NDLTAP

Dale C. Heglund, PE/PLS
North Dakota LTAP Director

North Dakota Local Technical Assistance Program
www.ndltap.org
ndltap@ugptiu.org

NDSU

NDLTAP TRAINING

Helping local entities expand their skills
Delivering all your training needs

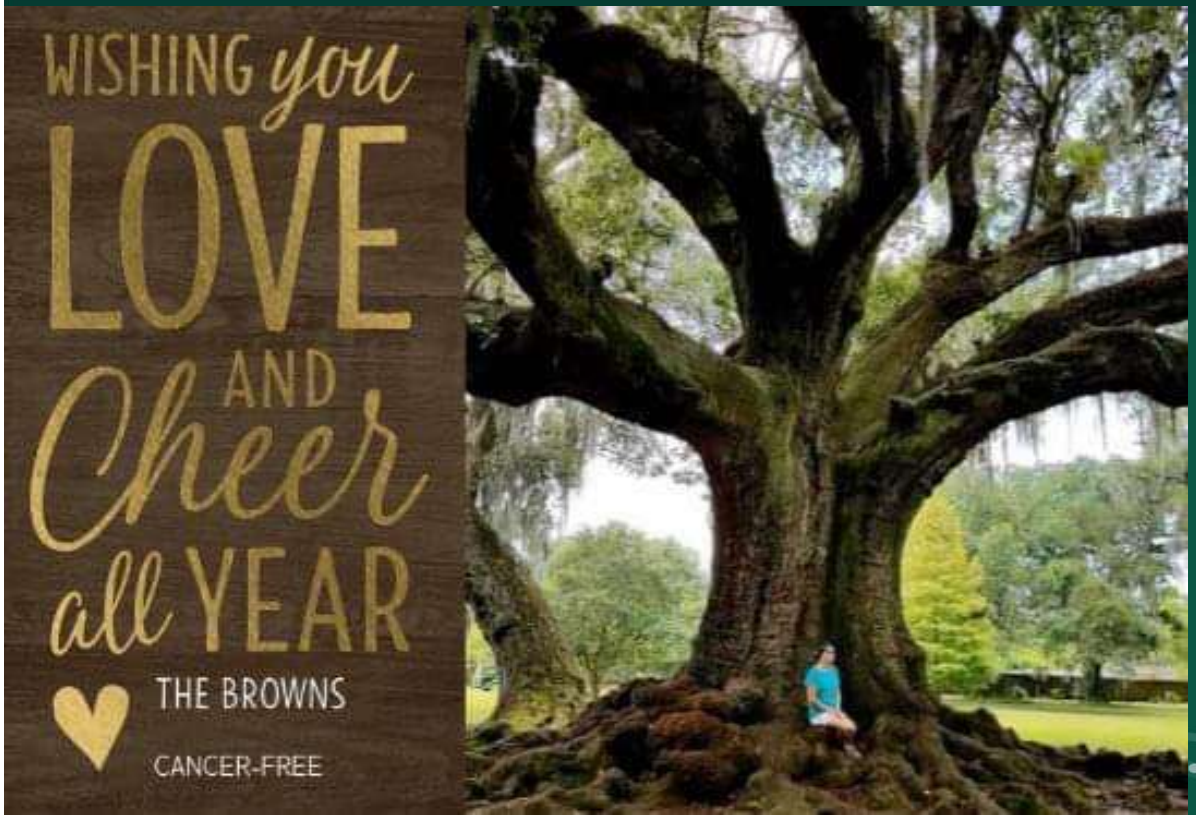
NDSU | UPPER GREAT PLAINS TRANSPORTATION INSTITUTE
NORTH DAKOTA LOCAL TECHNICAL ASSISTANCE PROGRAM

WWW.NDLTAP.ORG

NDLTAP 2019

NDSU GREAT PLAINS TRANSPORTATION INSTITUTE

" I am so pleased and thankful to go to the job I love every day." Denise Brown



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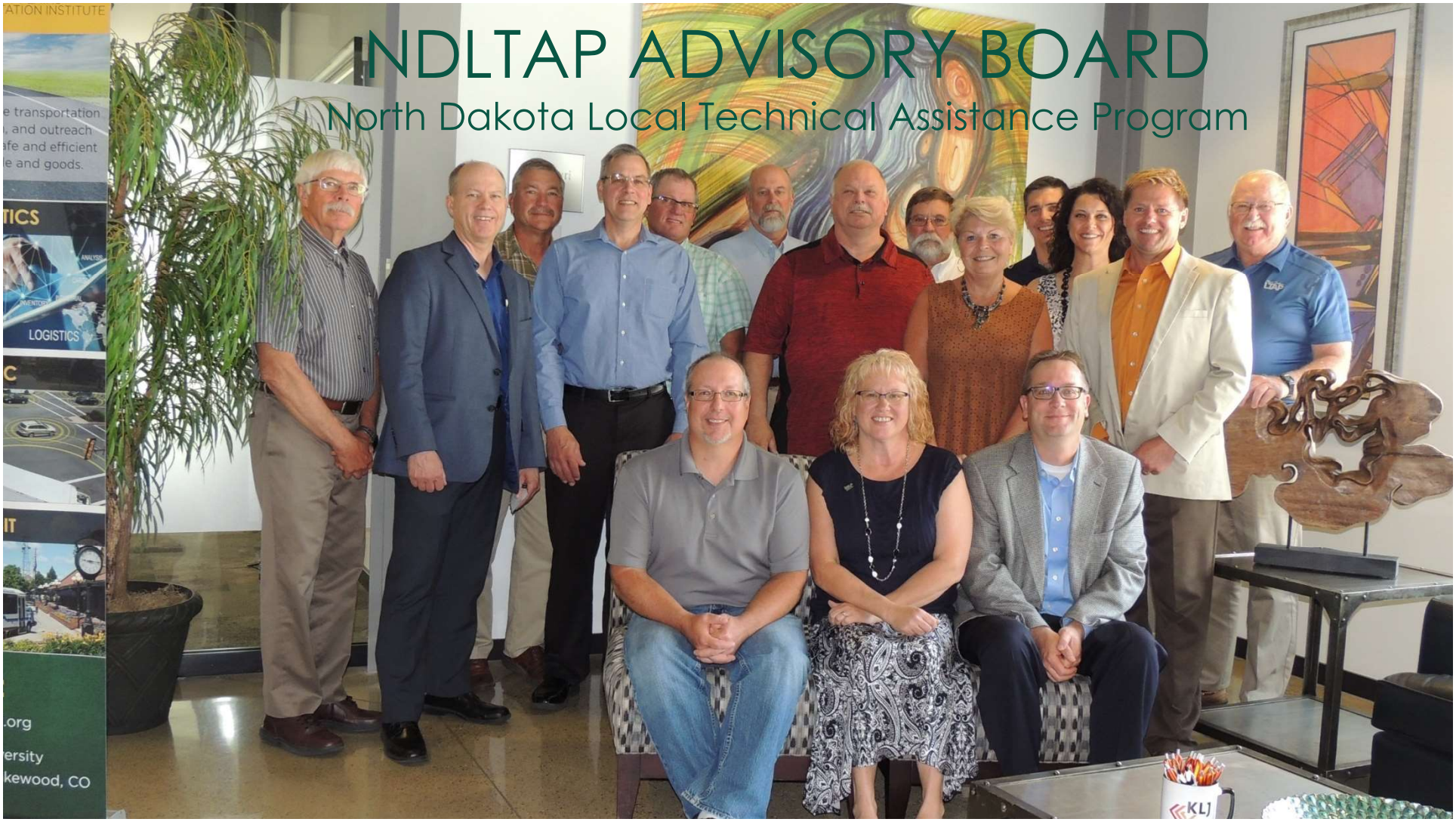
NDLTAP ADVISORY BOARD

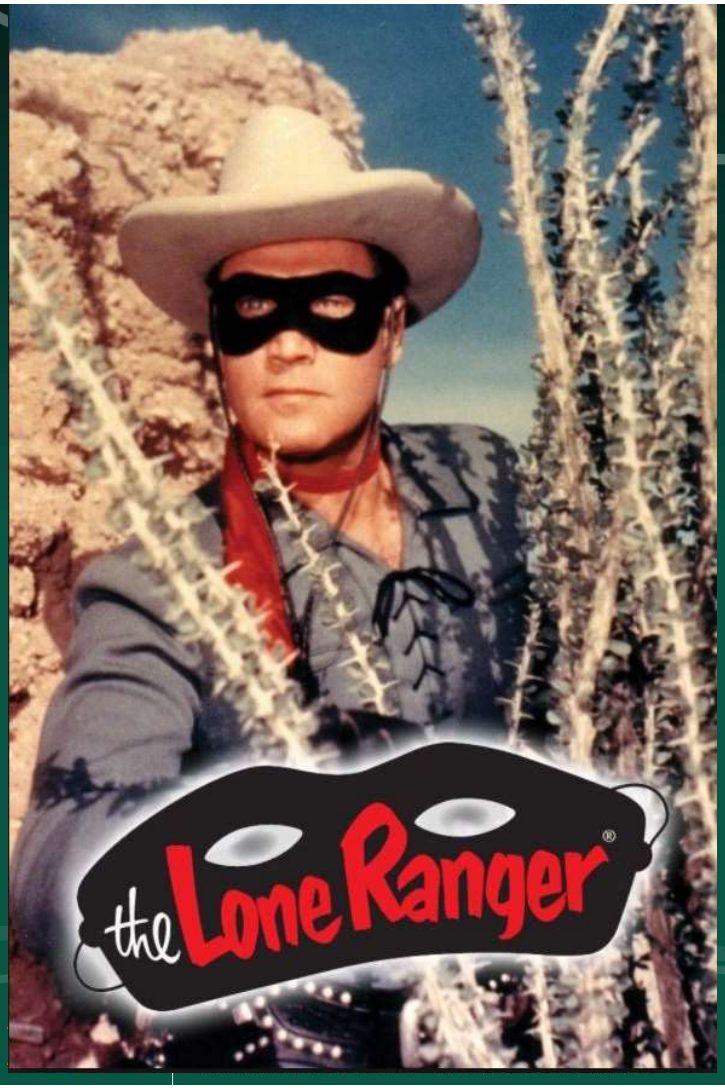
North Dakota Local Technical Assistance Program



NDLTAP Advisory Board Member Spotlight: Kevin Fieldsend

Ramsey County

- NDACE appointed in 2008 to serve on the LTAP Board
- From Park Rapids, Minnesota.
- 22 years as Ramsey County Highway Superintendent.
- Past President and Superintendent of the Year for NDACE.



Lone Ranger Program

New Kids in Town - 2018

Shane Biggs – Bowman County

Tommy Glover – McKenzie County

Jesse Sedler, PE – Richland County

Jeff "Ivan' Hopkins – Ransom County

AINS
N INSTITUTE
ECHNICAL ASSISTANCE PROGRAM

Mike Mortenson

Grant County Road Superintendent

County Changes - 2019

Dennis Glas, McIntosh County

Dale Powell, Slope County – retiring

Nathan Miller – New Slope County Road Superintendent

Tim Lee, Nelson County – retiring

Seth Hamry - New Nelson County Road Superintendent

Jeff Baranko,

Billings County District 1 Road Supervisor

How Anyone, Anywhere,
Can Make a Positive Difference

YOU DON'T NEED A TITLE TO BE A Leader

MARK SANBORN

Author of *The Fred Factor*

Copyrighted Material

CAT
IVAN
Beauty Salon
Lounge
Meeting Rooms
Empire
Liberty
Manhattan
Elevators
Lobby
Meeting Rooms
New York
New York 1 & 2

2018 Certificate of Distinction - Road Scholar Program
I Am a LEADER
CERTIFICATES OF DISTINCTION
CERTIFICATES OF DISTINCTION
In recognition of her focused efforts to make her team stronger, to improve customer service and to make the world better,
The NDLTAP Team congratulates
SANDRA BAISCH
Dale Heglund Denise Brown Sandy Baisch Curt Glasoe Andrew Wrucke Leanna Emmer
NDSU
UPPER GREAT PLAINS TRANSPORTATION INSTITUTE
NORTH DAKOTA LOCAL TECHNICAL ASSISTANCE PROGRAM
How Anyone, Anywhere, Can Make a Positive Difference
YOU DON'T NEED A TITLE TO BE A Leader
MARK SANBORN
Author of The Fred Factor

Alerus
CENTER
2019
Friends of NDACE
GENNY DIENSTMANN
NDACo
In appreciation for your years of support and dedication
to the goals and objectives of the association.

NDSU UPP
TRA

V is For……

NDSU UPPER GREAT PLAINS
TRANSPORTATION INS

Kudos Board

"I am a more competent, engaged and confident employee because of ND LTAP!"

Jamie Smith, Administrative Assistant III,

Barnes County Highway Department

HAPPY
BIRTHDAY
CHRIS!
24

Gravel Road Warrior – Join the Team

NDSU UPPER GREAT PLAINS TRANSPORTATION INSTITUTE

North Dakota Local Technical Assistance

LOW COST SAFETY IMPROVEMENTS

Unpaved Roads

U.S. Department of Transportation
Federal Highway Administration

NORTH DAKOTA DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION

GRAVEL SURFACING

DESCRIPTION

This work consists of furnishing and placing aggregate as a roadway surface course

4. Plastic Index Adjustment Factor.

The Engineer will determine the PI content adjustment factor using the Table 1.

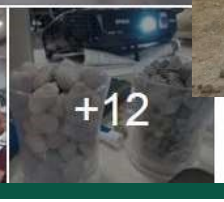
Table 1	
PI Average	Pay Adjustment Factor
> 9.1	Non Acceptance
7.1 – 9.0	1.0
4.0 – 7.0	1.05
3.0 – 3.9	1.0
2.0 - 2.9	0.85
< 1.9	Non Acceptance

NDDOT 4, Fractured Faces[1]	10%

Liked ▾ Following ▾ Share ···

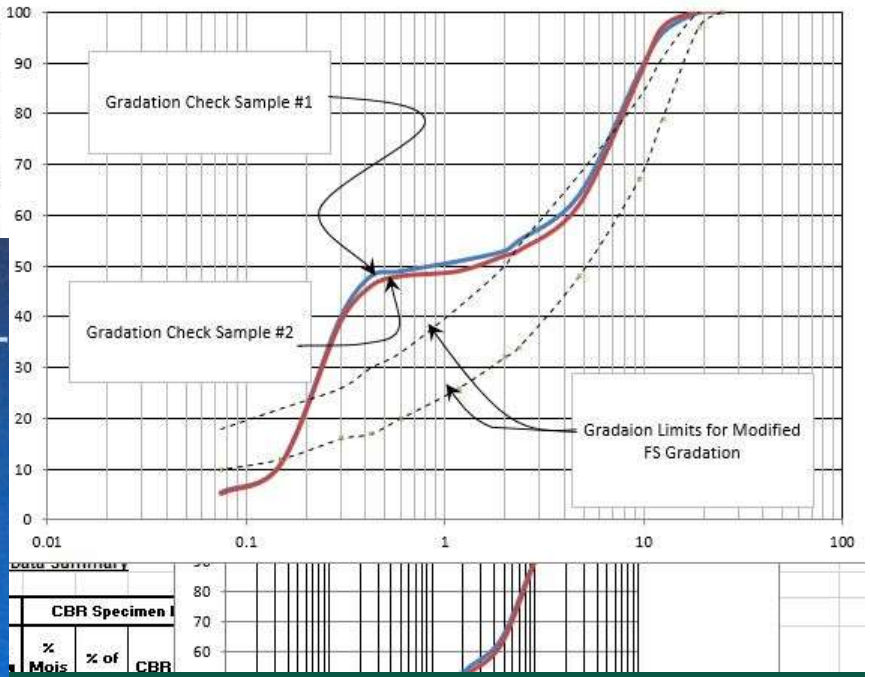
North Dakota Local Technical Assistance Program
added 15 new photos.
Published by Dale Heglund [?] · June 14 ·

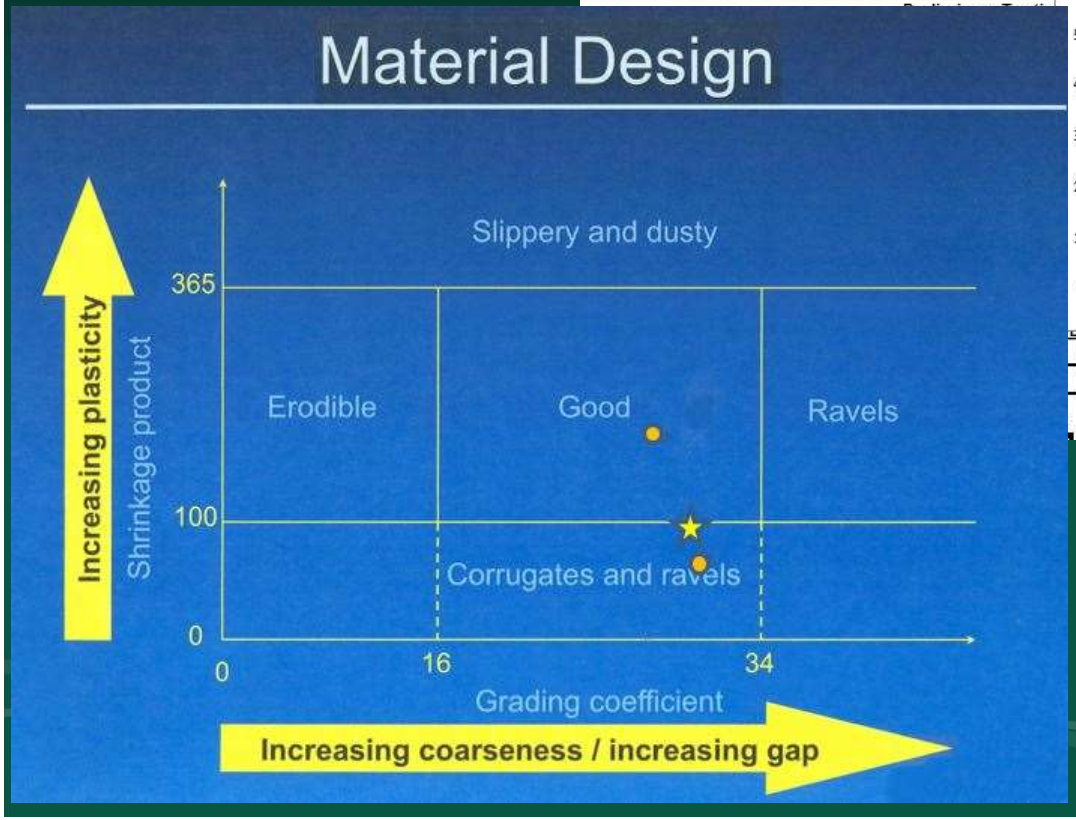
Billings County - another reason I love my job! Yesterday, we launched our Glue for Gravel Roads and Cutting Edge Demo class. Instructors Steve Monlux and Kelly McCollam were awesome. During the learning, it was great to hear Roger Decker, Billing County Lead, describe what he knew about gravel, clay, application processes, and more importantly share how hungry he was to learn what he didn't know. Jeff Iverson, Billings County Road superintendent, instills a sense of pride in his crew, sense of pride in building quality gravel roads - with clay based gravel! Special thanks to our Wibaux County friends - Montana is now part of our learning network!! Glue for gravel, without it we fall short of our obligation to provide quality, safe roads. Continue to soar! Dale



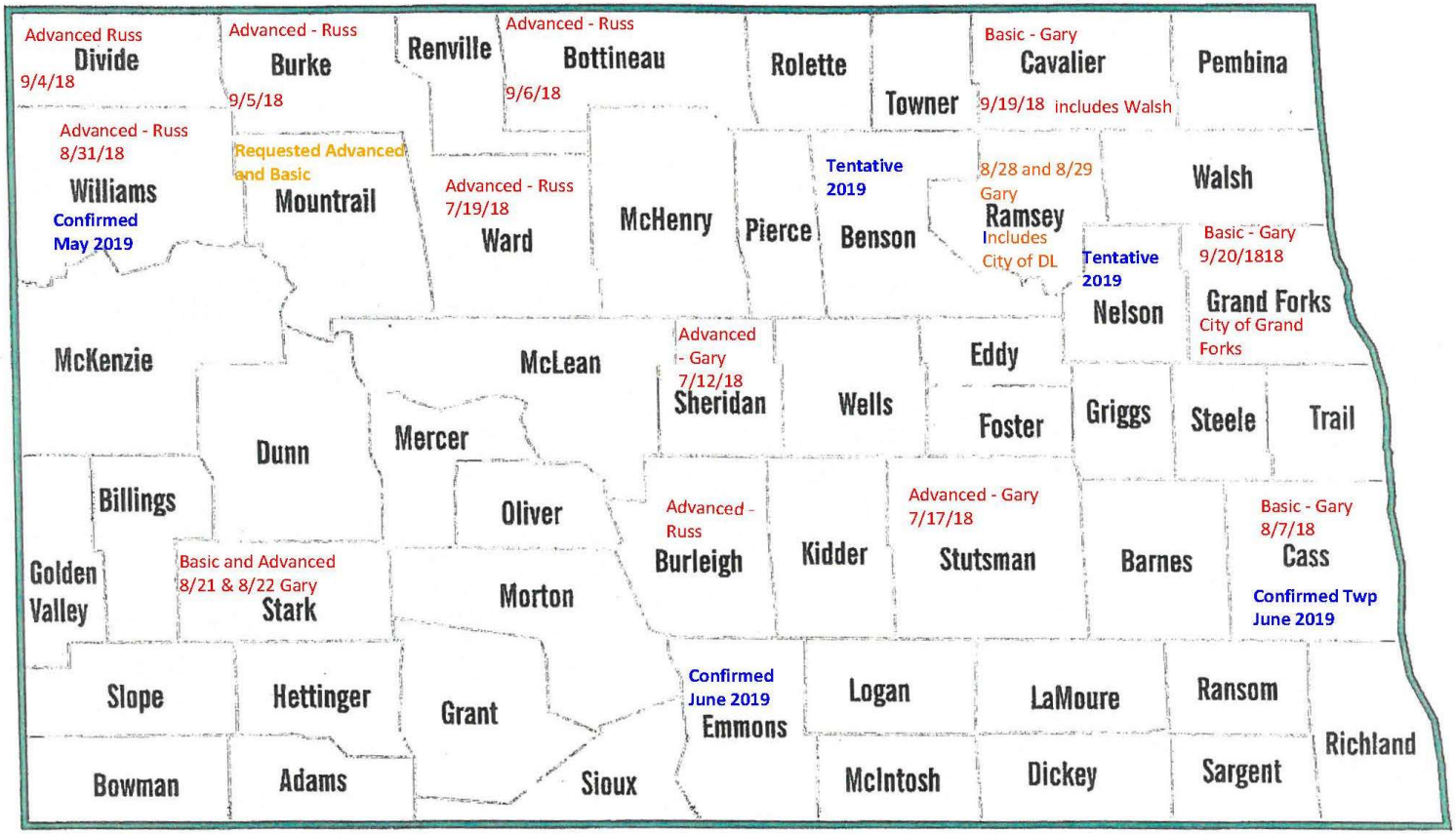
Gravel Road Surfacing Stabilization Testing

Client :	Richland County
	201 W. Holly St.
	Sidney, Mt. 59270
Project:	Gravel Roads
	5/8 inch reject





2018-2019 NDLTAP Motor-Grader Operator Training



Requested sessions have not been scheduled yet. 2019 MGO training

Red sessions are completed.

NDSU

NDSU

CAT

County Instructors

Full support from the Burleigh and Mountrail

Gary Steiner - Burleigh

Operator with Burleigh County - 23 years

National Guard heavy equipment operator – 10 years

Russ Klimpel - Mountrail

6 years with Mountrail county - 7 years rebuilding hwys in North Dakota - 10 years building forest service roads for Montana

NOW SHOWING
CLAY
"That Little Something Extra"
GLUE FOR GRAVEL ROADS
While even the best of gravels can't match the year-round qualities of asphalt, we can sweeten the mix and make them better with "That Little Something Extra" – Clay.
Training
Preparation
Application
NDSU
UPPER GREAT PLAINS TRANSPORTATION INSTITUTE
NORTH DAKOTA LOCAL TECHNICAL ASSISTANCE PROGRAM

Simply Innovative

FARMER'S GRAVEL SPREADER IMPROVES SAFETY AND SAVES TIME

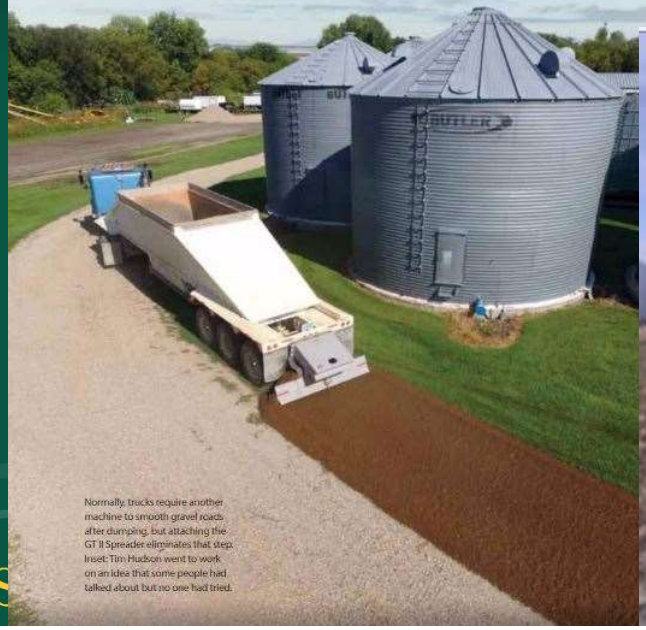
BY REID CREAGER

A farmer living near a rural North Dakota town with a total area of one square mile and fewer than 200 residents, Tim Hudson understood what slow was. Now he wanted to figure out a way to make slow work for him. And he wanted to do it fast.

The recent combination of low commodity prices and high input costs (fertilizer, pesticides, etc.) has added to the rugged challenge of farming. Hudson turned to gravel hauling as supplemental income, only to find he had to pass up some jobs because of the limited ability of his belly dump trailer: The machines generally must reach a speed of 25-30 mph and open their gates in order for the aggregate to spread evenly on the road. But in

PHOTOS COURTESY OF DAN HUDSON

The Hudson family has pitched in to continue to success of the GT II. Front row: Linda and Gary Hudson. Tim's



Normally, trucks require another machine to smooth gravel roads after dumping, but attaching the GT II Spreader eliminates that step. Inset: Tim Hudson went to work on an idea that some people had talked about but no one had tried.

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Training Needs Survey- 2019

Please check the training your county would be interested in attending

✓	Safety	✓	Technical	✓	Professional Development
	Safety 365 – Road Safety for Local Agencies		Motor-Grader Operator (only field)		Presentation Skills and Effective Meetings
	Personal Protective Equip.		Motor-Grader Operator (classroom and field)		Dealing with Difficult People
	Trenching/Excavating		Local Roads Corrugated Metal Pipe		Communicating with the Media
	Fall Protection		Bridge 101		Communicating Road Safety with Elected Officials
	Work Zone Safety		Gravel quality – Glue for Gravel Roads		Leadership skills
	OSHA 10 hour - Certification		Snow and Ice Control		Supervisory Skills
	Outdoor Hazards		Welding		Utilizing the Transportation Learning Network - Learning Management System (LMS)
	Preventing Runovers and Backovers		Signing 101 - Basics		
	Roadway Safety - Work Zone Temporary Traffic Control		Signing 201 - Advanced		
	Tractor Mower Operator Safety		Heavy Equipment Operator Certification		
	STEP - Safe Transportation for Every Pedestrian		Road Safety Audits		
			Unpaved Roads –		

Complete the Training Needs Survey for a Chance to Win:

Travel mug

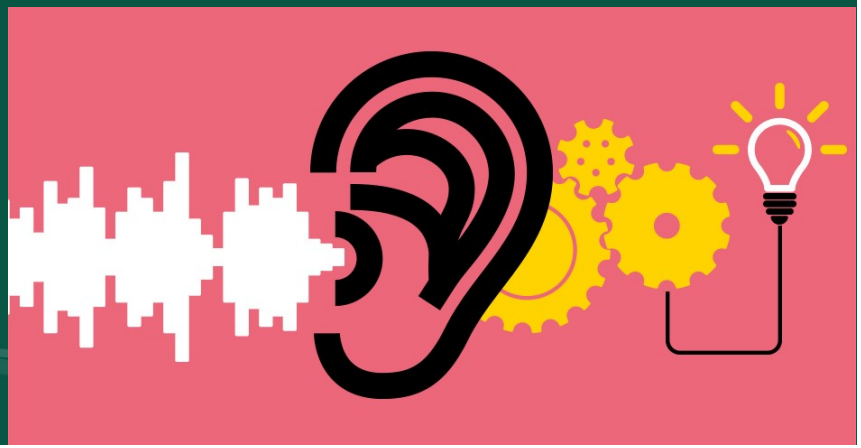
Wireless speaker

Work gloves

NDSU UPPER GREAT PLAINS TRANSPORTATION INSTITUTE

We're Listening

- Free Training
- Free UGPTI
- Free Gloves



APRIL 3-4, 2019
RAMADA BISMARCK HOTEL
(photo credit: Levi Heller, Apex Engineering Group)
North Dakota ASPHALT conference

NDSU UP TR

NDS

Gerard Feist
Asphalt Consultant

North Dakota Local Technical Assistance Program

gjfeist2@gmail.com
701-595-2017

Bismarck
ndltap.org

NDSU UPP
TRA

ROAD READY R3 RESEARCH

JAN 2018 NO. 1

RESEARCH REVIEW: Crack Seal Best Practices

by Andrew Wrucke, NDLTAP Technical Expert

"Preventative maintenance is the key to wisely utilizing public dollars and building and maintaining an effective transportation system. This is particularly important for regions such as the Upper Great Plains and northern Rocky Mountains where "road miles" and "land area" far exceed population, weather and environment present a never ending series of cycles and challenges, and subgrades and base layers are many times composed of or contaminated by water and frost susceptible, fine grained soils. The first step in pavement preservation is crack sealing/crack filling as water is a constant, sometimes "unseen", but always ever present enemy of road performance. Effective and timely materials, methods and placement are the first step in this critical pavement preservation technique."

– Ken Swedeen, Dakota Asphalt Pavement Association (DAPA) Executive Director

ATSSA

"HOW TO" CONFERENCES

March 18-20, 2019
March 16-18, 2020

ATSSA Northland Chapter

Delta Hotels by Marriott™ Fargo
1635 42nd Street South
Fargo, North Dakota

SIGNING 201

NDSU | NDLTAP

SIGN WARRIOR

On-site – Classroom

6 Hours – Road Scholar Credits

November 14, 2018 (Wednesday) 9:00 – 4:00 PM CST
Morton County Highway Depart. – 2916 37th ST NW Bldg. A Door 3, Mandan ND
Registration Deadline: 1 week prior to workshop
Class limit: 30 attendees per workshop
$50 Registration Fee (NDLTAP will invoice post-training)

Our Signing 101 class just got better! Starting with the basics of Signing 101, we have expanded on the educational material to include:

- Sign ordering
- Sign inventory systems
- Tips from a pro
- Group design layout worksheets
- A sign truck virtual segment

This training is perfect for new county, township or city sign personnel. This training is a great refresher of seasoned sign crew members. Township officers, city staff, county commissioners, road superintendents and others in supervisory roles will also benefit from the information exchange.

Chris Rathjen. Chris has worked at Newman Signs, Inc. for 22 years as an Administrative Manager. She has a Bachelor of Science degree from Minot State with a major in accounting and business.

Jason Bergquist. Jason has worked for Burleigh County Highway Department for 3 years, 2 years as a Traffic Control Supervisor. His past experience includes one year with American Fence and Fad doing traffic control and 4 years working with Traffic Safety Services.

Kevin Berg has been with 3D Specialties Inc since 2002. He works with county, city and state DOT's with the sales of traffic control supplies and with the installation of sign systems. He has been instrumental in converting SD and ND from U-Channel/wood posts to Telespar Square Perforated sign post systems.

Dale Heglund. NDLTAP Program Director. Forty years of transportation experience ranging from equipment operator to design engineer. Career focus has been to promote a quality roadway network by helping others understand roadway engineering principles, the synergies of working cooperatively with others, leadership skills, and new technology implementation processes.

Dave Roddy. The AcquiSIGN Road Management Program allows users to manage signs in the field using an iPad as well as in the office through the web based application. In addition to being able to mark signs that require immediate attention (red flag), a history record is created every time a sign panel is added or edited.

Sign Warrior Program

NDSU UPPER GREAT PLAINS TRANSPORTATION INSTITUTE

North Dakota Local Technical Assistance Program added 6 new photos.

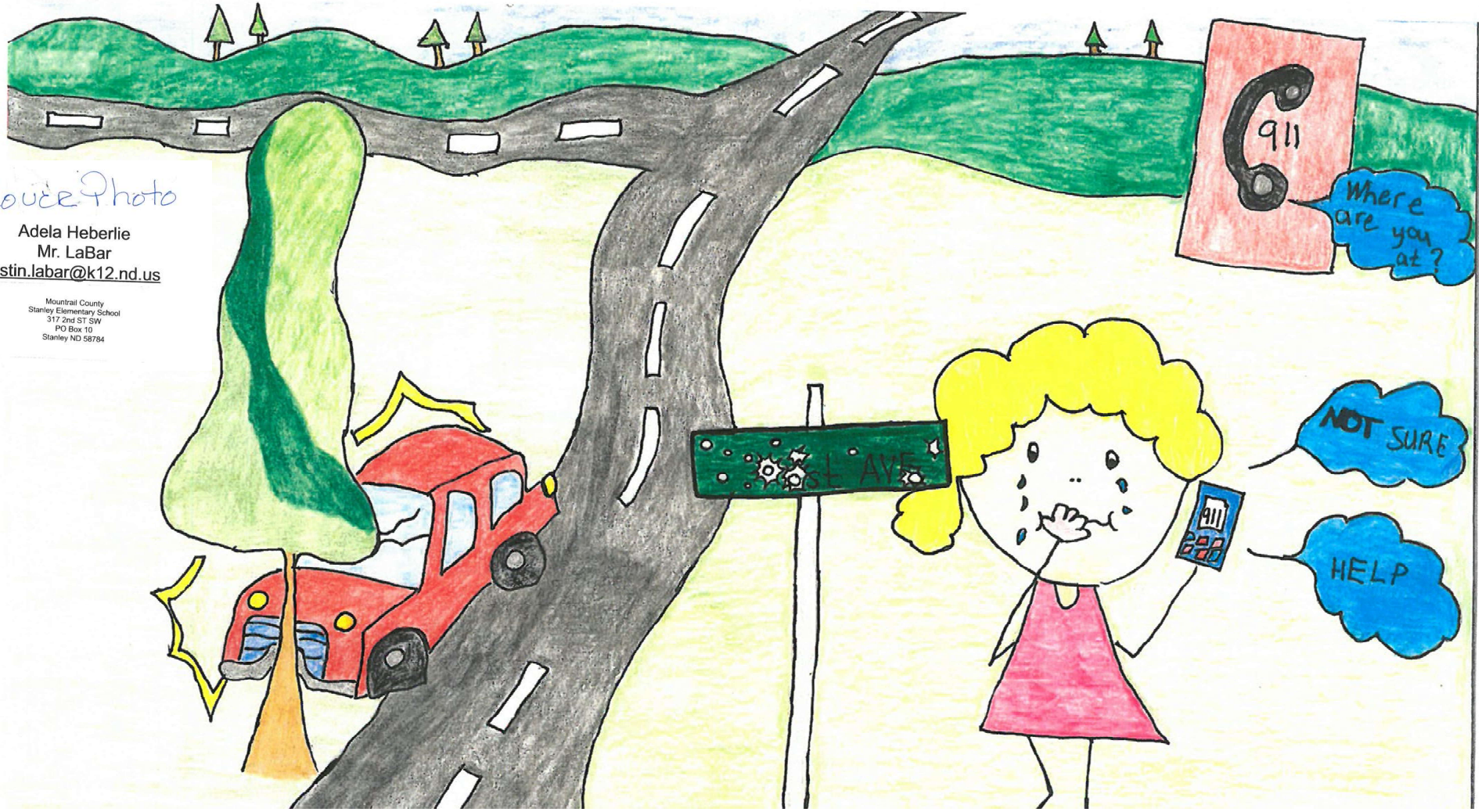
Published by Dale Heglund [?] · October 4 ·

Poor hunter or serial sign killer? Morton County has had enough. Morton County Sheriff Kyle Kirchmeier has joined forces with Mike Aubol, Morton County Engineer, and Chad Schneider, Morton County Sign Crew Lead, to create an initiative aimed to put a stop to vandalism of signs, flashing beacons and other public property. The recent news release is a great way to get the public involved. Let's face it, most damage is locally driven. As such, county residents working with ... See More

Cover Photo

Adela Heberlie
Mr. LaBar
justin.labar@k12.nd.us

Mountrail County
Stanley Elementary School
317 2nd ST SW
PO Box 10
Stanley ND 58784



in partnership with NDSU | UPPER GREAT PLAINS TRANSPORTATION INSTITUTE

Join Us for
WALSH COUNTY
Road Day & Open House

AUGUST 1, 2018
3:00 – 7:00 PM

Walsh County Shop/Fairgrounds
Chris Midgarden Arena/Shop #7
510 6th Street West
Park River, ND

Public is invited to the Walsh County Shop
- Meet the County Road Crew
- Check Out Equipment

JOIN US FOR FOOD & FUN!

Burgers, Brats & Bologna
3:00–6:00 pm

Backhoe Rodeo
Featuring road employees
5:00 pm

Equipment Showcase
Sit in a piece of equipment
Have a photo taken in a piece of equipment
Demos

WALSH COUNTY
ROAD DEPARTMENT BRIEFS

2,034	Total roadway miles
277	Miles of gravel
174	Miles of pavement
529	Bridges
4	Gravel trucks / 1 Semi Truck
8	Snow plow / dump trucks
4	Motorgraders

County Highway Employees:

9	Road crew
4	Foremen – bridge, sign, asphalt & shop
4	Summer seasonal
1	Office administrator
1	Administrative assistant
1	Superintendent/engineer

DOOSAN
EX3
WALSH COUNTY
CAUTION
TRAINING

RDO
WALSH COUNTY
DX225LC

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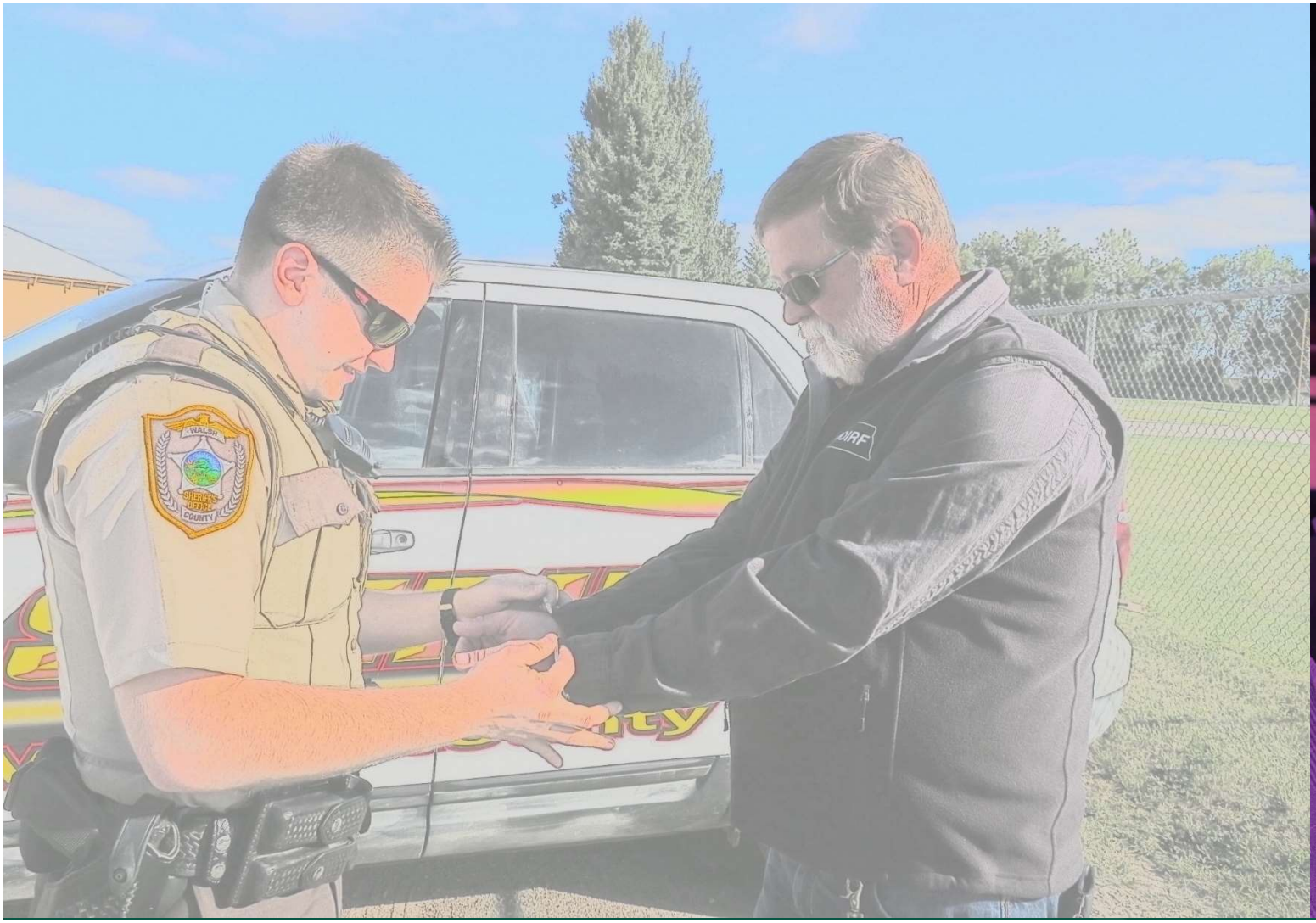
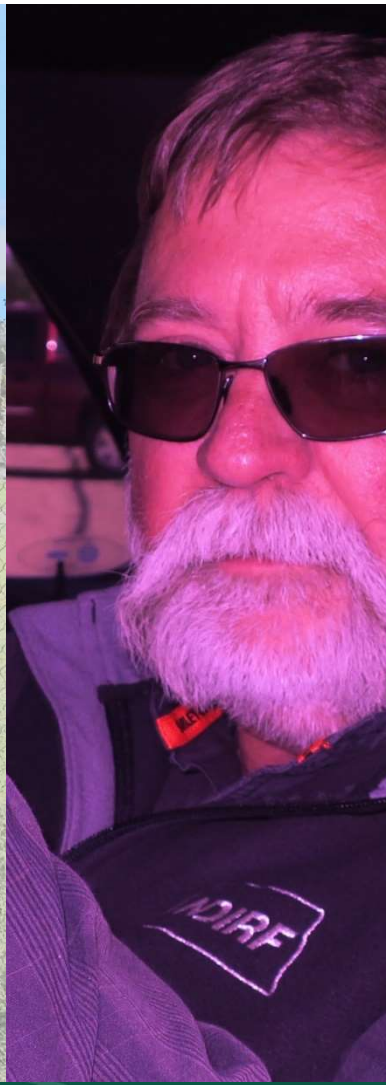
JOHN DEERE
CAT
772GP
Dale C. Heglund
Y-Knot Today

TAP
EX3


WALSH
SHERIFF'S OFFICE
COUNTY
DIRF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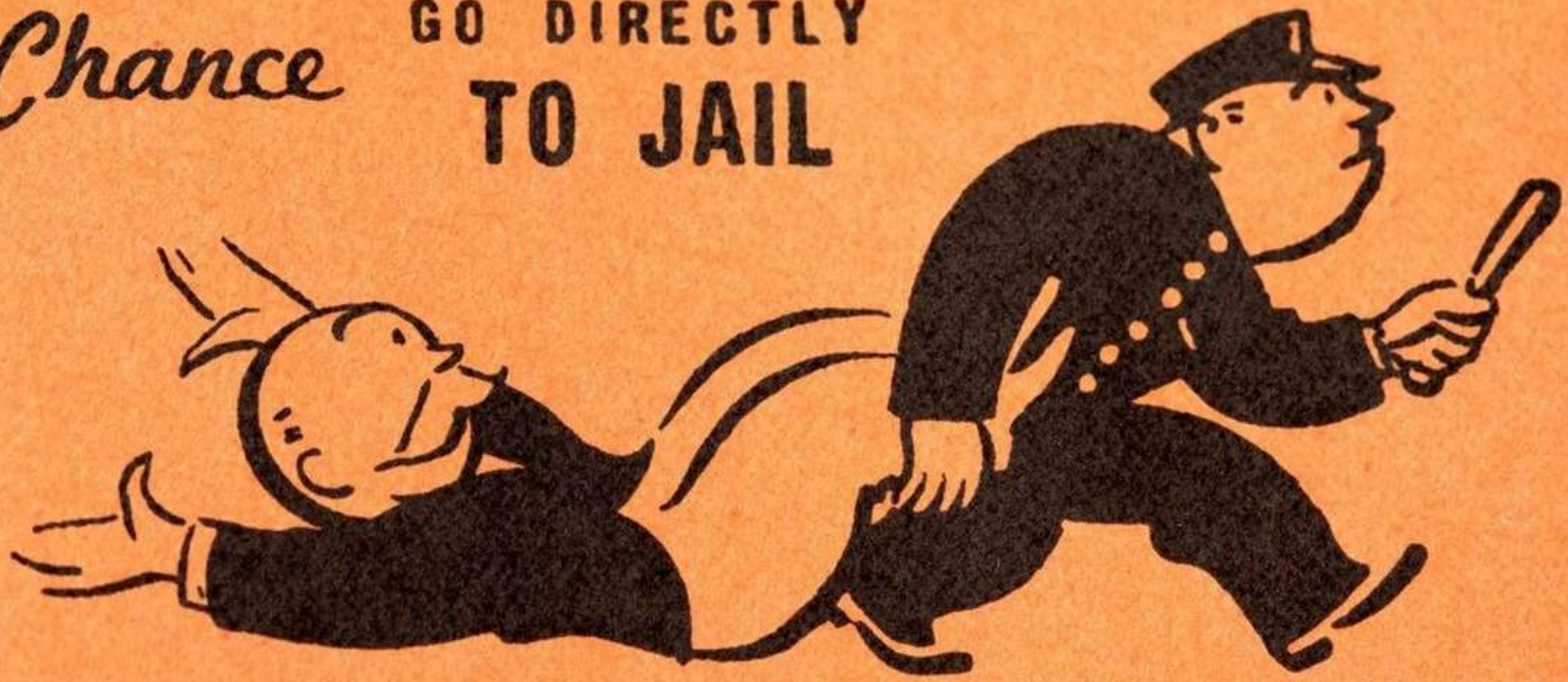
GO DIRECTLY
TO JAIL



© 2008 Hasbro. 45644

DO NOT PASS GO, DO NOT COLLECT $200

Husqvarna

NDIRF

Information for this class was provided by the NDDOT, UGPTI, NDLTAP, MDOT, MnDOT and TRB.
With contributions from Nancy Huether, NDDOT, Nick West, Grand Forks County, and Andrew Wrucke, UGPTI.

Bridge 101

Grand Forks, June 6, 2018
Williston, June 13, 2018

Gary L. Doerr, PE

Bridge Management Team Leader, NDDOT

Bryon Fuchs, PE

Local Government, NDDOT

Dale C. Heglund, PE/PLS

Program Director, NDLTAP

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NDDOT
North Dakota Department of Transportation

TRUCK SUMMIT

NDSU UPPER GREAT PLAINS TRANSPORTATION INSTITUTE

JOHN DE
LTAP

NDSU UPPER GREAT PLAINS TRANSPORTATION INSTITUTE

SUMMIT
Bert's

COUNTRY PEOPLE

SHERIFF
DUNN COUNTY
SHERIFF
LTAP

SPOT ON SAFETY

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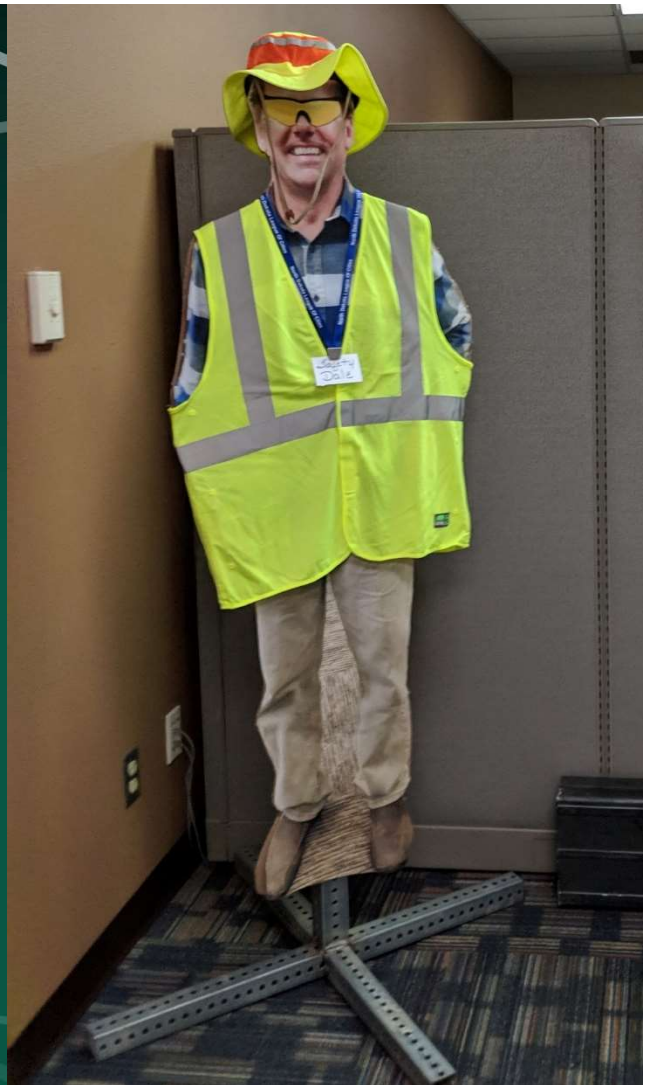


SAFETY TALK

NORTH DAKOTA STATE UNIVERSITY • UPPER GREAT PLAINS TRANSPORTATION INSTITUTE • NORTH DAKOTA LOCAL TECHNICAL ASSISTANCE PROGRAM

TP-Alcohol Survival Heater

Credit – Steven Jenkins

Items needed:

- Toilet paper roll
- 13 oz metal coffee can
- bottle of rubbing alcohol

Knead the toilet paper in your hands to loosen the inner cardboard core. Remove the core, compress the roll and place inside the coffee can.

Pour one bottle of rubbing alcohol into the can, let it soak in and carefully light the top of the paper. It should burn with a clean flame.

Set the can in an area free from flammable materials. The heater will produce deadly CO2 so crack the windows on both sides to provide ventilation. Fuel is running low when the edges of the toilet paper starts to brown. Blow out the flame. Add another bottle of rubbing alcohol and relight. Each bottle will provide flame with intermittent use for 18 to 24 hours.

Now get your winter survival kit stashed in the trunk of your car along with the TP Heater.

NDSU UPPER GREAT TRANSPORTA

SAFETY TALK

NORTH DAKOTA STATE UNIVERSITY • UPPER GREAT PLAINS TRANSPORTATION INSTITUTE • NORTH DAKOTA LOCAL TECHNICAL ASSISTANCE PROGRAM

Safety Talk Sign-in Sheet

Topic: TP-Alcohol Survival Heater

Agency: _____

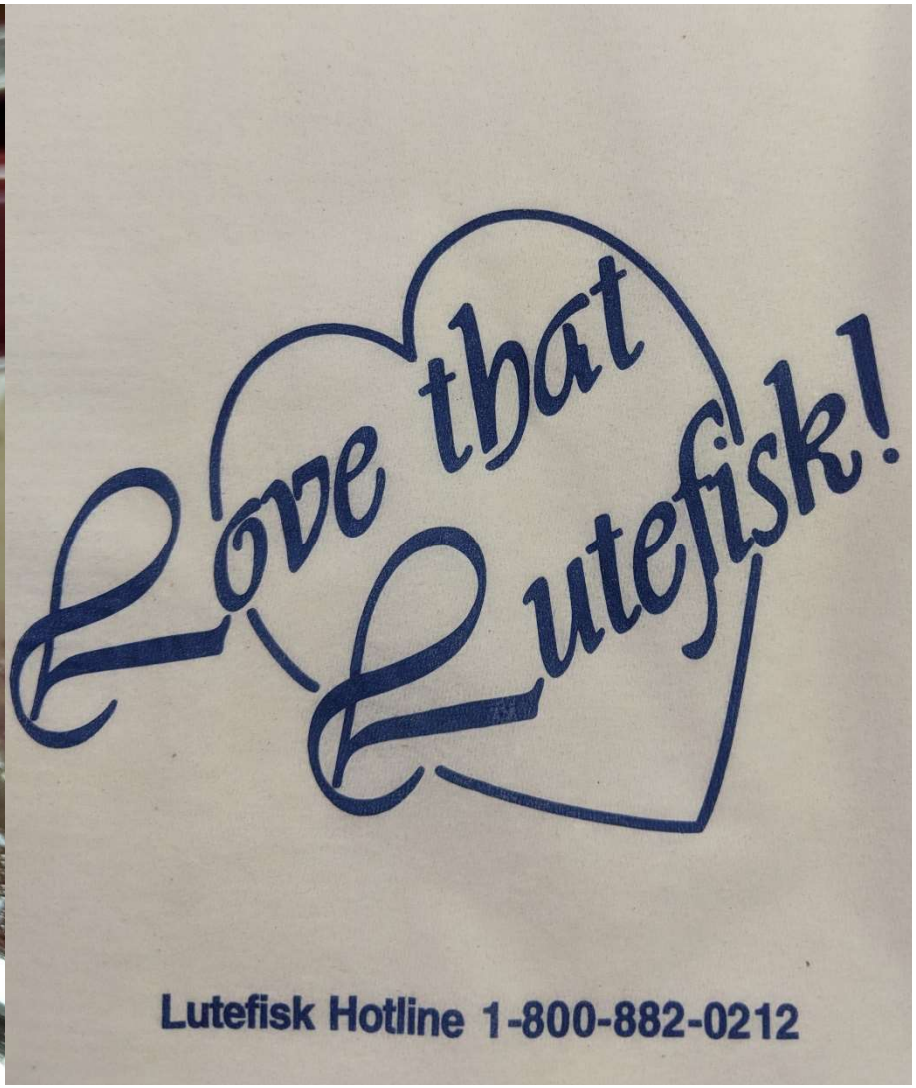
Crew: _____

Supervisor/Talk Leader: _____

Date: _____

	Print Name	Signature
1.	_____	_____
2.	_____	_____
3.	_____	_____
4.	_____	_____
5.	_____	_____
6.	_____	_____
7.	_____	_____

NDSU UPPER TRAN


Love that Lutefisk!
Lutefisk Hotline 1-800-882-0212

NDSU

"NDLTAP and the Road Scholar Program are great learning resources. I have learned gravel specs and different techniques of how to do things. I like that the training includes people from all different counties so that we are able to interact and share information. If you miss a class you can watch the recorded video of it in the NDLTAP archives. Earning Road Scholar credits and being awarded for learning is a plus."

– Dennis Glas, McIntosh County

Coming Soon to NDLTAP

A new level of training opportunities:

North Dakota Local Technical Assistance Program
515 ½ E. Broadway, Suite 101
Bismarck, ND 58501
Phone: 701 . 328 . 9855
sandra.baisch@ndsu.edu
www.ndltap.org

The North Dakota Local Technical Assistance Program is a program of the Upper Great Plains Transportation Institute, a research and education center at North Dakota State University.

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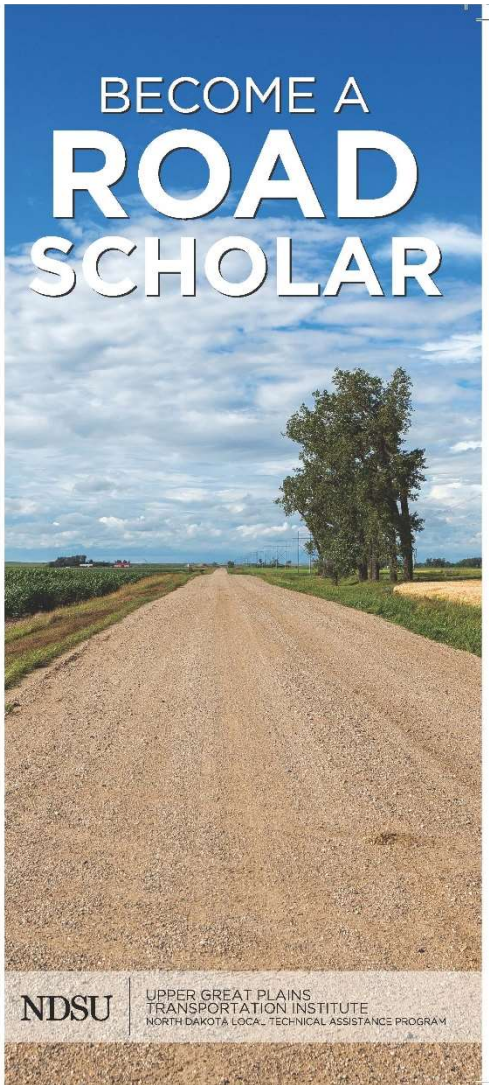
1 | 2018

BECOME A ROAD SCHOLAR



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NORTH DAKOTA LOCAL TECHNICAL ASSISTANCE PROGRAM

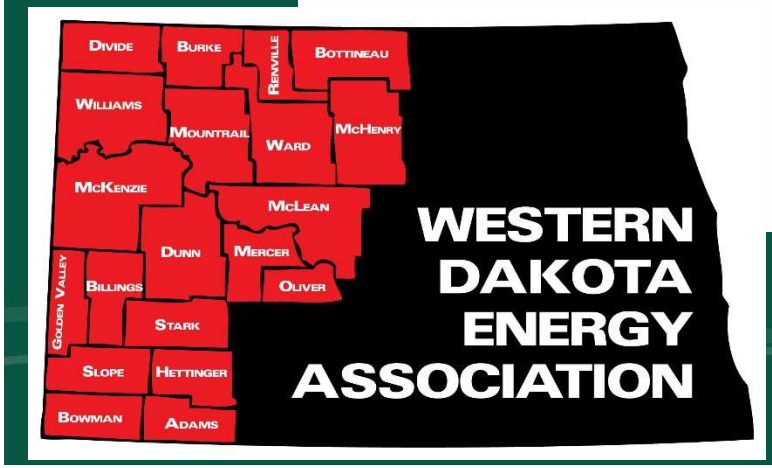
Sandy Baisch

Road Scholars

Days 'Till
Christmas
NEXT
COUNTY ROAD
ROUGH
ROAD
Lets get plowed
TIME CARDS
CROSSING PERMITS
INVOICES

Truck Overweight Permit System

LoadPass PERMITS



NDSU

To All Local ND Agencies

What innovation have you designed in your shop to enhance the safety of your fellow co-workers, employees, or the motoring public? Maybe the innovation reduces the manual labor needed for a particular job thus reducing down time and resulting in a savings of time, money and manpower to your agency and the tax payers?

NDLTAP encourages you to enter the 2019 You Show Us contest! The contest is an opportunity to share your innovative ideas with others and give them the chance to benefit from your creativity. The contest is great chance for your department to get well-earned recognition for your efforts. It is a morale booster!

2018 INNOVATIONS

A. Crack Leveling Material Spreader, City of Dickinson
B. Sign Reflectivity Assessment Tool, Burke County
C. Swing-A-Way Bridge Marker, Bottineau County
D. Sign Rack in Sign Truck, Billings County

Award

The 1st place winner will receive one paid trip to the Regional Local Roads Conference in Rapid City, SD. The award includes bus travel, conference registration and hotel. This year the conference is on October 16–17, 2019. The state and regional awards will be presented at the conference. The trip includes bus travel, hotel, and conference registration. The state and regional awards will be presented at this conference.

2018 City of Dickinson – State Winner

(l. to r. Noel Clocksin, SDDOT; **Darryl Wehner, Scott Hirning, Ramon Jimenez, City of Dickinson**; Leanna Emmer, NDLTAP)

CONTACT:

Leanna Emmer
Office: (701) 220-4595
leanna.emmer@ndsu.edu

Upper Great Plains Transportation Institute
North Dakota State University

North Dakota Local Technical Assistance Program (NDLTAP)

www.ndltap.org

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2019 "You Show Us" CONTEST

NDSU UPPER GREAT PLAINS TRANSPORTATION INSTITUTE

Statewide Field Rep
NEW FOR 2018

2019 Plans?

Scope of Work

North Dakota Local Technical Assistance Program (NDLTAP) will provide the necessary staffing to provide technical assistance to the counties on a statewide basis in the following areas, but not limited to:

- Road repair strategies
- Dust suppression alternatives
- Information on Truck size and weight impacts
- Traffic management
- Safety Enhancements
- Provide on-site technical support
- Assist with implementing an Asset Management Program
- Planning Activities
- Project Development
- Everyday Counts (EDC)
- TRIP Program
- Asset Management
- Leadership Development
- Material Specification and Development
- Prioritize System Needs
- Level of Service
- Public Engagement

ND
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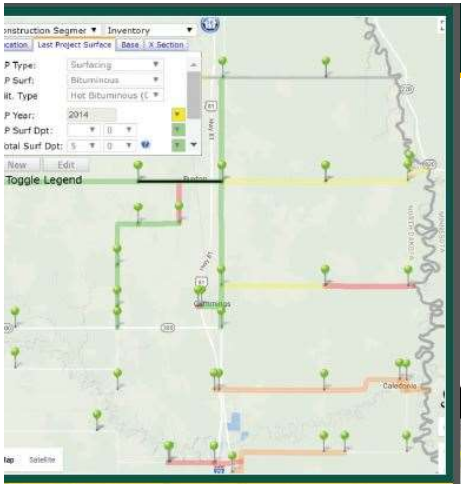
HNICAL ASSISTANCE PROGRAM



GRIT:

Geographic Roadway Inventory Tool

An asset inventory tool helping local governments preserve and maintain roads and bridges

Created by the Upper Great Plains Transportation Institute at North Dakota State University

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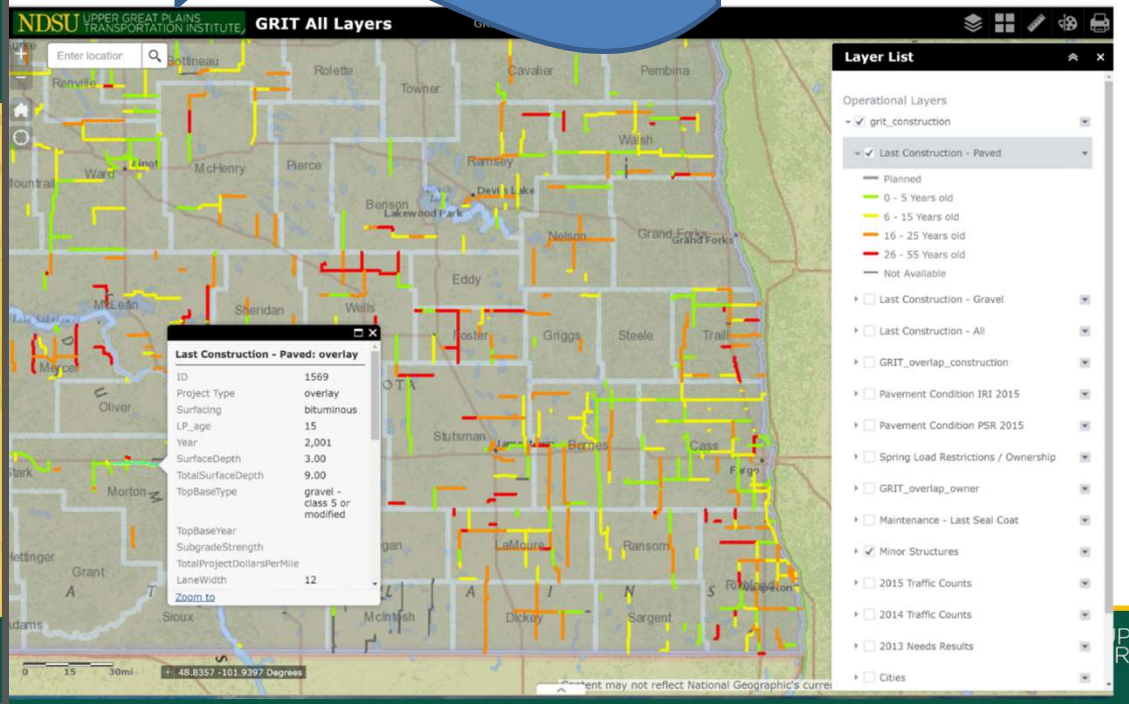
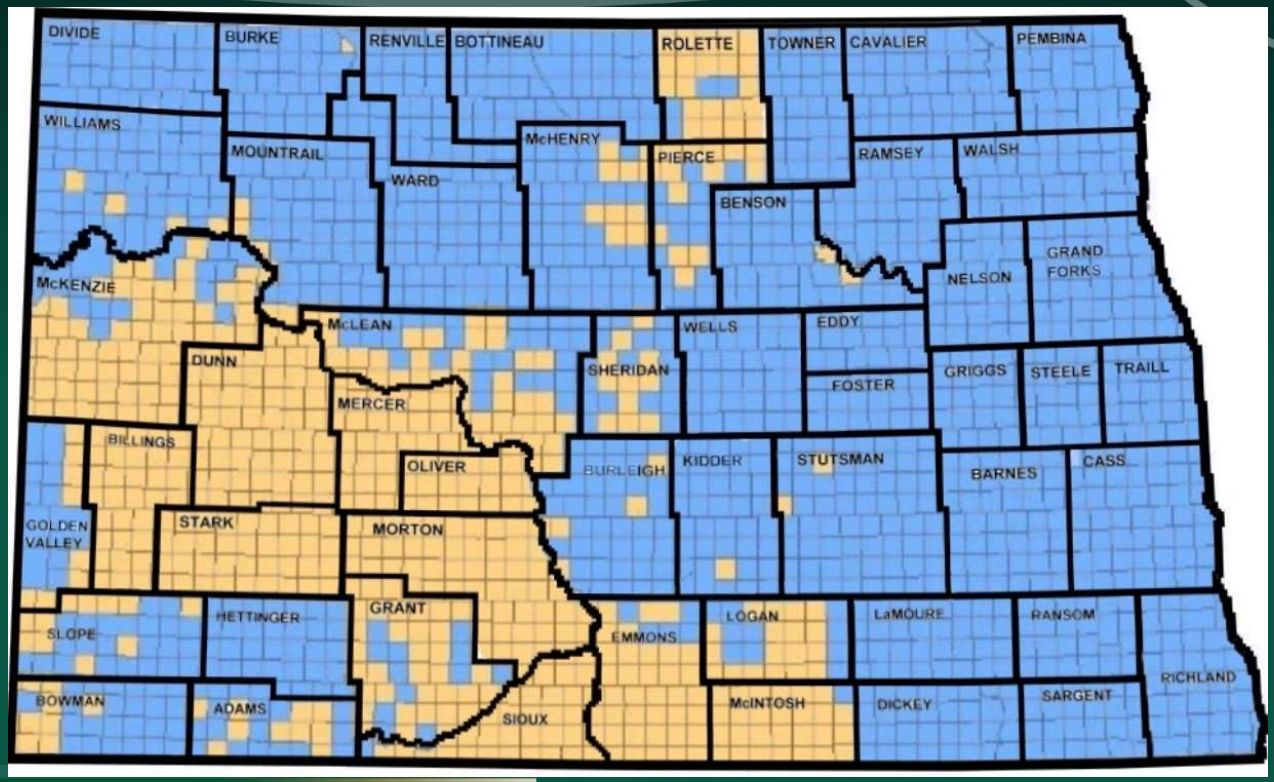
Data Geospatially combined with Pavement Condition and Traffic Data



1,360 Organized Townships



NDTOA North Dakota Township Officers Association

State Township Officers Meeting

NDS

NRRA
National Road Research Alliance

MnROAD
Safer, Smarter, Sustainable Pavements Through Innovative Research

Current NRRA Agency Members

National Center for Asphalt Technology
NCAT
at AUBURN UNIVERSITY

The MnROAD test track was initially constructed between 1991-1993 and is one of the most sophisticated, independently operated pavement test facilities of its type in the world.

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RAMSEY COUNTY PREFAB BRIDGE INSTALLATION LIVE DEMO

On-site

3 Hours – Road Scholar Credits

July 16, 2018 (Monday) at the Ramsey County Highway Department, 919 5th St S, Devils Lake ND

1:00 – 2:00 PM CST – TrueNorth Steel Representative Presentation and Q&A

2:00 – 4:00 PM CST- Field Installation – Live Demo

Bridge Site Address– 5790 89th Ave NE, Devils Lake, ND

Ramsey County will be installing a prefab bridge, it is an 80 foot long and 28 foot wide structure and will be in three 80 foot long pieces. The bridge has been purchased from TrueNorth Steel. This is the longest bridge of this style in North Dakota.

RAMSEY COUNTY HIGHWAY DEPARTMENT

TrueNorth Steel®

If you have questions about this event contact NDLTAP @ 701-328-9855

ndltap@ugpti.org

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Ramsey County – Bridge Set

ND Local Technical Assistance Program

Butterflies & Our Future

North Dakota Association of Counties Conference
October 8, 2018 - Bismarck

Dale C. Heglund, PE/PLS, NDLTAP Director

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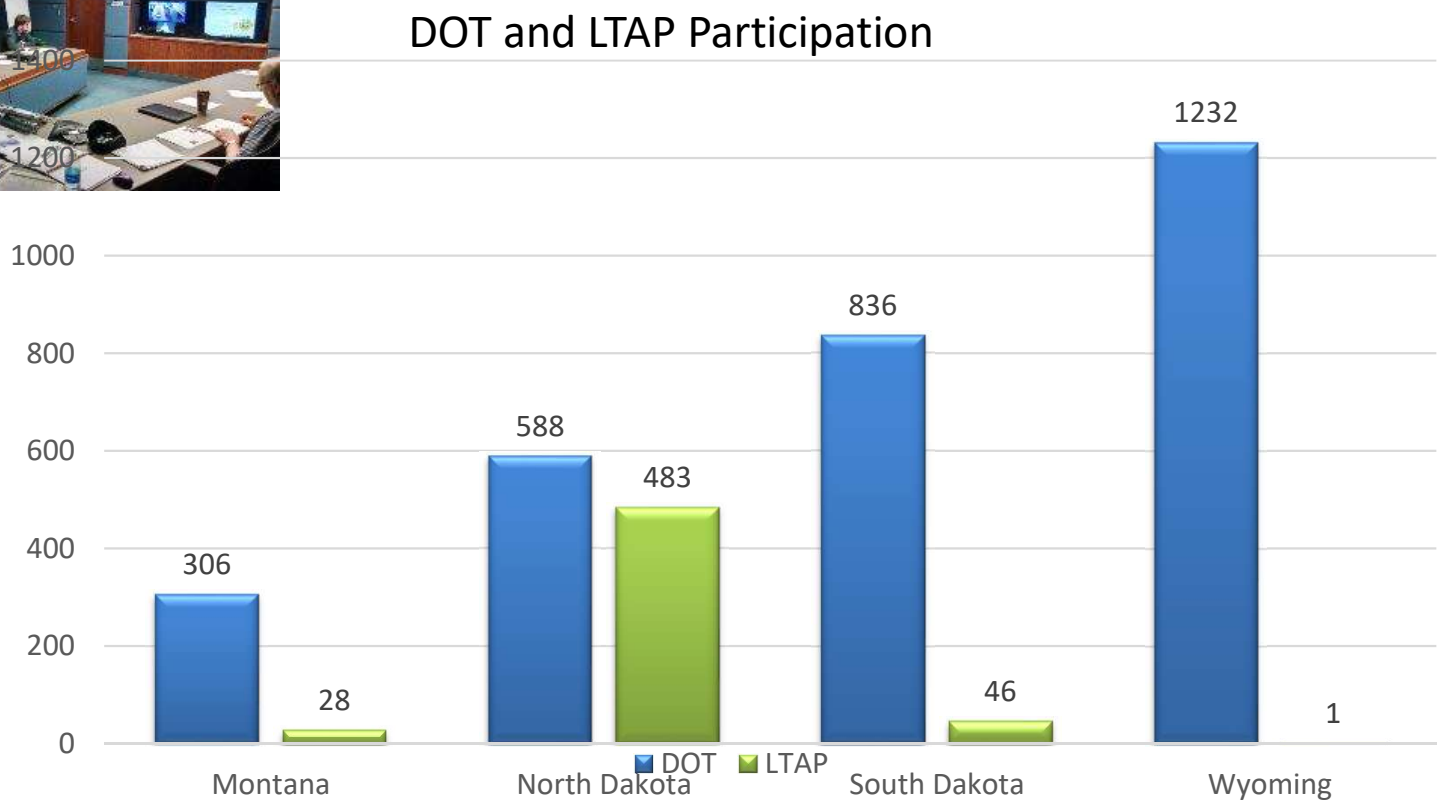
Transportation Learning Network

A Partnership of DOTs and Universities

2017-2018 ENROLLMENT



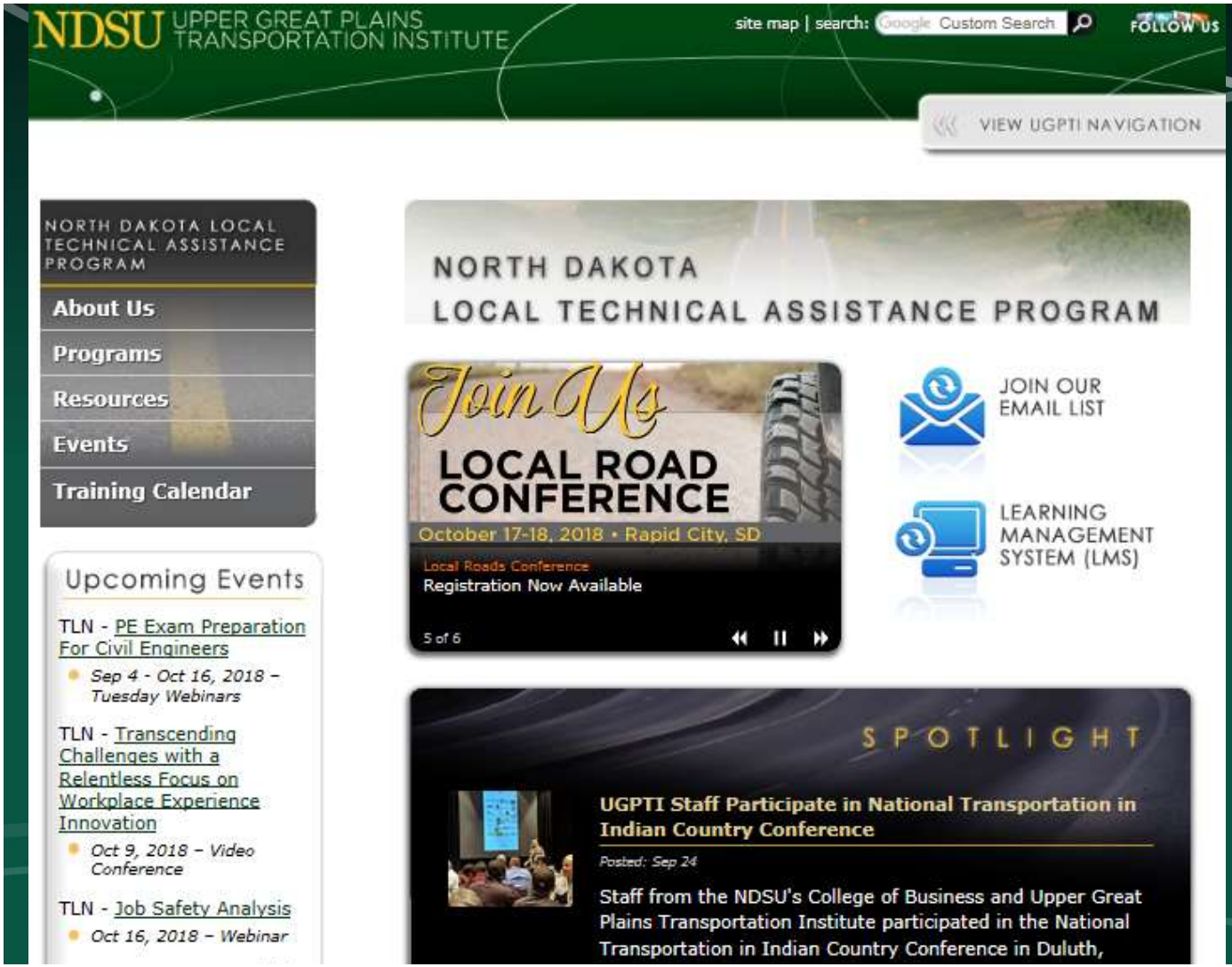
North Dakota Association of County Engineers

Rapid City Conference

Where Do We Start?
START
NORTH DAKOTA

Rapid City Scholarships

$85 Conference
+ $25 Bus Ride



NDLTAP

"The Resource of Choice"

Let’s get our family and friends home safe everday!

NDSU

UND
UNIVERSITY OF NORTH DAKOTA
DAKOTA ASPHALT
PAVEMENT ASSOCIATION
APWA
ND ASSOCIATION OF OIL AND GAS PRODUCING COUNTIES
THE ASSOCIATED GENERAL CONTRACTORS
AGC
North Dakota
Northland Chapter Of
ATSSA
U.S. Department of Transportation
Federal Highway Administration
Transportation
Learning Network
NATIONAL ASSOCIATION
NACE
COUNTY ENGINEERS
NDIRF
NDDOT
North Dakota
Department of Transportation
NDACo
NORTH DAKOTA ASSOCIATION OF COUNTIES
for the good of all counties!
ARTBA
American Road & Transportation Builders Association
ACEC
American Council of Engineering Companies
of North Dakota
NDTOA
North Dakota Township
Officers Association
NORTH DAKOTA
LEAGUE OF CITIES
ARRA
National
LTAP & TTAP
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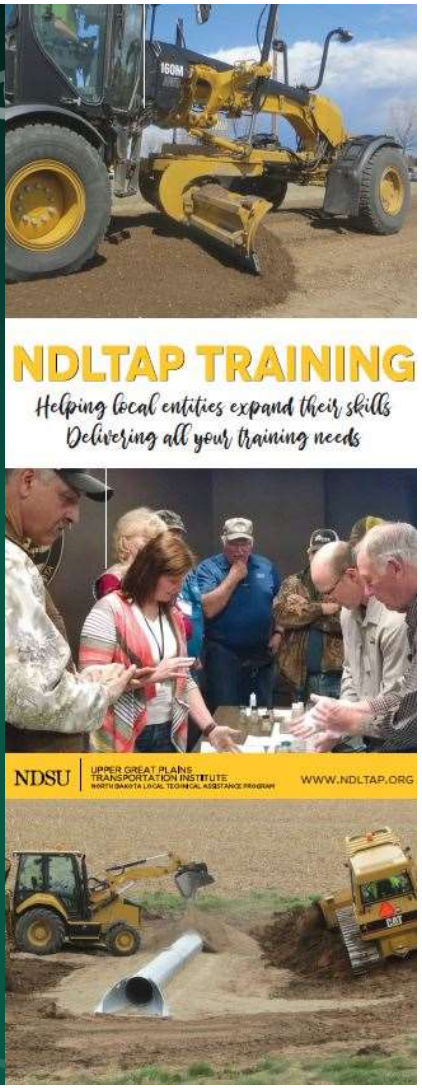
NDLTAP

Local Technical Assistance Program

Together, we do great things!

Dale C. Heglund
701-318-6893
dale.heglund@ndsu.edu

"Helping local transportation leaders grow"

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