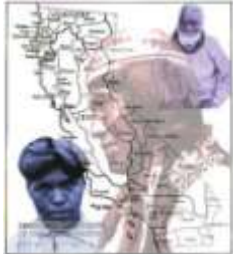


# Tribal Transportation News



A Publication of the California/Nevada TTAP  
Published by the National Indian Justice Center



## Staying on Top of New Technology for Local Streets and Roads



**William E. Reichmuth, P.E.**  
Deputy City Manager, Plans and Public Works (Ret.)  
City of Monterey, California  
Member, APWA Engineering and Technology Committee

Calling all public works directors: Find it difficult to stay on top of things for your local streets? Hear something about new products, processes or procedures that may help to keep your costs down and still deliver better service, and want to hear more? It may be a bit easier than you think to keep your Public Works New Technology Quotient (PWNTQ) high and current.

Everyone has seen the state of car crash technology that results, every year, in improved vehicle safety. Few realize that the same Federal Highway Administration (FHWA) lab that does these tests also “spends much time, money and energy developing and deploying innovations that are designed to meet critical highway needs.” (Quotes in this article are from various websites belonging to FHWA; more on that later.) FHWA calls these “Market-Ready Technologies.”

The key word in the previous paragraph is “deploying.” While it is one thing to develop new technology that is ready for the market, (i.e., ready for practitioners in local government to be able to buy and use), it is quite another thing to get the word out to these practitioners that new technologies are there and ready. While FHWA can do the research and development, it is local public works directors and county and city engineers who play the greatest role in deployment. Yes, I understand the roles of vendors and consultants, but the folks with the buy/deploy decisions are, for the most part, local government officials.

Here is the way to be able to see most all that’s out there on this topic. Google this phrase: Federal Highway Administration Market Ready Technologies. You’ll end up with access to several interrelated websites. Better yet, you’ll get information on what’s new that you can use right now. My personal favorite market-ready technologies are listed in the **Table of Market-Ready Technologies** accompanying this article (see page 4) . It should be noted that FHWA has about twenty-four market-ready technologies that they have designated as “push” technologies, meaning that they’re so important that FHWA is making a special effort to get them deployed. I’m not sure if that means that grant funding might be in the offing, but an inquiry to the contact person is worth a try. The websites will give you much more detail on “push” technologies and, better yet, contact names/phones/e-mail addresses.

From the table, I’d like to emphasize three technologies most cities and counties could, and probably

*(Continued on page 4)*

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**Diane Humetewa**, Attorney (*Hopi*)

5250 Aero Drive  
Santa Rosa, CA 95403  
Phone: (707) 579-5507, Fax: (707) 579-9019  
E-Mail: [nijc@aol.com](mailto:nijc@aol.com)  
<http://www.nijc.org>

CA/NVTTAP is administered by the NIJC. If you would like to submit an article or graphic (jpg or tiff format) for publication in Tribal Transportation News, please send a text file (PC format) to Barry Litchfield, TTAP Coordinator/Editor, [barry@nijc.org](mailto:barry@nijc.org), along with a cover email giving us permission to print your article. We appreciate your submissions!

*The National Indian Justice Center is located in Santa Rosa, California. NIJC's building also houses the administrative offices of the California Indian Museum and Cultural Center, the Intertribal Court of California and the Regional Tribal Justice Center. Construction is currently underway for the California Indian Museum and Cultural Center, which will include a storytelling venue, Native plants garden, California Indian foods, a small Native village, audio-visual displays that highlight California Indian history and the contributions of California Indians, as well as Edward Curtis prints and traveling exhibits. If you are in the area, please come visit and tour the facilities.*

**DIRECTIONS**

**From the North:**

Highway 101 to the Airport Boulevard Exit. Left on Airport Blvd. continue through the intersection at Fulton Road, drive 2 blocks and make a right on Aero Drive. NIJC is located on the left, 1 block into Aero Drive.

**From the South:**

Highway 101 to the Fulton Road Exit. Right at the stop sign onto Airport Blvd. Drive 2 blocks and make a right on Aero Drive. NIJC is located on the left, 1 block into Aero Drive.



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If you would like to join our TTAP Mailing List and subscribe to our quarterly publication of *Tribal Transportation News*, go to [www.nijc.org/ttap.html](http://www.nijc.org/ttap.html) and click on - *join our mailing list*. You can also call Barry Litchfield at (707) 579-5507 x 224.

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**Mike Young**  
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**Alvin Moyle**  
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Pauma Reservation

**Doyle Lowry**  
**Property Specialist**  
Susanville Rancheria

**Nevada DOT Archeological Efforts Applauded**

The Federal Highway Administration has given an Exemplary Human Environment Initiative award to NDOT for its partnering efforts to preserve the Old Stewart Indian Cemetery as part of the Carson City Freeway project.

The cemetery was used for burial until the 1940s by the Washoe, Shoshone and Paiute tribes. With the final phase of the Carson City Freeway planned to be constructed within 1,000 feet of the cultural site, NDOT wanted to mitigate any visual impact on the cemetery.

NDOT environmental experts partnered with the Washoe Tribe of Nevada and California, Washoe Tribal Historic Preservation



Office, Nevada Indian Commission, Virginia City Cemetery Foundation and Stewart Indian Colony Youth Group to preserve and document the cemetery.

The Carson City Freeway project previously received two American Council of Engineering Companies awards for archeological excavation that unearthed one of Northern Nevada's largest prehistoric villages.



*Reprinted with permission from the Nevada T2 Center.*

(Continued from page 1)

should, embrace right away. Firstly, DYNASMART-P integrates traffic analysis with ITS systems and air quality analysis. For all of us just now having to integrate greenhouse gas emissions with most environmental reviews, here's the ticket. Secondly, ACS-Lite improves traffic signal timing by making it self-adjusting. Gone are the days of periodic counts and manual adjustments. Thirdly, TELUS integrates land use planning, economics, and transportation so as to produce annual transportation programs (MTIP and RTIP) by cities/counties and their metropolitan planning organizations.

Give this a try. You've got nothing to lose, and you could come out way, way ahead. Bookmark some of the sites which interest you; material changes from time to time. Here's your chance to stay on top of road-related new technologies and never have to leave your desk.

William E. Reichmuth can be reached at [reichmuthiii@comcast.net](mailto:reichmuthiii@comcast.net).

### Annotated\* Table of Market-Ready Technologies

**Accelerated Construction Technology Transfer (ACTT):** Creative techniques to reduce construction time and enhance quality and safety.

**Construction Analysis for Pavement Rehabilitation Strategies (CA4PRS):** Optimal rehab strategies to balance construction schedule with driver inconvenience and agency costs.

**Continuous Flight Auger (CFA) Piles:** Eliminates need for temporary casings.

**ACS-Lite:** Improves efficiency and prolongs life-time of signal timing by updating timing to current conditions automatically.

**DYNASMART-P:** Integrates travel demand models into planning, evaluates ITS technologies, and provides air quality analysis from traffic operations data.

**Improved Decisionmaking Using Geographic Information Systems:** Enables analysis, manipulation, display of GIS data.

**Transportation, Economics, and Land Use Systems (TELUS):** Decision support system to enable cities/counties and metropolitan planning organizations (MPOs) prepare annual transportation improvement programs.

**PEDSAFE:** An online interactive system enabling users to "diagnose" a pedestrian-related issue and formulate potential solutions.

**Road Safety Audits:** developed with AASHTO, uses an independent audit team for a formal safety examination of road segments and intersections.

\* Denotes market-ready technologies most directly useful to local government public works agencies. Many others are available now in areas of planning, structures, design and safety, pavements and materials, finance, geotechnical and hydraulics, construction and project management, and operations.



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## Road Safety Audit (RSA) Design Visualization Project

From RSA Summer Newsletter 2010



The RSA process can be used during any phase of a project, but one of the most proactive approaches is to focus on pre-construction during the detailed design stage. Typically, an RSA team will review plans and specifications (which provide 2-dimensional drawings) when conducting an RSA during the design stage. For RSA team members that have not been trained in interpreting or do not utilize construction plans on a regular basis, it may be difficult to fully understand the overall design depicted in a set of plans and envision safety concerns. This is where a 3-dimensional (3D) model of the project may be beneficial. Several transportation agencies utilize computer-aided drafting and design (CADD) software to create a multidimensional model of a highway project. These can range from a simple 3D surface model to an interactive 4D model with rendered dynamic objects such as traffic control devices, vehicles and pedestrians. This new capability has assisted transportation agencies across the nation in planning and designing highway projects.

FHWA is currently piloting the use of Design Visualization and 3D renderings of pre-construction projects for RSA teams to perform safety examinations. Locations in Montana and Rhode Island will serve as the initial two pilot sites. The ultimate goal is to develop a 3D rendering of each pre-construction project with planned improvements and have a team perform a Road Safety Audit of a segment of the road or intersection. Changes will then be made to the 3D model based on input from the team and road owner.

If your agency has a project in the design phase and you are interested in participating as a pilot site, please contact Rebecca Crowe, FHWA RSA Program Manager, at [rebecca.crowe@dot.gov](mailto:rebecca.crowe@dot.gov).

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## PAVEMENT TECHNOLOGY UPDATE

### Warm Mix Asphalt Hits the Road

By Larry Santucci, PE

*Pavement Specialist, University of California Pavement Research Center,  
and California LTAP Field Engineer, Technology Transfer Program,  
Institute of Transportation Studies, UC Berkeley*

#### INTRODUCTION

Warm Mix Asphalt (WMA) has the potential for being one of the most important breakthroughs for the asphalt industry in 50 years [1]. WMA was introduced in Europe in 1995 and debuted in the United States in 2004. In 2009, the National Asphalt Pavement Association (NAPA) estimated that within five years more than half of all asphalt mix produced nationwide will use warm mix processes. As of January 2010, at least 43 states had constructed trial sections using various WMA technologies (Figure 1).

Interest in WMA is far reaching [2, 3]. Hot mix producers are seeking energy efficient, environmentally sound, and worker friendly methods to produce asphalt mixes. Highway agencies are looking for ways to improve mix compaction, extend the construction season, permit longer haul distances, expand night paving, and use higher percentages of recycled mix. Air resources boards and environmental groups are seeking ways to reduce emissions during the production and transportation of asphalt mixes and the construction of asphalt pavements.

To view the full report go to:

[http://www.techtransfer.berkeley.edu/pavetech/prc\\_update\\_vol2\\_no1.pdf](http://www.techtransfer.berkeley.edu/pavetech/prc_update_vol2_no1.pdf)

# Risk Alert: Don't Let Roadside Meth Waste Trip You Up

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Roadway employees who keep our roadsides clean and beautiful—particularly mowers and ditch cleaners—face an unexpected danger as they perform their jobs: exposure to waste from methamphetamine ("meth") labs. For every pound of meth manufactured, five to six pounds of toxic waste is produced. Proper "safe" disposal of the waste is expensive and controlled. The people running meth labs often dump toxic waste or lab equipment without regard for the hazards it causes people, property, and the environment. This stuff can look just like any other trash commonly dumped at the side of the road, but waste from meth labs may contain or be surrounded by potentially hazardous chemicals. Use the information below to recognize and avoid the dangers caused by contact with the byproducts of meth production.

## Facts on Meth

### What is Meth?

Meth is an extremely dangerous and highly addictive stimulant drug that releases high levels of the neurotransmitter dopamine in its users. It is highly addictive and extremely hard to stop using. 98% of users become addicted after just one use. Meth use can cause psychotic behavior and brain damage, and chronic use can bring about violent behavior, anxiety, confusion, insomnia, auditory hallucinations, mood disturbances, delusions and paranoia.

### California's Meth Problem

Clandestine labs that produce meth and other illegal substances are a very real problem in California, where the state Bureau of Narcotic Enforcement seized 286 meth labs in 2005, 498 clandestine labs in 2004, and 768 clandestine labs in 2002. Some authorities believe that for every lab that is seized, 9 others are in operation.

### Where and How Meth is Produced

Meth is manufactured from a variety of chemical ingredients that are readily available in most communities. Its production requires anhydrous ammonia, iodine, and ephedrine, which is found in many over-the-counter cold medicines. Meth can be made just about anywhere. Labs have been found in houses, apartments, barns, outbuildings, garages, hotel and motel rooms, storage facilities, vacant buildings, and vehicles. A makeshift lab can fit in a suitcase.

## The Potential Dangers of Meth Exposure and How to Avoid Them

The chemicals used to make meth are toxic. The fumes from meth waste can cause itching and burn the eyes, throat, and lungs if inhaled. Physical contact with the chemicals or piles of waste can burn the skin and cause very severe respiratory damage. Protect yourself by knowing what to avoid.

### Smell: Know What to Sniff For:

Meth lab trash might emit strong chemical odors. It may smell like cat urine, ether, ammonia, nail polish remover (acetone), or similar chemicals.

### Sight: Look At the Waste Before Picking it Up

The list below includes items that are used to make meth. When found clustered together, these items indicate that a pile of trash could be waste from a meth lab.

- Anhydrous ammonia tanks, often with brass tank valves that are bluish-green
- Loose pills that look like common cold pills or diet pills, or packaging from cold pills that contain ephedrine or pseudoephedrine
- Empty or full containers that are labeled as Muriatic acid, Freon, or Starter fluid
- Alcohol or methanol ("HEET" brand gasoline additive or rubbing alcohol)
- Camp stove fuel ("Coleman" fuel) or lantern fuel cans
- Red-stained coffee filters, bed sheets, pillow cases, or old clothing
- Iodine crystals (grayish-black and shiny)
- Containers that held sodium hydroxide, sulfuric and hydrochloric acid ("Red Devil" lye), or other drain cleaners
- Red phosphorus (in match books or sticks)
- Ether (engine starting fluid)
- Cans of solvents such as Acetone, Benzene, Toluene, Methyl Ethyl Ketone or Xylene
- Disassembled lithium batteries
- Clear glass containers that look like they're from a laboratory, with rubber or plastic hosing
- Containers from table salt or rock salt



(Continued on page 32)

# 2012 IS JUST AROUND THE CORNER

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In order to provide assistance regarding the FHWA mandate to use specific Sign Retroreflectivity Maintenance Methods and have them in place by January 2012, Greg Schertz, P.E., FHWA, provided the following information:

It is a good idea for an agency to document what method they are using and also document how they are adhering to their written policy. My suggestion would be that agencies put in writing which method they select to use. If they are using the visual nighttime inspection method they should consider documenting which of the three inspection procedures they are using. Here is the language from the 2009 MUTCD:

**Standard:**

Public agencies or officials having jurisdiction shall use an assessment or management method that is designed to maintain sign Retroreflectivity at or above the minimum levels in Table 2A-3. A support statement follows in the MUTCD, as follows:








**Support:**

Compliance with the above Standard is achieved by having a method in place and using the method to maintain the minimum levels established in Table 2A-3. (Go to: <http://mutcd.fhwa.dot.gov/pdfs/2009/part2a.pdf>.) The MUTCD also includes this support statement:

**Support:**

Additional information about these methods is contained in the 2007 Edition of FHWA's "Maintaining Traffic Sign Retroreflectivity" (see Section 1A.11 at <http://www.fhwa.dot.gov/publications/research/safety/07042/07042.pdf>). The second support statement seems to be overlooked many times. That document provides some valuable information briefly describing inspection procedures that are acceptable for an agency to be considered to be in compliance with the visual nighttime inspection method (specifically providing the tie of the visual inspection to the minimum values in the table). For additional assistance in understanding the allowed methods and inspection procedures, please see the table on the right-side on this page.

E-mail [Barry@njjc.org](mailto:Barry@njjc.org) to obtain a copy of the—**Guidebook –for Small Agencies, Federal Land Management Agencies, and Tribal Governments.**

			EQUIPMENT NEEDS				INSPECTOR REQMTS		TIME DEMANDS	
			Retro-reflectometer	Inspection Vehicle	Must Know Sheet Type	Inventory	Trained	Age	At Night	Must Stop At Signs
<b>ASSESSMENT METHODS</b> Select Any 1 of These 3 Visual Procedures			 Calibration Signs	Any	(1)	✓	Any	✓		
			 Comparison Panels	Any	(1)	✓	Any	✓	Only Marginal Signs	
			 Consistent Parameters	PU or SUV	(1)	✓	60+	✓		
			 Measured Retro	✓	✓	(1)	(2)	Any	✓	Every Sign
<b>MANAGEMENT METHODS</b>			 Expected Sign Life		✓	(1)				
			 Blanket Replacement		✓	(1)				
			 Control Signs	To Check Control Signs	✓	(1)	(2)			Only Control Signs

(1) Not required in MUTCD, but might be beneficial  
 (2) Need training on operation of retroreflectometer  
 ✓ Means "required"

## **Databases and Other Online Publications**

From the TRB 2009 Publications Catalog

### **Transportation Research Information Services**

The transportation Research Information Services (TRIS) database, the world's largest and most comprehensive source of transportation research, now contains almost 755,000 records of published transportation research. TRIS covers all modes and disciplines of transportation and includes records from the International Research Documentation (ITRD) database, produced in cooperation with Organisation for Economic Co-operation and Development (OECD); and the TLIB from the transportation libraries at the University of California at Berkeley and Northwestern University. TRIS has expanded its coverage and is now adding records received from the Swedish National Road and Transportation Institute (VTI), ARRB in Australia, the Transportation Association of Canada, and the Virginia Transportation Research Council.

### **Access to TRIS**

TRIS is now available on TRB's website. This new, publically accessible version of TRIS provides free access to most of the bibliographic records in the TRIS database as well as links to full-text electronic documents or document suppliers. The new TRIS interface allows users to search, print, download in multiple formats, or e-mail the search results. Users can also use RSS to get updates on recent publications of interest. TRIS can be accessed at <http://tris.trb.org>.

### **TRISworld**

Sponsors of TRB are now able to access TRISworld, a searchable database that combines the TRIS database and English language records of the ITRD database. TRISworld will allow any employee of a TRB sponsoring agency access to more than 720,000 records of published transportation research from around the world.

TRISworld offers increased flexibility in searching. It includes both simple and advanced query screens and offers browsing of recent publications by mode. TRISworld allows users to print, download and directly e-mail search results. Many records include links to the full text of the document to direct ordering information. The TRISworld website also offers "Hot Topic" searches on subjects of current interest.

### **TRIS on Transport**

The published documents in TRIS are available on the TRANSPORT database produced by Wolters/Kluwer/Ovid. TRANSPORT contains bibliographic records from both TRIS and IRTD which is a cooperative worldwide database about transportation produced by the 25 member nations of the Road Transportation Research Program of the OECD. By purchasing a yearly licensing agreement with Wolters/Kluwer/Ovid, users can have unlimited access to search the TRANSPORT database. TRANSPORT is available through the Internet or by CD-ROM.

### **TRIS on DIALOG**



TRIS is available as File 63 on DIALOG Classic and on DIALOG Web. Access to TRIS on DIALOG requires a subscription to DIALOG services. DIALOG offers powerful and precise, command-based search capabilities on the web.

Contact:  
DIALOG Corporation  
2250 Perimeter Park Drive, Suite 300  
Morrisville, NC 27560  
Telephone 1-919-804-6400  
Toll Free: 1-800-334-2564  
Fax: 1-919-804-6410

### **Other Databases Available From TRB**

**Research in Progress Database** (<http://rip.trb.org>) – more than 9,800 records of current or recently completed transportation research projects from the U.S. Department of Transportation, state departments of transportation, TRB, and international organizations. University transportation Centers use the RiP database as a clearing house for university transportation research projects.

**TRB Publications Index** (<http://pubsindex.trb.org>) – more than 45,000 records of all TRB, Highway Research Board (HRB), Cooperative Research Board (CRB), Strategic Highway Research Program (SHRP), and Marine Board papers, articles and reports published from 1923 to date. The index offers simple and advanced search screens. There are links from each record to the TRB Bookstore or the out-of-print order form and to the full-text file on the web, when posted.

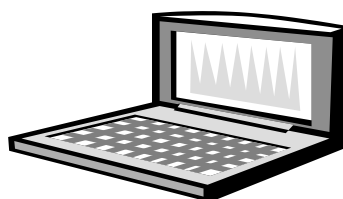
**Research Needs Statements (RNS) Database** (<http://rns.trb.org>) – the RNS database contains high-priority research needs statements developed by TRB’s Technical Activities Division committees.  
**Practice-Ready Papers (PRP) Database** (<http://prp.trb.org>) – the PRP database allows users to search for papers by key-words, title, author, index term, subject area, and date of publication. In addition to enhanced search capabilities, the new database includes links to the full text of papers of interest to PRB database users. Identified by TRB standing committees, practice-ready papers are those in which the research results presented may make an immediate or near-immediate contribution to the solution of a problem with minimum or no additional research. The database includes full papers published since 2006. Links to abstracts of practice-ready papers produced between 1998 and 2005 are still available under the original catalogue format on TRB’s website.

### **TRB Library**

The TRB Library is a small, specialized library that provides reference and information services to TRB sponsors and staff. The library contains a complete collection of TRB, HRB, CRP, SHRP, and Marine Board publications. The library has access to many commercial databases and electronic journals.

### **Other Online Publications**

Visit [www.trb.org](http://www.trb.org) and select “Publications by Series” to view other documents.



# RECENT TRANSPORTATION LEGISLATION

This information is provided expressly for educational purposes. The CA/NV TTAP hopes to inform and educate tribal communities about legislation that may impact California and Nevada tribal communities and their tribal transportation programs. The following legislation was current at the time of publication. Legislation may change or be repealed. For further information, please check the status of the legislation at the respective website sources noted below.

Due to the overwhelming number of pending transportation related bills in the California, Nevada, and Federal Legislatures we have created a downloadable file on the NIJC Website that lists each bill, the sponsor, the status, and a brief summary.

To view and download the file go to: [www.nijc.org/ttap\\_legislation.html](http://www.nijc.org/ttap_legislation.html)

## STATE LEGISLATION



## CALIFORNIA LEGISLATION

(For more information, go to <http://www.leginfo.ca.gov/bilinfo.html>)

**State Implementation of the American Recovery and Reinvestment Act of 2009**, Economic Recovery Porthole

<http://www.recovery.ca.gov/>

This quarter in the California Legislature there are:  
38 Bills Pending  
7 Bills Are Tribal Specific



## NEVADA LEGISLATION

**The Nevada Legislature meets every two years. The 76th Session is scheduled to begin on February 7, 2011.**

(For more information, go to <http://www.leg.state.nv.us/bills/bills.cfm>)

**State Implementation of the American Recovery and Reinvestment Act of 2009**

Nevada's Federal Stimulus Funds Website Go to: <http://www.leg.state.nv.us/75th2009/federalstimulus/>

This quarter in the Nevada Legislature there are:  
No Bills Pending



## FEDERAL LEGISLATION

(For more information go to: <http://Thomas.loc.gov>)

This quarter in the U.S. Congress there are:  
95 Bills Pending  
28 Bills Are Tribal Specific

## Judge Hopes for 'One Last Chance' for Congress to Support Cobell

(From Indianz.com, Friday, October 15, 2010)

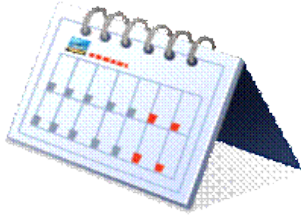
The federal judge handling the [Indian trust fund lawsuit](#) held a hearing this morning amid Congressional inaction on the \$3.4 billion settlement to the case. [Judge Thomas Hogan](#) inherited the 14-year-old lawsuit in June. He said it was clear that the federal government is liable for failing to account for billions of dollars of Indian trust funds. The plaintiffs and the Obama administration agreed to a \$3.4 billion settlement to end the case. But Congress has yet to finalize the deal.

The parties agreed to wait until January 7 to give lawmakers more time to consider the settlement. Hogan said the new deadline represents "perhaps one last chance" for approval of the deal.



# TRANSPORTATION EVENTS CALENDAR

Please visit the National Indian Justice Center web site to view more upcoming transportation events. Go to: [www.nijc.org/ttap\\_events.html](http://www.nijc.org/ttap_events.html)



## OCTOBER 2010

October 18-21  
**National Tribal GIS Conference**  
Albuquerque, NM

For more information go to:  
[http://www.tribalgis.com/index.php?option=com\\_content&view=article&id=66&Itemid=59](http://www.tribalgis.com/index.php?option=com_content&view=article&id=66&Itemid=59)

October 19  
**Nevada Infrastructure Concrete Conference**

Atlantis Hotel and Casino  
Reno, NV  
For more information go to:  
<http://www.concreteresources.net/>

October 20-22  
**National Rural Transportation Peer Learning Conference**

Hilton St. Louis at the Ball Park  
St. Louis, MO  
For more information go to:  
[http://www.ruraltransportation.org/pages/page.asp?page\\_id=93315](http://www.ruraltransportation.org/pages/page.asp?page_id=93315)

October 21  
**Nevada Infrastructure Concrete Conference**

Texas Station Hotel and Casino  
Las Vegas, NV  
For more information go to:  
<http://www.concreteresources.net/>

October 24-27  
**19th National Conference on Rural Public and Intercity Bus Transportation**

Sheraton Burlington Hotel & Convention Center  
Burlington, VT  
For more information go to:  
<http://guest.cvent.com/EVENTS/Info/Summary.aspx?e=2e349b0e-cdde-472b-9b65-0df78882ff47>

October 25-27  
**Pavement Evaluation 2010**  
Hotel Roanoke and Conference Center  
Roanoke, VA  
For more information go to:  
<http://www.cpe.vt.edu/pavementevaluation/location.html>

October 29-29  
**ICWA, ASFA & Title IV-E Probate Law & Will Drafting**  
Atlantis Casino Resort Spa  
Reno, NV

For more information go to:  
[www.nijc.org/ttap\\_events.html](http://www.nijc.org/ttap_events.html)

## NOVEMBER 2010

November 14-19  
**National Congress of American Indians (NCAI) 2010 67th Annual Conference**

Albuquerque Convention Center  
Albuquerque, NM  
For more information go to:  
<http://www.ncai.org/Home.495.0.html>

November 15-18  
**13th Annual National Tribal Transportation Conference**

Hard Rock Hotel & Casino  
(Isleta Hotel & Resort)  
Albuquerque, NM  
For more information go to:  
[http://ttap.colostate.edu/event.cfm?Action=Register&Event\\_ID=29](http://ttap.colostate.edu/event.cfm?Action=Register&Event_ID=29)

November 21-23  
**2010 National Tribal Transit Conference**

Radisson Ft. McDowell Resort & Casino  
Ft. McDowell, AZ  
For more information go to:  
<http://conference.navajotransit.com>

## DECEMBER 2010

December 1-3  
**TRB 7th Annual International Bridge Engineering Conference**  
Grand Hyatt

San Antonio, TX  
For more information go to:  
<http://guest.cvent.com/EVENTS/Info/Summary.aspx?e=4c1cac9a-c7af-4808-8557-cdda0b87362d>

December 8-10  
**Council For Tribal Employment Rights (CETR)**

**2010 Tribal Employment Law and Legal Update Conference**  
New York-New York Hotel and Casino

Las Vegas, NV  
For more information go to:  
<http://ctertero.org/>

December 8-10  
**REZ Violence Grant Writing & Administration**

Hyatt Regency Orange County  
Garden Grove, CA  
For more information go to:  
[www.nijc.org/ttap\\_events.html](http://www.nijc.org/ttap_events.html)

## JANUARY 2011

January 23-27  
**Transportation Research Board 90th Annual Meeting**

Marriott Wardman Park Hotel  
Washington, DC  
For more information go to:  
<http://www.trb.org/AnnualMeeting2011/Public/AnnualMeeting2011.aspx>

# TRIBAL TRANSPORTATION PARTNERS DIRECTORY

## FEDERAL



Federal Highway Administration (FHWA) is charged with the broad responsibility of ensuring that America's roads and highways continue to be the safest and most technologically up-to-date. Although State, local, and tribal governments own most of the Nation's highways, FHWA provides financial and technical support to them for constructing, improving, and preserving America's highway system.

### **Federal Highway Administration**

United States Department of Transportation  
1200 New Jersey Ave, SE  
Washington, DC 20590  
<http://www.fhwa.dot.gov/index.html>

The Central Federal Lands Highway Division (CFLHD) operates as part of the Federal Lands Highway Program, serving the needs of all central states. CFLHD actively administers the surveying, designing and constructing of forest highway system roads, parkways and park roads, Indian reservation roads, defense access roads, and other Federal lands roads. CFLHD also provides training, technology, deployment, engineering services, and products to other customers.

### **Central Federal Lands Highway Division**

Federal Highway Administration  
12300 West Dakota Ave.  
Lakewood, CO 80228  
(720) 963-3500  
<http://www.cflhd.gov/index.cfm>

The Office of Federal Lands Highway (FLH) provides program stewardship and transportation engineering services for planning, design, construction, and rehabilitation of the highways and bridges that provide access to and through federally owned lands.

The primary purpose of the FLHP is to provide financial resources and technical assistance for a coordinated

program of public roads that service the transportation needs of Federal and Indian lands.



### **Office of Federal Lands Highway**

Federal Highway Administration  
1200 New Jersey Avenue, SE  
Washington, DC 20590  
(202) 366-9494  
<http://www.fhwa.dot.gov/flh/index.htm>

Federal Transit Administration (FTA) is one of 10 modal administrations within the U.S. Department of Transportation. Headed by an Administrator who is appointed by the President of the United States, FTA administers federal funding to support a variety of locally planned, constructed, and operated public transportation systems throughout the U.S., including buses, subways, light rail, commuter rail, streetcars, monorail, passenger ferry boats, inclined railways, and people movers.

### **Federal Transit Administration**

1200 New Jersey Avenue, SE  
4<sup>th</sup> & 5<sup>th</sup> Floors East Building  
Washington, DC 20590  
<http://www.fta.dot.gov/>

### **FTA Region 9 Offices**

Federal Transit Administration  
201 Mission Street Suite 1650  
San Francisco, CA 94105  
(415) 744-3133  
[http://www.fta.dot.gov/regions/regional\\_offices\\_909.html](http://www.fta.dot.gov/regions/regional_offices_909.html)



### **Rural Transit Assistance Program (RTAP)**

The mission is to address the needs of rural, small urban and tribal transit operators across the nation.  
Union Station Business Center  
Ten G Street NE, Suite 710  
Washington, DC 20002  
Main: 202-248-5043  
Fax: 202-289-6539  
<http://www.nationalrtap.org/>



# TRIBAL TRANSPORTATION PARTNERS DIRECTORY

**National Local Technical Assistance Program (NLTAPA)** is a not-for-profit organization representing and serving the 58 LTAP and TTAP Member-Centers in the United States and Puerto Rico. All staff of Member-Centers are entitled to Association services and opportunities to Serve. [www.nltapa.org](http://www.nltapa.org)

## **Bureau Of Indian Affairs**

There are millions of acres of land held in trust by the United States for American Indians, Indian tribes, and Alaska Natives. There are 561 federal recognized tribal governments in the United States. Developing forestlands, leasing assets on these lands, directing agricultural programs, protecting water and land rights, developing and maintaining infrastructure and economic development are all part of the agency's responsibility. In addition, the Bureau of Indian Affairs provides education services to approximately 48,000 Indian students.

## **Bureau of Indian Affairs**

1849 C Street, N.W.  
Washington DC 20240  
(202) 208-7163  
[www.bia.gov](http://www.bia.gov)



## **Pacific Regional Office**

Bureau of Indian Affairs  
2800 Cottage Way  
Sacramento, CA 95825  
(916) 978-6000

## **Western Regional Office**

Bureau of Indian Affairs  
400 N. 5th Street, 2 AZ Center, 12th Floor  
Phoenix, AZ 85004  
(602) 379-6600

## **CALIFORNIA**



The Native American Liaison Branch was created in 1999 in the Department of Transportation to serve as a liaison between the Department, federal, state, local, and regional transportation agencies to establish and maintain government to government working relationships with Tribal Governments throughout California.

## **California Department of Transportation**

Division of Transportation Planning, Native American Liaison Branch  
1120 N Street  
Sacramento, CA 95814  
(916) 653-3175  
<http://www.dot.ca.gov/hq/tpp/offices/orip/na/index.html>

## **California Local Technical Assistance Program (LTAP)**

California Technology Transfer Program  
University of California Berkley  
RFS 1301 S 46<sup>th</sup> St., Bldg 155  
Richmond, CA 94804  
(510) 665-3608  
<http://www.techtransfer.berkeley.edu/>

## **NEVADA**



The Nevada Department of Transportation is responsible for the planning, construction, operation and maintenance of the 5,400 miles of highway and over 1,000 bridges which make up the state highway system.

## **Nevada Department of Transportation**

1263 South Stewart Street  
Carson City, NV 89712  
(775) 888-1433  
<http://www.nevadadot.com>

## **Nevada Local Technical Assistance Program (LTAP)**

Nevada Transportation Technology Transfer Center  
Nevada T2 Center/257  
University of Nevada  
Reno, NV 89557  
(775) 784-1433  
<http://www.t2.unr.edu/>

# TRIBAL TRANSPORTATION RESOURCES

## CALIFORNIA

**California Department of Transportation (Caltrans) Native American Liaison Branch**  
<http://www.dot.ca.gov/hq/tpp/offices/orip/na/index.html>

**California Department of Transportation: Division of Mass Transportation**  
<http://www.dot.ca.gov/hq/MassTrans/>

**California Department of Transportation Caltrans Economic Recovery Website**  
<http://www.dot.ca.gov/Recovery/>

**California Bay Delta Authority**  
<http://www.calwater.ca.gov/calfed/Tribal.html>

**California Environmental Protection Agency**  
<http://www.calepa.ca.gov/>

**California Tribal Transportation Coalition (CTTC)**  
Formed to ensure that California tribes are not left out of the next Federal Transportation Authorization bill.  
For more information go to:  
<http://www.californiatribes.org/>

## NEVADA

**Nevada Department of Transportation (NDOT) Local Governmental Liaison**  
<http://www.nevadadot.com/>

**Nevada Department of Transportation**  
NDOT Information Related to the American Recovery and Reinvestment Act  
<http://www.nevadadot.com/projects/Stimulus/default.asp>

**Nevada LTAP**  
To visit the website go to:  
<http://www.t2.unr.edu/>

**Southern Nevada Regional Transportation Commission**  
<http://www.rtcsonthernnevada.com/>

## FEDERAL

**US DOT Federal Highway Administration (FHWA)**  
<http://www.fhwa.dot.gov/>

**US DOT Federal Transit Administration (FTA)**  
<http://www.fta.dot.gov/>

**FTA Region 9 Offices**  
[http://www.fta.dot.gov/regions/regional\\_offices\\_909.html](http://www.fta.dot.gov/regions/regional_offices_909.html)

**Office of Federal Lands Highway**  
<http://www.fhwa.dot.gov/flh/index.htm>

**Central Federal Lands Highway Division**  
<http://www.cflhd.gov/>

**Bureau of Indian Affairs**  
<http://www.bia.gov/>

**US DOT/FHWA Federal Lands Highway Coordinated Technology Implementation Program**  
The Federal Lands Highway Coordinated Technology Implementation Program is a cooperative technology deployment and sharing program between the FHWA Federal Lands Highway office and the Federal land management agencies. It provides a forum for identifying, studying, documenting, and transferring new technology to the transportation community.  
For more information go to:  
<http://www.ctiponline.org/>

**National Transportation Library (NTL)**  
Follow link: VDOT One Search  
<http://ntl.bts.gov/exit/vdot.html>

**LTAPP/TTAP Interchange**  
An Audio Newsletter  
Aims to share news between centers and the LTAPP/TTAP community.  
To listen go to the news section at:  
<http://ltapt2.org>

## ENVIRONMENTAL

**US Environmental Protection Agency Region 9**  
<http://www.epa.gov/region09/tribal/index.html>

**US EPA American Indian Environmental Office**  
<http://www.epa.gov/indian/>

**US DOI National Park Service American Indian Liaison Office**  
<http://www.nps.gov/aiilo/>

**US DOT FHWA Roadside Vegetation Management**  
A technical resource for the care of the land and vegetation management.  
<http://www.fhwa.dot.gov/environment/vegmgmt/index.htm>

**US DOT FHWA Livability Initiative**  
This webpage is intended to provide information on the FHWA Livability Initiative as well as provide updates on the HUD/DOT/EPA Partnership for Sustainable Communities.  
To view this website go to:  
<http://www.fhwa.dot.gov/livability/index.cfm>

# TRIBAL TRANSPORTATION RESOURCES

## ORGANIZATIONS

### California Indian Basketweavers Association

<http://www.ciba.org/>

### California Indian Manpower Consortium, Inc.

<http://www.cimcinc.org/>

### California Indian Museum & Culture Center

<http://www.cimcc.org/>

### National Indian Justice Center

<http://www.nijc.org/>

### Center for Excellence in Rural Safety

Launched a new interactive Web tool called Safe Road Maps. It was developed by CERS researcher Tom Horan and his team at Claremont University. Visit the CERS home page for links to the releases and to Safe Road Maps: [www.ruralsafety.umn.edu](http://www.ruralsafety.umn.edu).

### Office of Indian Energy and Economic Development

Tribal Energy and Environmental Information Clearinghouse (TEEIC)

The site includes information about energy resource development and associated environmental impacts and mitigation measures; guidance for conducting site-specific environmental assessments and developing monitoring programs; information about applicable federal laws and regulations; and federal and tribal points of contact.

<http://teeic.anl.gov/>

### TribalGIS.com

Is a newly established technical forum for (and by) Tribal GIS Professionals across the country.

For more information go to:

[www.tribalgis.com](http://www.tribalgis.com)

### Community Transportation Association of America

Technical Assistance for Rural and Tribal Communities

For more information go to:

<http://web1.ctaa.org/webmodules/webarticles/anmviewer.asp?a=49&z=36>

### National Association of County Engineers

To visit the website go to:

<http://www.countyengineers.org/>

### Northern California APWA Chapter

To visit the web site go to:

<http://northernca.apwa.net/>

## ENVIRONMENT AND CLIMATE CHANGE

### General Climate Change Information

Arnold & Porter Climate Change Litigation Summary Chart

<http://www.climatecasechart.com/>

### US EPA

State and Local Government Climate Change Actions

<http://www.epa.gov/statelocalclimate/local/local-examples/action-plans.html>

### National Highway Traffic Safety Administration (NHTSA)

Final Environmental Impact Statement Corporate Average Fuel Economy Standards, Passenger cars and Light Trucks, Model Years 2011-2015.

To view the document go to

<http://www.regulations.gov/search/Regs/home.html#documentDetail?R=0900006480744272>

### Columbia River Crossing

<http://www.columbiarivercrossing.org/Default.aspx>

### Intercounty Connector

<http://www.iccproject.com/>

### FHWA—Travel Modeling

Using GIS in Planning and Environment Linkages (PEL) go to: <http://gis.fhwa.dot.gov>

### 2009 California Climate Adaptation Strategy Discussion Draft

A first-of-its-kind multi-sector strategy to help guide California's efforts in adapting to climate change impacts is now available for public comment.

For more information and to view the draft go to:

<http://www.climatechange.ca.gov/adaptation/index.html>

### Multicultural Environmental Leadership Development Initiative (MELDI)

University of Michigan

Staff conduct research on environmental workforce dynamics and provides resources to help enhance the leadership and career development opportunities available to students, activists and environmental professionals.

For more information go to:

<http://meldi.snre.umich.edu/>

### California Research Bureau

Environment, Growth Management, and Transportation Supplement

For more information and links go to:

<http://www.library.ca.gov/sitn/crb/docs/20090504.pdf>

### AASHTO—Center for Environmental Excellence

The new web page offers background and an overview of GIS technology and its importance for environmental applications in transportation.

# TRIBAL TRANSPORTATION RESOURCES

## RESOURCES (Con't)

For more information go to:

[http://environment.transportation.org/environmental\\_issues/gis/](http://environment.transportation.org/environmental_issues/gis/)

### **FHWA-Central Federal Lands Highway Division**

Promoting Geosynthetics Use on Federal Lands Highway Projects

To view the study go to:

<http://www.cflhd.gov/programs/techDevelopment/geotech/promogeoflhp/>

## SAFETY RESOURCES

### **Tribal Road Safety Audits: CASE STUDIES**

Sponsored by FHWA (Office of Safety and Office of Federal Lands)

Road Safety Audits (RSAs) are an effective tool for pro-actively improving the future safety performance of a road project during the planning and design sates, and for identifying safety issues in existing transportation facilities.

For additional information and resources on RSA's go to:

<http://safety.fhwa.dot.gov/rsa/>

### **Arizona Department of Transportation**

By Esther Corbett & Robert Mickelson at the Intertribal Council of Arizona, Inc.

592 Building Tribal Traffic Safety Capacity

[http://www.azdot.gov/TPD/atrc/Publications/project\\_reports/PDF/AZ592.pdf](http://www.azdot.gov/TPD/atrc/Publications/project_reports/PDF/AZ592.pdf)

And,

592 Tribal Traffic Safety Funding Guide

[http://www.azdot.gov/TPD/atrc/Publications/project\\_reports/PDF/AZ592s.pdf](http://www.azdot.gov/TPD/atrc/Publications/project_reports/PDF/AZ592s.pdf)

### **Insurance Institute Highway Loss**

Fatality Analysis Reporting System (FARS)

From the US DOT.

[http://www.iihs.org/research/fatality\\_facts\\_2008/default.html](http://www.iihs.org/research/fatality_facts_2008/default.html)

### **National Institute for Occupational Safety and Health (NIOSH)**

Construction Equipment Visibility

<http://www.cdc.gov/niosh/topics/highwayworkzones/BAD/default.html>.

### **Vista Training Programs**

Backhoe-Loader Instructor Kit

[http://www.vista-start-smart.com/html/backhoe-loader\\_instructor\\_kit.html](http://www.vista-start-smart.com/html/backhoe-loader_instructor_kit.html)

### **Interactive Highway Safety Design Model**

(IHSDM—2008 Release)

Analysis tools for evaluating safety and operational effects of geometric designs on two-lane rural roads. The software and associated documents are available for free downloading at:

<http://www.ihsdm.org>

### **Work Zone Law Enforcement**

Safe and Effective Use of Law Enforcement in Work Zones

For more information go to

[http://safety.fhwa.dot.gov/wz/law\\_enforce/](http://safety.fhwa.dot.gov/wz/law_enforce/)

### **U.S. Department of Transportation**

Rural Safety Initiative

Rural roads carry less than half of America's traffic yet they account for over half of the nation's vehicular deaths. It is time to put a national focus on a local problem. For more information on the Characteristics of Rural Crashes go to:

<http://www.dot.gov/affairs/ruralsafety/ruralsafetyinitiativeplan.htm>

### **FHWA Office of Safety**

FHWA safety officials, transportation officials and safety experts strongly recommend better use of nine tools that are keys to reducing roadway fatalities each year.

For more information go to:

<http://safety.fhwa.dot.gov/policy/memo071008/>

Safety Circuit Rider Programs-Best Practices Guide

This guide is intended to provide state DOT and LTAP/TTAP centers with an easy -to- use resources for implementing or enhancing a Safety Circuit Rider (SCR) program.

Available on-line at:

[http://safety.fhwa.dot.gov/local\\_rural/training/fhwasa09019/](http://safety.fhwa.dot.gov/local_rural/training/fhwasa09019/)

Basic Course Slides on Retro-reflectivity, go to:

[http://safety.fhwa.dot.gov/roadway\\_dept/night\\_visib/retrotoolkit/moreinfo/intro/](http://safety.fhwa.dot.gov/roadway_dept/night_visib/retrotoolkit/moreinfo/intro/)

Nighttime Visibility Policy/Guidance

[http://safety.fhwa.dot.gov/roadway\\_dept/night\\_visib/policy\\_guide/](http://safety.fhwa.dot.gov/roadway_dept/night_visib/policy_guide/)

Sign Visibility: Training, Technical Guidance, & Research go to:

[http://safety.fhwa.dot.gov/roadway\\_dept/night\\_visib/sign\\_visib/](http://safety.fhwa.dot.gov/roadway_dept/night_visib/sign_visib/)

Maintenance of Drainage Features for Safety

A guide for local street and highway maintenance personnel

To view the guide go to:

[http://safety.fhwa.dot.gov/local\\_rural/training/fhwasa09024/](http://safety.fhwa.dot.gov/local_rural/training/fhwasa09024/)



# TRIBAL TRANSPORTATION RESOURCES

## Intersection Safety Resources

To visit the web page go to:

<http://safety.fhwa.dot.gov/intersection/resources/>

## Intersection Safety Presentations

30 and 60 minute presentations on the topic of safety at intersections. The presentation is intended to relay safety issues at intersections (including the typical types of crashes) along with some techniques to address these issues.

To view the presentations go to:

<http://safety.fhwa.dot.gov/intersection/resources/intsafpst092609/>

## Work Zone Mobility and Safety Program

### Work Zone Training Compendium

The U.S. Federal Highway Administration has released a compendium of information on available work zone training and guides.

To view the training program go to:

[http://www.ops.fhwa.dot.gov/wz/outreach/wz\\_training/index.htm](http://www.ops.fhwa.dot.gov/wz/outreach/wz_training/index.htm)

## Roundabouts

Roundabouts are circular intersections. Roundabouts reduce traffic conflicts (for example, left turns) that are frequent causes of crashes at traditional intersections. Unlike a traffic circle or a rotary, a roundabout's incoming traffic yields to the circulating traffic.

For more information visit the website at:

<http://safety.fhwa.dot.gov/intersection/roundabouts/>

## Roadway Worker Safety Website

The U.S. Federal Highway Administration's Office of Operations has launched a new page on its Work Zone Safety website designed to be a central source of data and links to information and technical resources on roadway worker safety.

To visit the website go to:

<http://www.ops.fhwa.dot.gov/wz/workersafety/index.htm>

## Cornell Local Roads Program

### Work Zone Safety and Flagger Tutorial

The purpose of this tutorial is to provide the fundamentals of work zone safety and to explain the concepts of flagging in a work zone. It is not intended to replace comprehensive instruction of the topic.

To view the tutorial go to:

<http://www.clrp.cornell.edu/flaggingtutorial/flagtutorial.htm>

## The National Work Zone Safety Information Clearinghouse

The National Work Zone Safety Information Clearinghouse is dedicated to providing the transportation construction industry and the general public with comprehensive information to improve motorist, worker and

pedestrian safety in roadway work zones.

Now a new international section in six languages.

For more information go to:

<http://www.workzonesafety.org/>

## AAA Foundation

### 2009 Traffic Safety Culture Index

Investigates the public's traffic safety knowledge, attitudes, behaviors, and experiences.

To view the index go to:

<http://www.aaafoundation.org/pdf/2009TSCIndexFS.pdf>

## MinimumReflectivity.org

Guidance for Improving Roadway Safety:

Understanding Minimum Reflectivity Standards go to:

<http://minimumreflectivity.org/index.asp>

## National Highway Traffic Safety Association (NHTSA)

State traffic safety information for the year 2008

To access the data for each state go to:

<http://www-nrd.nhtsa.dot.gov/departments/nrd-30/ncsa/STSI/USA%20WEB%20REPORT.HTM>

## Federal Transit Administration

### Transit Bus Safety

Online resources and tools, designed to help rural and small urban transit bus providers develop and strengthen their programs.

To access the website go to:

<http://bussafety.fta.dot.gov/splash.php>

## Utah DOT and the Utah Highway Safety Office

### Zero Fatalities

To visit the web site go to:

<http://ut.zerofatalities.com/>

## The National Work Zone Safety Information Clearinghouse

Traffic Management & Work Zone Safety Power Workshop at International Bridge Conference

The workshop was packed with timely information related to night work, federal regulations, worker protection and the latest strategies in temporary traffic control.

To view the workshop go to:

[http://www.workzonesafety.org/news\\_events/wz\\_conferences/power\\_workshop2010\\_PA](http://www.workzonesafety.org/news_events/wz_conferences/power_workshop2010_PA)

## Crash Modifications Clearinghouse (CFM)

The CMF Clearinghouse is funded by the U.S. DOT-FHWA and maintained by the University of North Carolina Highway Safety Research Center. A CMF is an estimate of the change in crashes expected after implementation of a countermeasure.

To visit the website go to:

<http://www.cmfclearinghouse.org/>

# TRIBAL TRANSPORTATION RESOURCES

## SAFETY RESOURCES (Con't)

### Impact Teen Driver

Impact Teen Drivers was organized for the purpose of providing awareness and education to teenagers, their parents, and community members about all facets of responsible driving, with the goal of reducing the number of injuries and deaths suffered by teen drivers as a result of distracted driving and poor decision making.

To view the website go to:

<http://www.impactteendrivers.org/>

### North Dakota Local Technical Assistance Program (NDLTAP)

#### Roadway Sign Inventory & Management System (Version 7.1)

This is the North Dakota Local Technical Assistance Program's (NDLTAP) Sign Inventory and Management System. It is in full compliance with FHWA's recommendations for a highway sign inventory and management system.

#### Minor Structure, Culvert & Cattle Guard Inventory and Management System

One module can be used to inventory and manage small bridge-type structures and box culverts, another for culvert/pipe and a third for cattle guards. It provides for the inventory of a wide variety of structure types and geometric data.

**Rural Roadway Inventory & Management System (Version 3.0)** – This program, sometimes referred to as a Pavement Management Program, includes three modules - one for asphalt pavements, another for concrete pavements and a third for gravel roadways. In addition to roadway geometric data and pavement distress assessments, it includes an added feature that calculated estimated per mile values based on criteria provided by each user .

For more information go to:

<http://www.ndltap.org/library/software.php>

## CONSULTATION

### TRB Committee on Native American Transportation Issues

TRB has provided links to examples of federal, state and non-governmental organization online resources related to tribal consultation policies and guidelines.

To view the resources go to:

<http://www.nijc.org/ttap.html>

## MISCELLANEOUS TRANSPORTATION RESOURCES

### U.S. DOT

ARRA Transportation Spending Map

American Recovery and Reinvestment and Act is supporting 9,722 projects with \$30.1 billion of investment.

To view the map go to:

<http://rithqnwws019.rita.dot.gov/dot/index.html>

### FHWA-National Highway Specifications

Clearinghouse and electronic library. Current specifications, construction manuals and drawings.

For more information go to:

[www.specs.fhwa.dot.gov](http://www.specs.fhwa.dot.gov)

### The FHWA has established a web site with information about the Economic Recovery

For more information go to:

<http://www.fhwa.dot.gov/economicrecovery/index.htm>

### FHWA Implementation Guidance for the ARRA Act.

To view these procedures go to:

[http://www.nijc.org/ttap\\_funding.html](http://www.nijc.org/ttap_funding.html)

### FHWA Resource Center

#### Planning Team

The Planning Technical Service Team at the Federal Highway Administration (FHWA) Resource Center helps support the planning process through the provision of training, technical assistance, technology deployment, and partnerships.

For more information go to:

<http://www.fhwa.dot.gov/resourcecenter/teams/planning/index.cfm>

### Rural Technical Resource Assistance Center (R-TRAC)

National PTAP is proud to announce the official launch of our new improved online library, R-TRAC, for rural transit training resources.

All R-TRAC resources are free.

To visit the center go to:

<http://www.rtrac.org/search.aspx>

### Victoria Transportation Policy Institute

Transportation Cost and Benefit Analysis

A guidebook for quantifying the full costs and benefits of different transportation modes. A comprehensive study of transportation benefit and costing research, and a guidebook for applying this information in planning and policy analysis.

To view the guide book go to:

<http://www.vtppi.org/tca/>

### FHWA Federal-Aid Program Administration

The guide is intended to provide basic information for FHWA and State personnel involved in the administration of the Federal-Aid Highway Program. It is not intended to be an eligibility guide, but contains basic descriptions and historical information on active and inactive programs. This guide should be of interest to FHWA, State highway agencies, local governments, and private

# TRIBAL TRANSPORTATION RESOURCES

sector personnel interested in a basic understanding of Federal-Aid programs, projects, or other program characteristics. In addition to basic information, sources of additional information are provided.

For more information go to:

<http://www.fhwa.dot.gov/federalaid/>

## Partnership for Mobility Management

The Partnership for Mobility Management is a joint effort of technical assistance partners that work with local, state and regional leaders and organizations to realize the possibilities of improving transportation options for all Americans wherever they live and to assist those especially in need of alternative transportation options.

For more information visit the website at:

<http://web1.ctaa.org/webmodules/webarticles/anmviewer.asp?a=1790&z=95>

## TRANSPORTATION PROGRAMS AND DEVELOPMENT



### FHWA Resource Center

The Mission to: advance transportation technologies and solutions through training, technical assistance, technology deployment, and partnerships.

For more information go to:

<http://www.fhwa.dot.gov/resourcecenter/>

The FHWA has developed an extensive list of resources that focus specifically on the latest culvert technology. To view this list go to: [http://www.nijc.org/ttap\\_resources.html](http://www.nijc.org/ttap_resources.html)

### FHWA-NHI-380095

Geometric Design: Applying Flexibility and Risk Management

This course provides participants with knowledge of the functional basis of critical design criteria to enable informed decisions when applying engineering judgment and flexibility.

Length: 2 days CEU 1.2 Units Fee: \$350

For more information and to register go to:

<https://www.nhi.fhwa.dot.gov/home.aspx>

### FHWA Wildlife Vehicle Collision Reduction Study Training Course

A national study was conducted on the causes and impacts of wildlife vehicle collisions (WVCs). This study also provides recommendations and solutions for reducing these collisions.

To view the course go to:

[www.environment.fhwa.dot.gov/WVCtraining/index.asp](http://www.environment.fhwa.dot.gov/WVCtraining/index.asp)

### National Highway Institute (NHI) - 2010

The NIH in partnership with the Transportation Curriculum Development Council has developed a number of FREE web-based trainings that can be completed in one, two, or three hours. Whether you are working in the field, have limited time for training, or just want to expand your skill set on a specific topic these web-based courses provide an ideal way to enhance your knowledge on key areas.

To view the list of available courses go to:

<https://www.nhi.fhwa.dot.gov/home.aspx>

### TCCC HMA Paving Field Inspection

NHI Course 131129 Web-based Training

This course will explain the important tasks involved in HMA paving and describe the proper procedures for executing them.

This training is recommended for TCCC Levels I, II, and III.

4.5 Hours FREE

To register for the course go to:

<http://www.nhi.fhwa.dot.gov/Home.aspx>

### TCCC Plan Reading Series

NHI Course 134108 Web-based Training

The ability to read plans is essential for anyone involved in highway and/or bridge construction. This training contains modules covering both basic plan reading instructions, as well as in-depth instruction for those seeking more information on and/or a review of highway plan reading.

8.0 Hours CEU: 0 Fee: FREE

For more information go to:

[http://fhwapap07.fhwa.dot.gov/training/course\\_detail.aspx?num=FHWA-NHI-134108&cat=t&num=134](http://fhwapap07.fhwa.dot.gov/training/course_detail.aspx?num=FHWA-NHI-134108&cat=t&num=134)

### National Transportation Training Resource (NTTR)

The National Transportation Training Resource (NTTR) is an online database of information about learning resources for the public-sector transportation workforce. The NTTR is a tool for training managers and frontline transportation professionals.

To visit the website go to:

<http://www.nttr.dot.gov/>

### CA/NV TTAP and National Highway Institute

The CA/NV TTAP can work with the National Highway Institute to bring classroom and/or webinar training to your community. You may also request training specifically from NHI (see the message below). Check out the NHI catalog using the link below and let us know the Title and NHI coding number for any training that you are interested

# TRIBAL TRANSPORTATION RESOURCES

## PROGRAMS AND DEVELOPMENT (Con't)

in and we will work to get it scheduled in your area.

<https://www.nhi.fhwa.dot.gov/home.aspx>

### Office of Professional and Corporate Development (OPCD)

For more information go to:

<http://www.fhwa.dot.gov/opd/>

### LTAP/TTAP Academy

The goal of the Academy is to provide both new and current LTAP/TTAP staff with a broad overview of the national program and opportunities for continued professional development. For more information go to:

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

### Southwestern Indian Polytechnic Institute

Geospatial Information Technology Program  
Summer 2010 Short Course Schedule

All classes are open to tribal members or tribal employees, or those whom a tribe requests to be trained  
There is no charge for the class unless you are taking the class for credit.

For more information go to:

<http://www.sipi.edu/>

## PUBLICATIONS



### U.S. DOT-FHWA

FHWA-HRT-09-031

Safety Evaluation of Lane and Shoulder Width Combinations on Rural, Two-Lane, Undivided Roads

To view the publication go to:

<http://www.tfhr.gov/safety/pubs/09031/09031.pdf>

FHWA-SA-09-020

Low Cost Safety Enhancements for Stop-controlled and Signalized Intersections

To view the publication go to:

<http://safety.fhwa.dot.gov/intersection/resources/fhwasa09020/>

FHWA-SA-09-023

The Safety Edge

Roadway departures account for 53 percent of fatal crashes. Pavement edges may have been a contributing

factor in as many as 18 percent of rural run-off-road crashes on paved roadways with unpaved shoulders. This type of crash was four times more likely to include a fatality than rural crashes overall on similar roads.

For more information and the publication go to:

[http://safety.fhwa.dot.gov/roadway\\_dept/pavement/safedge/](http://safety.fhwa.dot.gov/roadway_dept/pavement/safedge/)

MUTCD 2009 Edition

The most current version of the MUTCD is the 2009 edition, dated December 2009. States must adopt the 2009 National MUTCD as their legal State standard for traffic control devices within two years. The Federal Register notice, which provides detailed discussion of the FHWA's decisions on major changes from the 2003 edition, can be viewed at:

<http://edocket.access.gpo.gov/2009/pdf/E9-28322.pdf>

(PDF, 716KB). To view the 2009 MUTCD and other related information, go to: [http://mutcd.fhwa.dot.gov/kno\\_2009.htm](http://mutcd.fhwa.dot.gov/kno_2009.htm)

FHWA –Office of Safety

Local Roads Safety Resource CD

Provides information and tools to plan and implement roadway safety improvements. Organized by topic area in one place, the Local Roads Safety Resource CD provides guidance, tools, and other resources from government agencies and national associations on local roadway safety. To view the information and order the CD go to:

[http://safety.fhwa.dot.gov/local\\_rural/training/resourcecd/fhwasa10003/fhwasa10003.pdf](http://safety.fhwa.dot.gov/local_rural/training/resourcecd/fhwasa10003/fhwasa10003.pdf)

FHWA-SA-10-021

Implementing the High Risk Rural Roads Program

The document highlights common challenges to the High Risk Rural Roads Program (HRRRP); lessons learned and noteworthy practices shared by states. It is intended for use by states and relevant stakeholders to launch their HRRRP; identify next steps to a program already moving forward or implement noteworthy practices to improve an established program.

To view the report go to:

[http://safety.fhwa.dot.gov/local\\_rural/training/fhwasa10021/](http://safety.fhwa.dot.gov/local_rural/training/fhwasa10021/)

FHWA-SA-09-025

Maintenance of Signs and Sign Supports: A Guide for Local Roads Maintenance Personnel.

To view the guide go to:

[http://safety.fhwa.dot.gov/local\\_rural/training/fhwasa09025/](http://safety.fhwa.dot.gov/local_rural/training/fhwasa09025/)

FHWA Office of Safety

Road Safety Audits (RSA) Toolkit CD

FHWA has created a user-friendly CD that houses all of the assorted materials created under the RSA Program. Users simply click on the different section headings to access the materials or to navigate to the main screen.

To order the CD go to:



# TRIBAL TRANSPORTATION RESOURCES

<http://safety.fhwa.dot.gov/rsa/resources/toolkitcd/>

FHWA Office of Safety  
Comprehensive Intersection Resource Library CD  
(FHWA-SA-09-027)  
contains intersection safety-related resources that represent a broad cross section of publications, educational materials, and other media published by FHWA and other transportation safety partners. Material searches can be made by keyword, title, author or topic.

To view the CD go to:

<http://safety.fhwa.dot.gov/intersection/resources/fhwas09027/>

Crash Impact of Smooth Lane Narrowing with Rumble Strips at Two-Lane Rural Stop-Controlled Intersections  
FHWA-HRT-10-047

The U.S. Federal Highway Administration has released a TechBrief that examines a treatment to reduce approach speeds at unsignalized intersections on two-lane rural roads by narrowing lanes using rumble strips in the median and on the right-lane edge.

To view the report go to:

<http://www.fhwa.dot.gov/publications/research/safety/10047/10047.pdf>

Safety Effectiveness of the HAWK Pedestrian Crossing Treatment  
FHWA-HRT-10-042

The U.S. Federal Highway Administration has released a report that explores the safety effectiveness of the High intensity Activated crossWalk (HAWK) pedestrian beacon through the use of a before-after empirical Bayes evaluation approach.

To view the report go to:

<http://www.fhwa.dot.gov/publications/research/safety/10042/10042.pdf>

Highway Safety Improvement Program: Assessment Toolbox

The U.S. Federal Highway Administration has released a toolbox that compiles commonly used evaluation techniques that are available to support a state's review of its highway safety improvement program in order to help identify noteworthy safety practices and opportunities for improvement.

To view this toolbox go to:

<http://safety.fhwa.dot.gov/hsip/resources/fhwas10017/fhwas10017.pdf>

## Highway Safety Information System (HSIS)

Factors Contributing to Pedestrian and Bicycle Crashes on Rural Highways

The goals of this study were to examine the differences between pedestrian and bicycle crashes in urban and rural settings in North Carolina and to identify problem areas

(specific crash types and crash locations) on rural highways that are of high priority for safety treatment and treatment development.

For more information go to:

<http://www.fhwa.dot.gov/publications/research/safety/10052/10052.pdf>

## TRANSPORTATION RESEARCH BOARD—TRB

Transportation Research Board Annual Meeting 2010 Paper #10-2750

Simulator Evaluation of Low-Cost Safety Improvements on Rural, Two-Lane, Undivided Roads: Nighttime Delineation for Curves and Traffic Calming for Small Towns.

To order a copy of the paper go to:

<http://pubsindex.trb.org/view.aspx?id=910715>

Infrastructure Maintenance and Preservation  
TRB's Transportation Research Record No. 2150. includes 15 papers that explore performance-based road maintenance contracts, equipment replacement at state departments of transportation, optimal timing and preventive maintenance of pavements, pavement preservation, and thin surface treatments for bituminous pavements.

To view the report go to:

<http://trb.metapress.com/content/u554k83h5958/?p=9b745f147a4248deb18d3c702dee7fe9&pi=1>

Environment 2010

TRB's Transportation Research Record No. 2158 includes 18 papers that explore environmental analysis in transportation, cumulative effects analysis of long-range transportation plans, diesel vehicle emission factors for short road segments, transportation and land use policy effects on air quality, bus technology meta-analysis, modal emissions and traffic simulation models, portable emission measurement systems, air quality simulation, and emissions of nonroad diesel construction equipment.

To view the report go to:

[http://www.trb.org/Main/Blurbs/Environment\\_2010\\_163994.aspx](http://www.trb.org/Main/Blurbs/Environment_2010_163994.aspx)

## TRANSIT COOPERATIVE RESEARCH PROGRAM

Current Practices in Greenhouse Gas Emissions Savings from Transit

TCRP Synthesis 84

This synthesis describes the role of transit agencies in reducing greenhouse gas emissions ( GHG) and catalogs the current practice of a sample of transit agencies.

To order a copy of the report go to:

<http://books.trbbookstore.org/ts084.aspx>

# TRIBAL TRANSPORTATION RESOURCES

## PUBLICATIONS (Con't)

A Guide for Planning and Operating Flexible Public Transportation Services

TCRP Report 140

Describes the types of flexible transportation service strategies appropriate for small, medium, and large urban and rural transit agencies.

To view the report go to:

[http://onlinepubs.trb.org/onlinepubs/tcrp/tcrp\\_rpt\\_140.pdf](http://onlinepubs.trb.org/onlinepubs/tcrp/tcrp_rpt_140.pdf)

Guidebook for Recruiting, Developing, and Retaining Transit managers for Fixed-Route Bus and Paratransit Systems

TCRP Report 139

The Guidebook is accompanied by CRP-CD-77, which provides Model Job Descriptions for 32 broad job titles that indicate the structure and content for job descriptions for manager jobs.

To view the report go to:

[http://onlinepubs.trb.org/onlinepubs/tcrp/tcrp\\_rpt\\_139.pdf](http://onlinepubs.trb.org/onlinepubs/tcrp/tcrp_rpt_139.pdf)

## NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM (NCHRP)

PLANSafe: Forecasting the Safety Impacts of Socio-Demographic Changes and Safety Countermeasures  
CRP-CD-78 provides safety forecasting software and accompanying guidance that is designed to help independently forecast the safety impacts of changes in socio-demographics and safety investments, both engineering and behavioral.

For more information and to download the software go to:

[http://www.trb.org/Main/Blurbs/PLAN-SAFE\\_Forecasting\\_the\\_Safety\\_Impacts\\_of\\_SocioDe\\_163790.aspx](http://www.trb.org/Main/Blurbs/PLAN-SAFE_Forecasting_the_Safety_Impacts_of_SocioDe_163790.aspx)

Median Intersection Design for Rural High-Speed Divided Highways

NCHRP Report 650

Median Intersection Design for Rural High-Speed Divided Highways explores common safety issues at median intersections on rural divided highways, and examines innovative geometric and operational treatments for addressing those issues. The report includes ten case studies that illustrate how various treatments have been applied in the field.

To View the report go to:

[http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp\\_rpt\\_650.pdf](http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_rpt_650.pdf)

A Guidebook for Corridor-Based Statewide Transportation Planning

NCHRP Report 661

A Guidebook for Corridor-Based Statewide Transportation Planning explores a template for corridor planning designed

to help states to better understand the implications of transportation decisions on mobility, communities, economic development, and environmental stewardship.

To view the report go to:

[http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp\\_rpt\\_661.pdf](http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_rpt_661.pdf)

Guidebook on Risk Analysis Tools and Management Practices to Control Transportation Project Costs

NCHRP Report 658

Guidebook on Risk Analysis Tools and Management Practices to Control Transportation Project Costs explores specific, practical, and risk-related management practices and analysis tools designed to help manage and control transportation project costs.

To view the report go to:

[http://www.trb.org/Main/Blurbs/Guidebook\\_on\\_Risk\\_Analysis\\_Tools\\_and\\_Management\\_Pr\\_163722.aspx](http://www.trb.org/Main/Blurbs/Guidebook_on_Risk_Analysis_Tools_and_Management_Pr_163722.aspx)

Volume I: Evaluation of Existing Roadside Safety Hardware Using Updated Criteria—Technical Report

NCHRP web only report 157

The objective of this project was to evaluate the safety performance of widely used nonproprietary roadside safety features by using *MASH*.

To view the report go to:

[http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp\\_w157.pdf](http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_w157.pdf)

Measuring Transportation Network Performance

NCHRP Report 664

TRB's National Cooperative Highway Research Program (NCHRP) Report 664: Measuring Transportation Network Performance explores ways to monitor transportation network performance by developing new or integrating existing performance measures from different transportation modes and multiple jurisdictions.

To view the report go to:

[http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp\\_rpt\\_664.pdf](http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_rpt_664.pdf)

Accelerating Transportation Project and Program delivery: Conception to Completion

NCHRP Report No. 662

TRB's National Cooperative Highway Research Program (NCHRP) Report 662: Accelerating Transportation Project and Program Delivery: Conception to Completion explores the experiences of eight state departments of transportation that made improvements in their project delivery and examines the lessons to be learned from their experiences.

To view the report go to:

[http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp\\_rpt\\_662.pdf](http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_rpt_662.pdf)

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National Cooperative Freight Research Program (NCFRP)  
Report No. 5  
North American Marine Highways  
Explores the potential for moving intermodal containers on chassis, non-containerized trailers, or rail cars on marine highways in North America .

To view the report go to:  
[http://onlinepubs.trb.org/onlinepubs/ncfrp/ncfrp\\_rpt\\_005.pdf](http://onlinepubs.trb.org/onlinepubs/ncfrp/ncfrp_rpt_005.pdf)

## NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION

Traffic Safety Facts  
Reducing Nonuse of Restraints By Children Ages 5 to 7.  
The study objective was to suggest solutions to the problem of unrestrained children riding in motor vehicles.

To view the publication go to:  
[http://www.nhtsa.gov/staticfiles/traffic\\_tech/tt382.pdf](http://www.nhtsa.gov/staticfiles/traffic_tech/tt382.pdf)

Traffic Safety Facts  
Seat Belt Use in 2009-Use Rates in the States and Territories  
To View the fact sheet go to:

<http://www-nrd.nhtsa.dot.gov/Pubs/811324.pdf>

Children Injured in Motor Vehicle Traffic Crashes  
The National Highway Traffic Safety Administration has released a report that explores the rate of incapacitating injuries as well as the commonly injured body regions among children under 8 years old involved in motor-vehicle traffic crashes.

To view the report go to:  
<http://www-nrd.nhtsa.dot.gov/Pubs/811325.PDF>

Booster Seat Effectiveness based on CDS and State Data  
The National Highway Traffic Safety Administration has released a report that explores the safety consequences of early graduation of children from child restraint seats to booster seats and of early graduation from booster seats to lap and shoulder belts.

To view this report go to:  
<http://www-nrd.nhtsa.dot.gov/Pubs/811338.pdf>

Traffic Safety Facts: Children 2009  
The National Highway Traffic Safety Administration has released a fact sheet that explores traffic safety related facts related to children. The information is based on 2009 data .

To view this fact sheet go to:  
<http://www-nrd.nhtsa.dot.gov/Pubs/811387.pdf>

## CALIFORNIA

**California State Library**  
California Research Bureau  
Recent public policy studies. Transportation Section  
To view the studies go to:  
<http://www.library.ca.gov/sitn/crb/>

**California DOT—CalTrans**  
**Transportation Planning Grants Guide**  
Community-Based Transportation Planning  
Environmental Justice  
Partnership Planning  
Transit Planning (FTA 5304)  
Statewide or Urban Transit Planning Studies  
Transit Planning Student Internships  
To view the guide go to:  
[http://www.dot.ca.gov/hq/tpp/grant\\_files/1011/FY10-11\\_Transportation\\_Grants\\_Guide.pdf](http://www.dot.ca.gov/hq/tpp/grant_files/1011/FY10-11_Transportation_Grants_Guide.pdf)

**Mineta Transportation Institute**  
A Case Study of Enterprise Historic Resources Information Management Large Transportation Agencies The Mineta Transportation Institute at San Jose State University has released a report that examines how the California Department of Transportation (Caltrans) district office information systems for historic resources may be used to create an enterprise information management model.

To view the report go to:  
<http://www.transweb.sjsu.edu/MTIportal/research/publications/documents/2502%20-%20Ingbar%20Publication%20%28with%20Covers%29.pdf>

## Memorandum of Understanding Between the Karuk Tribe and CalTrans

The purpose of this MOU is to maintain open, ongoing lines of communication between the Karuk Tribe of California and the CalTrans to resolve issues and concerns relating to rights of way, encroachments, highway improvement projects and maintenance, utilities, and general responsibilities within the TRIBE'S Ancestral Territory (Indian Lands).

To view the MOU go to:  
<http://www.dot.ca.gov/dist2/pdf/karukmou.pdf>

**California MUTCD 2010**  
CalTrans is working on getting the CA MUTCD 2010 printed and available for purchase.  
For more information and to view the publication go to:  
[http://www.dot.ca.gov/hq/traffops/signtech/mutcdsupp/ca\\_mutcd2010.htm](http://www.dot.ca.gov/hq/traffops/signtech/mutcdsupp/ca_mutcd2010.htm)

**Federal Statewide Transportation Improvement Plan (FSTIP)**  
California's Draft 2011 Federal Statewide Transportation Improvement Program (FSTIP) is available on the Caltrans website for public review. The FSTIP/FTIPs contain all transportation projects in the State of California that are proposed for Federal funding under Titles 23 and 49 of the US Code as well as all projects considered regionally significant, regardless of funding sources. If you have any comments on the FSTIP, they can be submitted to:

# TRIBAL TRANSPORTATION RESOURCES

## PUBLICATIONS (Con't)

Lima Huy by e-mail ([Lima.Huy@dot.ca.gov](mailto:Lima.Huy@dot.ca.gov)) or by mail or phone. The comment period ends on October 29, 2010.

To view the plan go to:

<http://www.dot.ca.gov/hq/transprog/fedpgm.htm>

## OTHER PUBLICATIONS

### Advocates for Highway and Auto Safety

The 2010 Roadmap to State Highway Safety Laws Changing Dangerous Driving Behavior—Now—Especially Among Distracted Teens.

To view the report go to:

<http://www.saferoads.org/files/file/Roadmap%20Report%20COMPLETE%20011310.pdf>

### Environmental Protection Agency (EPA)

Revisions to the General Conformity Regulations  
The EPA is revising its regulations relating to the Clean Air Act (CAA) requirement that Federal actions conform to the appropriate State, tribal or Federal implementation plan (SIP, TIP or FIP) for attaining clean air General Conformity).

To view the final rule go to:

<http://edocket.access.gpo.gov/2010/pdf/2010-7047.pdf>

### Safe Routes to School National Partnership

Getting Students Active Through Safe Routes to School  
The intent is to equip more education policymakers and professionals with the knowledge and tools necessary to implement and sustain successful Safe Routes to School programs and supportive policies.

For more information go to:

<http://www.saferoutespartnership.org/media/file/EducatorsGuide.pdf>

### Safe Routes to School National Partnership

Implementing Safe Routes to School for Low-income Schools and Communities

The intent is to inspire nonprofit organizations, schools and community residents to come together to implement and sustain successful, culturally sensitive and inclusive Safe Routes to School initiatives.

For more information go to:

<http://www.saferoutespartnership.org/media/file/LowIncomeGuide.pdf>

### The National Work Zone Safety Information Clearinghouse

Traffic Management & Work Zone Safety Power Workshop at International Bridge Conference

The workshop was packed with timely information related to night work, federal regulations, worker protection and the latest strategies in temporary traffic control.

To view the workshop go to:

[http://www.workzonesafety.org/news\\_events/wz\\_conferences/power\\_workshop2010\\_PA](http://www.workzonesafety.org/news_events/wz_conferences/power_workshop2010_PA)

### The Economic and Injury Burden of Motor Vehicle Crashes in Arizona for 2005

Reported by the Arizona CODES Project.

To view the report go to:

[http://www.azdhs.gov/phs/owch/pdf/codes\\_ann\\_rpt\\_05.pdf](http://www.azdhs.gov/phs/owch/pdf/codes_ann_rpt_05.pdf)

### Field Trials of High-Modulus High-Binder-Content Base Layer Hot-Mix Asphalt Mixtures

The Virginia Transportation Research Council, a partnership of the Virginia Department of Transportation and the University of Virginia, has released a report that explores field experience related to the use of high-modulus high-binder-content base layer hot-mix asphalt mixtures.

To view the report go to:

[http://www.virginiadot.org/vtrc/main/online\\_reports/pdf/11-r2.pdf](http://www.virginiadot.org/vtrc/main/online_reports/pdf/11-r2.pdf)

### Public Policies for Pedestrian and Bicyclist Safety and Mobility: An Implementation Project of the Pedestrian and Bicyclist Safety and Mobility International Scan

To view the report go to:

<http://drusilla.hsrrc.unc.edu/cms/downloads/PBSPolicyReview.pdf>

### Safety Insights and Indicators for North Dakota's Teen Drivers

The Upper Great Plains Transportation Institute at North Dakota State University has released a report that explores training, behaviors, and perceptions that potentially impact teen driver safety.

To view the report go to:

<http://www.ugpti.org/pubs/pdf/DP230.pdf>

### Connecting Rural and Urban America

The American Association of State Highway and Transportation Officials (AASHTO) has released a report that explores the value of improved connectivity outside metropolitan areas. The report is the third in a three-part series that explores what is changing in America and the impact of those changes on the demand for new transportation capacity.

To view the report go to:

[http://expandingcapacity.transportation.org/connecting\\_communities/images/Connecting\\_Communities\\_0810.pdf](http://expandingcapacity.transportation.org/connecting_communities/images/Connecting_Communities_0810.pdf)

### Executive Office of the President -Office of Management and Budget

The Presidential Memorandum Titled "Combating Non-compliance with Recovery Act Reporting Requirements,"



# TRIBAL TRANSPORTATION RESOURCES

issued April 6, 2010, called for more aggressive action by Federal agencies in addressing recipient noncompliance. No rate of non-compliance is acceptable and each case of non-compliance will be addressed. As required by OMB M-10-17, issued May 4, 2010, agencies must take additional steps beyond existing policies and procedures for more aggressive action in addressing recipient non-compliance.

To view the guidance on the American Recovery and Reinvestment Act go to:

<http://www.nijc.org/pdfs/ttap/updateARRA.pdf>

## More Projects and Paychecks: Transportation's Summer of Recovery

The American Association of State Highway and Transportation Officials (AASHTO) has released a report that explores the impact of investments made in transportation as a result of the America Recovery and Reinvestment Act.

To view this report go to:

<http://recovery.transportation.org/ARRA-2.pdf>

## TRANSPORTATION NEWSLETTERS

### Institute Of Transportation Studies

University of California Berkeley  
NewsBITS

For more information go to:

<http://www.its.berkeley.edu/>

### Global Transport Knowledge Partnership (gTKP)

International Newsletter

For more information go to:

<http://www.gtkp.com/default.asp>

### NACE News—Monthly Newsletter

National Association of County Engineers

To View the newsletter go to:

<http://www.naco.org/NACETemplate.cfm?Section=NewsI&template=/ContentManagement/ContentDisplay.cfm&ContentID=31476>

### Community Transportation Association of America

Tappy Grams is an electronic newsletter that describes new and timely publications on transportation-related information.

To view the newsletter go to:

<http://web1.ctaa.org/webmodules/webarticles/anmviewer.asp?a=1729&z=76>

### Nevada Department of Transportation

Nevada Research and Technology Review  
Quarterly Newsletter

To view the newsletter go to:

[http://www.nevadadot.com/reports\\_pubs/Research\\_Pubs/ResearchNewsletter.asp](http://www.nevadadot.com/reports_pubs/Research_Pubs/ResearchNewsletter.asp)

### Public Roads Magazine

Reading *Public Roads* is the easiest way to keep up-to-date on developments in federal highway policies, programs, and research and technology.

To view the link go to:

<http://www.tfhr.gov/pubrds/index.htm>

### FHWA

Safety Compass Quarterly Newsletter  
Highway Safety Solutions for Saving Lives

To view current and past issues go to:

<http://safety.fhwa.dot.gov/newsletter/>

### FHWA

Focus Magazine

Accelerating Infrastructure Innovations

To view current and past issues go to:

<http://www.fhwa.dot.gov/publications/focus/10jan/index.cfm>

### Office of Safety

Road Safety Audits (RSA) Newsletter

An outreach resource to provide you with the most current information on RSAs. Our regular features will include an overview of State RSA programs, current resources to assist you in performing RSAs, and a compilation of RSA-related news stories.

To view the newsletter go to:

<http://safety.fhwa.dot.gov/rsa/newsletter/>

### Resource Center

Centered on Service Newsletter

Success stories from the RC Technical Service Teams to bring you lessons learned, state-of-the-art technologies, and improved processes.

To view the newsletters go to:

<http://www.fhwa.dot.gov/resourcecenter/success/cos.cfm>

### Community Transportation Association of America

FAST MAIL Monthly Newsletter. The latest news and updates from the Community Transportation industry .

To view the newsletter go to:

<http://web1.ctaa.org/webmodules/webarticles/anmviewer.asp?a=1009&z=37>

### U.S. Environmental Protection Agency

District 9, San Francisco, CA

Tribal Programs Newsletter

To view the tribal web site and newsletter go to:

<http://www.epa.gov/region09/tribal/index.html>



# TRIBAL TRANSPORTATION RESOURCES

## PUBLICATIONS (Con't)

### FHWA

Pedestrian Forum Newsletter  
Safe Pedestrians and a Walkable America  
VOL. 50, Spring 2010

To view the newsletter go to:  
[http://safety.fhwa.dot.gov/ped\\_bike/pedforum/2010/spring2010.cfm](http://safety.fhwa.dot.gov/ped_bike/pedforum/2010/spring2010.cfm)

### California Department of Transportation (CalTrans)

California Transportation Journal  
To view current and past issues go to:  
<http://www.dot.ca.gov/ctjournal/2009-3/>

## VIDEOS AND DVDS



### Environmental Justice in Transportation for California Tribes Video Workbook

Produced by the National Indian Justice Center.  
Available at: 707-579-5507 or,  
<http://nijc.org/publications.html>

### Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users.

The Forest Service, Bureau of Land Management and Federal Highway Administration have jointly developed training videos to show how the various programs authorized within SAFETEA-LU can benefit public lands and their neighboring communities.

The training video can be found at: <http://www.fs.fed.us/eng/safetea-lu>

### FHWA LTAP/TTAP Clearinghouse

Operators Pre-Start Motor Grading Inspection  
Promotes motor grader safety and productivity for county and city road agencies.

-AND-

Roadway Safety + Training Program Version 9 Is a standard method of providing worker awareness training for

road workers. The RSP+ download includes interactive Macromedia modules, Trainee Booklets, Toolbox Pamphlets, printable screen guides, and an Instructor Manual. Most are provided in 3 languages.

Download program from [www.workzonesafety.org](http://www.workzonesafety.org)  
To obtain copies of the videos contact Sarah Crane at 202-289-4434, or e-mail [scrane@artba.org](mailto:scrane@artba.org)

### FHWA Office of Safety Design

Two informational videos on DVD.  
FHWA-SA-08-007. Median Barriers—A Solution to Cross-Median crashes.  
FHWA-SA-07-024. The previously released video, Rumble Strips—A Sound Investment.  
Order from FHWA Report Center – publication number  
[Report.center@fhwa.dot.gov](mailto:Report.center@fhwa.dot.gov).

### FHWA Office of Safety

2009 Road Safety Audit (RSA) Video  
FHWA has created a new video on Road Safety Audits (RSAs). The new RSA video focuses on the benefits of using a multidisciplinary approach to improve safety. For more information or to view the video go to:  
<http://safety.fhwa.dot.gov/rsa/video2009/>

### A Road Construction Industry Consortium Training Program Roadway Safety-Roadway Safety

Awareness Program provides an overview of common hazards in highway and road construction and simple prevention measures.

To download Version 9.0 go to: [http://www.workzonesafety.org/training/courses\\_programs/rsa\\_program/overview](http://www.workzonesafety.org/training/courses_programs/rsa_program/overview)

### FHWA Office of Safety

Modern Roundabouts: A Safer Choice (FHWA-SA-10-023)

The video explains the many benefits of roundabout intersections and is intended primarily for decision makers in state and local transportation agencies to overcome the common barriers and reasons for not considering roundabouts as intersection alternatives. It is presented in a non-technical manner and can be used at public meetings for proposed roundabout projects.

For more information go to:  
<http://safety.fhwa.dot.gov/intersection/roundabouts/>

### Zero Fatalities Utah DOT

Reggie P. Shaw Video

His vehicle drifted across the highway centerline and sideswiped an oncoming vehicle on Sept. 22, 2006. The officers investigated and found out that Shaw was text messaging during the time of his accident.

# TRIBAL TRANSPORTATION RESOURCES

To view the video got to:

[http://ut.zerofatalities.com/?utm\\_medium=email&utm\\_source=Transportation%20Research%20Board&utm\\_campaign=TRB+E-Newsletter+-+08-25-2009&utm\\_content=Web&utm\\_term](http://ut.zerofatalities.com/?utm_medium=email&utm_source=Transportation%20Research%20Board&utm_campaign=TRB+E-Newsletter+-+08-25-2009&utm_content=Web&utm_term)

## **Tribal School Zone Safety: Video and Toolkit**

To obtain a free DVD, Please contact:

Chimai Ngo, 202-366-1231

## **Roadway Safety Foundation**

New Run-Off-Road/Rumble Strip Brochure and Recognize-React-Recover DVD

To obtain free copies of the brochure and DVD go to:

<http://www.roadwaysafety.org/run-off-road-dvd-2/>

### **Ordering Information**

Printed copies of our in-house publications are available on a first-come, first served basis. Priority is given to Tribal Transportation Personnel. PDF versions of most of our publications are available on our website: [http://www.nijc.org/ttap\\_resources.html](http://www.nijc.org/ttap_resources.html)

All our videos, publications and CD-ROMs in our lending library are loaned for a four-week period. Two titles may be borrowed at a time.

To order or borrow materials, please e-mail or fax a request to: [barry@nijc.org](mailto:barry@nijc.org) or [nijc@aol.com](mailto:nijc@aol.com), fax no. 707-579-9019

To view past issues of publications, videos and development programs, please visit our website library: at: [http://nijc.org/datasheets/ttap/TTAP\\_ResourceList.asp](http://nijc.org/datasheets/ttap/TTAP_ResourceList.asp)



## **ANNOUNCEMENTS**



### **Tribal Safety Summit in California**

At the request of CalTrans, the CA/NV TTAP has requested FHWA to conduct a Tribal Safety Summit in California in 2011. If you are interested in participating, join the TTAP e-mail list at:

[www.nijc.org/ttap.html](http://www.nijc.org/ttap.html).



### **The Transportation Research Board's (TRB) Task Force on Roundabouts**

(ANB75T) would like to take this opportunity to invite you to submit an abstract, which could possibly be presented at the 2011 International Conference on Roundabouts held in Indiana. The International Roundabout Conference will provide a forum for the exchange of technical, policy, planning, and administrative information on all aspects of roundabouts.

Abstracts are due by November 1, 2010.

For more information go to:

<http://onlinepubs.trb.org/onlinepubs/conferences/2011/Roundabout/Call.pdf>

# TRIBAL TRANSPORTATION FUNDING RESOURCES

## FUNDING



## CALIFORNIA

**NOTE: many of the listed transportation programs are dependant on the extension of SAFETEA-LU or the passage of the Re-authorization Transit Bill.**

### **California Department of Transportation: Transportation Planning Funding Grants**

The Transportation Planning Grants are intended to promote strong and healthy communities, economic growth, and protection of our environment. These planning grants support closer placement of jobs and housing, efficient movement of goods, community involvement, in planning, safe and convenient pedestrian and bicycle mobility and access, smart or strategic land use, and commute alternatives. The final results of these grants should lead to the adoption, initiation, and programming of transportation improvements that improve mobility, access and economic vitality.

For more information on these grants go to: <http://www.dot.ca.gov/hq/tpp/grants.html>

### **California Department of Transportation: The State-Legislated Safe Routes to School Program**

California Safe Routes to School program is contained in the Streets & Highway Code Section 2330-2334.

For more information on this program go to: <http://www.dot.ca.gov/hq/LocalPrograms/saferoutes/sr2s.htm>

### **California Department of Transportation (CALTRANS)**

The California Department of Transportation (Caltrans), in consultation with the Governor's Office of Small Business Advocate, have entered into a

Memorandum of Understanding (MOU) with the U.S. Small Business Administration (SBA), to offer a technical assistance surety bond guarantee program to promote increased small business participation in Caltrans, State highway and transit projects.

This initiative provides a viable means to advance the unimpeded participation of all willing, ready, and able construction contractors and subcontractors, professional architectural and engineering firms, suppliers and truckers, without regard to race, ethnicity, gender, or physical disability to participate in the State's Contracting Program.

For more information contact a Small Business Development Center in your area, or call Linda Madden 919-324-8384; e-mail [Linda\\_Madden@dot.ca.gov](mailto:Linda_Madden@dot.ca.gov)

### **California Integrated Waste Management Board (CIMWB)**

#### **New Fall 2010- Rubberized Asphalt Concrete Grant Program**

CIMWB offers a variety of grant funding opportunities to assist public and private entities in safely and effectively managing California's waste stream. Additional grant information can be found at: [www.ciwmb.ca.gov/grants](http://www.ciwmb.ca.gov/grants)

## NEVADA

### **Nevada Department of Transportation: Safe Routes to School Program**

For more information regarding the Nevada Safe Routes to School, please visit: <http://www.walknevada.com/>

### **Nevada Department of Transportation: 2010-11 Landscape Aesthetics Community Match Program Procedures Manual**

The State Transportation Board approves the Landscape and Aesthetics Community Match Program to Help communities add landscape and aesthetic treatments to State Highway (retrofitting) and improve the appearance of Nevada's highways. The program provides for a variety of projects, such as landscaping, scenic beautification, transportation art, and community gateways. The program provides funding for fifty percent of a landscape and aesthetic project, up to a maximum, of \$500,000 from the applicant and \$500,000 from the program.

# TRIBAL TRANSPORTATION FUNDING RESOURCES

A Transportation Improvement Project can increase roadway capacity (additional lanes); increase the safety of the roadway (right/left turn lanes, passing lanes, pull outs); enhance an intersection (signals, stop signs, lighting); upgrade the roadway (realignment, reconstruction, overlay, drainage); or any other project that improves the roadway. Projects such as welcome and gateway community signs are eligible projects. Repair and reconstruction of bridges are also included. Primary reasons for a project can be safety issues, congestion relief, bridge repair/replacement, new development (both residential and commercial) or maintenance of the roadway.

Applications can be for projects located on or near federal/state highway or non-federal/state highway that has been given a functional clarification. Federal and State Agencies, Tribal governments, county, city and local governments, local public agencies or private non profits can apply.

**Dates:** Completed applications are due the first Monday in January (Tuesday if Monday is a holiday). Applications received after January will be held until the next Evaluation cycle in January the following year.

For information contact: Sandi Stanio, Program Development. (775) 888-7122, or e-mail: [sstanio@dot.state.nv.us](mailto:sstanio@dot.state.nv.us)

To view the program go to:

[http://www.nevadadot.com/business/forms/pdfs/Plan PROJECT APP.pdf](http://www.nevadadot.com/business/forms/pdfs/Plan_PROJECT_APP.pdf)

## FEDERAL

### DEPARTMENT OF TRANSPORTATION

#### Federal Safe Routes to School Program (SRTS)

The Federal Safe Routes to School program (SRTS) was authorized by SAFETEA-LU (the Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users).

This federal program has different eligibility and local match requirements than the state-legislated program. For more information on this program go to: <http://www.dot.ca.gov/hq/LocalPrograms/saferoutes/srts.htm>

#### Federal Transit Administration

##### Public Transportation On Indian Reservations (FTA 5311 )

The goals of the Tribal Transit Program: 1) to enhance the access of public transportation on and around Indian reservations in nonurbanized areas to health care, shopping, education, employment, public services, and recreation; 2) to assist in the maintenance, development, improvement, and use of public transportation systems in rural and small urban areas; 3) to encourage and facilitate the most efficient use of all Federal funds used to provide passenger transportation in nonurbanized areas through the coordination of programs and services; and 5) to provide for the participation of private transportation providers in nonurbanized transportation to the maximum extent feasible.

For more information go to: [http://www.fta.dot.gov/funding/grants/grants\\_financing\\_3553.html](http://www.fta.dot.gov/funding/grants/grants_financing_3553.html)

#### National Park Service: Preserve America Grants

Preserve America grants support planning, development, and implementation of innovative activities and programs in heritage tourism such as surveying and documenting historic resources, interpreting historic sites, planning, marketing, and training. Successful applicants will emphasize creative projects that promote and preserve the community's cultural resources. Successful projects will involve public-private partnerships and serve as models to communities nationwide for heritage tourism, education, and economic development.

Your project must fit one of the following categories:

- Research and Documentation
- Education and Interpretation
- Planning
- Marketing
- Training

Designated Preserve America Communities and Neighborhoods, State Historic Preservation Offices, Tribal Historic Preservation Offices and Certified Local Governments that have applied for Preserve America Community designation are all eligible to apply for Preserve America grants. Individuals, nonprofits, and for-profit businesses are

# TRIBAL TRANSPORTATION FUNDING RESOURCES

## FUNDING (Con't)

not eligible for funding.

For more information go to:

<http://www.nps.gov/history/hps/hpg/preserveamerica/faqs.htm#5>

## FHWA

### Surface Transportation Environment and Planning Cooperative Research Program

The STEP is the primary source of funds for FHWA to conduct research and develop tools and technologies to advance the state of the practice regarding national surface transportation and environmental decision-making. In FY 2010, FHWA expects to seek partnerships that can leverage limited research funding in STEP with other stakeholders and partners in order to increase the total amount of resources available to meet the nation's surface transportation research needs.

In FY 2010, STEP is likely to address national research priorities that include:

- (1) Conducting research to develop climate change mitigation and adaptation strategies;
- (2) Improving state of the practice regarding livability and the impact of transportation on the environment;
- (3) Developing and/or supporting accurate models and tools for evaluating transportation measures and developing indicators of economic, social, and environmental performance of transportation systems;
- (4) Developing and deploying research to address congestion reduction efforts;
- (5) Developing transportation safety planning strategies for surface transportation systems and improvements;
- (6) Improving planning, operation, and management of surface transportation systems and rights of way;
- (7) Enhancing knowledge of strategies to improve transportation in rural areas and small communities;
- (8) Strengthening and advancing State/local and tribal capabilities regarding surface transportation and the environment;
- (9) Improving transportation decision-making and coordination across borders;
- (10) Conducting research to promote environmental streamlining/stewardship;
- (11) Disseminating research results and advances in state of the practice through peer exchanges, workshops, conferences, etc;
- (12) Meeting additional priorities as determined by the Secretary; and
- (13) Refining the scope and research emphases through active outreach and in consultation with stakeholders.

The number of stakeholders with an interest in environment and planning research is enormous and diverse, including these three tiers:

*Tier 1 - Federal Agencies and Tribes:* There are at least a score of Federal agencies with strong interest in transportation planning and environmental programs including: the Departments of Commerce, Defense, Homeland Security, Agriculture, Energy, Interior (DOI) and Housing and Urban Development, the Environmental Protection Agency (EPA), and the Centers for Disease Control and Prevention (CDC).

Within each of these agencies, there are many discrete organizations/programs with an interest - e.g., National Park Service, U.S. Fish and Wildlife Service and Bureau of Land Management within the DOI. Within the US Department of Transportation (USDOT), FHWA partners with the Federal Transit Administration (FTA) on virtually all planning and environmental work, including research. The FHWA also coordinates with the Federal Railroad, Aviation, Research and Innovative Technology, National Highway Traffic Safety and Maritime Administrations, and with the Office of the Secretary of Transportation on Global Climate Change as well as other issues. There are over 500 federally recognized Native American Tribes, which have a major interest in research affecting their planning and environmental needs.

For more information go to:

<http://www.fhwa.dot.gov/HEP/STEP/index.htm>

### U.S. Department of Agriculture

#### USDA Rural Development Grants

The mission is to increase economic opportunity and improve the quality of life for rural residents. Rural Development fosters growth in homeownership, finances business development, and supports the creation of critical community and technology infrastructure. Further information on rural pro-



# TRIBAL TRANSPORTATION FUNDING RESOURCES

-gram is available at a local USDA Rural Development web site:

<http://www.rurdev.usda.gov/rbs/busp/bprogs.htm>

## **FEMA: Hazard Mitigation Grant Program**

Hazard mitigation is any sustained action taken to reduce or eliminate long-term risk to people and property from natural hazards and their effects. This definition distinguishes actions that have a long-term impact from those that are more closely associated with immediate preparedness, response, and recovery activities. Hazard mitigation is the only phase of emergency management specifically dedicated to breaking the cycle of damage, reconstruction, and repeated damage. As such, States, Territories, Indian Tribal governments, and communities are encouraged to take advantage of funding provided by HMA programs in both the pre- and post-disaster timeframes. Together, these programs provide significant opportunities to reduce or eliminate potential losses to State, Tribal, and local assets through hazard mitigation planning and project grant funding. Each HMA program was authorized by separate legislative action, and as such, each program differs slightly in scope and intent.

The Hazard Mitigation Grant Program (HMGP) may provide funds to States, Territories, Indian Tribal governments, local governments, and eligible private non-profits following a Presidential major disaster declaration. The Pre-Disaster Mitigation (PDM), Flood Mitigation Assistance (FMA), Repetitive Flood Claims (RFC), and Severe Repetitive Loss Pilot (SRL) programs may provide funds annually to States, Territories, Indian Tribal governments, and local governments. While the statutory origins of the programs differ, all share the common goal of reducing the risk of loss of life and property due to natural hazards.

For more information go to:

<http://www.fema.gov/government/grant/hmgp/index.shtm>

## **The Kodak American Green Ways Program**

[Eastman Kodak Company](#), The Conservation Fund and the [National Geographic Society](#) team up each year to present the Kodak American Greenways Awards Program. One major element of the Program involves “seed” grant awards to organizations that are growing our nation's network of greenways, blueways, trails and natural areas.

The Program operated by The Conservation Fund invites land trusts, local governments, and other organizations to submit proposals for small greenway project grants. Funded projects typically advance one or more of the following Program goals:

- Catalyzing new greenway projects
- Assisting grassroots greenway organizations
- Leveraging additional money for conservation and greenway development
- Promoting use and enjoyment of greenways

For more information go to:

[http://www.conservationfund.org/kodak\\_awards](http://www.conservationfund.org/kodak_awards)





## NATIONAL INDIAN JUSTICE CENTER

5250 Aero Drive  
Santa Rosa, CA 95403  
Phone: (707) 579-5507  
Fax: (707) 579-9019  
Email: [nijc@aol.com](mailto:nijc@aol.com)  
Http://[www.nijc.org](http://www.nijc.org)

## NIJC SERVICES

The National Indian Justice Center (NIJC) provides a range of services, including regional and local training sessions under contracts with tribes, court evaluation and court planning services, and other resource services.

*(Continued from page 6)*

### **What To Do If You Think You've Found a Meth Lab**

- Don't investigate, because prodding the material could further endanger you or others in the area
- Immediately contact local police or Sheriff's department to notify them of your suspicions
- Call 911 if you think you have been exposed to toxic chemicals

### **What To Do If You Or A Colleague Is Exposed (After Calling 911)**

#### **Inhalation Exposure:**

Move to fresh air. Give artificial respiration if colleague is not breathing. If breathing difficulty occurs, give oxygen and seek medical attention.

#### **Contact with Clothing or Skin:**

Remove contaminated clothing. Flush exposed skin and hair with water for at least 15 minutes. Thoroughly wash with soap and water when possible. Meth can be absorbed through the skin. Seek medical attention if needed.

#### **Contact with Eyes:**

Flush exposed eyes with water or saline solution for at least 15 minutes. Remove contact lenses if possible. Seek immediate medical attention.

### **Videos to help you learn more about how to protect yourself**

- Meth Labs: California's Hidden Danger—California Department of Justice
- Multijurisdictional Counterdrug Task Force Training
- Colorado Department of Transportation Adopt a Highway Safety Video

**These videos are available in streaming format at [www.techtransfer.berkeley.edu/videos](http://www.techtransfer.berkeley.edu/videos)**

This article is adapted with permission from an article originally published by the Montana LTAP Center, LTAP MATTERS, Fall 2005; Source: [www.methfreemt.org](http://www.methfreemt.org).

It includes additional information from the California Violence Prevention Center, California Bureau of Narcotic Enforcement, California Department of Justice, California Office of Environmental Health Hazard Assessment, California Department of Toxic Substances Control, Colorado Department of Transportation, and Minnesota Department of Health.

## ***CALIFORNIA/NEVADA TTAP***

***For more details, please contact CA/NV TTAP Coordinators***

***(707) 579-5507***

***Barry Litchfield, x 224***

***Email: [barry@nijc.org](mailto:barry@nijc.org)***

***Margaret Colglazier, x 225***

***Email: [tcoord@nijc.org](mailto:tcoord@nijc.org)***