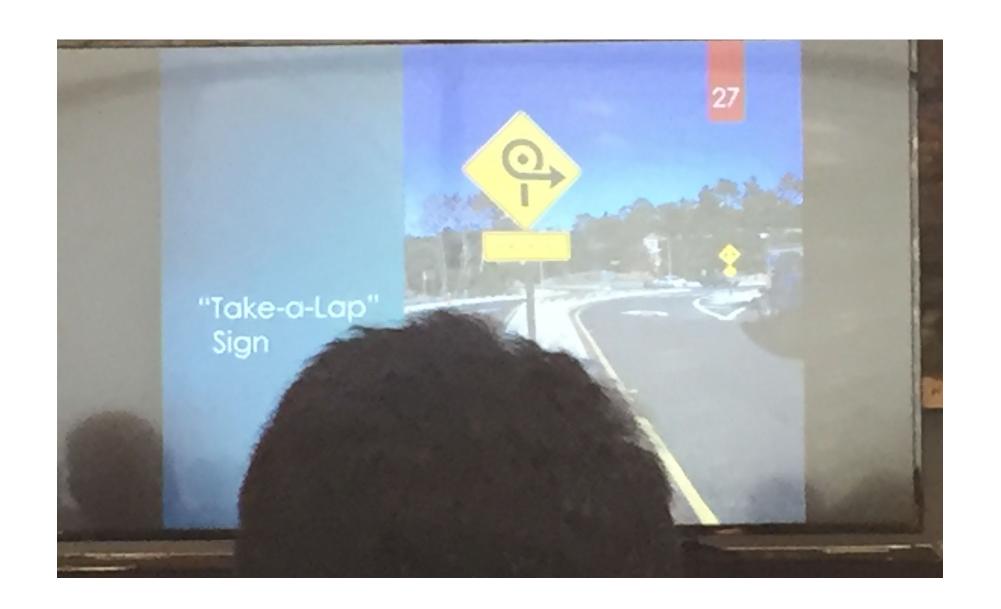


## The Program

- What I found interesting cont.
  - Roundabout/Intersection Control Video Theatre
    - Continuous 5 hrs
    - Come and go as you please
    - Interactive session of various people presenting projects
    - Running videos and photos









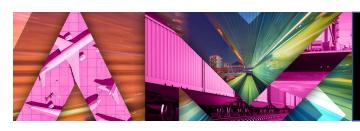
## Nancy Huether

Bridge Division
Structural Management Section Leader

nmhuether@nd.gov (701) 328-4450

TRB Committee Member: AHD35 - Standing Committee on Bridge Management





## AHD 35 – Bridge Management

- Member 2018
  - Previous work with Committee Chair
- Committee Work
  - Review Research
  - Recommend New Research
- Subcommittees
  - AHD 35(1) Safety and
     Security of Bridges
  - AHD 35(2) Bridge LCCA
  - AHD 35(3) SHM

Time	Title	Presentation Time (min)	Ву
8:00 AM	Call to order and introductions	5	
8:05 AM	Approval of 2019 Meeting Minutes	5	Başak Bektaş
8:10 AM	Announcements		
8:15 AM	TRB Activities Update	10	James Bryant, Max Perchanok
8:25 AM	25 AM Subcommittee Reports		Paul Thompson, Harry Capers, John Duke
8:40 AM	Communications Coordinator Report	5	David Masceri
8:45 AM	AASHTO T-18 Update	5	?
8:50 AM	TSP2 Update	10	Ed Welch
9:00 AM	AASHTO Maintenance Committee (MaC) Update	10	Jeff Milton
9:10 AM	Presentation NCHRP 12-104, Guidelines for Improving the Quality of Element-Level Bridge Inspection Data		Glen Washer
9:35 AM	Presentation: BMVI Network of Experts	10	Ralph Host
9:45 AM	Break	15	
10:00 AM	Potential Presentation	20	
10:20 AM	FHWA UPDATE	20	Derek Constable
10:40 AM	Status update on FHWA's Long-Term Bridge Performance (LTBP) Program	10	Jean Nehme
10:50 AM	Discussion on AHD35 TSP	20	Başak Bektaş
11:10 AM	Committee Research Coordinator Update and Research Discussion		Ehsan Minae
11:30 AM	New Business	20	All
11:50 AM	Adjournment		

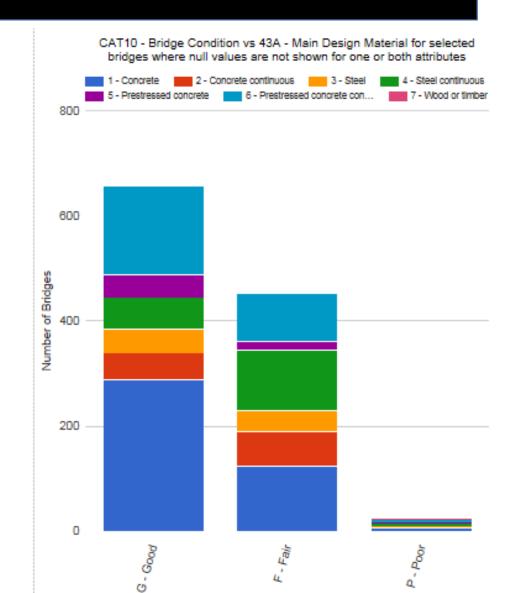


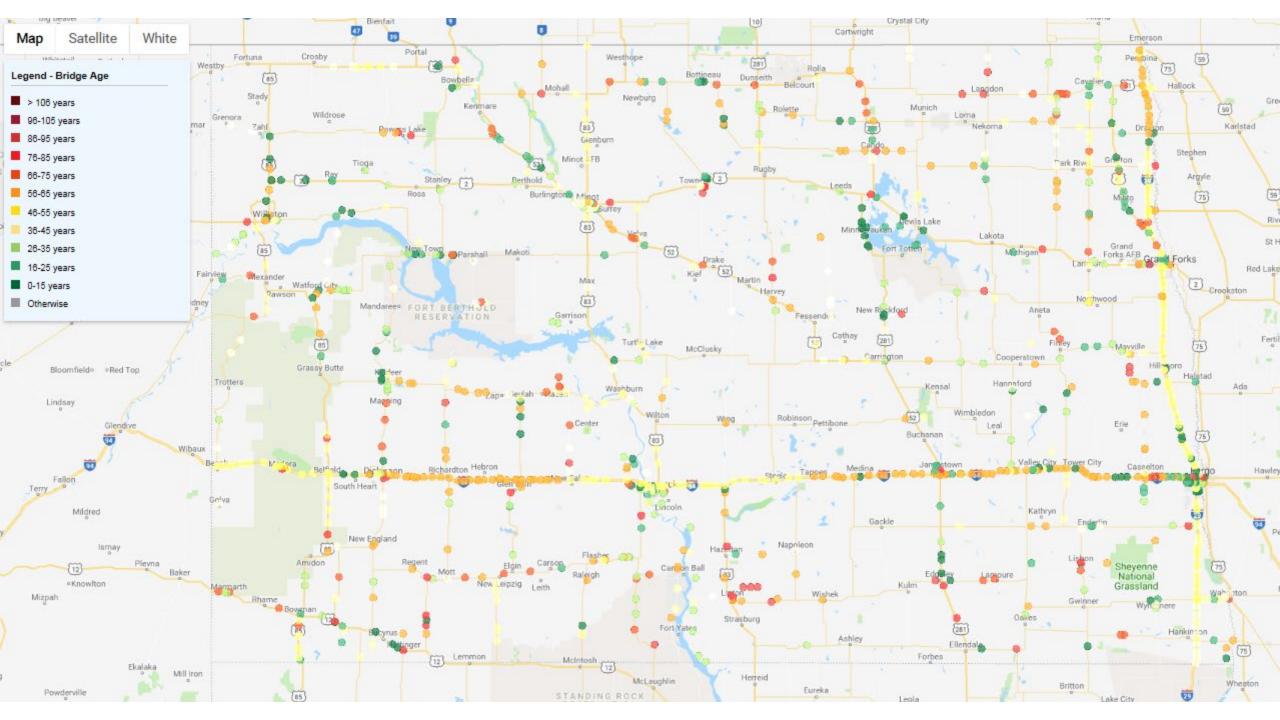
# LTBP/InfoBridge





- Rolled out @ TRB
- References all FHWA NBI Data
  - Open to all users
  - Includes Historical Data
  - Will include additional info from LTBP
- https://infobridge.fhwa.dot.gov/Home







# Networking/Relationships

DEPARTMENT OF TRANSPORTATION

- Researchers
  - Rutgers CAIT RABIT, the BEAST, THMPR
    - o Proposed Demo in ND Summer 2019
  - U of Missouri Columbia
    - Element Inspection Research
    - Infrared Research
- Other State DOT's
  - Sharing Information, Experiences, Practices
- FHWA
  - Building Relationships, Understanding
- MWBPP, AASHTO MaC, BrM User Group, ASNT













### **Amy Beise**

Materials & Research Division Research & Pavement Design Section Leader

abeise@nd.gov

(701) 328-6921

TRB Committee Nominee: *AFP50 - Standing Committee on Seasonal Climatic Effects on Transportation Infrastructure* 

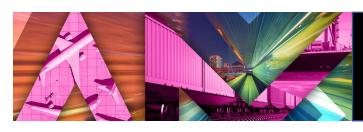
NCHRP Panel Chair: 7-27 – An Update of the Green Book

Design Vehicles









#### **Collaborate**



Regional Research



National Research



Implementation Efforts



#### **8 Agency Members**



Minnesota

Wisconsin

Michigan

Iowa

Illinois

Missouri

California

#### **50+ Associates**



Consultants

Industry

**Associations** 

Academia



















**Flexible** 

Rigid

Geotech

**Preventive Maintenance** 

Intelligent Construction Technologies Tech Transfer

**Executive Committee** 



#### **CONTACTS**

#### VS

#### CONNECTIONS





# Sign up for MyTRB

#### www.mytrb.org

- i Free Webinars
- Access Information
- Friend Committees





## Implementable Idea

#### **TRB Committee Involvement**

**NCHRP Project Panel** 

**Technology Sharing** 





#### Matt Linneman

Materials & Research Division Materials & Research Engineer

> mlinneman@nd.gov (701) 328-6904

TRB State Representative



# Implementable Ideas





**Rolling Density Meter for Asphalt Paving** 

**Hydraulic Inspection Vehicle Explorer (HIVE)** 



#### Poster Presentation – US 85

#### > US HIGHWAY 85 ENVIRONMENTAL IMPACT STATEMENT: A CASE STUDY IN STAKEHOLDER ENGAGEMENT

As one of the few north-south paved roadways accessing the Bakken Formation oil play in western North Dakota, US Highway 85 is a unique and regionally-significant travel corridor. Between 2010 and 2014, average daily traffic volumes more than doubled along this stretch of highway, creating demand for an improved transportation facility capable of addressing social and economic issues within the area.

Session: 1430, Current Issues in Environmental Analysis in Transportation

Session Location: Hall A / Convention Center

Session Time: Tuesday, Jan 15, 2019 8:00AM - 9:45AM

Posterboard Location Code: A191

#### PROJECT LOCATION MAP



North Dakota

#### **FIVE MAIN CHALLENGES**



Traffic Volume/Safety 3.300 - 12.025



**Corridor Size 62 MILES** 



**Project Setting** 

> 2 MILES Theodore Roosevelt National Park

> 10 MILES Little Missouri National Grasslands

#### DRIVING SUCCESS VIA UNIQUE STAKEHOLDER ENGAGEMENT



#### . Coordination/Pre-Coordination with Stakeholder Groups:

- · Lead, cooperating, and participating agencies
- · City, county, and community leaders
- · Special interest groups
- Landowners
- · Tribal Consultation Committee



#### 2. Wildlife Considerations & **Special Efforts**

- Wildlife crossings
- · Providing habitat protection/prohibiting construction activities during designated time periods
- · Stakeholder field meetings



#### 3. Utility Coordination

- 34 utility companies
- · Utility coordination memorandum
- · Six early and specific coordination meetings



#### **Historic Bridge Adoption**

- One of a few historic bridges of this size to potentially have a successful adoption
- · Potential adoption currently in place



#### 5. Tribal Consultation Committee\*

- · Fort Peck Assiniboine and Sioux Tribes
- · Turtle Mountain Band of Chippewa Indians
- · Mandan, Hidatsa, and Arikara Nation
- Spirit Lake Sioux Nation
- Sisseton-Wahpeton Ovate
- · Standing Rock Sioux Tribe
- · Northern Chevenne Nation
- Crow Nation
- Lower Sioux Indian Community
- Santee Sioux Nation
- · Wahpekute Band of Dakotah
- · Omaha Tribe of Nebraska
- \* Tribes not signatory of the Programmatic Agreement were also welcome to participate in meetings



#### **GIS Story Mapping**

A visual composite of maps, text, and images to enhance conceptualization of the 62-mile corridor

#### Diverse **Stakeholders**

- > 2 lead agencies
- > 3 cooperating agencies
- > 17 participating agencies



contingent upon FHWA's

EIS decision

Stakeholders play a significant role in successful project completion, especially when a project impacts thousands of people, local public agencies, and special areas of interest. It is imperative that DOTs be intentional and utilize innovative methods to build rapport with interested parties prior to the start of a project and maintain that rapport thoughout project duration.





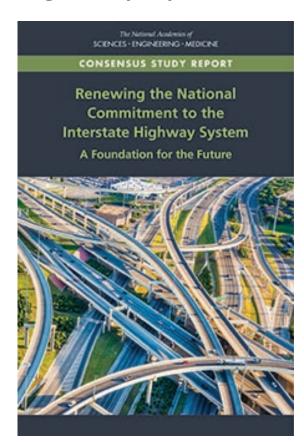




## Interstate Study Report

#### Renewing the National Commitment to the Interstate Highway System

- Study requested by Congress
- Recommends legislation to:
  - Reconstruct deteriorated pavements and bridges
  - Adding capacity (physical and demand management)
  - Increasing resilience
  - "Right Sizing"
  - Funding
  - Plan for connected and autonomous vehicles
  - Address greenhouse gas emissions





## **AASHTO & TRB Perspective**

- AASHTO Committee on Materials & Pavements (COMP)
  - Mid-year Meeting
  - Many attendees that are involved with both groups
- TRB State Representative
  - Luncheon at Annual Meeting Input from States
  - State Partnership Visit In ND this Spring/Summer



#### **AM Online**

- NDDOT Employees & Attendees have access to the papers and presentations (in March): <a href="http://amonline.trb.org">http://amonline.trb.org</a>
- Example: RAP Chip Seal by Pennsylvania DOT
  - Sized Recycled Aggregate Pavement (RAP) chips seals have similar performance to virgin aggregate
  - Need an additional roller for effective seating of the aggregate
  - Limited to roads with and ADT of 1000 or less
  - Approximately 30% cost savings



## Opportunities

#### Get involved

- Friend a Committee
- Join a Committee
- Submit a paper
- State Partnership Visit
- Talk to attendees

If you get involved the opportunities will find you.



# Questions?







# **Upcoming Meetings**

March 28<sup>th</sup> - Corrugated Metal Pipe

April 25<sup>th</sup> - USACE

May 30<sup>th</sup> - Borrow Process

https://www.dot.nd.gov/lunchandlearn.htm