

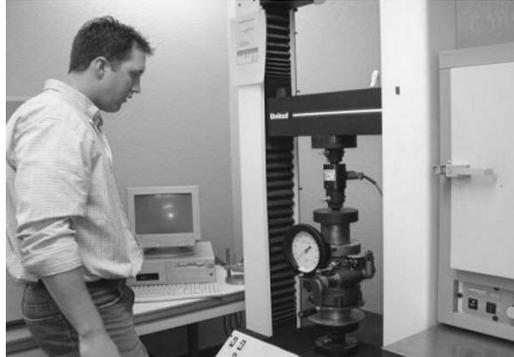
Colorado LTAP

June 2007

Serving local transportation agencies throughout Colorado

Summer Issue

Asphalt Education Hands On Instruction is Key



The Rocky Mountain Asphalt Education Center (RMAEC) conducts the "Introduction to QC/QA Education Program" which offers training in field and laboratory testing required for quality control and quality assurance (QC/QA) of hot mix asphalt projects. City and County personnel acquire the knowledge to help them understand the basic principles of testing when hiring their choice of contractors and consultants. The training is designed to prepare participants for either asphalt technician certification or just for the experience of acquiring an education in asphalt testing.

The format includes 1-4 days of classroom lecture with an emphasis on Q & A student participation. The students follow along with their copy of the CDOT's Field Materials Manual and Colorado Procedures Laboratory manual as well as the class handouts while discussing each test procedure in class.

Following presentations on several test procedures the instructor leads the class into the laboratory to demonstrate and practice on their own. This gives all students the opportunity to learn from a "hands on" experience performing the laboratory procedure as well as reinforcing what was discussed in the classroom.

Introduction to QC/QA exposes the student to more than enough information for all of the Colorado and AASHTO procedures necessary for LabCAT certification currently used for Level A "Laydown", not only a great

introduction for field testers but a must for state inspectors in which level A certification is a requirement. This class goes into detail of the HMA plant production and explains how the HMA is made as well as delivery to the job site, sampling HMA and aggregates for laboratory testing as well as the compacted mat for the required density. This helps the students learn how to calculate the percent density from the values given on the nuclear density gauge.

Level B "Plant Materials Control" explains several CP's for asphalt testing in the lab which include specific gravities, mix design, calculation of percent binder by ignition oven and correction factors. The students follow up on all of the above procedures, approximately 8 of them, which include making a mix design.

In Level C "Volumetrics and Stability" students are introduced to volumetric properties of HMA; using a gyratory compactor, Hveem stabilometer and Lottman's test.

This final section, Level E "Aggregates", covers several tests for aggregate properties to include fine aggregate angularity, specific gravities, the Micro Deval machine for abrasion resistance and more.

The training location is in the RMAEC's fully functioning asphalt testing lab. The 4 day training course is offered 5 - 6 times / year and covers one Level per day. Professionals from all parts of the industry are encouraged to attend! For more information contact the RMAEC at 303-741-6148 or visit their website at www.co-asphalt.com. 



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Routing Slip

After reading this issue of Colorado LTAP, please initial below and pass it along to the rest of your staff.

Return to:

Colorado LTAP

STAFF

Yunping Xi

University Administrator

Renée Koller

Program Manager

Lindsay Nathaniel

Training Coordinator

Marty Butcher

Library Assistant

Jeremy Goldsmith

Webmaster

The Colorado Local Technical Assistance Program is sponsored by the Federal Highway Administration, the Colorado Department of Transportation, and the University of Colorado at Boulder.

The Colorado LTAP Newsletter is published quarterly. Articles, pictures and comments are welcome.

For more information, contact:

Colorado LTAP
University of Colorado
at Boulder
3100 Marine St., A-213
UCB 561
Boulder, CO 80309-0561

Office: (303) 735-3530
Toll Free: (888) 848-LTAP

Fax: (303) 735-2968

Email:
cltap@colorado.edu

Website:
<http://ltap.colorado.edu>

Program Manager's Corner

Welcome Summer! Hopefully you all have a chance to relax and enjoy the beautiful weather with your family and friends in between works zones, asphalt recycling, concrete overlays, pothole patching, and equipment maintenance. We'll make this issue brief and get you back out on the road. But first - please take a moment to review and update your mailing list information.

As a reminder, the LTAP program is composed of a national network of centers, transportation departments, and road professionals. If you have ANY questions regarding your summer projects, don't hesitate to contact the Colorado LTAP office. We're here to help with technical assistance. We'll do the leg

work and hunt down the answers for you.

In addition, the **Work Zone Safety Information Clearinghouse** can be a great resource for your upcoming projects. The clearinghouse provides information and resources to government agencies, public and private organizations, and the general public concerning the safe and effective operation of traffic work zones.

<http://wzsafety.tamu.edu/>

I'd also like to personally apologize if you've recently experienced any delay in services through the LTAP center. We've experienced a few major setbacks this Spring and are eagerly trying to get back on track. Thank you for your patience.

Renée Koller



Quotes of the Day

"Experience is by far the best teacher. You know, ever since I was a little girl I knew that if you look both ways when you cross the street, you'll see a lot more than traffic."

~ Mae West, actress

"If they'd lower the taxes and get rid of the smog and clean up the traffic mess, I really believe I'd settle here until the next earthquake."

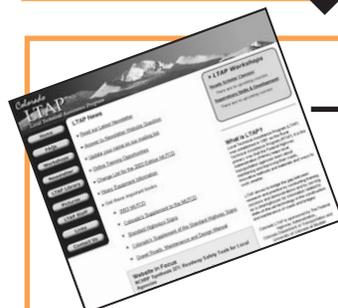
~Groucho Marx, comedian

"Outside of traffic, there is nothing that has held this country back as much as committees."

~ Will Rogers, entertainer

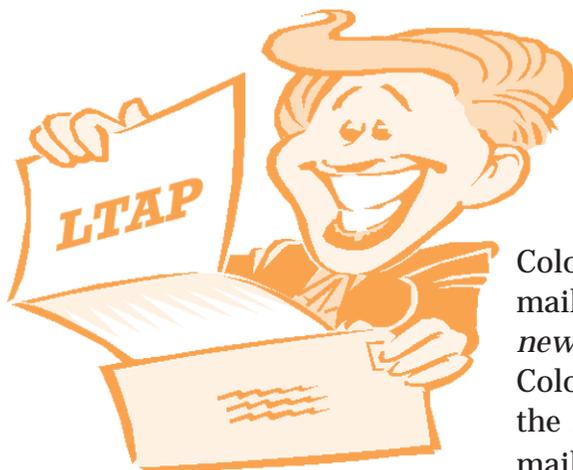
"The only way to solve the traffic problems of the country is to pass a law that only paid-for cars are allowed to use the highways. That would make traffic so scarce, we could use our boulevards for children's playgrounds."

~ Will Rogers, entertainer



<http://ltap.colorado.edu>

Visit Colorado LTAP online today for online training, class registration, free lending library, and more.



Mailing List Update

Colorado LTAP maintains a comprehensive mailing list. Our mailing list is divided into two sections: a *brochure* and a *newsletter* mailing list. Each mailing list is used only by the Colorado LTAP center in support of LTAP activities. They're the sole property of the Colorado LTAP center, and neither mailing list is sold or distributed.

Brochure Mailing List: Includes the names of the contact people at each agency who receive notification of registration for upcoming training and conferences through class brochures.

Newsletter Mailing List: Includes those people who receive our quarterly Newsletter.

In an attempt to keep our mailing list up-to-date, please make any changes, updates, or additions below and return to the Colorado LTAP office.



Mail to: Colorado LTAP, University of Colorado Boulder
3100 Marine St, UCB 561, Boulder, CO 80309-0561



Fax to: 303-735-2968



Email to: cltap@colorado.edu

Changes and additions can also be made online on our website at: <http://ltap.colorado.edu>.



Brochure Mailings

- Add
- Delete
- Update

Newsletter Mailings

- Add
- Delete
- Update

Name: _____ Agency: _____

Job Title: _____ Address: _____

City: _____ State: _____ Zip: _____

Phone: _____ Fax: _____

Email Address: _____

**PLEASE COPY THIS FORM FOR OTHERS IN YOUR AGENCY
~THANK YOU~**

.....fold.....



Colorado LTAP



**University of Colorado at Boulder
3100 Marine St, A-213
UCB 561
Boulder, CO 80309-0561**

.....fold.....



All videos, publications and CDs in the LTAP lending library are available for checkout for a two-week period, free of charge. To check out materials or request a library catalogue, contact the Colorado LTAP office at 1-888-848-5827.

Below is a list of most recent materials added to the library. Our library materials can also be ordered online at: <http://ltap.colorado.edu>

New CDs & DVDs

Location

Title

CD CS

Chip Seals: Reference Manual and Course Materials

These course materials were designed based on NHI's course No. 131103, *Pavement Preservation: Design and Construction of Quality Preventive Maintenance Treatments*, include the course PowerPoint presentation, Reference Manual, and Chip Seal Overview and Construction Videos. The PowerPoint covers an overview and introduction of chip seals, lists the purposes of chip seal applications, and describes recommended materials and recommended application procedures.

CD GSWBBT

Guidelines for the Selection of W-Beam Barrier Terminals

This CD has been prepared to provide information to designers and to construction/maintenance personnel responsible for selecting and properly installing the most appropriate terminal design at any site. In addition to showing the actual crash performance of each terminal type, this CD provides guidance on proper site grading and presents real-world examples of both appropriate and inappropriate installations.

DVD HSAT

Highway Safety and Trees: The Delicate Balance

This DVD explores the issue of the safe placement of trees along our country's roadsides. It provides an opportunity for all parties to recognize the benefits and risks associated with trees.

DVD SSSC

Sand and Salt Spreader Calibration

Paul Brown, Director of Snow and Ice Operations at MassHighway, guides highway employees through a successful spreader calibration and explains the proper techniques and calculations. You must calibrate each spreader according to specifications each winter season or whenever repairs are made. This will reduce waste, increase efficiency and protect the environment through better control of material application.

New Publications

Location

Title

24 CS

Chip Seals: Reference Manual

This Chip Seal Reference Manual was developed based on NHI's course No. 131103, *Pavement Preservation* and covers an overview and introduction of chip seals, lists the purposes of chip seal applications, and describes recommended materials and recommended application procedures.

50 RSAG

Road Safety Audit Guidelines

These guidebook is designed to provide a foundation for public agencies to use when developing and performing their own road safety audit policies and programs. It provides info and tools on road safety audits and terms for policy makers, RSA teams, designers, planners, operations & safety, etc.

Need a little extra Cash?
Your knowledge is worth something.



Our center is continuing its program to encourage local participation in the publishing of Colorado LTAP's quarterly newsletter. We would like the recipients of our newsletter to benefit from all the knowledge local agencies have in the areas of roadway maintenance, design, and construction. We are offering **\$50.00** to city, town, or county employees that submit an article that is chosen to be published in our newsletter. Articles can address current methods and procedures, best practices, innovative techniques, or projects in the transportation industry. Content should contain as much detail as possible, but we can provide assistance in editing and writing the final version. We request articles not promote any particular product.

Photos are encouraged. To submit articles/photos, include author name and contact info, and mail or email to cltap@colorado.edu.



Can You Build a Better Mousetrap?

"You Show Us" 2007



Colorado's 2006 State You Show Us contest winning entry - "The Landfill Bail Hauler".

Colorado LTAP is pleased to announce the 2007 "You Show Us" contest! This is the contest's 13th year. The concept began in 1994 as "You Show Us How".

We are very aware that often there are not enough transportation dollars available to maintain our transportation systems to the desired level of service. This is particularly true when it comes to local government transportation programs. The costs for repairs and improvements are increasing while the available finances are decreasing.

Solving today's problems requires efficient use of existing funds, and the application of cost-reducing & innovative techniques.

These problems are not easily solved with yesterday's solutions!

What is the best idea you have implemented in your county within the last few years? Past entries have included unique safety and operational efficiency improvements, and time saving designs. Your entry could be related to these areas or many others. This is your opportunity to showcase something that has worked and of which you are proud, and to share this information with your counterparts across the state, and even the nation.

The contest is open to all *county* governments in Colorado. All participating Colorado counties will receive a certificate of participation and their entries will be published in our newsletter. The winning Colorado entry will be submitted to compete with counties in Nebraska, North Dakota, South Dakota, and Wyoming to determine a regional winner. Entries should be no longer than two typewritten pages and should include:

1. County Information
County Name
Contact Person
Contact Address
2. Problem Statement
3. Discussion of Solution
4. Labor, Equipment, Materials Used
5. Cost
6. Savings/Benefits to the County

~Photographs are encouraged.~



Colorado LTAP will sponsor TWO county employees to represent their state winning project at the 2007 Local Road Coordinators Conference.

WIN A TRIP

State and regional awards will be presented at the conference, to be held in Rapid City, South Dakota October 17-18.

All entries must be received by **August 31, 2007** to be considered. You may mail or e-mail your submission. The state winner will be chosen at the LTAP Advisory Committee Meeting and notified by September 14th.

Mail entries to:

"You Show Us" Contest
Colorado LTAP
University of Colorado
3100 Marine St., Rm. A-213
UCB 561
Boulder, CO 80309-0561

E-mail entries to:

cltap@colorado.edu

For additional information call:

Renée Koller or Lindsay Nathaniel at the Colorado LTAP Center, 1-888-848-5827.

We look forward to your entry!

Upcoming Events

Upcoming Training

NOTE: There is no upcoming LTAP training for the summer months. Colorado LTAP will resume training events in September 2007. Please contact the Colorado LTAP office for an upcoming schedule, or check online on our website:

<http://ltap.colorado.edu>

Click, Listen, Learn

Click, Listen & Learn is APWA's series of interactive Internet educational programs. Hear it through your speaker phone; see it on your PC. Each program is led by top experts in the field who convey new ideas, new methods, and new technologies in a fast-paced two hour time frame. Additional information on this training program and registration is available at:

<http://www.apwa.net/Education/CLL/>

July 19, 2007

Thinking Strategically -- The Plan, The Process, The Reality

August 9, 2007

Developing and Managing an Urban Forestry Program for Public Works

September 27, 2007

Traffic Safety Reviews

Upcoming Conferences

National LTAP Conference

July 23-26, 2007

Chicago, IL

Visit our website for more info:

<http://www.ltapt2.org/conference>

APWA West Slope Snow & Ice Conference

September 6-7, 2007

Gunnison, CO

Registration information is available at the Colorado LTAP office or by calling Gunnison County, 970-641-0044.

2007 APWA Congress

September 9-12, 2007

San Antonio, TX

For more info, visit the APWA Congress website: <http://www.apwa.net/Meetings/Congress/2007/>

APWA Western Region Snow & Ice Conference & National Snow Rodeo

September 25 - 28, 2007

Estes Park, CO

Visit the website for more info:

www.westernsnowandice.com

10th Annual National Tribal Transportation Conference

November 6-9, 2007

Visit the TTAP center website for more info: www.ttap.colorado.edu

Colorado LTAP Advisory Committee Members



Marlene Crosby
Gunnison County



John Baker
Town of Snowmass



Adam Lancaster
City of Cañon City



Richard McKee
City of Longmont



Tammie Crawford
Routt County



Doyle Villers
LaPlata County



Kevin Scott
Phillips County



Beth Moore
CDOT



Craig Larson
FHWA



Yunping Xi
University of Colorado
at Boulder



Renée Koller
Colorado LTAP



Mike Stadler, City of Longmont recently completed the requirements of the Supervisory Skills and Development Program and was presented with his plaque at the *Who's Coming Through the Door Today* class in Grand Junction.

FREE MATERIALS

The following is a list of **FREE materials** available to Colorado local government agencies in the transportation field. Quantities are limited and available on a first-come, first-serve basis.

Contact the Colorado LTAP office to put in a request for these free publications.

**Check out our website for additional free materials not listed here.

<http://ltap.colorado.edu>



F40 DIG

Distress Identification Guide

This handbook provides a guide in identifying different forms of distress in asphalt concrete pavements, such as cracking, potholes, surface deformation, surface defects and miscellaneous distress. Colored figures accompany the explanations.

FCD GSWBBT

Guidelines for Selecting W-Beam Barrier Terminals

This CD provides information for designers and construction/maintenance personnel responsible for selecting and properly installing the most appropriate terminal design at any site. In addition to showing the actual crash performance of each terminal type, this CD provides guidance on proper site grading and presents real-world examples of both appropriate and inappropriate installations.

FCD RRR

Riparian Roads and Restoration: A Short Course About Roads and Riparian Areas

This CD was developed by the USDA Forest Service and addresses minimizing impacts on riparian/wetland areas and restoring or improving riparian wetland ecosystem health.

FDVD HSAT

Highway Safety and Trees: The Delicate Balance

This DVD explores the issue of the safe placement of trees along our country's roadsides. It provides an opportunity for all parties to recognize the benefits and risks associated with trees.

F60 ACH

Erosion Control Handbook for Local Roads

This handbook is helpful in identifying key issues and concerns of those responsible for controlling erosion on low volume roads. Topics include: The Importance of Erosion Control; Regulation and Permitting; Designing an Erosion Control Plan; Treatment Selection; Erosion & Sediment Control During Construction; Permanent Erosion control; and Erosion Control for Coastal Areas.

Colorado LTAP

University of Colorado at Boulder
3100 Marine St, A-213
UCB 561
Boulder, CO 80309-0561

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