



AMERICA'S FAILING INFRASTRUCTURE

By: Larry Rincover, Project Manager, Negotiation Services

Did you know that part of the water system currently in use in Washington D.C. was installed prior to the Civil War?

“Infrastructure is the foundation that connects our nation’s businesses, communities, and people, driving our economy and improving our quality of life. For the U.S. economy to be competitive, we need a first class infrastructure system.” Right Of Way Magazine, May/June 2013

The article goes on to summarize the Society of Civil Engineers (ASCE) 2013 Report Card which gives the nation’s infrastructure an overall grade of D+. The ASCE comprehensive report card is produced every four years and since 1998 has indicated failing grades due to delayed maintenance and underinvestment across most categories. “As a result, America’s critical infrastructure; roads, bridges, drinking water systems, mass transit systems,

schools and systems for delivering energy may soon fail to meet society’s needs.” To further quote ASCE: “As civil engineers, ASCE believes that we are the stewards of infrastructure – we designed it, we built it, and we actually oversee the operations and maintenance of it in many cases. It’s more than simply raising the grade. Investment in our infrastructure will help grow our economy. It will create jobs and improve our quality of life.”

The article points out that we have a significant backlog of overdue maintenance across our infrastructure systems... a pressing need for modernization. The ASCE illustrates that a total investment of \$3.6 trillion is needed by 2020 across 16 different sectors. Only about \$ 2 trillion is now projected, leaving a shortfall of \$1.6 trillion.

In This Issue...

- America’s Failing Infrastructure....Cover & Page 3***
- Staff News...Page 2***
- Bruce Drewes Retires....Page 3***
- Starting GIS at your Agency....Pages 4 & 5***
- LHTAC Workshops....Page 6***
- 2015 LRHIP Application....Page 6***
- 2014 Federal-aid Urban & Bridge Application....Page 6***
- T2 Center Fall Courses 2013....Page 7***
- T2 Center 2013 Road Scholars...Page 8***
- T2 Center 2013 Road Masters....Page 9 & 10***
- Lewiston Safety Fest of the Great Northwest....Page 10***
- ISPWC Questions & Answers...Page 11***
- Calendar Of Events....Back Page***



President Obama’s 2014 federal budget plan includes \$50 billion for infrastructure investments, including \$ 40 billion to cover “Fix it First” projects. These include repairing highways, bridges, transit systems and airports. In my opinion, it’s simply not enough.

Continued on Page 3...

To receive this Newsletter electronically instead of a paper copy, please send your request to:



lhtac@lhtac.org

Thank you!



LOCAL HIGHWAY TECHNICAL ASSISTANCE COUNCIL MEMBERS

Idaho Association of Highway Districts

Dan Schaeffer, Chairman
Commissioner, Hillsdale Highway District

Gilbert Hofmeister
Commissioner, Power Co. Highway District

Terry Werner
Commissioner, Post Falls Highway District

Idaho Association of Counties

Don Ebert, Vice Chairman
Commissioner, Clearwater County

Lan Smith
Commissioner, Gem County

Lee Staker
Commissioner, Bonneville County

Association of Idaho Cities

Randall Prescott Sec/Treasurer
Councilor, City of Soda Springs

Kevin Poole
Mayor, City of Lewiston

Mac Pooler
Mayor, City of Kellogg

Ex-Officio Members

Tony Poinelli, Deputy Director
Idaho Association of Counties

Ken Harward, Executive Director
Association of Idaho Cities

Stuart Davis, Executive Director
Idaho Association of Highway Districts



IDAHO TECHNOLOGY TRANSFER (T2) CENTER ADVISORY BOARD

Kelly Brownsberger, Chairman

Road Supervisor
Post Falls Highway District
208-765-3717

Leland Snyder

Ada County Highway District
208-387-6323

John Zamora

Director
Buhl Highway District
208-543-4298

Dan Copeland

Public Works Director
Bannock County Road & Bridge Dept.
208-233-9591

Rob Simon

Supervisor
Clearwater County Road & Bridge
Dept. 208-476-4813

Brian Christiansen

Street Superintendent
City of Ketchum Street Department
208-726-7831

Don Barr

Street Superintendent
City of Nampa Street Division
208-468-5831

Garth Newman

Technical Training Specialist
Idaho Transportation Department
208-334-8039

Associate Member

Ned Parrish
ITD Research Program Manager
208-334-8296

Ex-Officio Members

Lance Holmstrom
LHTAC Administrator
800-259-6841

Lori Porreca, PhD

Community Planner
FHWA-Idaho Division
208-334-1843 Ext. 132

STAFF

Lance Holmstrom, MUP, Administrator

Jeff R. Miles, PE, Deputy Administrator

Susan Lasuen, Office Manager

Nancy Ziebarth, Administrative Specialist

Scott Ellsworth, PE/PLS, Federal-aid Manager

Gerald H. Flatz, PE, Federal-aid Area Manager

Wayne Herbel, PE, Federal-aid Area Manager

Dan Coonce, PE, Federal-aid Area Manager

G. Daniel Shirilla, Federal-aid Financial Manager

Craig Herndon, Federal-aid Engineer Assistant

Todd Bartolome, PE, Construction Engineer Manager

Odo Grandi, PE, Construction Staff Engineer

Steve Sprague, Construction Coordinator

Karissa Hardy, PE, Environmental Engineer

Bev Williams, Construction Records Inspector

Byron Walker, Construction Intern

Matthew Syphus, GIS Specialist

Joe Gawron, GIS Intern

Laila Kral, PE, T2 Manager & Safety Engineer

Lorie Cover, T2 Training Coordinator

Denise Shields, T2 Event Coordinator

Doug Chase, PE, T2 Instructor

STAFF NEWS

- Laila Kral, P.E. has a new title. She is now the T2 Manager and Safety Engineer. She is managing the T2 Center, Safety and LRHIP programs.
- Joe Gawron is LHTAC's GIS Intern.
- Nancy Ziebarth has a new title. She is now the Administrative Specialist. In addition to answering the phones and greeting everyone, she is assisting with accounting functions and organizing LHTAC's Council meetings.

Congratulations!

Local Highway Technical Assistance Council (LHTAC)

Idaho Technology Transfer (T2) Center—LTAP

3330 Grace Street, Boise, ID 83703

Phone: (208) 344-0565 (800) 259-6841

Fax: (208) 344-0789

LHTAC website, www.lhtac.org

LHTAC T2 Center website, www.idahot2.org

Continued from Front Page...

ASCE 2013 Report Card

Energy D+	Dams D	Drinking water D
Hazardous Waste D	Levees D	Solid Waste B
Wastewater D	Aviation D	Bridges C+
Ports C	Inland Waterways D-	Rail C+
Roads D	Transit D	Schools D
Pubic Parks & Recreation C-		

We know that investing in infrastructure is essential to support healthy, vibrant communities. Infrastructure is also critical for long-term economic growth, increasing GDP, employment, household income, and exports. The reverse is also true. Without prioritizing America’s infrastructure needs, deteriorating conditions can become a drag on the economy. We need to act now. Our State and Federal legislators must be made aware of these critical needs. To see and hear the ASCE report card visit www.infrastructurereportcard.com You may decide to forward it to your constituents and legislators.

Reference: Larry Rincover, Negotiation Services, LLC, ns@rincover.com 208-861-0488

Bruce Drewes Retires



Bruce at retirement party

Bruce Drewes retired on August 30th, after 32 years of service to Local Highway Jurisdictions. LHTAC hosted a retirement luncheon with staff, followed by an afternoon reception for the public.

Over Bruce’s career he worked for the Idaho Transportation Department (ITD) and the Idaho T2 Center. He helped numerous local jurisdictions with training, technical assistance and safety issues. He was truly committed to the safety and training of LHJ’s.



Staff dressed up for luncheon

We wish Bruce well and send him off on his new adventures. Thank you Bruce for all you did in your 32 years!



Continued on Page 4...

Starting GIS at Your Agency

By: Matthew Syphus, LHTAC GIS/Website Manager

In just about every industry, GIS is becoming increasingly common; local governments and road jurisdictions are no exception. Loosely defined, GIS, or Geographic Information Systems, refers to any computer system that handles data with a locational context. In its basic form it includes a spreadsheet with addresses. At the other end of the spectrum are enterprise database systems capable of complex geographic analysis and mapping. In any implementation, the right data, software, and skills are key. Several sources are available for both free and proprietary data and software. I will introduce at least some of the options for agencies that may want to start their own GIS.

There are many providers of very capable GIS software. Among them, ESRI, AutoDesk, Intergraph, Manifold, and Pitney Bowes offer proprietary solutions. (Several of the proprietary providers also have free viewers or evaluation versions.) Free options include QGIS, uDig, MapWindow, gvSIG, OpenJUMP GIS, and others. Any GIS program should open and use shapefiles, the most common GIS data file format, and connect to GIS web services. I will not attempt to compare program functionality or quality so as to avoid a Ford vs. Chevy (vs. Ram vs. Toyota etc.) type argument. The user can evaluate the prospective solutions.

GIS Software Options	
Proprietary Providers	Free GIS Software
<ul style="list-style-type: none"> • ESRI • AutoDesk • Intergraph • Manifold • Pitney Bowes 	<ul style="list-style-type: none"> • QGIS • uDig • MapWindow • gvSIG • OpenJUMP GIS

Data deemed necessary by any organization will vary considerably. Fortunately, the State of Idaho serves a large selection of data online through <http://cloud.insideidaho.org>. In fact, a lot of it can be accessed over



Figure 1. Simple road network map.

the internet directly, without the need to download it first. Among available data sets will be various road networks; city, county, and highway district boundaries; statewide aerial imagery; and much more. Individual state and federal agencies, such as the Tax Commission, Department of Lands, BLM, ITD, etc. may have other data available from their own websites or by direct contact. LHTAC also plans to offer online GIS data in the future. The idea is to gather reference information from other sources who offer it for little or no cost. Most government organizations do so as part of the Freedom of Information Act. Your agency only needs then to create or generate GIS data specific to its own network: road assets, work procedures, construction projects, etc. This can be done with desktop software

(and aerial imagery), mobile technology (such as phones and tablets), or GPS devices.

With the right skills, this data and software can now be put to use. The ability to map or locate all the miles of road within a network is an obvious benefit. (See Figure 1.) Even more useful is viewing your road network in relation to other things, such as government boundaries, utilities, road assets, crash locations, rivers, other road networks, etc. (See Figure 2.) Though mapping is a common method of displaying the information, it is not the only purpose of a GIS. In the last 10-15 years it has expanded beyond simply storing and visualizing object locations to integrating with business plans and procedures. GIS can focus work efforts (see Figure 3), keep and display maintenance records,

Continued on Page 5...

...Continued from Page 4

facilitate reports (see Table 1), and aid in planning and budgeting.

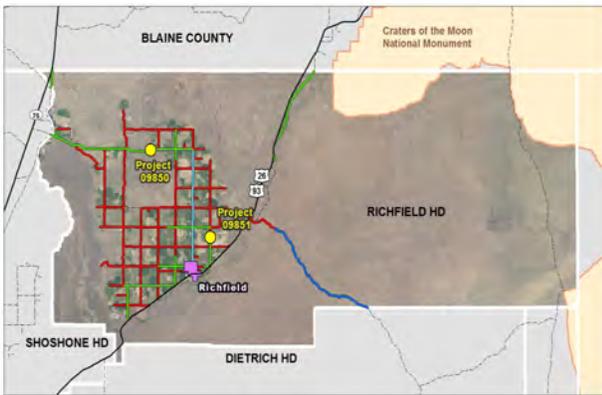


Figure 2. Road network map showing road surface type, projects, additional networks, political boundaries, and aerial imagery.



Figure 3. Signs that may need to be repaired or replaced. Work orders and routes can be created

Loc ID	Road Name	From Address	To Address	Area (yd^2)	RSL	Asset Value
213	Alpine Lane	6th Street	8th Street	1,862	10.0	\$69,833.34
119	Aspen Drive	End of road	Fir Drive	358	10.0	\$13,416.67
134	Aspen Drive	Elm Drive	Pine Drive	1,072	10.0	\$40,200.00
116	Aspen Drive	Fir Drive	Cedar Drive	422	10.0	\$15,833.33
120	Elm Drive	Joseph Road	Aspen Drive	587	10.0	\$22,000.00
137	Elm Drive	Pine Drive	Shady Lane	216	10.0	\$8,100.00
112	Elm Drive	Springs Road	Joseph Road	619	10.0	\$23,200.00
342	Badger Lane	Deer Creek Road	Moose Court	473	10.0	\$17,750.00
104	Mountain Road	Irene Street	Irene Street	2,564	10.0	\$96,166.66
102	Mountain Road	Irene Street	Springs Road	3,540	10.0	\$132,750.00
84	Belmont Drive	Warm Springs Road	Finders Way	3,229	10.0	\$121,100.00
12	Big Iron Drive North	Grilling Court	Telescope Road	2,330	4.0	\$34,953.33
8	Big Iron Drive North	Elmer Rd	Grilling Court	3,351	4.0	\$50,260.00

Table 1. Report from GIS on asset value per road segment.

GIS provides a number of benefits and great potential for complementing or simplifying work procedures. It will take some effort to become acquainted, but don't be afraid to give it a try and see what it can do for you and your organization. For general information about GIS in the State of Idaho, including standards, tutorials, user groups, and more, check the Idaho Geospatial Office website at <http://gis.idaho.gov/>.

LHTAC Workshops

LHTAC will be presenting a workshop overview of the following programs.

These one day FREE workshops are beneficial for LHJ's and Consultants.

- Local Federal-Aid Programs — Rural, Urban, Bridge, Construction
- Local Highway Safety Improvement Program (LHSIP)
- Local Rural Highway Investment Program (LRHIP)
- Informational Items
 - Americans with Disabilities Act (ADA) Compliance & Title VI
 - Functional Classification
 - 129,000 pound Truck Routes

Registration is not required.



Workshop Schedule

District 1—October 23 at 9 a.m., Idaho Transportation District Office, 600 West Prairie, Coeur d'Alene

District 2—October 24 at 9 a.m., Idaho Transportation District Office, 2600 Frontage Road, Lewiston

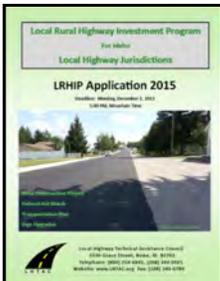
District 3—October 8 at 9 a.m., Idaho Transportation District Office, 8150 Chinden Blvd, Boise

District 4—October 9 at 9 a.m., Idaho Transportation District Office, 216 South Date St, Shoshone

District 5—October 29 at 9 a.m., Idaho Transportation District Office, 5151 South 5th Street, Pocatello

District 6—October 30 at 9 a.m., Idaho Transportation District Office, 206 N. Yellowstone Highway, Rigby

2015 LRHIP Application



The 2015 Local Rural Highway Investment Program (LRHIP) Application has been mailed out and is currently posted on our website, www.lhtac.org. There are a few changes you should be aware of regarding scoring and eligibility.

1. Applications submitted spiral bound or similarly will not be accepted or scored. Please staple or binder clip application together.

2. Applications that are not organized to match the application numbering or tabbed incorrectly, will not be scored or eligible for funding. Organize your application backup data to match the numbering on the application sheet.

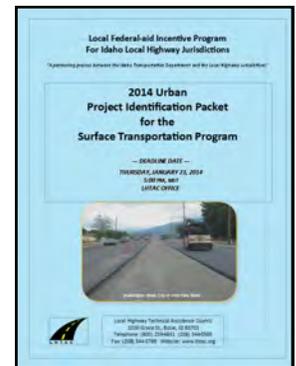
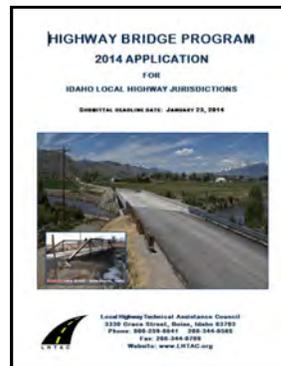
3. Federal-aid Match applicants must have their Federal-aid project listed in the ITIP and scheduled for construction within two years of the LRHIP application year.

4. Backup information for most items now have a page limit. Please be aware of the page limits when preparing your application.

Applications are due to LHTAC on Monday, December 2, 2013 by 5:00pm Mountain Time.

Questions, contact Laila Kral, LKral@lhtac.org, (800) 259-6841

2014 Federal-aid Application



The 2014 Federal-aid Urban and Bridge application have been mailed out to eligible Local Jurisdictions, and is posted on our website, www.lhtac.org.

There is no Federal-aid Rural application since they are only accepted every other year, effective June 2012.

Applications are due to LHTAC on Thursday, January 23rd by 5:00pm Mountain Time.

Questions, contact Scott Ellsworth, sellsworth@lhtac.org, (800) 259-6841

T2 Center Fall Courses 2013

See our website for more details: www.idahot2.org

Date	Workshop	Workshop Location	Road Scholar Program
10/03/13	Pavement Maintenance I	Nampa	Road Scholar
10/7-8/2013	ATSSA Traffic Control Supervisor (2 days)	Lewiston	Elective
10/08/13	Speed Limits & Speed Zones (2 days)	Hailey	Road Master
10/15/13	Motor Grader Operations (3 days)	Rigby	Elective
10/16/13	Pavement Maintenance II	Sagle (Bonner County)	Road Master
10/17/13	Asphalt Paving Materials - (formerly Idaho Paving Materials)	Sagle (Bonner County)	Road Master
10/21/13	ATSSA Traffic Control Technician	Twin Falls	Road Master
10/22-23/13	NEW! Hot Mix Asphalt Workmanship Training <i>Contact the T2 Center for registration information & course fees!</i>	Coeur d'Alene	Elective
10/29/13	Pavement Maintenance II	Nampa	Road Master
10/29/13	Winter Maintenance	Lewiston	Road Master
10/30/13	Asphalt Paving Materials - (formerly Idaho Paving Materials)	Boise	Road Master
10/31/13	Manual of Uniform Traffic Control Devices	Pocatello	Elective
11/05/13	Pavement Maintenance I	Moscow	Road Scholar
11/05/13	Winter Maintenance	Boise	Road Master
11/06/13	Roadway Drainage	Lewiston	Road Master
11/06/13	Roadway Materials	Idaho Falls	Road Scholar
11/07/13	Roadway Materials - CLASS FULL (ACHD Course)	Garden City	Road Scholar
11/07/13	Winter Maintenance	Pocatello	Road Master
11/08/13	Gravel Road Maintenance and Design	Garden City	Elective
11/19/13	Speed Limits & Speed Zones (2 days)	Nampa	Road Master

Registration Fees

Specialized Course Fees: (early registration does not apply)	Agency	Early Reg.	After Reg. Deadline
- ATSSA Traffic Control Technician: Local Highway Jurisdictions - \$105 State & Federal - \$125 / Private - \$150	Local State & Federal Out of state & Private	\$60 \$95 \$125	\$70 \$105 \$135
- ATSSA Traffic Control Supervisor: Local Highway Jurisdictions - \$200 State & Federal - \$220 / Private - \$255 <i>*ATSSA Certification Fee add \$100 to the course fee*</i>			
- Speed Limits & Speed Zones: (2 day course) - \$80			
- Heavy Equipment: (3 days) Local govt: \$320 / Private org: \$470			

How To Register

Go to the Idaho T2 Center website: www.idahot2.org and log into the site with your user name and password.
If you do not have a user name and password, on the left side of the webpage, click on the link "request login".
Once logged in you can register by viewing available classes on the training calendar or go to "Your Info" on the left navigation bar.

Class Information

- Class information is posted online: www.idahot2.org
- Classes start at 8:30 AM unless noted otherwise. Attendees will have a one-hour lunch break; lunch will not be provided.
- Register two or more weeks in advance to receive the early registration discount. (Does not apply to specialized course fees.)
- Registration Cut Off: Is two weeks prior to the class.

Cancellation Policy: If you must cancel, please call us at 208-344-0565 or at 800-259-6841. A refund will not be issued unless a cancellation notice is received at least two (2) business days before the class.

Please contact the T2 Center if you need assistance. Email: idahot2@lhtac.org or call 208-344-0565 or 800-259-6841.

2013 T2 Center Road Scholar Recipients



Post Falls Highway District

From left to right: Dave Yerian, Ed Mael Bob Miller; Chairman Lynn Humphreys; and Vice-Chairman Terry Werner and Mark Roberts



Madison County Road & Bridge

From left to right: Kirbi Nelson and Retired T2 Manager Bruce Drewes



Jefferson County Road & Bridge

From left to right: Omar Llamas, Casey Bingham (not pictured: Jim Boulter & Melvin Leavitt)



Bonneville County Road & Bridge

From left to right: Bruce Cook, Ken Ray, Kurt Eddie, Wesley Pack-er, Randy Walton

2013 T2 Center Road Master Recipients

ROAD SCHOLAR & ROAD MASTER



City of Nampa, Street Department
Dustin Gillmore



City of Coeur d'Alene
Sharron Simon & Terry Leigh

Highway District No. 1
Tim Hinson



City of Post Falls, Street Department
From left to right: Clint Boren, T2 Manager Laila Kral, Kevin Desilets



City of Rigby
From left to right: Rick Lamoreaux and T2 Manager, Laila Kral

2013 T2 Center Road Master Recipients



East Side Highway District

From left to right: Tom Christensen, Retired T2 Manager Bruce Drewes and Loren Harding

For information about T2 Center's Road Scholar or Road Master program, please contact:
Loire Cover, T2 Center Training Coordinator, lcover@lhtac.org or 1-800-259-6841.

Bonneville County Road & Bridge Jon Tullis



Safety Fest of the Great Northwest

Plan to attend the Safety Fest of the Great Northwest 3 day conference in Lewiston October 22-24, 2013 at the Lewis-Clark State College. This **free** safety training is available to the construction and general industry community to provide safety and health training to help reduce fatalities, injuries and illnesses on the job.

For registration, go to: <http://www.safetyfest-lewiston.org>.

***** Free Training *****

***** Registration Closes soon *****
We hope to see you there!



ISPWC Questions & Answers

Idaho Standards for Public Works Construction (ISPWC) is a publication that is maintained and updated by a committee. LHTAC serves as the clearing house for this publication, selling the manual and answering any questions on the standards.

Recently the ISPWC committee added some answers to the questions below. This will give some clear answers and guidance to anyone who has questions on who should and why they should adopt the standards.

- What is ISPWC?
- How do I order ISPWC documents?
- Describe the ISPWC—Standard Specifications and Drawings.
- What are the EJCDC Construction Phase Documents?
- How did the ISPWC develop?
- Who's in charge of the ISPWC?
- What's the role of the professional engineer on a project that uses the ISPWC?
- What are the limitations on use of the ISPWC?
- Who uses the ISPWC?
- Am I required to use the ISPWC on my project?
- How do I use the ISPWC Standard Specifications and Drawings?
- Do the ISPWC – Standard Specifications and Drawings have everything I need for my project?
- There are other standards referenced in the ISPWC. What are those for?
- Are the ISPWC – Standard Specifications and Drawings available electronically?
- Can I copy and paste portions of the ISPWC - Standard Specifications and Drawings into my Project Manual?
- Why isn't the ISPWC in metric units too?
- Can I photocopy the ISPWC – Standard Specifications and Drawings or CD for other staff members?
- Why don't you have an on-line version of the ISPWC?
- How do I modify the Standard Specifications and Drawings for my project?
- What's the update process?
- How are construction products specified and/or added into the ISPWC?
- Who do I submit a comment, proposed changes and/or suggestions to?



To order an ISPWC manual, simply go to our website www.lhtac.org and download the order form. If you have any questions you can e-mail ispwc@lhtac.org or call (800) 259-6841.

ISPWC Publication	Unit cost	Quantity	Estimated Total
2012 ISPWC Manual Hardcopy and CD *Includes free updates	\$225.00		0.00
2012 ISPWC CD *Includes free updates	\$125.00		0.00
2012 Standard Drawings CD (Available ONLY to Governmental Agencies, Purchasing agencies and/or Purchasing agencies)	\$75.00		0.00
2010 Orders & Specifications Manual (replaces the 1999 Edition). Available ONLY to Governmental Agencies & Contributors belonging to the EJCDC. If you are a Contributor, do you hold a current licensing agreement with EJCDC for this item? Yes or No	\$40.00		0.00
			Subtotal 0.00
			Taxes 0.00
			Sales Tax 0.00
			Total Due 0.00

Please add sales tax, which is 6%.

Sales tax does not apply to Governmental Agencies or Out of State orders.

The Local Highway Technical Assistance Council (LHTAC) is the clearinghouse for ISPWC manuals and other related materials. Please call 202-244-0265 or 1-800-228-8441, or email ispwc@lhtac.org with any questions.

LHTAC is unable to process credit cards, therefore, please mail your order form and check payable to:

ISPWC
3330 Grace Street
Boise, ID 83703

Company Name
Contact Name & Phone Number
Address
City, State and Zip Code
E-mail Address

Local Highway Technical Assistance Council
 Idaho Technology Transfer Center
 3330 W. Grace St.
 Boise, Idaho 83703

Prsrt Std
 U.S. Postage
 PAID
 Boise, ID
 Permit No. 767

VOLUME 7, No. 1 **IDAHO TECHNOLOGY ASSISTANCE NEWSLETTER** **SEPTEMBER 2013**

CALENDAR OF EVENTS

October 8,9,23,24,29,30, 2013	LHTAC Workshops	Boise, Shoshone, Coeur d'Alene, Lewiston, Pocatello, Rigby, ID
October 23-24, 2013	Idaho Asphalt Conference	Moscow, ID
October 22-24, 2013	Lewiston Safety Fest	Lewiston, ID
November 12-13, 2013	Idaho Assoc. of County Engineers & Road Supervisors Convention	Boise, ID
November 13-15, 2013	Idaho Association of Highway Districts Convention	Boise, ID
December 5, 2013	Idaho Technology Transfer (T2) Center Advisory Board Meeting	Boise, ID
December 13, 2013	Local Highway Technical Assistance Council Quarterly Council	Boise, ID
January 21-24, 2014	Boise Safety Fest	Boise, ID

If you are interested in additional information regarding any of the above referenced meetings and/or training sessions, please contact LHTAC at (800)-259-6841 or lhtac@lhtac.org.