

NDSU/UGPTI UPDATE ON TRAINING

2015 NDDOT Construction Conference



MISSION

Providing innovative transportation research, education, and outreach that promote the safe and efficient movement of people and goods.

- *Research*
- *Education*
- *Outreach*

EDUCATION & OUTREACH RESOURCES

- DOT Support Center (DOTSC)
 - <http://www.ugpti.org/dotsc/>
- Engineering & Technical Training
- Local Technical Assistance Program (LTAP)
 - <http://www.ndltap.org/>
- Transportation Learning Network (TLN)
 - <http://www.translearning.org/>

DOT Support Center (DOTSC) Advanced Traffic Analysis Center (ATAC)



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CONSTRUCTION PROJECT MANAGEMENT

Purpose

- To deliver uniform training to reduce NDDOT staff support of consultants, reduce errors, and increase the efficiency and effectiveness of construction program delivery.

Target Audience

- NDDOT, Consultants, and Local Government staff assigned as Managers of NDDOT Construction Projects

Certification

- Will be issued upon successful completion of course
- NDDOT considering certification requirements (3 year)

CONSTRUCTION PROJECT MANAGEMENT

Status

- 2014 – 5 Classes, 2015 – 4 complete with 1 more in March
- Trained roughly 260 to date

Instructors

- Brian Fuder – UGPTI Engineering Training Manager
- NDDOT Construction Representative

Registration

- Transportation Learning Network/LTAP Learning Management System. <http://tln.learnflex.net>

INTRODUCTION TO HIGHWAY CONSTRUCTION (TRANS TECHS)

Target Audience

- NDDOT Maintenance Transportation Technicians
- Highway Maintenance experience with minimal construction experience

Proposed Dates & Locations

- April – May 2015
- Bismarck, ND

INTRODUCTION TO HIGHWAY CONSTRUCTION (ENGINEERS & TECHS)

Target Audience

- Newly Graduated Engineers and Technicians
- Minimal to no DOT construction experience

Proposed Dates & Locations

- Roughly end of May 2015 – Following Graduation
- Bismarck, ND

DOTSC ON-LINE TRAINING MODULES AND VIDEOS

CARS

- Self paced with knowledge checks

YouTube Videos

- Videos on test procedures for Soils and Aggregates
- Wash test, Angularity, Lightweight, Gradation, Sand Cone, Speedy, Proctor, Balloon, etc..

Links on DOTSC website at: <http://www.ugpti.org/dotsc/>

NEW SELF-PACED TRAINING ONLINE MODULES

Wash Test

*Sieve Analysis

Lightweight Pieces in Aggregate

Access at: <http://www.translearning.org/>

*Publication date: May 1, 2015

See brochure for complete listing of Materials Testing Self-Paced Training Online Modules and Video Demos



MATERIALS TESTING

Self-Paced Online Training Modules
Video Demonstrations



Engineering & Technical Training



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ENGINEERING & TECHNICAL TRAINING PROGRAM (ETTP)

October 2012

Amended Dec 2014

Monthly & Quarterly Meetings

Specific Exploratory Areas

Bridge Construction Inspection

Survey Training

GIS

Maintenance/Shop Personnel

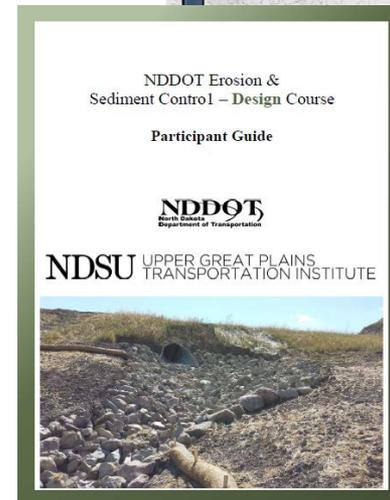
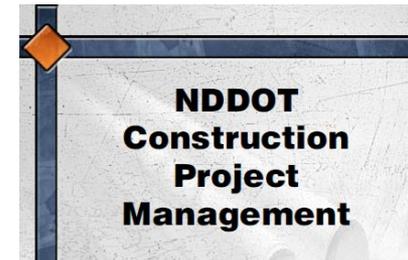


ETTP PRIMARY AUDIENCES

- NDDOT
- Local Governments (LTAP)
- Consultant Engineers (LTAP)
- Contractors (LTAP)

TRAINING DELIVERED/DEVELOPED

- Work Zone Safety & Mobility:
 - ATSSA Courses
- Construction Project Management
- Erosion & Sediment Control
 - Design
 - Construction



EROSION & SEDIMENT CONTROL

- Two Courses:
- Design
 - Pilot held in November 2014
 - 3-day course
- Construction
 - Pilot held February 2015
 - 2-day course
- Future courses at the discretion of the NDDOT

BRIDGE CONSTRUCTION INSPECTION

First meeting January 30

Future meetings

March 9 – more to follow

SME

NDDOT Bridge Division

NDSU/UGPTI

NDDOT District Rep

Discuss needs and develop proposal



ND Local Technical Assistance Program (LTAP)



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NDLTAP

Services:

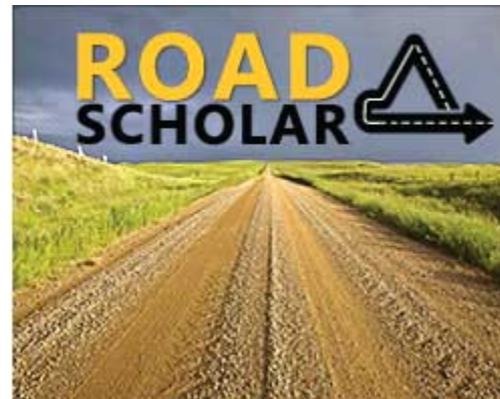
- Newsletter, quarterly
- Workshops
- Technical Assistance
- Information Services

Road Scholar Program

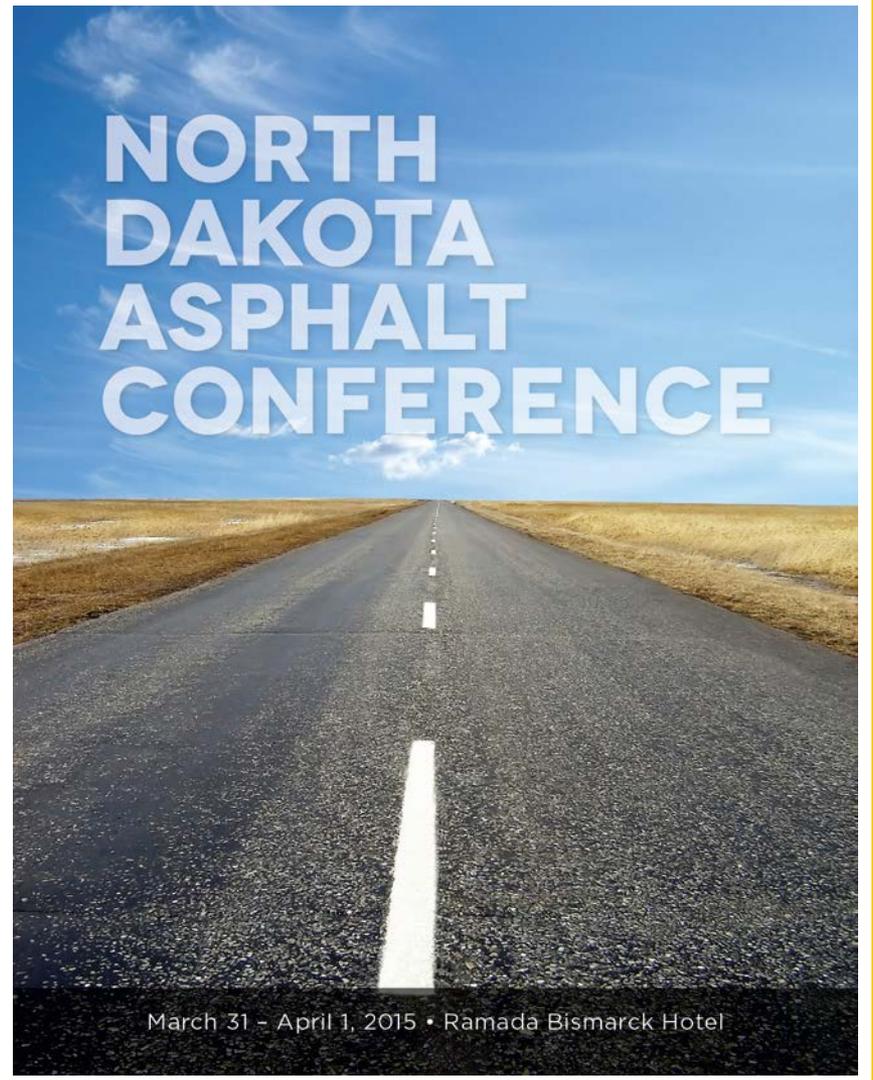
- Erosion & Sediment Control
- Culvert Installation
- Work Zone Safety

Staff:

- Denise Brown
- Sandra Baisch
- Chris Padilla
- Steve Chase
- Leanna Emmer



- Registration is live
- Varied Topics
- Diverse Speakers
- More Information at:
www.ndltap.org



Transportation Learning Network (TLN)



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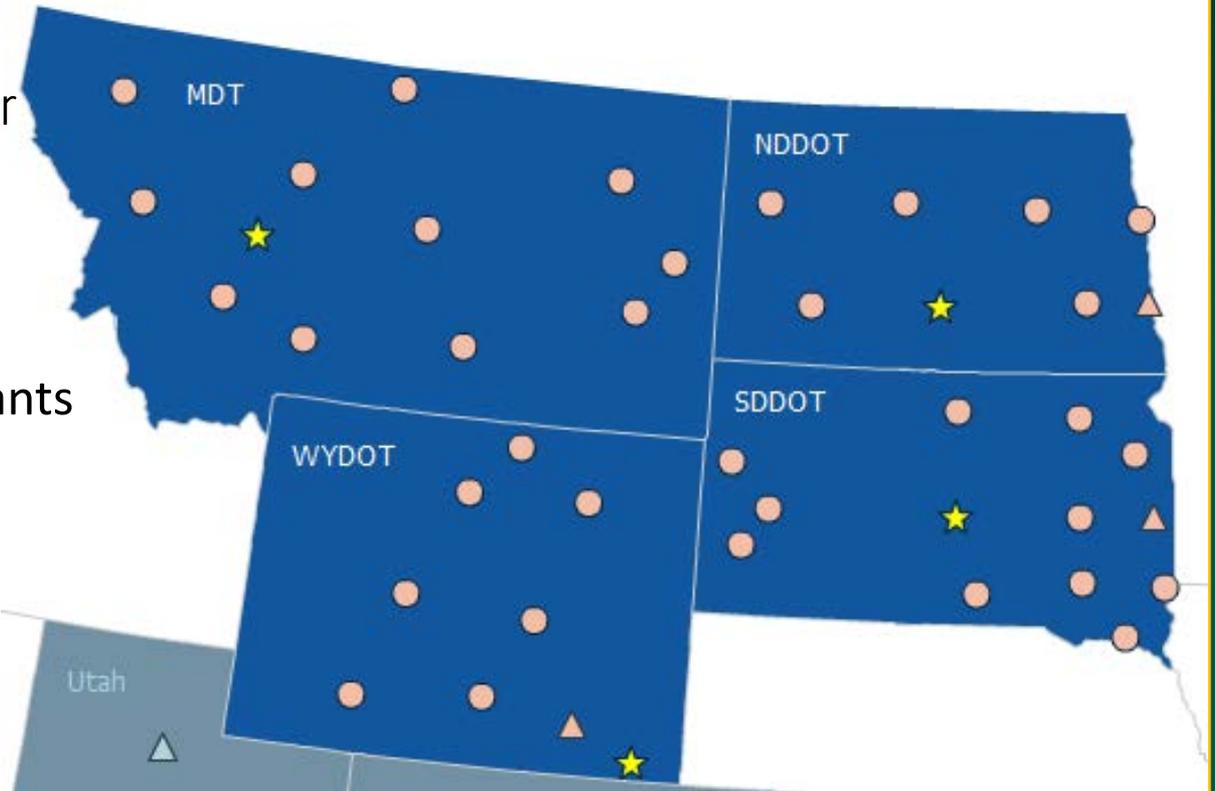
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Transportation Learning Network

- Member States
 - Montana DOT, NDDOT, SDDOT, WYDOT - Also MPC Contribution
 - Primary Staff: Sue Hendrickson, Dale Heglund, Brian Fuder, Tim Horner, Rachel Leigh, and Sandy Stephenson

Primary Video Conference Sites

- ~50 events/year
- 49+ sites
- 2013-14 Attendance
 - 3891 participants
 - 814 in ND
 - TLN 490
 - LTAP 324



TLN INFO

- There are three ways to train:
 - Live video conference
 - Webinars
 - On-line Modules
- Recordings available
- Categorized training

www.translearning.org

Thank you!

2015 NDDOT Construction Conference

Chris Padilla

Upper Great Plains Transportation Institute

North Dakota State University

www.ugpti.org