he 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.
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.

“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
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.

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<th>Brochure Mailings</th>
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**PLEASE COPY THIS FORM FOR OTHERS IN YOUR AGENCY**

~THANK YOU~
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

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<tr>
<td>CD CS</td>
<td>Chip Seals: Reference Manual and Course Materials</td>
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<tr>
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<td>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.</td>
</tr>
<tr>
<td>CD GSWBBT</td>
<td>Guidelines for the Selection of W-Beam Barrier Terminals</td>
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<td>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.</td>
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<tr>
<td>DVD HSAT</td>
<td>Highway Safety and Trees: The Delicate Balance</td>
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<td>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.</td>
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<tr>
<td>DVD SSSC</td>
<td>Sand and Salt Spreader Calibration</td>
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<td>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.</td>
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New Publications

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<tr>
<td>50 RSAG</td>
<td>Road Safety Audit Guidelines</td>
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<td></td>
<td>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 &amp; safety, etc.</td>
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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.

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.~

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.ltap2.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 Roadeo
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

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.
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.

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

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