

NDSU/UGPTI UPDATE ON TRAINING

2016 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/>

Engineering & Technical Training



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ENGINEERING & TECHNICAL TRAINING PROGRAM (ETTP)

October 2012

Amended Dec 2014

Ends December 2016

Monthly & Quarterly Meetings

Specific Exploratory Areas

Bridge Construction Inspection

Maintenance/Shop Personnel

Training Matrices

Work Zone Safety Courses

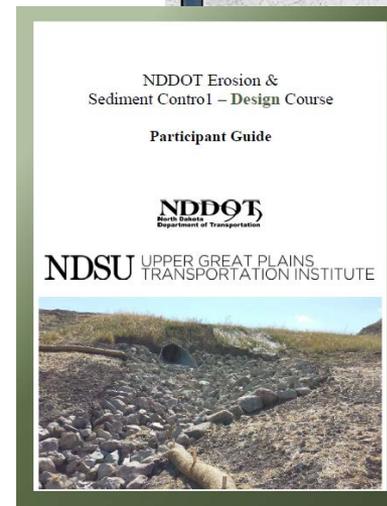
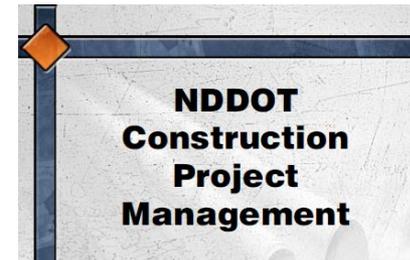


ETTP PRIMARY AUDIENCES

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

TRAINING DELIVERED/DEVELOPED

- Work Zone Safety & Mobility:
 - ATSSA Courses
 - March 8, 9, 10-11
- Construction Project Management
 - Mar 2-3, 2016 (Bismarck)
- Erosion & Sediment Control
 - Construction
 - March 9-10, 2016 (Fargo)
 - March 16-17, 2016 (Minot)



BRIDGE CONSTRUCTION INSPECTION

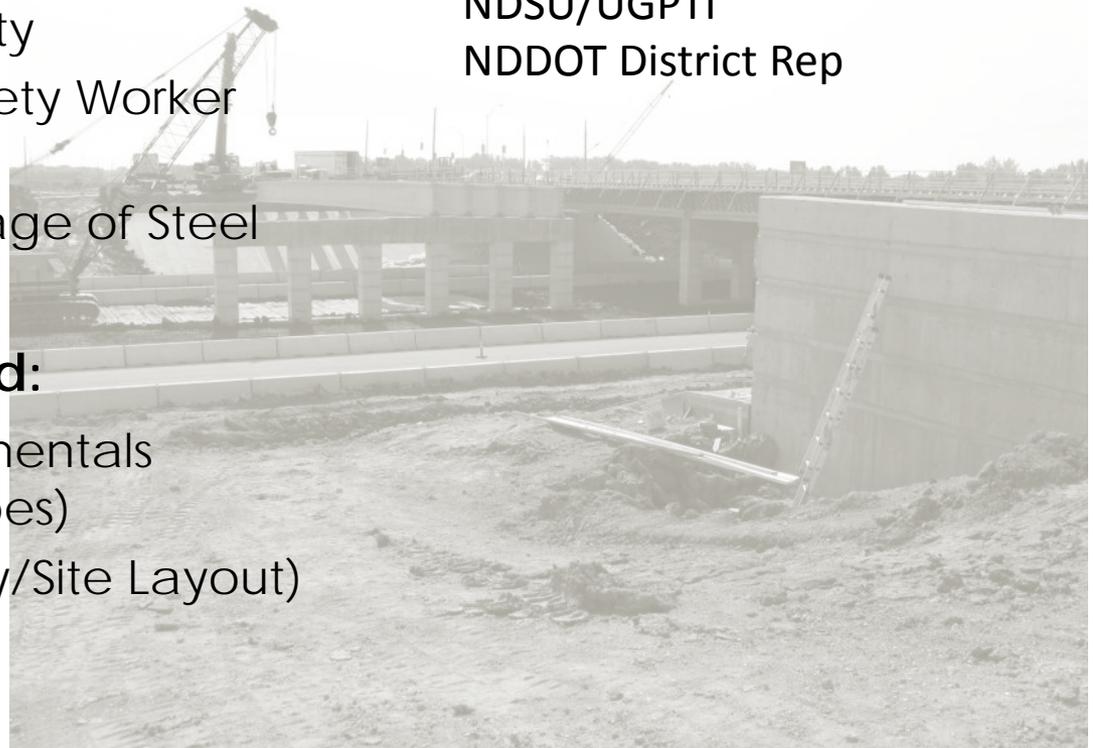
Existing online training modules: SME

- Heavy Equipment
- Inspector Safety
- Bridge Site Safety Worker Orientation
- Handling/Storage of Steel

NDDOT Bridge Division
NDSU/UGPTI
NDDOT District Rep

Topics to be explored:

- Bridge Fundamentals (Components & Types)
- Staking (Survey/Site Layout)
- Excavating
- Pile Driving



BRIDGE CONSTRUCTION INSPECTION

Future Topics:

- Update/Expand the Reinforcing Steel Module
- Concrete
- Welding
- Bolting
- Beams and Girders
- Painting
- Bridge Rehabilitation/Deck Overlays
- MSE Walls and other complimentary components



WORK ZONE SAFETY & MOBILITY

Provide ongoing training

- ATSSA Truck Mounted Attenuator (March 8)
- ATSSA Traffic Control Technician (March 9)
- ATSSA Traffic Control Supervisor (March 10-11)

Other classes by request

- ATSSA Traffic Control Design Specialist
- ARTBA/OSHA 10-Hour

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



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Program Director - ATAC
Program Director - DOTSC
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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

- Certified 371 to date

Instructors

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

Registration/Information

- UGPTI DOTSC dedicated website:
<http://www.ugpti.org/dotsc/training/>

EROSION & SEDIMENT CONTROL - CONSTRUCTION

Purpose

- To educate and inform construction personnel on the regulations, specifications, erosion and sediment control measures, and SWPPP development that apply to and best serve construction personnel in effectively managing assigned construction projects.

Target Audience

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

Certification (3-Year Required starting in 2017)

- Will be issued upon successful completion of course

EROSION & SEDIMENT CONTROL - CONSTRUCTION

Status

- Certified 200 to date

Instructors

- Matthew Stone, Ph.D. – NDSU, CM&E
- Matt Sperry – NDDOT Construction Services
- Dallas Grossman – NDDoH, Stormwater
- Bob Shannon – UGPTI

Moderator

- Brian Fuder – UGPTI Engineering Training Manager

Registration/Information

- UGPTI DOTSC dedicated website:
<http://www.ugpti.org/dotsc/training/>

INTRODUCTION TO HIGHWAY CONSTRUCTION (TRANS TECHS)

Target Audience

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

Updated Curriculum

Proposed Dates & Locations

- April – May 2016
- Bismarck, ND

INTRODUCTION TO HIGHWAY CONSTRUCTION (ENGINEERS & TECHS)

Target Audience

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

Updated Curriculum

Proposed Dates & Locations

- Roughly end of May 2016 – 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..

YouTube Channel

- <http://tinyurl.com/nddotmaterialsyoutube>

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

- Fliers in the back



MATERIALS TESTING

Self-Paced Online Training Modules
Video Demonstrations



ND Local Technical Assistance Program (LTAP)



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NDLTAP

Services:

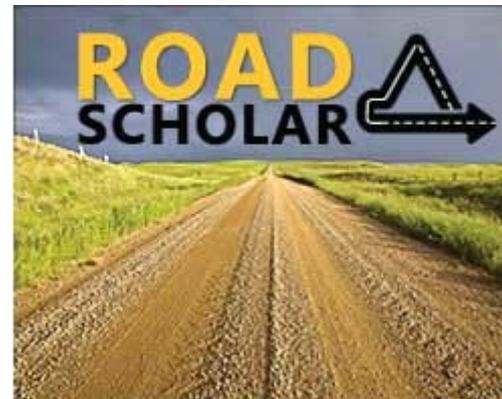
- Newsletter, quarterly
- Workshops
- Technical Assistance
- Information Services
- Legislative Study Support

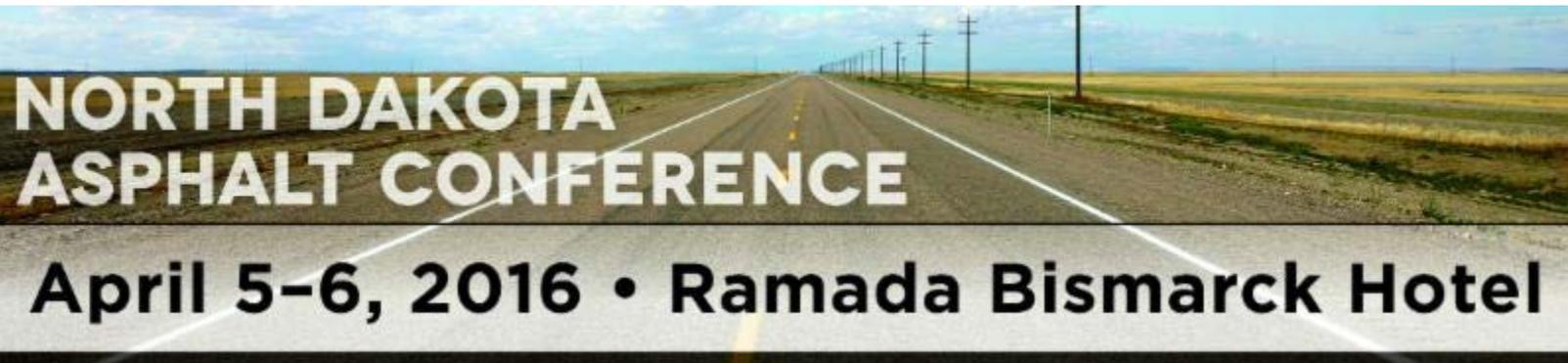
Road Scholar Program

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

Staff:

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





NORTH DAKOTA ASPHALT CONFERENCE

April 5–6, 2016 • Ramada Bismarck Hotel

- Registration is live
- A broad base of topics and speakers including **Buzz Powell**
- More Information at:
<http://www.ndltap.org/events/asphalt/>

Transportation Learning Network (TLN)



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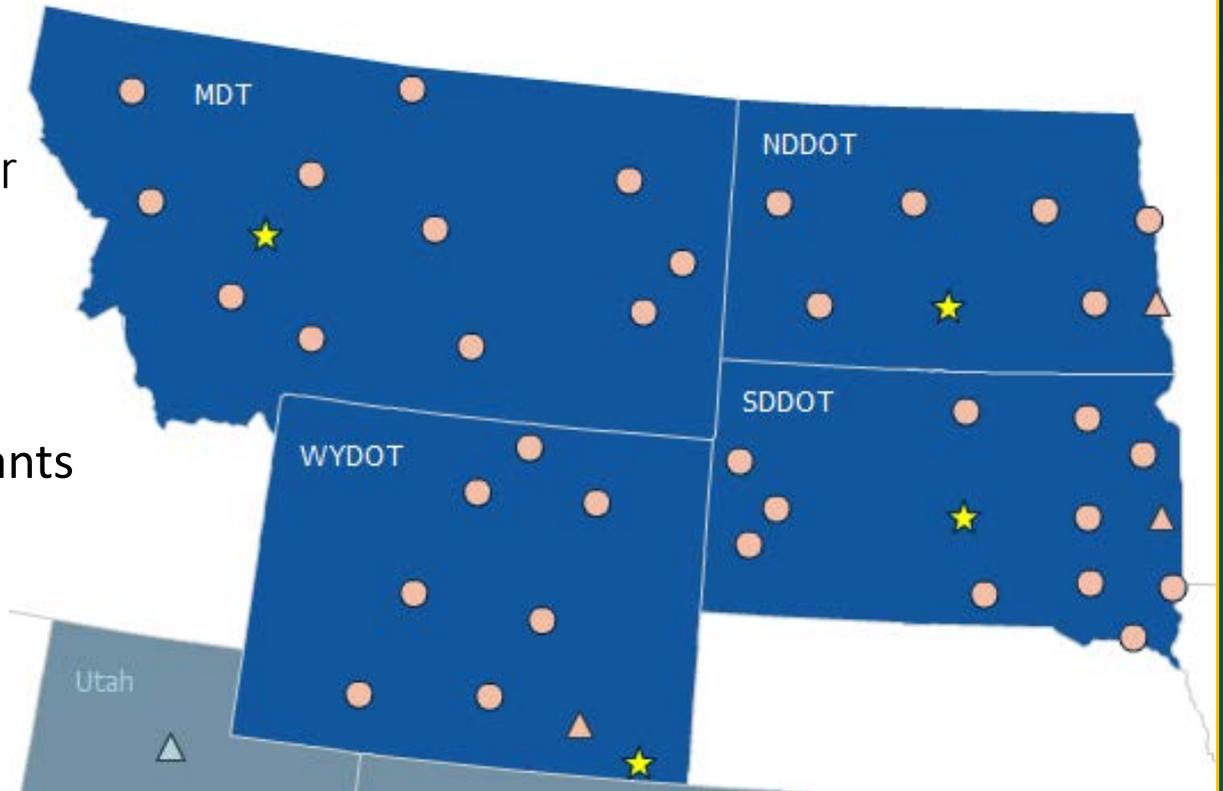
timothy.horner@ndsu.edu

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, Jo Bogner, and Shannon Olson

Primary Video Conference Sites

- ~50 events/year
- 49+ sites
- 2014-15 Attendance
 - 4390 participants
 - 656 in ND
 - TLN 366
 - LTAP 290



TLN INFO

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

www.translearning.org

CATEGORICAL TRAINING

TRAINING OPPORTUNITIES
recorded sessions and online modules
[view LMS Help videos and files](#)

	Civil Rights		Materials
	Construction		Planning
	Design		Professional Development
	Environmental		Safety/Workzone
	Maintenance		

UPCOMING TRAINING

Can be found on TLN website:

<http://www.translearning.org/events/view.php>

- ATSSA TMA & TCT
- Roundtable: Traffic Data Collection
- Practical Bridge Scour Analysis
- CPM – Contract Admin
- Negotiation Strategies
- Ethics in Transportation
- Fundamentals of Geometric Design: Exploring the “Green Book”



Thank you!

2016 NDDOT Construction Conference

Chris Padilla

Upper Great Plains Transportation Institute

North Dakota State University