

# Remote Training Techniques of the Transportation Learning Network

**National Pavement Preservation Conference**  
**August 29, 2012**  
**Nashville, Tennessee**

Upper Great Plains Transportation Institute  
North Dakota State University

**Tim Horner**

Program Director

Transportation Learning Network

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# Presentation Objectives

- Briefly explain TLN program, member states and staff.
- Explain how TLN delivers training in general.
- Identify training specific to pavement preservation.
- Show how clients can access upcoming, recorded and web-based training.



# Key Concepts of TLN

- Technical training emphasis.
- Reduce travel of speakers and attendees.
- Warehouse training for replay.
- Pool efforts.
- Use technical staff to coordinate technical programs and presentations.
- Video conference, webinars and web-based modules.



# Transportation Learning Network

- **Mission**

- TLN provides quality and cost-effective customer-driven training utilizing alternative platforms that meet the needs of the state, county, city, tribal and private transportation professionals.



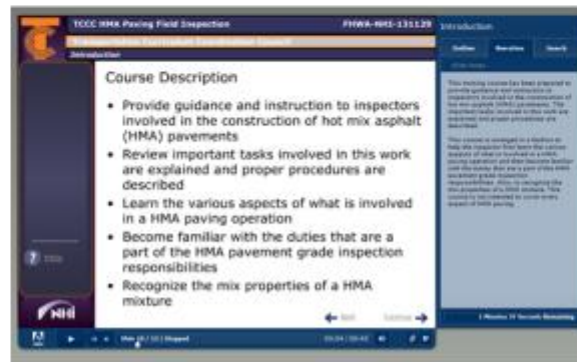
# Transportation Learning Network - 3 Ways to Train



**Video Conference**



**Webinar**



**On-line Module**



# TLN Pooled Partnership

- Member States:
  - North Dakota DOT (lead state)
  - South Dakota DOT
  - Wyoming DOT

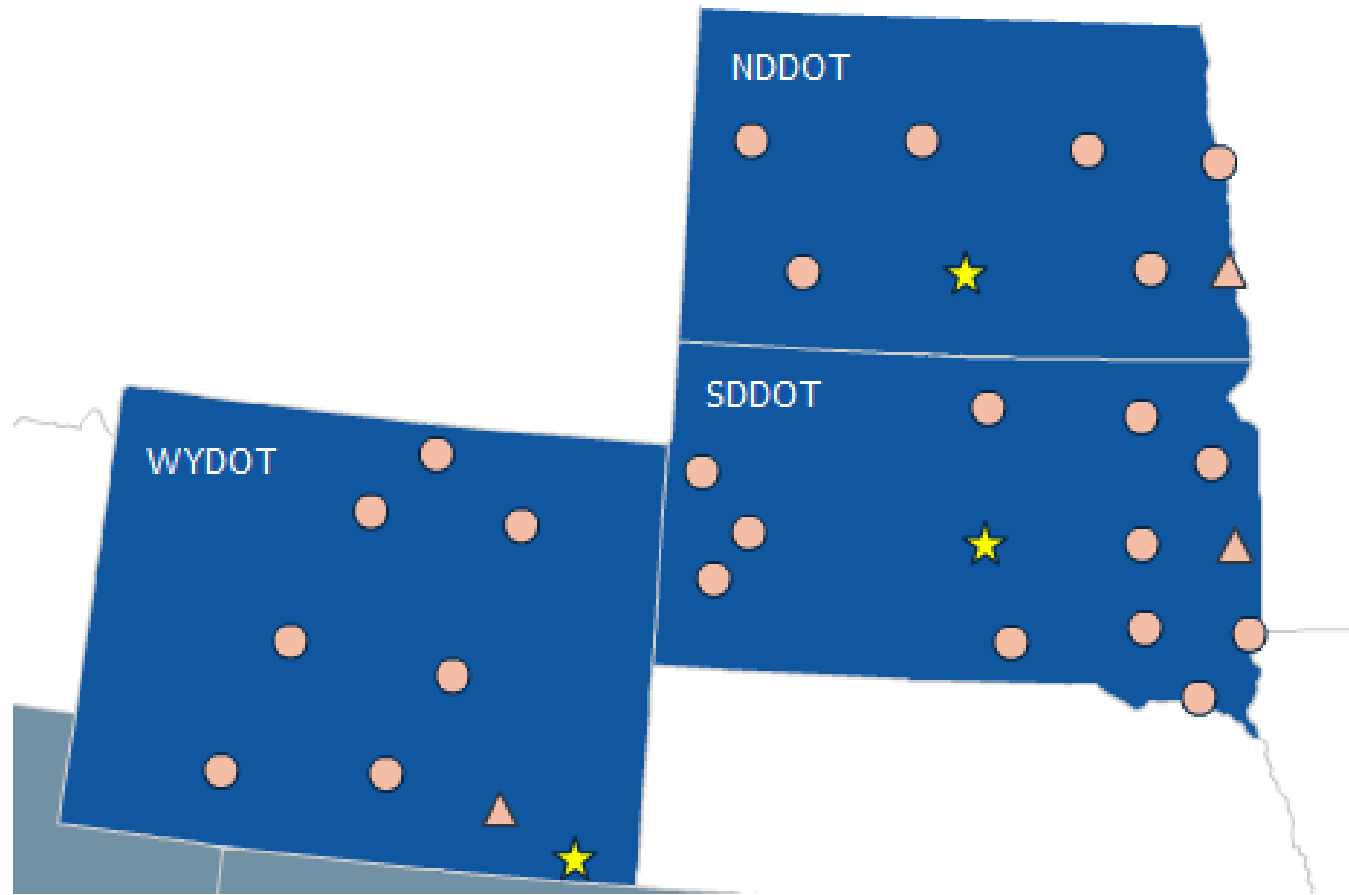


# TLN Additional Partners

- Mountain Plains Consortium of Eight Universities
  - NDSU, SDSU, U-Utah, U-WY, CSU, U-Colorado-Denver, U-Denver, USU
- North Dakota LTAP Staff Contribution
  - Allows NDLTAP customer participation
  - SDLTAP has become significant user as well



# Primary Video Conference Sites





# Staffing

- **Tim Horner** – Program Director
  - Civil Engineer – 32 years with NDDOT
  - PE, MPA (Design, Bridge, Planning, Exec office)
- **Darcy Rosendahl** – NDLTAP Director
  - Civil Engineer – 30 years with NDDOT
  - PE (Construction, Design, Materials, Operations)
- **Sue Hendrickson** – Manager, learning management system and video conf. bridge
- **Rachel Leigh** – Instructional Designer, web based modules



# 2011-2012 Highlights

- 32 Total Presentations
- 28 by Video Conference
- 4 by Webinar
- About 22 were held in 2010-2011
- Attendance – 3061 ('11-'12) versus 1759 ('10-'11) (74% increase)



# 2010-2012 Topics

- **Alternatives to Paving**
- **Americans with Disabilities – Design of Pedestrian Facilities for Access**
- **Transportation Asset Management for Local Agencies**
- **Breaking through the Barriers: Core Skills for Interpersonal Communication**
- **Composite Concrete Pavements - Wet on Wet**
- **Cold-in-Place / Full Depth Recycling**
- **Construction Inspection Work Plan Development**



# 2010-2012 Topics (cont.)

- **Design and Construction of Full Depth Reclamation Bases with Portland Cement**
- **Erosion & Sediment Control**
- **Geosynthetic Reinforced Bases and Sub-bases**
- **Gravel Roads Maintenance**
- **HSM Practitioner's Guide for Rural Two-Lane Roads**
- **Hiring Smart: Using Behavior Questions to Find the Best Candidates**



# 2010-2012 Topics (cont.)

- **Pavement Preservation**
- **Noxious Weeds**
- **Making Meetings Work**
- **Managing Conflict**
- **Managing Organizational Communication**
- **Microsurfacing/Slurry Seals**
- **OSHA Work Zone Safety – 10 hr.**



# 2010-2012 Topics (cont.)

- **PE Review for Civil Engineers**
- **Pipe Construction Inspection**
- **Prefabricated Bridge Elements and Systems**
- **Rural Road Safety through Maintenance Operations**
- **Seal Coat Workshop**
- **Self-Consolidating Concrete**
- **Seven Habits of Highly Effective People**



# 2010-2012 Topics (cont.)

- **Basic Sign Installation & Maintenance**
- **Snow & Ice Control**
- **Solid & Hazardous Waste Issues, Ideas, & Resources**
- **Supervisory Training – Results Based Performance Management**
- **Technical Resources for Crash Reduction Improvements**
- **The Fred Factor**



# 2010-2012 Topics (cont.)

- **Tractor Operator Safety: Roadside Mower Training**
- **Traffic Control for Workers in Construction Zones**
- **Traffic Control for Supervisors**
- **Warm Mix Asphalt**
- **Diversity and its Implications for Transportation Managers**





# Identifying Training for Annual Program

- Priority Setting
  - June – July Timeframe
  - 100 topics presented across 7 areas:
    - Construction, Design, Maintenance, Materials, Planning, Safety & Professional Development
  - Committee rates topics high, med & low
  - We then advance 30 to 35 topics for the coming year.



# Identify Training for Annual Program

- Some are repeated each year
- Examples:
  - Work Zone Safety
  - Seal Coat Workshop
  - OSHA Work Zone Safety - 10 Hr.
  - Roadside Mowing Safety



# Identifying Training for Annual Program

- Research
  - We try to present implementable research developed by the Mountain Plains Consortium.
  - Have done several by webinar – 90 min.
  - Post research paper and recorded session on our LMS for replay.



# Identifying Training for Annual Program

- Research
  - We are always interested in hosting research topics.
  - Easy to Schedule - Don't need to reserve conference rooms for webinars
  - Fair amount of pre-work is required with webinars to check compatibility of speakers and computer equipment with software.



# Pavement Preservation Courses 2011-2012

- Seal Coat Workshop – 139 attendees
- Slurry Seal and Micro-Surface Workshop-  
112 Attendees
- Basic Concepts for Pavement  
Preservation – 56 attendees
- Asset Management for Local Agencies –  
56 attendees



# Learning Management System

- Currently using Opentext-Learnflex.
- Provides an interface for course description and registration.
- Provides Interface for replays of past sessions.
- Provides learning planning tools.
- Provides tracking of achievements or completions.



# Learning Management System Login Page



**Transportation Learning Network**  
*A Partnership of DOTs and Universities*

Language: Profile ▾

**Login:**

user name:

password:

[Remind me of my password](#)

Welcome! For the best experience, and to take part in our offerings, please login or create a new account ([Guide to Creating an Account](#)).

But if you'd prefer to just browse our calendar and/or catalog of courses, [click here](#) and create an account later.



# Learning Management System Calendar

Region/Location Filtering

**July 2012**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	1	2	3	4

09:00a-12:00p (GMT -06:00)  
**The Changing Face of America: Diversity and Its Implications for Managers**





# Learning Management System Main Menu

## Courses / Registration

### Catalog List

- 1 Global
- 2 Online Courses - May need to launch from Internet Explorer
- 3 On-site
- 4 Resource Library
- 5 Video Conference - Previously Held
- 6 Video Conference - Upcoming
- 7 Webinars - Recorded
- 8 Webinars - Upcoming



# Learning Management System

## On-line Modules (page 1 of 5)

### Courses / Registration

[Self-Paced Training Modules Catalog](#) » [All Courses Subject](#) » [Course List](#)

Course List	Curriculum Group	(Search for a course by Subject or Cur
1	Bridge Construction Inspection: Inspector Safety	
2	Bridge Site Safety Worker Orientation	
3	Flagger Training	
4	High Visibility Garments	
5	Materials Testing: Aggregate Sampling	
6	Materials Testing: Reducing Aggregate Samples	
7	Personal Protective Equipment	
8	Road Safety 365: A Safety Course for Local Governments – Module 1: The Need for Road Safety (Module 1 of 3)	
9	Road Safety 365: A Safety Course for Local Governments – Module 2: Making Roads Safer (Module 2 of 3)	
10	Road Safety 365: A Safety Course for Local Governments – Module 3: Planning for Safety (Module 3 of 3)	
11	TCCC Advanced Self-Consolidating Concrete (131130)	
12	TCCC Basic Construction & Maintenance Documentation: Improving the Daily Diary (134071)	
13	TCCC Basic Materials for Highway Construction: Basics of Aggregate Inspection and Sampling (131117)	
14	TCCC Basic Materials for Highway Construction: Hot Mix Asphalt Basics (131117)	
15	TCCC Basic Materials for Highway Construction: Introduction (131117)	



# Learning Management System

## Video Conf. – Previously Held (page 1 of 3)

Course List

Curriculum Group

(Search for a course by)

- 1 ADA - Designing Pedestrian Facilities for Accessibility (January 11, 2012)
- 2 Alternatives to Paving (April 28, 2011)
- 3 Alternatives to Paving (May 9, 2012)
- 4 Basic Concepts for Pavement Preservation (April 12, 2012)
- 5 Basic Sign Installation and Maintenance (May 21, 2012)
- 6 Breaking through the Barriers: Core Skills for Interpersonal Communication (March 9, 2011)
- 7 Cold-In-Place Recycling (CIR), Hot-in-Place (HIR ) and Full Depth Recycling (FDR) (February 9, 2012)
- 8 Conflict Management: Improving Your Ability To Deal With Conflict (November 29, 2011)
- 9 Construction Inspection Work Plan Development (Feb. 29, 2012)
- 10 Design and Construction of Full Depth Reclamation Bases with Portland Cement (December 1, 2010)
- 11 Erosion & Sediment Control & Storm Water Pollution Prevention Plans (ND only) (January 30, 2012)
- 12 Geosynthetic Reinforced Subgrades And Bases (February 1, 2012)
- 13 Gravel Road Maintenance (March 7, 2012)
- 14 Highway Pipe Installation – Construction Installation and Inspection Training (April 10, 2012)
- 15 Hiring Smart: Using Behavior Questions to Find the Best Candidates (May 11, 2011)

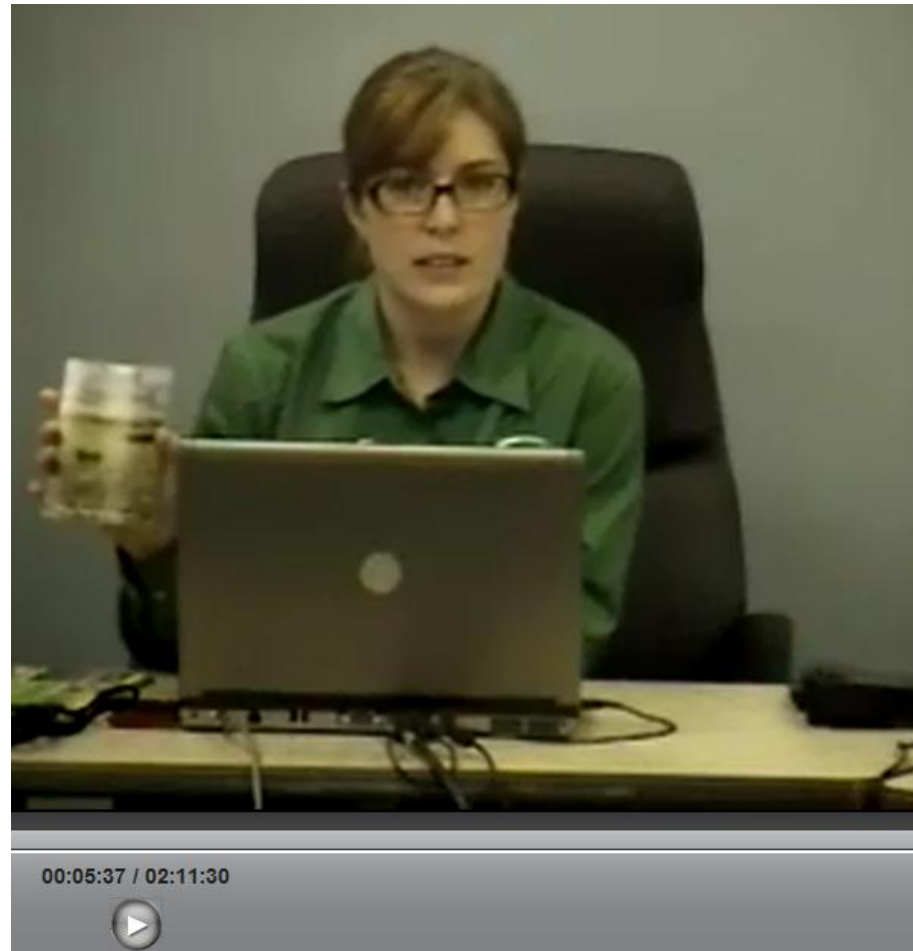


# Learning Management System Recorded Video Conference

March 2012

Noxious Weeds

Presentation



# Learning Management System Recorded Webinar

Transportation Learning Network Course Content Quit

**Presenter**

**Slides**

**Performance of Recycled Asphalt Pavement (RAP) In Gravel Roads**

Khaled Ksalbati, Ph.D., P.E.  
Scott Koch, E.I.T.

**WYT<sup>2</sup> LTAP**

**UNIVERSITY OF WYOMING**  
*New Thinking*

**Presentation Agenda**

- 00:00:00 - Content Loaded
- 00:00:00 - Slide 1.0
- 00:01:13 - Slide 2.0
- 00:01:24 - Slide 3.0
- 00:02:06 - Slide 4.0
- 00:03:55 - Slide 3.0
- 00:03:55 - Slide 2.0
- 00:03:55 - Slide 1.0
- 00:04:16 - Slide 2.0
- 00:04:30 - Slide 3.0
- 00:04:52 - Slide 4.0
- 00:05:13 - Slide 5.0
- 00:05:34 - Slide 6.0
- 00:06:25 - Slide 7.0
- 00:06:54 - Slide 8.0
- 00:07:14 - Slide 9.0

Text Chat - Private



# Learning Management System Status of Accounts May 2011

- Total Accounts –1235

Group	Accounts	Group	Accounts
NDDOT	353	NDLTAP	493
SDDOT	166	SDLTAP	37
WYDOT	60	WYLTAP	4
		MPC	8



# Learning Management System Status of Accounts May 2012

- Total Accounts - 2310 - 87% increase

Group	Accounts	Group	Accounts
NDDOT	637	NDLTAP	776
SDDOT	481	SDLTAP	301
WYDOT	80	WYLTAP	5
MPC	27	MTLTAP	1
		COLTAP	2



# Findings

- 3 States
  - 3 Cultures
    - 3 Approaches to Service
- Experienced speakers need less coaching but they need coaching and dry runs.
- People are busy – even for training brought to them.





# Findings

- Video conferences seem to appeal to field staff – construction and maintenance.
- Webinars- good for shorter presentations
  - Danger of desk based multi-tasking.
- Web-based Modules – Need heavy marketing to promote use.



# Questions



## **Tim Horner, PE**

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