

# LTAP MATTERS

Montana's Answers To Technical Education of Roads & Streets  
Vol. 26, No. 3

## Summer 2009

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## From the Director

*"Change is the law of life. And those who look only to the past or present are certain to miss the future."*

*John F. Kennedy*

We all know that change is inevitable. Montana LTAP has just gone through a change of location within the College of Engineering. Through a partnership agreement with College of Engineering, Western Transportation Institute, Civil Engineering and Montana LTAP, we are now housed under Western Transportation Institute instead of Civil Engineering. Part of that agreement included a physical move into the new WTI building. Fortunately for me, I have outstanding personnel who coordinated the recent move in a seamless manner and continued to provide educational materials to keep me on track during our busiest training months.

This spring over 350 flaggers and work zone technicians were trained and certified. The traffic control supervisor course had a record attendance of forty-one, with the majority attendance MDT employees. This is an obvious indication that our focus has been on work zones and temporary traffic control these past few months. In addition to these classes, I taught the Gravel Roads course in Hamilton, Lewistown, and Hardin during May. This updated course provided the latest information on designing and maintaining gravel roads.

In order to comply with requests from Montana Department of Transportation at the end of May, we rewrote our Work Plan for 2010. With assistance from WTI Director Steve Albert and WTI Research Director Jerry Stephens, we conducted a thorough redesign going from 16 pages to over 60 pages in the new proposal. It is with great appreciation to all those who supported our program and provided input for the MDT approval of Montana LTAP funding in June.



Montana LTAP recently developed a Needs Assessment Survey in order to continue to expand our ability to provide the training that our constituents are requesting. When you receive this survey, please make copies and provide the survey to all employees. (See survey on pages 8 and 9. Or you can complete the online survey on our web site.) The input from this survey will shape the future of what types of training you are requesting. We sincerely thank you for your input and for taking time to complete the survey.

The City of Great Falls handed over the reins to Yellowstone County Road and Bridge Department to hold the Snow Rodeo in Billings at the Metra Park this September. Several planning meetings have been held this spring to move forward with this new venue.

Summer time goes very quickly in Montana. I sincerely hope that you take time out to enjoy this beautiful state we call home.

*As always, safe driving,  
Steve Jenkins*

LTAP Matters is published by the Local Technical Assistance Program. LTAP is located with Western Transportation Institute, College of Engineering at Montana State University, Bozeman, Montana.

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*Front Page Photo: Chad Coffman,  
Wes Owens, & Bill Stecker, MDT/  
Ennis, at Harrison, MT  
Photo by Michele Beck*

### Local Technical Assistance Program

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On our website, we list upcoming training courses, registration forms, library information, our contact information, newsletters, various links, and MACRS information. Please go to:  
[www.coe.montana.edu/ltap](http://www.coe.montana.edu/ltap)

The Local Technical Assistance Program/Tribal Technical Assistance Program (LTAP/TTAP) is a nationwide network of 58 centers - one in every state, seven serving Native American tribal governments and one in Puerto Rico.

The LTAP/TTAP 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.



U.S. Department of Transportation  
Federal Highway Administration



# 26th MACRS Spring Conference

## A Success

Over 300 participants attended the 26th MACRS Conference held in Great Falls March 30-April 2, 2009. Attendees included county road supervisors, county road employees, county commissioners, and interested transportation officials.

### Pre-Conference

Janet Pallister, Finance & Operations Director, Lewis and Clark County, opened the pre-conference with Competitive Bidding. Steve Monlux, retired US Forest Service, followed with road surface preservations.



Janet Pallister



Genevieve Albert, Montana LTAP Conference Coordinator

The afternoon sessions included CDL information from Lt. Jeff McLaughlin, Enforcement Bureau; Clay McLendon, MCSAP Safety; and Gregory Noose, Chief of Record and Driver Control Bureau, MVD. Dave Fowler, Gallatin County Shop Foreman, thoroughly covered equipment maintenance, upkeep, and cost savings.



Wayne Waarvik

### Conference - Day One

MACRS President Wayne Waarvik, Valley County, welcomed everyone at opening ceremonies on the first day of conference activities themed "Time, Value, and Money." Others that provided a hearty welcome included Joe Briggs, Cascade County Commissioner; David Reinhardt, Valley County Commissioner; and Dona Stebbins, Mayor, Great Falls.



MACRS Conference Attendees

The keynote speaker, Mark Willmarth, City of Great Falls, kept the audience's attention with focus on Time, Value, and Money. Steve Jenkins, Montana LTAP, discussed findings of PASER reports from 48 of the 56 counties. Eric Griffin, Lewis & Clark County, and Wayne Waarvik assisted as a panel addressing PASER information and what it will mean for future funding for Montana counties.



... Continued Page 4



Mark Willmarth

### ADVISORY COMMITTEE MEMBERS

The Advisory Board meets annually to make recommendations and evaluate the effectiveness of the Montana LTAP program.

Debbie Arkell  
City of Bozeman

Bob Seliskar  
Federal Highway  
Administration

Kelly Elser  
Town of Ennis

Fred Hansen  
MACo

Jim Rearden  
City of Great Falls

Russ Albers  
Chouteau County

Thomas Danenhower  
MMIA

Eric Griffin  
Lewis and Clark County

Russ Huotari  
Richland County

Sue Sillick  
Montana Dept of  
Transportation

Alec Hansen  
Montana League of  
Cities & Towns

Lynn Miller  
Montana Dept of  
Transportation

# 26th MACRS Spring Conference A Success (cont'd from Page 3)

## Conference - Day Two

During the second day of events, Bill Lloyd, Great West Engineering, opened up the morning session on bridge maintenance, inspection, load limit, and signage. Stacy Hill, MDT, followed with information on Storm Water Runoff, BMP's, DEQ, Limits, and 124 permits.

At lunch time, MACRS officers awarded a plaque of appreciation to past Secretary/Treasurer Jerry Forman for his years of work and outstanding dedication to the MACRS organization.



## Guest Program

2009 MACRS Guest Participants

This year over twenty-five guests enjoyed the MACRS Guest program with trolley tours of the Sletten Cancer Institute, Paris Gibson Square, Lewis & Clark Interpretive Center, and the Ursuline Centre.



L to R: Russ Huotari, Richland County; Russ Albers, Chouteau County; Jerry Forman, Retired Custer County Road Superintendent

In the afternoon Harold Blattie, MACo; John Ostlund, Yellowstone County Commissioner; and Gordon Morris, MACRS lobbyist, discussed DEQ gravel pit law and legislation. To wrap up the conference training, Mark Willmarth came back and explained the value of employees and how to manage employee satisfaction.

President Waarvik announced at meals his appreciation for the vendor support MACRS receive and recommended that all visit with the 46 vendors that attended.



... Continued Page 5

# 26th MACRS Spring Conference A Success (cont'd from Page 4)

## Banquet

One of the highlights at the evening banquet was drawing of door prizes that counties and vendors donated. Many of the gifts are indicative of that particular county or a talented employee designed and made the prize.



*Jim McCarthy accepts certificate from MACRS President Waarvik*

Last year's MACRS President, Jim McCarthy, retired Butte Silver Bow Road Supervisor, was presented with a certificate of appreciation for his hard work and dedication to MACRS.



*Dellas Christensen, Sheridan County, wins "BIG"*

The final awards for the evening were presenting twelve Roads Scholars their certificates and jackets for completing Level I:

1. John Anderson, Fergus County
2. Joe Carter, Jefferson County
3. Doug Cramer, Fergus County
4. Fred Feller, Jefferson County
5. Mark Fitzgerald, Pondera County
6. David Harrison, Missoula County
7. Scott T. Johnson, Richland County
8. Tim McCloy, McCone County
9. Craig Miller, Daniels County
10. Dale Robertson, Chouteau County
11. Ken Ronish, Fergus County
12. Ray Volk, Richland County



*Richard Miller (left) accepts certificate from MACRS President Waarvik*

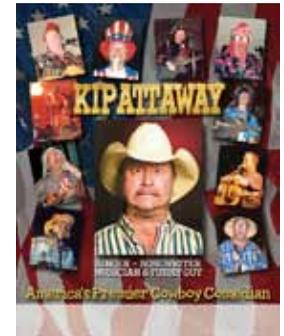
Richard Miller, retired Beaverhead County Road Superintendent, another famous icon in the MACRS family, was recognized with a certificate of appreciation for his years of work and dedication to MACRS.



*2009 Roads Scholars with Steve Jenkins Presenting*



The evening was concluded with the hilarious entertainment of Kip Attaway, cowboy songwriter/singer.



President Waarvik also noted that all past MACRS presidents were invited to attend the conference and appreciated their insight and knowledge to keep the continuity of MACRS going for future generations. He believed that with the PASER information gathered, MACRS now has the ability to proceed with data driven needs for Montana's county roads.

The Thursday morning business meeting elected new officers and the gavel was passed over to the new MACRS President Shawn Norick, Liberty County.

## 2009-2010 MACRS Officers and District Representatives

**PRESIDENT**  
Shawn Norick  
Road Foreman  
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road@co.liberty.mt.gov

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**MACo REPRESENTATIVE**  
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griffin@co.lewis-clark.mt.us

# Calendar of Events • July 2009 - June 2010

## July 2009

S	M	T	W	Th	F	S
			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	

3: 4th of July Holiday (Offices Closed)  
 24-28: NACo Annual Conference, Nashville, TN - [www.naco.org](http://www.naco.org)  
 27-30: National LTAP Conference: Pittsburgh, PA (LTAP)

## August 2009

S	M	T	W	Th	F	S
						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					

17-21: MACo - Clerk & Records Association Annual Conference, Billings, MT  
 19-21: Safe Routes to School Conference: Two Steps Ahead  
 Hilton, Portland, Oregon - [www.saferoutesconference.org](http://www.saferoutesconference.org)

*Training on Request:*  
 Forklift  
 Sign Safety  
 Road Audits

## November 2009

S	M	T	W	Th	F	S
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					

11: Veterans' Day - Offices Closed  
 26-27: Thansgiving Holiday - Offices Closed

*Training on Request:*  
 Winter Maintenance  
 Winter Survival

## December 2009

S	M	T	W	Th	F	S
		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		

25: Christmas Holiday - Offices Closed

*Training on Request:*  
 Winter Travel - Survival  
 Winter Maintenance  
 Leadership

## March 2010

S	M	T	W	Th	F	S
	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			

29,30, 31 and April 1: MACRS 26th Annual Conference  
 Heritage Inn, Great Falls, MT (MT LTAP)

15-19: MSU Spring Break

## April 2010

S	M	T	W	Th	F	S
				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	

1: MACRS 26th Annual Conference  
 Heritage Inn, Great Falls, MT (MT LTAP)

MACRS Workforce Development Week: Location & Time TBA  
 (MT LTAP)

# Calendar of Events • July 2009 - June 2010

## September 2009

S	M	T	W	Th	F	S
		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			

**2 & 3: Snow Rodeo - Metra Park, Billings, MT (MT LTAP)**

7: Labor Day Holiday - Offices Closed

13-16: 2009 APWA Congress - The Best Show in Public Works  
Columbus Convention Center, Columbus, OH

20-24: MACo's 100th Annual Conference, Colonial Inn, Helena, MT

**29: MACRS Fall District Meeting - Polson, MT (MT LTAP)**  
**Gravel Pit Operations & Operator Safety**

30 & Oct 1 & 2: Governor's Occupational Safety & Health Awards Program  
Hilton Garden Inn, Missoula, MT

## October 2009

S	M	T	W	Th	F	S
				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

Oct 1 & 2: Governor's Occupational Safety & Health Awards Program  
Hilton Garden Inn, Missoula, MT

**MACRS Fall District Meetings: (MT LTAP)**

**Gravel Pit Operations, Loader & Operator Safety**

**5: Bozeman 6: Big Timber 8: Great Falls 15: Glendive**

7: Walk to School Day - www.walktoschool.org

7, 8, 9: 78th League of Cities & Towns, Heritage Inn, Great Falls, MT  
**7: Public Works Directors - GIS Instruction (MT LTAP)**

**27 & 28: MACRS Planning Meeting, Heritage Inn, Great Falls, MT (MT LTAP)**

## January 2010

S	M	T	W	Th	F	S
					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: New Year's Day - Offices Closed

18: Martin Luther King Day - Offices Closed

**20, 21, 22: Loss Control Conference (LTAP Safety Congress) MACO**  
**Hilton Garden Inn, Missoula, MT**  
**21: Steve Jenkins Presents**

## February 2010

S	M	T	W	Th	F	S
	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						

**8 & 9: Traffic Control Supervisor Two-Day Course,**  
**Wingate Inn, Helena (MT LTAP)**

**10 & 11: Asphalt Institute, Colonial Inn, Helena (MT LTAP)**

15: President's Day - Offices Closed

## May 2010

S	M	T	W	Th	F	S
						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					

31: Labor Day - Offices Closed

MACRS Workforce Development Week: Locations & Time TBA  
(MT LTAP)

## June 2010

S	M	T	W	Th	F	S
		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			

MACRS Executive Meeting: TBA (MT LTAP)

1- 4: NACE National Conference, Marriott World Center, Orlando, Florida

LTAP Annual Advisory Board Meeting: TBA (MT LTAP)

# Montana LTAP Needs Assessment Survey

You can also take this survey On-Line at [www.coe.montana.edu/ltap](http://www.coe.montana.edu/ltap).

## Introduction

One of the core functions of the LTAP program is to provide technical training to state and county road offices and city street departments. Our vision is to continue to develop this program to fit your training needs. In order to accomplish this goal, we are requesting that you complete this Needs Assessment Survey. We want to take a fresh look at the services LTAP provides and determine what changes in services need to be implemented.

This survey is divided into four sections:

- (1) Technical Training
- (2) Technology Transfer
- (3) Management Systems
- (4) Technological Capacity

Each section provides us with key information relating to your training needs, desired level and/or type of technical assistance, and the technological capacity of your office or agency.

## Section 1. Technical Training

Each Training Need listed on the following pages may not be addressed best through the same training approach (i.e., classroom, video conference, workshop, etc.). Therefore, in addition to asking you to identify your training needs, we are asking you to identify which training approaches you think may be most appropriate. If you have no opinion, just leave the Training Approaches Column (III) blank.

**Column I** – Please estimate the number of personnel from your office/agency that might participate in this training.

**Column II** – Please prioritize the training subject area using a scale of 1 to 5 with 1 being the highest priority and 5 being the lowest priority.

- 1= Highest Priority
- 5 = Lowest Priority

**Column III** – Please indicate the letter of the preferred training approach (A, B, or C) from the three choices shown below.

Choice	Definition
A	On-Demand Training: Training which can be scheduled on short notice (30 to 60 days), conducted on site, and is typically only 2 to 8 hours in duration.
B	Workshops: Training that is scheduled 4 to 6 months in advance and lasts from several hours to several days.
C	Certification: Training & testing that is designed to validate competency in a given technical area. It also allows standardization of qualifications. An example of this type of training/testing is the Work Zone Flagger certification.

## Section 1. Technical Training

Subject	Column I Number To Be Trained	Column II Priority (1 to 5)	Column III Training Approach (A, B, or C)
<b>Design &amp; Pre-Construction</b>			
Transportation Planning	_____	_____	_____
Surveying	_____	_____	_____
Standards & Specifications	_____	_____	_____
AASHTO Roadway Prism Design	_____	_____	_____
Road Shoulders & Ditches	_____	_____	_____
Clear Zones & Edge Drop-offs	_____	_____	_____
Other _____	_____	_____	_____

## Section 1. Technical (cont'd)

Subject	Column I Number To Be Trained	Column II Priority (1 to 5)	Column III Training Approach (A, B, or C)
<b>Construction</b>			
Earthwork	_____	_____	_____
Drainage Structures	_____	_____	_____
Asphalt Pavements	_____	_____	_____
Other _____	_____	_____	_____
<b>Maintenance</b>			
Roadside	_____	_____	_____
Drainage Structures	_____	_____	_____
Unpaved Roads	_____	_____	_____
Asphalt Roadways	_____	_____	_____
Snow & Ice Control	_____	_____	_____
Other _____	_____	_____	_____
<b>Equipment</b>			
Operation	_____	_____	_____
Maintenance & Repairs	_____	_____	_____
Fleet Management	_____	_____	_____
Other _____	_____	_____	_____
<b>Management</b>			
Pavement Management Systems	_____	_____	_____
GIS/GPS	_____	_____	_____
Sign Management	_____	_____	_____
Coordination with			
Rural Addressing Weed Control	_____	_____	_____
GASB34	_____	_____	_____
Creative Funding	_____	_____	_____
PASER	_____	_____	_____
<i>(Pavement Surface Evaluation Rating)</i>			
Other _____	_____	_____	_____
<b>Materials</b>			
Soils & Aggregate	_____	_____	_____
Concrete	_____	_____	_____
De-Icer Chemicals	_____	_____	_____
Other _____	_____	_____	_____
<b>Asphalt</b>			
Asphalt Materials	_____	_____	_____
Use of Recycled Asphalt			
in Hot Mix (15-20%) Technology	_____	_____	_____
Crack Seals	_____	_____	_____
Chip Seals	_____	_____	_____
CRF Seals (Double Shots)	_____	_____	_____
Other _____	_____	_____	_____
<b>Traffic Control</b>			
Signing (Permanent)	_____	_____	_____
Sign Reflectivity	_____	_____	_____
Flagging	_____	_____	_____
Work Zone Traffic Control	_____	_____	_____
Other _____	_____	_____	_____
<b>Worker Safety</b>			
Motor Vehicle Crashes	_____	_____	_____
Slips and Falls	_____	_____	_____
Back Safety	_____	_____	_____
Finger and Hand Safety	_____	_____	_____
Winter Survival	_____	_____	_____
Summer Safety	_____	_____	_____
Hazardous Materials	_____	_____	_____
Other _____	_____	_____	_____

# Needs Assessment Survey (cont'd from page 8)

## Section 1. Technical (cont'd)

Subject	Column I Number To Be Trained	Column II Priority (1 to 5)	Column III Training Approach (A, B, or C)
<b>Other Areas</b>			
Public Relations	_____	_____	_____
Legal Issues	_____	_____	_____
Safety/Risk Management	_____	_____	_____
Basic Math Skills	_____	_____	_____
Sedimentation & Erosion Control, BMP's	_____	_____	_____
Leadership-Supervision	_____	_____	_____
Other _____	_____	_____	_____

## Section 2. Technology Transfer

LTAP strives to assist you in keeping abreast of current research and transportation knowledge. In addition to ranking the below subjects, we have listed a number of commonly used technology transfer methods. Please indicate, if possible, your preference for each of the methods. Technology transfer can be viewed as any process by which existing research knowledge, or new technology, is transferred into useful processes, products or programs.

### Directions

Of the subjects listed below, please indicate your top five priorities with 1 being the highest priority and 5 being the lowest priority.

- \_\_\_\_\_ Pre-Construction and Design
- \_\_\_\_\_ Construction Techniques
- \_\_\_\_\_ Summer Maintenance
- \_\_\_\_\_ Federal Requirements
- \_\_\_\_\_ Winter Maintenance
- \_\_\_\_\_ Construction Equipment
- \_\_\_\_\_ Asphalt Materials
- \_\_\_\_\_ Safety & Risk Management
- \_\_\_\_\_ Soils/Environmental Considerations
- \_\_\_\_\_ New Technologies
- \_\_\_\_\_ Construction Signing/Traffic Control
- \_\_\_\_\_ Materials
- \_\_\_\_\_ New Product Evaluation
- \_\_\_\_\_ Traffic Control
- \_\_\_\_\_ Information Highway (i.e. Internet, etc.)
- \_\_\_\_\_ Worker Safety
- \_\_\_\_\_ Management
- \_\_\_\_\_ Other \_\_\_\_\_

## Methods for Providing Technology Transfer

Please indicate your preference for accomplishing technology transfer by ranking the top five delivery methods with "1" being the highest priority and "5" being the lowest priority.

- |  |                                       |
|--|---------------------------------------|
| _____ Hands-on Demonstrations                | _____ Reports                         |
| _____ Newsletters                            | _____ LTAP Internet Home Page         |
| _____ Videotapes                             | _____ Computer software presentations |
| _____ Distance Learning                      | _____ Standard DVD                    |
| _____ Webinar (Computer)                     | _____ Publication Lists               |
| _____ TLN (Transportation Learning Network)  | _____ Conferences                     |
| _____ (Satellite - UPGTI)                    | _____ Magazines                       |
| _____ EdNet                                  | _____ Implementation Packages         |
| _____ (Video, phone lines, University Based) |                                       |
| _____ Personal Communication                 | _____ Trade Publications              |
| _____ Product Announcements                  | _____ Trade Shows                     |
| _____ Workshops                              | _____ Other _____                     |

## Section 3. Management Systems

When completing this section, please try to think of the opportunities for creating a better LTAP program and for meeting your future needs.

### Directions

Please check the box that contains the most appropriate response for each question.

1. Is there a need for LTAP to provide agencies with sign inventory and management system assistance to create and/or maintain their own sign management system?

- No Need                       Slight Need                       Strong Need

2. Is there a need for LTAP to provide agencies with pavement management assistance to create and/or maintain their own pavement management system?

- No Need                       Slight need                       Strong Need

3. Is there a need for LTAP to provide agencies with a cost accounting program to track expenses for labor, equipment, and material for each project?

- No Need                       Slight need                       Strong Need

4. What, if any, other management needs do you have?

\_\_\_\_\_

\_\_\_\_\_

## Section 4. Technological Capacity

This section simply refers to your agency's ability to receive information using different methods. When completing the questions, it is not necessary to perform an inventory of your facilities. We only need reasonable estimates that can be used for planning purposes.

### Directions

Please check box or fill in the blank with the most appropriate response for each question.

How many computers does you agency use?

- None       1-5       6-10       11 or more

How many computer(s) have access to the Internet in your organization?

- None       1-5       6-10       11 or more

What is the computer software platform most widely used in your agency?

\_\_\_\_\_

\_\_\_\_\_

What other learning tools do you feel could be used?

- Webinars       Technical Visits       Workshops  
 Distance Learning Network

Please list any thoughts or comments below. We sincerely appreciate your input.

\_\_\_\_\_

\_\_\_\_\_

**You can also take this survey On-Line at [www.coe.montana.edu/ltap](http://www.coe.montana.edu/ltap).**

Copy this survey for other employees to complete!

Fax completed survey to: 406-994-5333

Or Mail to: Montana LTAP, PO Box 173910, Bozeman, MT 59717-3910

If you have any questions, please call Montana LTAP at 1-800-541-6671 or e-mail [galbert@coe.montana.edu](mailto:galbert@coe.montana.edu).

# 20th Annual Equipment Operator Training & Snow Rodeo September 2 & 3, 2009

## Workshop Objective

To provide participants with a full day of safety training combined with equipment competition to increase safety skills and knowledge.

## Workshop Description

The first day of safety training will include cattleguard design and liability issues presented by LTAP Director Steve Jenkins. Velvet Smooth Roads are back and Joe Miller, Missoula County Road Department, will share his road skills. The morning session will also include leveling and reading grade stakes training. The afternoon training begins with a leveling and reading grade stakes hands-on field exercise. Equipment safety inspections and training will be provided during the afternoon session, also. The Snow Rodeo competition will take place on the second day challenging contestants on a snowplow, front-end loader, motorgrader, backhoe, walk-around inspection, and safety test.

## Who Should Attend

The classroom workshop combined with the equipment safety training is designed to provide experience and test the skills of anyone involved in performing snow removal on roads, streets, and runways. Personnel from Montana Department of Transportation, cities, towns, counties, tribal members, and military are welcome. There will be safety instruction, hands-on experience, food, and prizes.

## Vendors

Exhibit space is available at Metra Park both days for \$250 arranged through Montana LTAP, 1-800-541-6671.

## Workshop Schedule - Yellowstone Room

### Day One

7:30 am	Registration & Coffee
8:00 am	Cattleguards
8:30 am	Velvet Smooth Roads
10:00 am	Break
10:30 am	Leveling
<b>NOON</b>	<b>BBQ</b>
1:00 - 2:30 pm	Leveling & Reading Grade Stakes Exercise
2:30 - 4:00 pm	Equipment Walk Around Inspection and Hands-on Training

### Day Two

7:00	Registration
8:00	Opening Ceremony/Orientation
8:30	Competition Starts
Noon	Lunch Provided
1:00	Competition Continues
3:00	Safety Equipment Video
4:00	Awards

## Instructor

Steve Jenkins, P.E., and LTAP Director, has a Master's degree in Geotechnical Engineering. He has worked with the Utah Department of Transportation in roadway design, transportation planning, materials, research and hydraulics.

Steve has been involved with local and tribal governments for twenty years. For the past seventeen years, Steve has taught in many western states and collects interesting photos.

## Registration Information - September 2 & 3, 2009 - Snow Rodeo

Preregistration is required. Go to [www.coe.montana.edu/ltap](http://www.coe.montana.edu/ltap) for on-line registration OR Fax this completed form to:

Montana LTAP, PO Box 173910, Bozeman, MT 59717-3910

For questions or information, call Genevieve Albert, LTAP Conference Coordinator :1-800-541-6671 or 1-406-994-6100 or email: [galbert\(at\)coe.montana.edu](mailto:galbert(at)coe.montana.edu).

Name \_\_\_\_\_ Position \_\_\_\_\_

Agency \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ ZIP Code \_\_\_\_\_ Office Phone \_\_\_\_\_

**No limit to training attendance BUT competition attendance will be limited to 60 participants.  
MUST have prior experience on equipment to compete! Only five or less competitors from each agency.**

Training Only \$40       Competition Only \$60       Training & Competition \$100

Please indicate which events you will be competing in during the Snow Rodeo on September 3:

Snowplow     Loader     Backhoe     Motorgrader     1st Time Competitor

**Competitors will receive a T-Shirt - Need Shirt size submitted by August 20:**  M     L     XL     2XL     3XL

If state, county, or city department requires invoicing, please check here

For general conference information, call 1-800-541-6671, 406-994-6100 or FAX 406-994-5333.

Vendors: Register for exhibit space (\$250/vendor) through Montana LTAP, 1-800-541-6671

Register On-Line: go to [www.coe.montana.edu/ltap](http://www.coe.montana.edu/ltap)

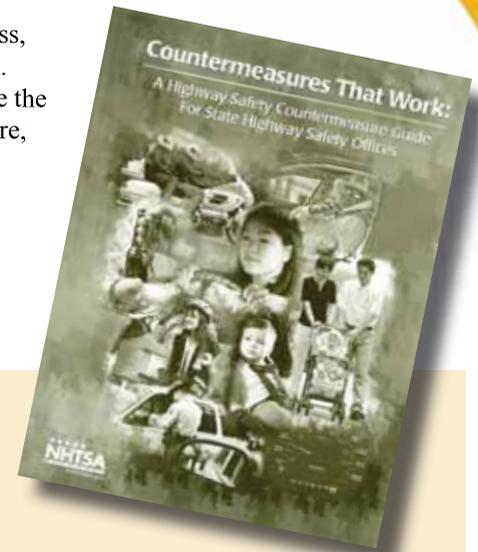
## Montana LTAP Library

Welcome to the LTAP Lending Library where publications, videos, DVD's, and software may be borrowed for two weeks and then returned to the Library. Up to three videotapes or DVD's may be checked out from the LTAP Lending Library rent-free for two weeks. Some publications are free or for a nominal charge upon request.

Information or checkout procedures, call Genevieve Albert or Michele Beck, LTAP,

1-800-541-6671. If you have computer access, please e-mail us: [mtltap@coe.montana.edu](mailto:mtltap@coe.montana.edu). We recently reorganized the library and have the new lists for the library publications, software, DVD's, and videos at our web site: [www.coe.montana.edu/ltap](http://www.coe.montana.edu/ltap).

At this web site, you can also keep track of upcoming workshops, past and present newsletters, and "What's New" items that change.



## New Publications

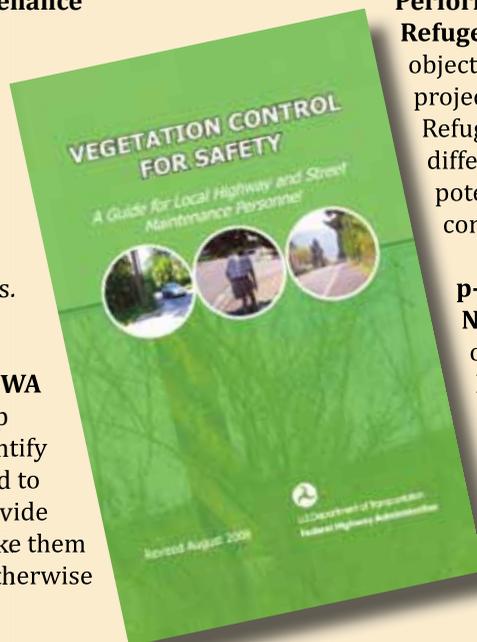
### **p-308 Long Term Pavement Performance Computed Parameter: Frost Penetration (FHWA November 2008)**

Frost penetration information is necessary for determining the effect of freeze and thaw on pavement structural responses. This report describes a methodology for determining frost penetration in unbound pavement layers and subgrade soil using electrical resistivity, moisture, and temperature data collected for instrumented LTPP Seasonal Monitoring Program sites. (92 pages)

**p-310 Long-Term Pavement Performance Program Manual for Profile Measurements and Processing (FHWA November 2008)** This manual describes operational procedures to be followed when measuring longitudinal pavement profiles for the LTPP program using the International cybernetics Corporation (ICC) road profiler, Face Company Dipstick, and the rod and level. (241 pages)

**p-475 Environmentally Sensitive Maintenance for Dirt and Gravel Roads (Penn State October 2007 Reissue)** The manual will provide insight into using natural systems and innovative technologies to reduce erosion, sediment and dust pollution while more effectively and efficiently maintaining dirt and gravel roads. The manual will address the environment of forests, mountainous terrain, and rolling hills. (334 pages)

**p-521 Vegetation Control for Safety (FHWA Revised August 2008)** This guide is to help local road agency maintenance workers identify locations where vegetation control is needed to improve traffic and pedestrian safety, to provide guidance for maintenance crews, and to make them aware of safe ways to mow, cut brush and otherwise control roadside vegetation. (50 pages)



### **p-972 Countermeasures That Work: A Highway Safety Countermeasure Guide for State Highway Safety Offices (NHTSA 2008)**

This guide is a basic reference in selecting effective, science-based traffic safety countermeasures. The guide describes major strategies and countermeasures that are relevant to state highway safety offices; summarizes their use, effectiveness, costs, and implementation time; and provides references to the most important research summaries and individual studies. The nine areas included are Alcohol-Impaired Driving; Seat Belts; Aggressive Driving and Speeding, Distracted and Fatigued Driving; Motorcycle Safety; Young Drivers; Older Drivers; Pedestrians; and Bicyclists. (289 pages)

**p-706: Road Stabilizer Product Performance—Seedskadee National Wildlife Refuge (FHWA 2008)** The primary objective of this project, like its predecessor project at Buenos Aires National Wildlife Refuge in Arizona, was to evaluate six different road stabilizer products for potential use on FLH projects for dust control and surface stabilization. (106 pages)

**p-2015 W-Beam Guardrail Repair (FHWA November 2008)** This guide is an update of the original one published in 1990 by FHWA (p-2005). This guide provides highway and maintenance personnel with up-to-date information on how to repair damaged W-Beam guardrail. Three levels of damage are described and guidance is provided on the need and procedure for appropriate repairs. (54 pages)

**We Are Moved** - We are now housed in the new Western Transportation building on the southwest side of the MSU campus. All of our information stays the same except for the new physical address of Room 230 at 2327 University Way. If you happen to be in Bozeman, please visit us in our new "digs." We would be happy to show you around.



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## Editorial Contributions Welcome

LTAP welcomes contributions to *LTAP MATTERS*. Those wishing to submit relevant material to be published in the next newsletter can submit their ideas and articles to:

Michele Beck  
Local Technical Assistance Program  
2327 University Way  
PO Box 173910  
Montana State University-Bozeman  
Bozeman, MT 59717-3910

(800) 541-6671 or (406) 994-6100  
Fax: (406) 994-5333  
email: mbeck(at)coe.montana.edu

The Local Technical Assistance Program Newsletter, *LTAP MATTERS*, is published quarterly. Funding for this program is provided by the Federal Highway Administration, Montana Department of Transportation, Montana State University, and a portion of Montana's gas tax revenues.

This newsletter is designed to keep you informed about new publications, techniques, and new training opportunities that may be helpful to you and your community.

Present and past issues are available at [www.coe.montana.edu/ltap](http://www.coe.montana.edu/ltap) or by calling 1-800-541-6671.

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LTAP attempts to provide accommodations for any known disability that may interfere with a person participating in any service, program or activity. Alternative accessible formats of this document will be provided upon request.

Please send us any comments or concerns you may have regarding this newsletter with your name and address in order that we may respond in a timely manner.