FROM THE DESK OF THE DIRECTOR

By Khaled Ksaibati

It is hard to believe that 2009 is behind us. The year has been very productive for us here at the Wyoming T\textsuperscript{2}/LTAP Center. Early in the year, we completed our Wyoming Rural Road Safety study. Matt Carlson, State Highway Safety Engineer, worked out the arrangements so that counties interested in the program can apply for safety funding through the WYDOT safety office. More than eight counties have already participated in this safety program and we are currently working with two more counties to identify high crash locations and then recommend low cost safety improvements. If your county is interested in implementing this program, there is going to be another round of applications early in the Spring.

On a different note, we started a gravel road management study. Experts in gravel road management from all over the country have participated in this study to develop comprehensive guidelines for gravel road management. The final report on this short study will be published in the Spring of 2010. It is anticipated that this report will help in developing software for managing gravel roads which should be very helpful to Wyoming Counties.

Looking ahead, we came up with our training agenda for 2010. We are excited to offer various classes covering a wide range of topics including: winter maintenance, welding, concrete and asphalt maintenance, as well as the transportation and safety congress. You can find more details in this newsletter about our training schedule.

Finally, I am excited to mention that we have updated our lending library this year after a careful review. You will find in this newsletter a list of a large number of new training videos and reference books that you can check out of our library. All you need to do is to give us a call and we will mail the requested items to you at no charge.

From all of us at the Wyoming T\textsuperscript{2}/LTAP center, we wish you happy holidays and a productive new year.
TO ADAM LARSEN: WELCOME!

The WYT²/LTAP Center would like to extend a warm Wyoming welcome to Adam Larsen, the new Safety Engineer with the Wyoming Division of the Federal Highway Administration. Adam comes to Wyoming from his previous position in Springfield, Illinois as the FHWA Highway Safety Engineer in the Professional Development Program. His work included research, reports, conducting road safety audits, developing a procedure for safety project evaluation, GIS mapping, development of training courses, recommending changes to data analysis processes, learning about traffic management with intelligent transportation systems, and other tasks. He participated in AASHTO peer exchanges and safety summits in multiple states.

Adam received his Bachelor of Science in Civil Engineering from Portland State University in Portland, Oregon. Before he began working for the FHWA, he worked for the Washington State DOT on a variety of projects. He also has experience as a City Engineer, working as an intern for the City of Battle Ground, Washington.

Pictured at right are Khaled Ksaibati, Wyoming T²/LTAP Director, Tom Bonds, Planning and Research Manager, FHWA Wyoming Division, and Adam Larsen, Safety Engineer, FHWA Wyoming Division.

New Reference Materials in the T² Lending Library

New additions to the T² lending library are grouped by the organization from which they were purchased and listed below:

**American Society of Civil Engineers**
Interpreting Construction Contracts
Ten Commandments of Better Contracting
Construction Contract Claims, Changes & Dispute Resolution, 2 Ed.
Surety Bond for Construction Contracts

Reducing Brittle and Fatigue Failures in Steel Structures
Manhole Inspection and Rehabilitation
Pipe Ramming Projects
Pipe Bursting Projects
Manual for Streets
Practical Road Safety Auditing, 2nd Ed.
Role of the Civil Engineer in Highway Safety
How to Work Effectively with Consulting Engineers
Institute of Transportation Engineers
Highway Capacity Manual 2000 - US Customary Units
Trip Generation, 8th Ed.: An ITE Informational Report
Urban Street Geometric Design Handbook
Transportation Planning Handbook, 3rd Ed.

American Concrete Institute
ACI Design Handbook
Building Code Requirements for Structural Concrete and Commentary

Asphalt Institute
A Simplified Method for the Design of Asphalt Overlays
Basic Asphalt Emulsion Manual, 4th Ed.
Asphalt Binder Testing Manual

Portland Cement Association
Manual on Control of Air Content in Concrete

American Traffic Safety Services Association
Basic Traffic Control for Utilities Guide Book
Emergency Traffic Control for First Responders
Guardrail Inspection Checklist
Quality Guidelines for Temporary Traffic Control Devices & Features
Retroreflective Sheeting Guide
Roadway Safety Glossary, 2nd Ed.
Supervisor’s Work Zone Inspection Logbook
Temporary Traffic Control in Work Zones
Temporary Traffic Control Slide Chart
Traffic Control Devices Handbook

American Association of State Highway and Transportation Officials
Practitioner’s Handbook #13: Developing and Implementing a Stormwater Management Program in a Transportation Agency
Maintenance Manual for Roadways and Bridges, 4th Ed.
Guide for Snow and Ice Control

Guidelines for Maintenance Management Systems
Guidance on Sharing Freeway and Highway Rights-of-Way for Telecommunications
Guide Specifications for Highway Construction, 9th Ed.
A Guide for Achieving Flexibility in Highway Design
Guide for Consultant Contracting
Guide for the Planning, Design, and Operation of Pedestrian Facilities
Guide for Pavement Friction
Guide to Quality in Preconstruction Engineering
Hazardous Waste Guide for Project Development
Highway Drainage Guidelines
Highway Safety Design and Operations Guide
Roadside Design Guide Chapter Six Update
Roadway Lighting Design Guide
Segregation - Causes and Cures for Hot-Mix Asphalt
Uniform Vehicle Code - Millennium Ed.
Standard Specifications for Transportation Materials and Methods of Sampling and Testing, 29th Ed. and AASHTO Provisional Standards, 2009 Ed.
LRFD Bridge Design Specifications, US Units, 4th Ed., 2009 Interim Revisions
Manual for Bridge Evaluation
Standard Specifications for Highway Bridges
A Guide for Transportation Landscape and Environmental Design, 2nd Ed.
Guide to Wetland Mitigation Issues for Transportation Engineers
A Manual of User Benefit Analysis for Highways, 2nd Ed.
Transportation Glossary, 4th Ed.
WYT² 2010 WORKSHOPS

Erosion & Sediment Control
February 9, 2010 – Douglas Best Western
1450 Riverbend Drive
February 10, 2010 – Riverton Holiday Inn
900 E. Sunset

Asphalt Maintenance
March 9, 2010 – Buffalo Bozeman Trail Steakhouse
655 E. Hart
March 11, 2010 – Cheyenne Holiday Inn
204 West Fox Farm Road

15th Annual Transportation & Safety Congress
April 7 & 8, 2010 – Casper Platte River Resort
(Formerly Parkway Plaza Hotel)
123 West “E” Street

Work Zone Traffic Control & ATSSA Flagger Certification
May 4, 2010 – Worland Ramshorn Cafe
625 Big Horn Avenue
May 5, 2010 – Rawlins Best Western Cottontree Inn
2121 West Spruce

Gravel Roads
June 7 & 8, 2010 – Riverton Holiday Inn
900 E. Sunset
June 9 & 10, 2010 – Douglas Best Western
1450 Riverbend Drive
**WYT² 2010 WORKSHOPS**

**Beginning & Advanced Welding**
July 2010 – Casper
July 2010 – Rock Springs
(Specific dates and locations to be determined.)

**Winter Maintenance**
October 5, 2010 – Buffalo Bozeman Trail Steakhouse  
655 E. Hart
October 6, 2010 – The Inn at Lander  
260 Grand View Drive
October 7, 2010 – Laramie Hilton Garden Inn  
2229 Grand Avenue

**Maintenance of Concrete Pavements**
October 26, 2010 – Rawlins Best Western Cottontree Inn  
2121 West Spruce
October 27, 2010 – Buffalo Bozeman Trail Steakhouse  
655 E. Hart

**Construction Inspection**
December 8, 2010 – Douglas Best Western  
1450 Riverbend Drive
December 9, 2010 – Rock Springs Outlaw Inn  
1630 Elk Street
NEW DVDs HAVE ARRIVED – CHECK THEM OUT!

<table>
<thead>
<tr>
<th>Title</th>
<th>Description</th>
<th>Duration</th>
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<tr>
<td>Road System Traffic Safety Review (FHWA)</td>
<td>of the safety rules, requirements and emergency procedures.</td>
<td>12 min.</td>
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<td>Reduce Congestion Through Access Management (FHWA)</td>
<td>Achieving a Drug Free Workplace: An Employee’s Perspective</td>
<td>35 min.</td>
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<td>Roadway Safety + Disaster Response</td>
<td>Ex-substance abusers and their co-workers share their story on creating and maintaining a drug</td>
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<td>free workplace.</td>
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<td>Gravel Road Maintenance: Meeting the Challenge</td>
<td>Backing, Parking and Intersections</td>
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<td>In this DVD, the focus is placed on three of the most dangerous situations concerning driving</td>
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<td>for any type of driver. Excellent advice is provided to reduce the risk involved in all three</td>
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<td>topics.</td>
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<td>A Snowplow Operators’ Guide to Snow and Ice Equipment</td>
<td>Back Safety: Proper Lifting Procedures</td>
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<td>This DVD provides vital information for anyone who needs to lift and carry anything! Team lifting</td>
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<td>procedures are also included.</td>
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<td>Managing the Anger to Prevent the Violence</td>
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<td>This DVD approaches the issue of workplace violence by providing excellent training in anger</td>
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<td>management.</td>
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<td>Emergency Preparedness: A Supervisor’s Role</td>
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<td></td>
<td>This DVD shows all the basics a supervisor needs to know in preparing their employees and</td>
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<td>facility for an emergency.</td>
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<tr>
<td></td>
<td>Emergency Preparedness: An Employee’s Responsibility</td>
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<td></td>
<td>This DVD shows all the basics an employee needs to know in being prepared for an emergency.</td>
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<td>Highway Work Zone Safety</td>
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<td>This program addresses the proper steps to set up a work zone that is safe for workers and</td>
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<td>traffic. It also includes traffic control devices and trained flaggers.</td>
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Power Tool Safety
This DVD illustrates the hazards associated with many of the common power tools found on the jobsite. (15 min.)

A DUI Story: What If?
A DUI accident changes the life of friend, family and co-workers. Listen to the powerful testimony of all those whose lives were turned upside down and inside out. (23 min.)

Opening All Doors: ADA Accessible Design
(Set of 2 DVDs)
This set discusses interior design strategies that fulfill the requirements of the Americans with Disabilities Act (ADA). It includes compliance decision charts and a detailed index to the ADA guidelines. (180 min. total)

Architectural Blueprint Reading (CD-ROM)
This CD-ROM includes nine self-paced lessons on plan sets, zoning ordinances, plot plans, architectural styles, floor plans, elevations, and roof styles.

To Engineer Is Human
Using original source footage of major engineering disasters, this program examines the scientific principles behind engineering failures. It features a professional engineer and practical demonstrations to explore miscalculations that cause such disasters as bridge collapses, fuselage cracks, and roof destruction and shows how to utilize testing to predict project failures. (50 min.)

Soil Basics for Engineers
This program examines the ways in which soil behaves and considers its role in engineering design and construction. It shows how to identify, classify, and test soils; presents techniques for improving low-quality soil; highlights problems caused by water; and explores soil engineering. (360 min.)

Sites and Soils
This program identifies basic characteristics and types of soils. It explains when a soil investigation is required and covers site preparation, grading, and required separation for footings. (17 min.)

Soil and Water Relationship (CD-ROM)
Featuring interactive animations, this CD-ROM presents soil as a system of pores. It looks at aggregates and pores containing air or water in a variety of ratios and demonstrates the mechanisms of water retention and water movement in soil. It also covers soil moisture and texture.

Geosynthetics: An Overview of Designs
This program shows how to use geosynthetics in civil engineering. It covers such topics as walls, slopes, dams, roads, and erosion control. (48 min.)

Erosion Control Using Geosynthetics
This program shows how to use geosynthetics to reduce surface water pollution from soil runoff. It covers surface stream bank and coastal erosion control measures using geosynthetics. (180 min.)

Effective Teamwork
This program teaches how to create effective teams in business. It covers such topics as writing a team constitution, developing ideas, running a meeting, and managing conflict. (39 min.)

Engineering Occupations
This DVD examines the unique attributes of jobs in aerospace, mechanical, civil, electrical, petroleum, chemical, metallurgical, and mining engineering. It features professionals who discuss skills, responsibilities, and typical work environments. (48 min.)

Engineering an Empire (Set of 4 DVDs)
This set explores the feats of engineering and architecture that gave rise to modern civilization. It examines the dynasties, architectural marvels, and urban planning feats that altered the course of history. (564 min.)
Did you know?

In the entire state of Ohio in 1895, there were only two cars on the road, and the drivers of these two cars crashed into each other.

The national Local Technical Assistance Program mission is to foster a safe, efficient, and environmentally sound surface transportation system by improving skills and increasing knowledge of the transportation workforce and decision makers.