ARIZONA DEPARTMENT OF TRANSPORTATION

REPORT NUMBER: FHWA-AZ95-441

ARIZONA TRANSPORTATION TECHNOLOGY TRANSFER RESOURCE CATALOG

Final Report

Prepared by:
Peter Lima
Lima & Associates
2990 East Northern Avenue, Suite D106
Phoenix, AZ 85028

July 1995

Prepared for:
Arizona Department of Transportation
206 South 17th Avenue
Phoenix, Arizona 85007
in cooperation with
U.S. Department of Transportation
Federal Highway Administration
The contents of this report reflect the views of the authors who are responsible for
the facts and the accuracy of the data presented herein. The contents do not
necessarily reflect the official views or policies of the Arizona Department of
Transportation or the Federal Highway Administration. This report does not
constitute a standard, specification, or regulation. Trade or manufacturers' names
which may appear herein are cited only because they are considered essential to
the objectives of the report. The U.S. Government and the State of Arizona do
not endorse products or manufacturers.
16. Abstract

This project entailed compilation of information on where technology information could be obtained. The sources of information included workshops and training courses, videos and CD-ROMS, colleges, libraries, transportation organizations, newsletters, information clearinghouses, and Internet sources of information.

The catalog is intended to be updated by the Technology Transfer Center at Arizona State University on an annual basis.
# METRIC (SI*) CONVERSION FACTORS

## APPROPRIATE CONVERSIONS TO SI UNITS

### LENGTH

<table>
<thead>
<tr>
<th>Symbol</th>
<th>When You Know</th>
<th>Multiply By</th>
<th>To Find</th>
</tr>
</thead>
<tbody>
<tr>
<td>ln</td>
<td>inches</td>
<td>2.54</td>
<td>cm</td>
</tr>
<tr>
<td>ft</td>
<td>feet</td>
<td>0.3048</td>
<td>m</td>
</tr>
<tr>
<td>yd</td>
<td>yards</td>
<td>0.914</td>
<td>m</td>
</tr>
<tr>
<td>mi</td>
<td>miles</td>
<td>1.61</td>
<td>km</td>
</tr>
</tbody>
</table>

### AREA

<table>
<thead>
<tr>
<th>Symbol</th>
<th>When You Know</th>
<th>Multiply By</th>
<th>To Find</th>
</tr>
</thead>
<tbody>
<tr>
<td>ln²</td>
<td>square inches</td>
<td>645.2</td>
<td>cm²</td>
</tr>
<tr>
<td>ft²</td>
<td>square feet</td>
<td>0.0929</td>
<td>m²</td>
</tr>
<tr>
<td>yd²</td>
<td>square yards</td>
<td>0.836</td>
<td>m²</td>
</tr>
<tr>
<td>mi²</td>
<td>square miles</td>
<td>2.59</td>
<td>km²</td>
</tr>
<tr>
<td>ac</td>
<td>acres</td>
<td>0.395</td>
<td>ha</td>
</tr>
</tbody>
</table>

### MASS (weight)

<table>
<thead>
<tr>
<th>Symbol</th>
<th>When You Know</th>
<th>Multiply By</th>
<th>To Find</th>
</tr>
</thead>
<tbody>
<tr>
<td>oz</td>
<td>ounces</td>
<td>28.35</td>
<td>g</td>
</tr>
<tr>
<td>lb</td>
<td>pounds</td>
<td>0.454</td>
<td>kg</td>
</tr>
<tr>
<td>T</td>
<td>short tons (2000 lb)</td>
<td>0.907</td>
<td>Mg</td>
</tr>
</tbody>
</table>

### VOLUME

<table>
<thead>
<tr>
<th>Symbol</th>
<th>When You Know</th>
<th>Multiply By</th>
<th>To Find</th>
</tr>
</thead>
<tbody>
<tr>
<td>fl oz</td>
<td>fluid ounces</td>
<td>29.57</td>
<td>mL</td>
</tr>
<tr>
<td>gal</td>
<td>gallons</td>
<td>3.785</td>
<td>L</td>
</tr>
<tr>
<td>ft³</td>
<td>cubic feet</td>
<td>0.0328</td>
<td>m³</td>
</tr>
<tr>
<td>yd³</td>
<td>cubic yards</td>
<td>0.0765</td>
<td>m³</td>
</tr>
</tbody>
</table>

### TEMPERATURE (exact)

<table>
<thead>
<tr>
<th>°F</th>
<th>Fahrenheit temperature</th>
<th>5/9 (after subtracting 32)</th>
<th>Celsius temperature</th>
<th>°C</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Si is the symbol for the International System of Measurements

### APPROPRIATE CONVERSIONS TO SI UNITS

### LENGTH

<table>
<thead>
<tr>
<th>Symbol</th>
<th>When You Know</th>
<th>Multiply By</th>
<th>To Find</th>
</tr>
</thead>
<tbody>
<tr>
<td>mm</td>
<td>millimetres</td>
<td>0.039</td>
<td>inches</td>
</tr>
<tr>
<td>m</td>
<td>metres</td>
<td>3.28</td>
<td>feet</td>
</tr>
<tr>
<td>m</td>
<td>metres</td>
<td>1.09</td>
<td>yards</td>
</tr>
<tr>
<td>km</td>
<td>kilometres</td>
<td>0.621</td>
<td>miles</td>
</tr>
</tbody>
</table>

### AREA

<table>
<thead>
<tr>
<th>Symbol</th>
<th>When You Know</th>
<th>Multiply By</th>
<th>To Find</th>
</tr>
</thead>
<tbody>
<tr>
<td>mm²</td>
<td>millimetres squared</td>
<td>0.0016</td>
<td>square inches</td>
</tr>
<tr>
<td>m²</td>
<td>metres squared</td>
<td>10.764</td>
<td>square feet</td>
</tr>
<tr>
<td>km²</td>
<td>kilometres squared</td>
<td>0.39</td>
<td>square miles</td>
</tr>
<tr>
<td>ha</td>
<td>hectares (10 000 m²)</td>
<td>2.53</td>
<td>acres</td>
</tr>
</tbody>
</table>

### MASS (weight)

<table>
<thead>
<tr>
<th>Symbol</th>
<th>When You Know</th>
<th>Multiply By</th>
<th>To Find</th>
</tr>
</thead>
<tbody>
<tr>
<td>g</td>
<td>grams</td>
<td>0.0353</td>
<td>ounces</td>
</tr>
<tr>
<td>kg</td>
<td>kilograms</td>
<td>2.205</td>
<td>pounds</td>
</tr>
<tr>
<td>Mg</td>
<td>megagrams (1 000 kg)</td>
<td>1.103</td>
<td>short tons</td>
</tr>
</tbody>
</table>

### VOLUME

<table>
<thead>
<tr>
<th>Symbol</th>
<th>When You Know</th>
<th>Multiply By</th>
<th>To Find</th>
</tr>
</thead>
<tbody>
<tr>
<td>mL</td>
<td>millilitres</td>
<td>0.034</td>
<td>fl oz</td>
</tr>
<tr>
<td>L</td>
<td>litres</td>
<td>0.264</td>
<td>gal</td>
</tr>
<tr>
<td>m³</td>
<td>metres cubed</td>
<td>35.315</td>
<td>ft³</td>
</tr>
<tr>
<td>m³</td>
<td>metres cubed</td>
<td>1.308</td>
<td>yd³</td>
</tr>
</tbody>
</table>

### TEMPERATURE (exact)

<table>
<thead>
<tr>
<th>°C</th>
<th>Celsius temperature</th>
<th>9/5 (then add 32)</th>
<th>Fahrenheit temperature</th>
<th>°F</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* These factors conform to the requirements of FHWA Order 5190.1A.
# TABLE OF CONTENTS

I  
**INTRODUCTION**  

II  
**WORKSHOPS/COURSES**  
Road Surface and Substructure  II-1  
Structures  II-5  
Construction Vehicle Maintenance and Use  II-6  
Safety  II-7  
Traffic Control  II-9  
Computer Methods  II-12  
Liability and Other Legal Concerns  II-13  
Miscellaneous  II-14  

III  
**VIDEOCASSETTES AND CD-ROMS**  III-1  
Road Surface and Substructure  III-1  
Drainage and Roadside Management  III-13  
Structures: Bridges, etc.  III-15  
Road Maintenance  III-18  
Construction Vehicle Maintenance and Use  III-23  
Transit and Other Modes  III-31  
Safety (of Transportation Workers and Travelers)  III-33  
Traffic Control  III-38  
Environmental Quality and Weather  III-42  
Computer Methods  III-47  
Management Systems  III-48  
Transportation Administration and Planning  III-51  
Liability and Other Legal Concerns  III-52  
Miscellaneous  III-55  

IV  
**OTHER SOURCES**  IV-1  
Arizona Colleges  IV-1  
Arizona Data Centers  IV-5  
Arizona Transportation Libraries  IV-11  
Arizona Transportation Organizations  IV-12  
National Transportation Organizations  IV-18  
Other Resource Catalogs  IV-25  
Transportation Information Clearinghouses  IV-27  
Transportation Mailing Lists (Internet)  IV-29  
Transportation Newsletters  IV-32  
Transportation Related Bulletin Boards  IV-34  
Transportation Related WWW Sites (Internet)  IV-37
I. INTRODUCTION

Arizona Technology Transfer Resource Catalog is a publication of the Arizona Local Technology Transfer (T²) Program, hereafter referred to as the T² Program. The intent is to make the catalog a "living document" which will be continuously updated and which can be accessed directly through computer media. The catalog is a handy reference to the resources readily available through the T² Program and other sources. This chapter first provides background information about the program, particularly about its status as a repository of technology transfer resources, just one of several functions the program serves. The remainder of the chapter describes how to use the catalog to tap into the technology transfer resources.

ARIZONA TECHNOLOGY TRANSFER PROGRAM

The T² Program, is administered under the Center for Advanced Transportation Systems Research (CATSR), located at the campus of Arizona State University in Tempe. The T² Program is funded partly by the Local Transportation Assistance Program (LTAP), begun in 1982 as the Rural Transportation Assistance Program (RTAP). Under the original charter, T² centers were created by the Federal Highway Administration (FHWA) to provide technical training and assistance to local governments, cities and towns with less than 50,000 persons. In 1991, the program was expanded to include cities up to one million in population, and the name was changed to LTAP. Currently, LTAP funds a T² program in each of the 50 states, and four additional T² Centers serve the needs of American Indian Tribal Governments.

In addition to preparation of this catalog, the current services of the T² Program include the publication of a newsletter called “AZ Transportation Tech Transfer,” presentations of a variety of training workshops, distribution of training videocassettes, distribution of publications, and provision of technical field assistance.

HOW TO USE THE CATALOG

The catalog is organized into the following remaining sections:

Section II  Workshops/Courses
Section III  Videocassettes and CD-ROMS
Section IV   Other sources of information
Section II  Workshops/Courses

The section on workshops/courses includes information on training workshops and courses in transportation technology related topics. Workshops are generally for a short duration such as one day, two days, or maybe one week whereas courses are for a longer duration up to a semester in length. The workshops or courses may be provided by the T² Program, Arizona Department of Transportation (ADOT) Human Resources Development Center (HRDC), State Universities, Community Colleges, professional organizations or private individuals. The workshops provided by the T² Program are offered primarily to employees of local governments. Other individuals, however, may take a workshop if space permits. The training courses offered by HRDC are primarily open to employees of ADOT, but local government employees may attend all HRDC courses. If space permits, private individuals may attend at a minimum fee. Attendance of workshops offered by others is usually open to all who satisfy any minimum requirements.

For some Community Colleges, courses may be offered on more than one campus. The individual should consult the schedule of classes for each Community College to determine which campuses will offer the course.

Section III  Video cassettes and CD-ROMs

This section includes videocassettes and interactive CD-ROMs which may be borrowed from the provider generally at no cost.

Section IV  Other Information Sources

The section on other sources of information includes, Arizona colleges, Arizona State data centers, Arizona transportation libraries, Arizona transportation organizations, national transportation organizations, other resource catalogs, transportation information clearinghouses, transportation mailing lists (Internet addresses), transportation newsletters, and transportation related bulletin boards. Users of this catalog should consult such sources directly since their internal content is not duplicated herein.

The major sections of the catalog are also available in the form of ACCESS databases. Each database can be accessed and searched by individual field names. A report may also be printed out for each of the databases.
HOW TO CONTRIBUTE TO THE CATALOG

The T² Program continuously seeks additional resources for the catalog and comments upon the usefulness of the catalog. You may contact the T² Program Manager or staff at:

Center for Advanced Transportation Systems Research (CATSR)
Arizona T² Program
Arizona State University
Box 876306
Tempe, AZ  85287
(602) 965-2744 (voice)
(602) 965-2728 (fax)

Or fill out the Potential Service Provider Form at the end of this section.

DESCRIPTION OF TOPICS

The catalog is arranged into fifteen topics described below. Note that although this edition of the catalog may not have an entry for every category, entries will be made as information becomes available for these categories.

Road Surface and Substructure

This topic area comprises resources concerning road surface materials and their use in road construction. The subtopics include asphalt concrete, Portland cement concrete, gravel, graded earth, soils and foundations, trails, geotextiles, and construction inspection.

Drainage and Roadside Management

The drainage and roadside management topic area includes resources concerning the control of the flow of surface and underground water through, under, and beside highways and also includes the overall management of all lands within road right-of-way. The subtopics include slope maintenance and slide restoration, retaining walls, and roadside development.

Structures

Technology transfer resources for this topic area concern any structures that either span roadways or carry roads over water, railroads, depressed areas, and other roadways. Subtopics include bridge inspection, wood bridges, concrete bridges, steel bridges, and culverts.
Road Maintenance

The road maintenance topic area comprises resources concerning road maintenance operations and inspections. The subtopics include road maintenance and low volume road maintenance.

Construction Vehicle Maintenance and Use

This topic comprises resources concerning vehicle operations, preventive maintenance and repair for the vehicles used to excavate, fill, compact, transport, pave, and maintain roads. Subtopics include dump trucks, motor graders, rollers, front end loaders, wheel tractors, and mowers.

Transit and Other Modes

This topic covers resources concerning public and/or mass transportation by bus, van, light rail, or railroad, paratransit, bicycle, and pedestrian travel. The subtopics include bus, paratransit, pedestrian, and bicycles.

Safety

The topic comprises resources concerning the safety of drivers and passengers and the safety of transportation workers. The subtopics for safety include Occupational Safety and Health Administration (OSHA) rules and regulations, work zone signing and flagging, and the use of safety and maintenance equipment.

Traffic Control

Traffic control includes resources concerning signs and all other devices used for traffic control. The subtopics include signs, signals, markings, delineators, sign management, lighting, traffic control devices, traffic operations, freeway operations, traffic signal design, and access control.

Environmental, Weather

This topic includes resources concerning the impact of transportation systems upon environmental quality and the effects of environmental and weather conditions upon transportation systems. Subtopics for this category include air quality, vegetative management, hazardous materials transportation, snow and ice control, and noise.
Engineering

The engineering topic comprises resources concerning engineering design, modeling, studies, and surveying. Subtopics include surveying, modeling, geometric design, pavement design, highway capacity studies, and entrance/access design.

Computer Methods

Computer methods include resources concerning the application of automated methods to transportation administration, engineering, management, and planning. Subtopics include geographical information sources (GIS), computer applications, and software.

Management Systems

The management systems comprise resources concerning the six mandated Intermodal Surface Transportation Efficiency Act (ISTEA) management systems and other large, integrated life-cycle transportation management systems. Subtopics include bridge management systems, safety management systems, pavement management systems, congestion management systems, intermodal management systems, public transportation management systems, freeway management systems, intelligent vehicle highway systems, and traffic signal systems.

Transportation Administration and Planning

This topic includes resources concerning the management of transportation agencies, transportation planning, transportation funding, field studies, and office operations. Subtopics include administration, office management, planning, travel demand forecasting, field data collection, traffic studies, ISTE A, and the Clean Air Act Amendments (CAAA).

Liability and Other Legal Concerns

This topic comprises resources concerning tort litigation, risk management, and laws that govern the design, construction, and operation of a transportation system. Subtopics include tort litigation, risk management, Americans with Disabilities Act (ADA), subdivision ordinances, and zoning ordinances.

Miscellaneous

The miscellaneous topic includes subject areas which do not fall within the main topics.
DESCRIPTION OF ITEMS IN EACH ENTRY

The entries for the workshops are organized according to the fifteen resource categories previously described. The entry for each resource comprises the following items:

- Topic category
- Media type
- Resource title
- Description of the resource
- Provider
- Contact name
- Contact phone/fax numbers
- Audience
- Date of production and revision
- Cost/terms
- Duration
- Offer date
- Location
- Prerequisites

The topic category refers to one of the fifteen categories discussed above.

The media type is the first entry such as workshop or videocassette.

The title of the resource appears next in the entry. For example, the title of a specific workshop or a video cassette appears after the resource category.

The Description provides a brief summary of the resource's educational content and its scope or length.

The Provider is the institution, agency, or individual who presents or produces the resource.

The Contact Name and Telephone Numbers (voice and fax) items indicate who can give further information about the resource. Note that Bulletin Board numbers, E-mail numbers, and Internet addresses are listed under the Fax number.

The Audience item further specifies the target audience as managers, administrators, engineers, technicians or other personnel.

The Date/Revised entry gives the date when the resource was first produced and the revision date, if any.

The Cost/terms item gives product cost and special conditions such as differences in cost for public or private parties, group discounts, and time limitations on services.

The Duration entry specifies the length of the activity. For example, a workshop may be one or two days or even longer.

The Offer Date is the date(s) when a resource is available.

Location tells where a workshop/training course is held or can be scheduled upon request.

The Prerequisite entry specifies the level of expertise needed to use the resource.
The entries for videocassettes include the Category Resource Title, Descriptors, Publisher, Identification Number, Date Entered, and Length.

CONTACTS

The following are the names, phone numbers, and full addresses of the contact persons listed in the workshop and videocassette sections.

Arizona State Environmental Technology Training Center Pima Community College 8181 E. Irvington Road Tucson, Arizona 85709-4000 (520) 722-7872 (voice) (520) 722-7825 (fax) Dan Bingham Coconino Community College Flagstaff Administrative Center 3000 North Fourth Street, Suite 17 Flagstaff, Arizona 86004 (520) 527-1222 ext 245 (voice) (520) 526-1821 (fax)

Bob Campbell The Asphalt Institute 123 N. Centennial Way, Suite 220-I Mesa, AZ 85201-6749 (602) 655-8410 (voice) (602) 827-2915 (fax) Bob Hall Arizona Department of Transportation Human Resources Development Center 1130 N. 22nd Avenue Phoenix, AZ 85009 (602) 255-7613 (voice) (602) 256-7648 (fax)

Joe Heal 10352 N. Attaway Road Coolidge, Arizona 85228 (520) 723-7805 (voice) Joe Heal 10352 N. Attaway Road Coolidge, Arizona 85228 (520) 723-7805 (voice) John Hopkins CATSR Arizona T² Program Arizona State University Box 876306 Tempe, AZ 85287 (602) 965-2744 (voice) (602) 965-2728 (fax)

Gonzalo Huerta Arizona Western College P.O. Box 929 Yuma, Arizona 85366 (520) 344-7567 (voice) (520) 344-7730 (fax) Bill Karlainsey Eastern Arizona College Thatcher, Arizona 85552-0769 (520) 428-8430 (voice) (520) 428-8462 (fax)

Mike Kohout Arizona Chapter - American Concrete Institute P.O. Box 52140 Phoenix, Arizona 85072 (602) 220-5631 (voice) (602) 220-5348 (fax) Michael Penic Freeway Systems Research 1621 W. Ivanhoe Court Chandler, Arizona 85224 (602) 786-3170 (voice)
Ed Peters  
Central Arizona College  
Signal Peak Campus  
8470 N. Overfield Road  
Coolidge, Arizona 85228  
(520) 426-4310 (voice)  
(520) 426-4234 (fax)

Jim Richmond  
Northland Pioneer College  
District Office  
103 First Avenue at Hopi Drive  
P.O. Box 610  
Holbrook, Arizona 86025  
(520) 537-2976 (voice)  
(520) 524-2227 (fax)

Steve Schwab  
Michael Baker Jr., Inc.  
1313 E. Osborn Road, Suite 150  
Phoenix, Arizona 85014  
(602) 279-1234 (voice)  
(602) 279-1411 (fax)

Jan Siedier  
International Municipal Signal  
Association  
c/o City of Mesa  
P.O. Box 1466  
Mesa, Arizona 85201  
(602) 644-2160 (voice)  
(602) 644-3130 (fax)

Larry Strom  
Yavapai College  
1100 E. Sheldon Street  
Prescott, Arizona 86301  
(520) 776-2357 (voice)  
(520) 776-2209 (fax)

Al Walker  
Cochise College  
4190 West Highway 80  
Douglas, Arizona 85607-9724  
(520) 459-9761 (voice)  
(520) 459-9706 (fax)

Chip Wanner  
Alliance for Construction Excellence  
Del E. Webb School of Construction  
College of Engineering & Applied  
Sciences  
Arizona State University  
Box 870204  
Tempe, Arizona 85287-0204  
(602) 965-5324 (voice)  
(602) 965-8172 (fax)
POTENTIAL SERVICE PROVIDER FORM

If you would like to have a training workshop included in the next edition of the catalog, please fill out the following information and return to:

John Hopkins  
Center for Advanced Transportation Systems Research (CATSR)  
Arizona State University  
Box 876306  
Tempe, AZ  85287  
(602) 965-2744 (voice)  (602) 965-2728 (fax)

<table>
<thead>
<tr>
<th>Topic Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Media Type (workshop, videocassettes, etc)</td>
</tr>
<tr>
<td>Media Type (workshop, videocassettes, etc)</td>
</tr>
<tr>
<td>Title</td>
</tr>
<tr>
<td>Description (maximum of 255 characters)</td>
</tr>
<tr>
<td>Provider:</td>
</tr>
<tr>
<td>Contact:</td>
</tr>
<tr>
<td>Phone</td>
</tr>
<tr>
<td>Fax</td>
</tr>
<tr>
<td>Audience</td>
</tr>
<tr>
<td>Date/Date Revised</td>
</tr>
<tr>
<td>Cost</td>
</tr>
<tr>
<td>Duration</td>
</tr>
<tr>
<td>Offer Date</td>
</tr>
<tr>
<td>Location</td>
</tr>
<tr>
<td>Prerequisites</td>
</tr>
</tbody>
</table>
CUSTOMER FEEDBACK FORM

We appreciate the opportunity to serve you and we need your help in providing the best services to meet your technology transfer needs. Please send in your comments to the T² Program in order for us to continually improve our services.

To:    T² Program Manager

<table>
<thead>
<tr>
<th>From:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Telephone:</td>
</tr>
<tr>
<td>Address:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Comments:</th>
</tr>
</thead>
</table>

Please mail your comments to:

John Hopkins
Center for Advanced Transportation Systems Research (CATSR)
Arizona T² Program
Arizona State University
Box 876306
Tempe, AZ  85287
(602) 965-2744 (voice)   (602) 965-2728 (fax)
II. WORKSHOPS/COURSES

ROAD SURFACE AND SUBSTRUCTURE II-1

STRUCTURES II-5

CONSTRUCTION VEHICLE MAINTENANCE AND USE II-6

SAFETY II-7

TRAFFIC CONTROL II-9

COMPUTER METHODS II-12

LIABILITY AND OTHER LEGAL CONCERNS II-13

MISCELLANEOUS II-14
### Road Surface and Substructure

#### WORKSHOP
**Asphalt Materials**

This workshop addresses what is asphalt, asphalt cement, cutbacks, emulsions, the use of a variety of susceptibility, typical temperatures for various applications, additives, and aggregates.

**Provider:** CATSR/Technology Transfer  
**Contact:** John Hopkins, Manager  
**Phone:** (602)965-2744  
**FAX:** (602)965-2728  
**Audience:** All field personnel  
**Date/Revised:** 1995  
**Cost:** $35  
**Duration:** 1 day  
**Offer Date:** To be scheduled  
**Location:** To be scheduled  
**Prereqs:** Construction experience

---

#### WORKSHOP
**Concrete Field Testing**

Basics in the testing of concrete placement for construction projects.

**Provider:** American Concrete Institute  
**Contact:** Mike Kohout  
**Phone:** (602)220-5631  
**FAX:** (602)220-5348  
**Audience:** Technicians  
**Date/Revised:** 1995  
**Cost:** $115  
**Duration:** 2 days  
**Offer Date:** To be scheduled  
**Location:** Phoenix  
**Prereqs:** None

---

#### WORKSHOP
**Construction Inspection**

The workshop covers inspection of concrete, hot mix asphalt, chip seals and soil as performed in the field. The course stresses the importance of inspection, various tests performed and potential failures due to incorrect procedures.

**Provider:** CATSR/Technology Transfer  
**Contact:** John Hopkins, Manager  
**Phone:** (602)965-2744  
**FAX:** (602)965-2728  
**Audience:** Construction Inspectors  
**Date/Revised:** 1995  
**Cost:** $35  
**Duration:** 1 day  
**Offer Date:** To be scheduled  
**Location:** To be scheduled  
**Prereqs:** None

---

#### WORKSHOP
**Guardrail Inspection**

To standarize guardrail inspection and installation practices in the Highways Division.

**Provider:** ADOT Human Resources  
**Contact:** Bob Hall  
**Phone:** (602)255-7613  
**FAX:** (602)256-7648  
**Audience:** Construction and Maintenance personnel  
**Date/Revised:** 1995  
**Cost:** $0  
**Duration:** 1/2 day  
**Offer Date:** To be scheduled  
**Location:** Phoenix  
**Prereqs:** None
Road Surface and Substructure

WORKSHOP
Maintenance and Construction of Gravel Roads

This workshop focuses upon the major issues concerning maintenance of low volume gravel roads. This course is aimed toward the operational issues and will utilize multimedia presentations, demonstrations, lectures and discussions.

Provider: Arizona Technology Transfer Program
Contact: John Hopkins, Manager
Phone: (602)965-2744
FAX: (602)965-2728
Audience: Equipment Operators, Foreman Supervisors
Date/Revised: 1994
Cost: $35
Duration: 1 day
Offer Date: To be scheduled
Location: To be scheduled
Prereqs: Construction or maintenance experience

WORKSHOP
Maintenance and Construction of Rural Paved Roads

This workshop will assist the road crews in identifying the various distresses on paved roads and present methods to use when correcting these problems.

Provider: CATSR/Technology Transfer
Contact: John Hopkins, Manager
Phone: (602)965-2744
FAX: (602)965-2728
Audience: Technicians
Date/Revised: 1995
Cost: $35
Duration: 1 day
Offer Date: To be scheduled
Location: To be scheduled
Prereqs: Construction or maintenance experience

WORKSHOP
NICET Preparation for Level II

The purpose of this course is to provide an overview of exam for first-time testers and to enhance math "confidence".

Provider: ADOT Human Resources
Contact: Bob Hall
Phone: (602)255-7613
FAX: (602)256-7648
Audience: Maintenance and Construction Technicians
Date/Revised: 1995
Cost: $0
Duration: 2 days
Offer Date: To be scheduled
Location: Statewide
Prereqs: None

WORKSHOP
Pavement Maintenance

This seminar provides basic and up-to-date information on the proper procedures to be employed in pavement maintenance.

Provider: Asphalt Institute
Contact: Bob Campbell
Phone: (602)655-8410
FAX: (602)827-2915
Audience: Engineers and Technicians
Date/Revised: 1994
Cost: $65 to $100
Duration: 1 day
Offer Date: To be scheduled
Location: To be scheduled
Prereqs: Construction or maintenance experience
# Road Surface and Substructure

## WORKSHOP
Principles of Construction of Quality Hot-Mix

This course intends to familiarize attendees with the basic principles of hot-mix pavement construction and the inspector’s responsibilities at various stages in the construction process.

<table>
<thead>
<tr>
<th>Provider</th>
<th>Asphalt Institute</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact</td>
<td>Bob Campbell</td>
</tr>
<tr>
<td>Phone</td>
<td>(602)655-8410</td>
</tr>
<tr>
<td>FAX</td>
<td>(602)827-2915</td>
</tr>
<tr>
<td>Audience</td>
<td>Construction Inspectors, Technicians</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Date/Revised</th>
<th>1994</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cost</td>
<td>$65 to $100</td>
</tr>
<tr>
<td>Duration</td>
<td>1 day</td>
</tr>
<tr>
<td>Offer Date</td>
<td>To be scheduled</td>
</tr>
<tr>
<td>Location</td>
<td>To be scheduled</td>
</tr>
<tr>
<td>Prereqs</td>
<td>Construction experience</td>
</tr>
</tbody>
</table>

## WORKSHOP
Profilograph Certification

This course certifies field inspectors in operation of mechanical and computerized profilograph use and ADOT test method. The course teaches the setup, operation, and break down and understanding of read outs at both types of profilograph units.

<table>
<thead>
<tr>
<th>Provider</th>
<th>ADOT Human Resources</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact</td>
<td>Bob Hall</td>
</tr>
<tr>
<td>Phone</td>
<td>(602)255-7613</td>
</tr>
<tr>
<td>FAX</td>
<td>(602)256-7648</td>
</tr>
<tr>
<td>Audience</td>
<td>Construction Inspectors</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Date/Revised</th>
<th>1995</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cost</td>
<td>$0</td>
</tr>
<tr>
<td>Duration</td>
<td>1 day</td>
</tr>
<tr>
<td>Offer Date</td>
<td>April (Once a year)</td>
</tr>
<tr>
<td>Location</td>
<td>Phoenix</td>
</tr>
<tr>
<td>Prereqs</td>
<td>None</td>
</tr>
</tbody>
</table>

## WORKSHOP
Rating Roads for Pavement Management

The course will give an overview of data collection methods followed by specific methods of collecting visual distress survey data.

<table>
<thead>
<tr>
<th>Provider</th>
<th>CATSR/Technology Transfer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact</td>
<td>John Hopkins, Manager</td>
</tr>
<tr>
<td>Phone</td>
<td>(602)965-2744</td>
</tr>
<tr>
<td>FAX</td>
<td>(602)965-2728</td>
</tr>
<tr>
<td>Audience</td>
<td>Engineers and Field Technicians</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Date/Revised</th>
<th>1995</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cost</td>
<td>$35</td>
</tr>
<tr>
<td>Duration</td>
<td>1 day</td>
</tr>
<tr>
<td>Offer Date</td>
<td>To be scheduled</td>
</tr>
<tr>
<td>Location</td>
<td>To be scheduled</td>
</tr>
<tr>
<td>Prereqs</td>
<td>Pavement management experience</td>
</tr>
</tbody>
</table>

## WORKSHOP
Storm Water Technology

The course covers practical techniques of determining design storms; rainfall/runoff relationships; sizing of basic drainage structures such as culverts, swells, ditches, and detention retention impoundments. Limited discussion of water quality issues.

<table>
<thead>
<tr>
<th>Provider</th>
<th>CATSR/Technology Transfer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact</td>
<td>John Hopkins, Manager</td>
</tr>
<tr>
<td>Phone</td>
<td>(602)965-2744</td>
</tr>
<tr>
<td>FAX</td>
<td>(602)965-2728</td>
</tr>
<tr>
<td>Audience</td>
<td>Engineers, Flood Plain Administrators, Flood Control Regulators</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Date/Revised</th>
<th>1995</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cost</td>
<td>$50</td>
</tr>
<tr>
<td>Duration</td>
<td>1 day</td>
</tr>
<tr>
<td>Offer Date</td>
<td>To be scheduled</td>
</tr>
<tr>
<td>Location</td>
<td>To be scheduled</td>
</tr>
<tr>
<td>Prereqs</td>
<td>Drainage design experience</td>
</tr>
</tbody>
</table>
# Road Surface and Substructure

**WORKSHOP**  
**Technician Grade 1**

This workshop provides information on concrete placement to prepare technicians.

<table>
<thead>
<tr>
<th>Provider</th>
<th>American Concrete Institute</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact</td>
<td>Mike Kohout</td>
</tr>
<tr>
<td>Phone</td>
<td>(602)220-5631</td>
</tr>
<tr>
<td>FAX</td>
<td>(602)220-5348</td>
</tr>
<tr>
<td>Audience</td>
<td>Technicians</td>
</tr>
<tr>
<td>Date/Revised</td>
<td>1995</td>
</tr>
<tr>
<td>Cost</td>
<td>$115</td>
</tr>
<tr>
<td>Duration</td>
<td>1 day</td>
</tr>
<tr>
<td>Offer Date</td>
<td>To be scheduled</td>
</tr>
<tr>
<td>Location</td>
<td>Phoenix</td>
</tr>
<tr>
<td>Prereqs</td>
<td>Construction experience</td>
</tr>
</tbody>
</table>

---

**WORKSHOP**  
**Use of Asphalt Rubber in Pavement**

This workshop will provide the highway community (both agencies and industry) the current understanding of the design procedures and construction practices used to incorporate scrap tire rubber into asphalt paving materials.

<table>
<thead>
<tr>
<th>Provider</th>
<th>CATSR/ Technology Transfer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact</td>
<td>John Hopkins, Manager</td>
</tr>
<tr>
<td>Phone</td>
<td>(602)965-2744</td>
</tr>
<tr>
<td>FAX</td>
<td>(602)965-2728</td>
</tr>
<tr>
<td>Audience</td>
<td>Engineers</td>
</tr>
<tr>
<td>Date/Revised</td>
<td>1994</td>
</tr>
<tr>
<td>Cost</td>
<td>$35</td>
</tr>
<tr>
<td>Duration</td>
<td>1 day</td>
</tr>
<tr>
<td>Offer Date</td>
<td>To be scheduled</td>
</tr>
<tr>
<td>Location</td>
<td>To be scheduled</td>
</tr>
<tr>
<td>Prereqs</td>
<td>Construction Experience</td>
</tr>
</tbody>
</table>
# Structures

**WORKSHOP**  
**Comprehensive Bridge Safety Inspection Training**

This course provides the training requirements of the National Bridge Inspection Standards (NBIS) based on the updated "Bridge Inspector's Training Manual 90."

<table>
<thead>
<tr>
<th>Provider</th>
<th>National Highway Institute</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact</td>
<td>Steve Schwab</td>
</tr>
<tr>
<td>Phone</td>
<td>(602)279-1234</td>
</tr>
<tr>
<td>FAX</td>
<td>(602)279-1411</td>
</tr>
<tr>
<td>Audience</td>
<td>Engineers, Construction Workers, Field Technicians, Bridge Inspectors</td>
</tr>
<tr>
<td>Date/Revised</td>
<td>1990</td>
</tr>
<tr>
<td>Cost</td>
<td>$20,000 for class of 40</td>
</tr>
<tr>
<td>Duration</td>
<td>2 weeks</td>
</tr>
<tr>
<td>Offer Date</td>
<td>To be scheduled</td>
</tr>
<tr>
<td>Location</td>
<td>To be scheduled</td>
</tr>
<tr>
<td>Prereqs</td>
<td>Bridge inspection, Bridge design</td>
</tr>
</tbody>
</table>
Construction Vehicle
Maintenance And Use

WORKSHOP
Coaching the Maintenance Vehicle Operator

This course helps the experienced equipment operator to be more aware of the hazards of their work and how to prevent injuries and collisions by focusing on safe driving/operations procedures.

Provider: ADOT Human Resources
Contact: Bob Hall
Phone: (602)255-7613
FAX: (602)256-7648
Audience: Equipment Operators

Date/Revised: 1995
Cost: $0
Duration: 1 day
Offer Date: To be scheduled
Location: Phoenix
Prereqs: None

WORKSHOP
Heavy Equipment Operation

Custom designed course to meet the needs of training heavy equipment operators including certification for backhoe, motor grader, loader, truck/transport and commercial drivers license preparation.

Provider: Joe Heal, Training Consultant
Contact: Joe Heal
Phone: (602)723-7805
FAX: 
Audience: Equipment Operators

Date/Revised: 1994
Cost: $500 per day for each class
Duration: 1-5 days
Offer Date: To be scheduled
Location: To be scheduled
Prereqs: Some equipment operations experience

WORKSHOP
Heavy Equipment Operations/Motor Graders

This one-day workshop offers hands-on motor grader training for beginning and intermediate operators. The course includes classroom instruction in safety, equipment maintenance and operational procedures.

Provider: Arizona Technology Transfer Program
Contact: John Hopkins, Manager
Phone: (602)965-2744
FAX: (602)965-2728
Audience: Equipment Operators

Date/Revised: 1991
Cost: $35
Duration: 1 day
Offer Date: To be scheduled
Location: To be scheduled
Prereqs: Some equipment operations experience
## Safety

### COURSE
**Construction Safety**

Topics include: general building trades safety, portable power tool safety, machinery safety, fire safety, toxic substance safety, emergency first aid care, standard bill of material, standards of measurement, trade math, fastening devices.

**Provider:** Northland Pioneer College  
**Contact:** Jim Richmond  
**Phone:** (520) 537-2976  
**FAX:** (520) 524-2227  
**Audience:** All field operators  
**Date/Revised:** 1995  
**Cost:** $20 per credit  
**Duration:** Semester  
**Offer Date:** To be scheduled  
**Location:** Holbrook  
**Prereqs:** High school graduate

### WORKSHOP
**Hand & Power Tool Safety**

This course trains participants in the hazards of using hand and power tools and the correct tool to use for performing the task. Use of personal protective equipment, various tools, their specific purpose, and how to select and use the "correct" tool.

**Provider:** ADOT Human Resources  
**Contact:** Bob Hall  
**Phone:** (602)255-7613  
**FAX:** (602)256-7648  
**Audience:** Technicians  
**Date/Revised:** 1995  
**Cost:** $0  
**Duration:** 1 day  
**Offer Date:** To be scheduled  
**Location:** Phoenix  
**Prereqs:** None

---

### WORKSHOP
**Mine Safety and Health Administration Annual Requirements**

This course fulfills the annual requirements for an eight hour refresher required by the Mine Safety and Health Administration.

**Provider:** ADOT Human Resources  
**Contact:** Bob Hall  
**Phone:** (602)255-7613  
**FAX:** (602)256-7648  
**Audience:** Technicians  
**Date/Revised:** 1995  
**Cost:** $0  
**Duration:** 1 day  
**Offer Date:** To be scheduled  
**Location:** Statewide  
**Prereqs:** New miner training

### WORKSHOP
**New Employee Safety Orientation**

The purpose of this course is to make new ADOT employees aware of safety on the job. The course presents policies and procedures, the use of personal protection equipment, safety programs, accident and injury reporting, haz-com and future safety training.

**Provider:** ADOT Human Resources  
**Contact:** Bob Hall  
**Phone:** (602)255-7613  
**FAX:** (602)256-7648  
**Audience:** All employees  
**Date/Revised:** 1995  
**Cost:** $0  
**Duration:** 1 day  
**Offer Date:** To be scheduled  
**Location:** Statewide  
**Prereqs:** None
## Safety

### WORKSHOP
**Radiation Safety-Nuclear Density**

This course provides the initial training required of all individual users of moisture-density gauges. It also provides the mandatory 4-hour safety training which is required annually.

<table>
<thead>
<tr>
<th>Provider</th>
<th>Arizona Radiation Regulatory Agency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact</td>
<td>Bob Hall</td>
</tr>
<tr>
<td>Phone</td>
<td>(602)255-7613</td>
</tr>
<tr>
<td>FAX</td>
<td>(602)256-7648</td>
</tr>
<tr>
<td>Audience</td>
<td>Operators/transporters of radioactive equipment</td>
</tr>
<tr>
<td>Date/Revised</td>
<td>1995</td>
</tr>
<tr>
<td>Cost</td>
<td>$0</td>
</tr>
<tr>
<td>Duration</td>
<td>2 days</td>
</tr>
<tr>
<td>Offer Date</td>
<td>To be scheduled</td>
</tr>
<tr>
<td>Location</td>
<td>To be scheduled</td>
</tr>
<tr>
<td>Prereqs</td>
<td>None</td>
</tr>
</tbody>
</table>

### WORKSHOP
**Work Zone Safety**

This workshop will deal with signs, barricades and other channelizing devices used for work zones and operations around and within these work zones. Safety in the workzone will be emphasized. Information will be provided on the use of channelizing devices.

<table>
<thead>
<tr>
<th>Provider</th>
<th>Arizona Technology Transfer Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact</td>
<td>John Hopkins, Manager</td>
</tr>
<tr>
<td>Phone</td>
<td>(602)965-2744</td>
</tr>
<tr>
<td>FAX</td>
<td>(602)965-2728</td>
</tr>
<tr>
<td>Audience</td>
<td>Traffic Technicians</td>
</tr>
<tr>
<td>Date/Revised</td>
<td>1994</td>
</tr>
<tr>
<td>Cost</td>
<td>$35</td>
</tr>
<tr>
<td>Duration</td>
<td>1 day</td>
</tr>
<tr>
<td>Offer Date</td>
<td>To be scheduled</td>
</tr>
<tr>
<td>Location</td>
<td>To be scheduled</td>
</tr>
<tr>
<td>Prereqs</td>
<td>Traffic technician level</td>
</tr>
</tbody>
</table>
# Traffic Control

## WORKSHOP
### Basic Traffic Control
This course provides an overview of traffic control theory and principle in the field - specifically the Phoenix metropolitan area. Application of Chapter 6 MUTCD; description, selection and use of traffic control devices.

**Provider:** ADOT Human Resources  
**Contact:** Bob Hall  
**Phone:** (602)255-7613  
**FAX:** (602)256-7648  
**Audience:** Construction and Maintenance Field Personnel  
**Date/Revised:** 1995  
**Cost:** $0  
**Duration:** 1 day  
**Offer Date:** To be scheduled  
**Location:** To be scheduled  
**Prereqs:** None

## WORKSHOP
### Certified Flagger Training
This course is designed to give field personnel a knowledge of correct procedures for flagging. Course also includes the correct signing, clothing, emergency procedures and different applications of flagging.

**Provider:** ADOT Human Resources  
**Contact:** Bob Hall  
**Phone:** (602)255-7613  
**FAX:** (602)256-7648  
**Audience:** Construction and Maintenance Field Personnel  
**Date/Revised:** 1995  
**Cost:** $0  
**Duration:** 4 hours  
**Offer Date:** To be scheduled  
**Location:** Statewide  
**Prereqs:** None

## WORKSHOP
### Fire Alarm
Moderated sessions with varying levels of certification in the subject category.

**Provider:** International Municipal Signal Association  
**Contact:** Jan Siedier  
**Phone:** (602)644-2160  
**FAX:** (602)644-3130  
**Audience:** Traffic Technicians  
**Date/Revised:** 1995  
**Cost:** $140 - $220  
**Duration:** 1 day  
**Offer Date:** To be scheduled  
**Location:** To be scheduled  
**Prereqs:** Traffic technician level

## WORKSHOP
### Flagging
Moderated sessions with varying levels of certification in the subject category.

**Provider:** International Municipal Signal Association  
**Contact:** Jan Siedier  
**Phone:** (602)644-2160  
**FAX:** (602)644-3130  
**Audience:** Field Technician, Equipment Operator, Construction Worker  
**Date/Revised:** 1995  
**Cost:** $140 - $220  
**Duration:** 1 day  
**Offer Date:** To be scheduled  
**Location:** To be scheduled  
**Prereqs:** Traffic technician level
### Traffic Control

**WORKSHOP**  
**MUTCD Part VI: Revision**

This discusses what's new in traffic control, use and application of roadway signing, sign maintenance, according to the latest MUTCD Part VI revision.

<table>
<thead>
<tr>
<th>Provider</th>
<th>Arizona Technology Transfer Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact</td>
<td>John Hopkins, Manager</td>
</tr>
<tr>
<td>Phone</td>
<td>(602)966-2744</td>
</tr>
<tr>
<td>FAX</td>
<td>(602)966-2728</td>
</tr>
<tr>
<td>Audience</td>
<td>Public Works Directors, Engineers, Traffic Technicians</td>
</tr>
<tr>
<td>Date/Revised:</td>
<td>1994</td>
</tr>
<tr>
<td>Cost</td>
<td>$35</td>
</tr>
<tr>
<td>Duration</td>
<td>1 day</td>
</tr>
<tr>
<td>Offer Date:</td>
<td>To be scheduled</td>
</tr>
<tr>
<td>Location:</td>
<td>To be scheduled</td>
</tr>
<tr>
<td>Prereqs:</td>
<td>Some traffic control experience</td>
</tr>
</tbody>
</table>

**WORKSHOP**  
**Portable VMS Board Training**

The purpose of this course is understanding basic use and practical application of the portable variable message boards (VMS).

<table>
<thead>
<tr>
<th>Provider</th>
<th>ADOT Human Resources</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact</td>
<td>Bob Hall</td>
</tr>
<tr>
<td>Phone</td>
<td>(602)255-7613</td>
</tr>
<tr>
<td>FAX</td>
<td>(602)256-7648</td>
</tr>
<tr>
<td>Audience</td>
<td>Construction and Maintenance personnel</td>
</tr>
<tr>
<td>Date/Revised:</td>
<td>1995</td>
</tr>
<tr>
<td>Cost</td>
<td>$0</td>
</tr>
<tr>
<td>Duration</td>
<td>1/2 day</td>
</tr>
<tr>
<td>Offer Date:</td>
<td>To be scheduled</td>
</tr>
<tr>
<td>Location:</td>
<td>Phoenix</td>
</tr>
<tr>
<td>Prereqs:</td>
<td>None</td>
</tr>
</tbody>
</table>

---

**WORKSHOP**  
**Public Dispatch**

Moderated sessions with varying levels of certification in the subject category.

<table>
<thead>
<tr>
<th>Provider</th>
<th>International Municipal Signal Association</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact</td>
<td>Jan Siedier</td>
</tr>
<tr>
<td>Phone</td>
<td>(602)644-2160</td>
</tr>
<tr>
<td>FAX</td>
<td>(602)644-3130</td>
</tr>
<tr>
<td>Audience</td>
<td>Technicians, Dispatchers</td>
</tr>
<tr>
<td>Date/Revised:</td>
<td>1995</td>
</tr>
<tr>
<td>Cost</td>
<td>$140 - $220</td>
</tr>
<tr>
<td>Duration</td>
<td>1 day</td>
</tr>
<tr>
<td>Offer Date:</td>
<td>To be scheduled</td>
</tr>
<tr>
<td>Location:</td>
<td>To be scheduled</td>
</tr>
<tr>
<td>Prereqs:</td>
<td>Traffic technician level</td>
</tr>
</tbody>
</table>

**WORKSHOP**  
**Roadway Lighting**

Moderated sessions with varying levels of certification in the subject category.

<table>
<thead>
<tr>
<th>Provider</th>
<th>International Municipal Signal Association</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact</td>
<td>Jan Siedier</td>
</tr>
<tr>
<td>Phone</td>
<td>(602)644-2160</td>
</tr>
<tr>
<td>FAX</td>
<td>(602)644-3130</td>
</tr>
<tr>
<td>Audience</td>
<td>Traffic Technicians, Engineers</td>
</tr>
<tr>
<td>Date/Revised:</td>
<td>1995</td>
</tr>
<tr>
<td>Cost</td>
<td>$140 - $220</td>
</tr>
<tr>
<td>Duration</td>
<td>1 day</td>
</tr>
<tr>
<td>Offer Date:</td>
<td>To be scheduled</td>
</tr>
<tr>
<td>Location:</td>
<td>To be scheduled</td>
</tr>
<tr>
<td>Prereqs:</td>
<td>Traffic technician level</td>
</tr>
</tbody>
</table>
# Traffic Control

## WORKSHOP

### Signs & Markings

Moderated sessions with varying levels of certification in the subject category.

<table>
<thead>
<tr>
<th>Provider:</th>
<th>International Municipal Signal Association</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact:</td>
<td>Jan Siedier</td>
</tr>
<tr>
<td>Phone:</td>
<td>(602)644-2160</td>
</tr>
<tr>
<td>FAX:</td>
<td>(602)644-3130</td>
</tr>
<tr>
<td>Audience:</td>
<td>Traffic Technicians</td>
</tr>
<tr>
<td>Date/Revised:</td>
<td>1995</td>
</tr>
<tr>
<td>Cost:</td>
<td>$140 - $220</td>
</tr>
<tr>
<td>Duration:</td>
<td>1 day</td>
</tr>
<tr>
<td>Offer Date:</td>
<td>To be scheduled</td>
</tr>
<tr>
<td>Location:</td>
<td>To be scheduled</td>
</tr>
<tr>
<td>Prereqs:</td>
<td>Traffic technician level</td>
</tr>
</tbody>
</table>

## WORKSHOP

### Traffic Signals

Moderated sessions with varying levels of certification in the subject category.

<table>
<thead>
<tr>
<th>Provider:</th>
<th>International Municipal Signal Association</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact:</td>
<td>Jan Siedier</td>
</tr>
<tr>
<td>Phone:</td>
<td>(602)644-2160</td>
</tr>
<tr>
<td>FAX:</td>
<td>(602)644-3130</td>
</tr>
<tr>
<td>Audience:</td>
<td>Traffic Technicians, Engineers</td>
</tr>
<tr>
<td>Date/Revised:</td>
<td>1995</td>
</tr>
<tr>
<td>Cost:</td>
<td>$140 - $220</td>
</tr>
<tr>
<td>Duration:</td>
<td>1 day</td>
</tr>
<tr>
<td>Offer Date:</td>
<td>To be scheduled</td>
</tr>
<tr>
<td>Location:</td>
<td>To be scheduled</td>
</tr>
<tr>
<td>Prereqs:</td>
<td>Traffic technician level</td>
</tr>
</tbody>
</table>
Computer Methods

<table>
<thead>
<tr>
<th>WORKSHOP</th>
<th>Pavement Management</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freeway Systems Analysis Program (FRESYS)</td>
<td>Learn the concepts and benefits of a PMS. There will be detailed discussion and actual screen display of a simple computerized program, including how the data is entered into the system and display of the reports that can be generated.</td>
</tr>
<tr>
<td>Software application and technical training for freeway capacity analysis</td>
<td>Provider: Arizona Technology Transfer Program</td>
</tr>
<tr>
<td>Provider: Freeway Systems Research</td>
<td>Contact: John Hopkins, Manager</td>
</tr>
<tr>
<td>Contact: Mike Penic</td>
<td>Phone: (602)965-2744</td>
</tr>
<tr>
<td>Phone: (602)786-3170</td>
<td>FAX: (602)965-2728</td>
</tr>
<tr>
<td>Audience: Traffic Engineers</td>
<td>Audience: Engineers, Administrators, Field Technicians</td>
</tr>
<tr>
<td>Date/Revised: 1995</td>
<td>Date/Revised: 1994</td>
</tr>
<tr>
<td>Cost: $300 - $800</td>
<td>Cost: $55</td>
</tr>
<tr>
<td>Duration: 1 - 3 days</td>
<td>Duration: 1 day</td>
</tr>
<tr>
<td>Offer Date: To be scheduled</td>
<td>Offer Date: To be scheduled</td>
</tr>
<tr>
<td>Location: To be scheduled</td>
<td>Location: To be scheduled</td>
</tr>
<tr>
<td>Prereqs: Traffic Engineering</td>
<td>Prereqs: Some pavement management experience</td>
</tr>
</tbody>
</table>
Liability and Other Legal Concerns

COURSE
Contractor License and Law

Topics include: licensing process, business planning, insurance, bonds, mechanics liens, business management, methods of operation, statute and rules, recovery fund, government agencies, money management, contracts, current issues.

Provider: Northland Pioneer College
Contact: Jim Richmond
Phone: (520) 537-2976
FAX: (520) 524-2227
Audience: Project Managers

Date/Revised: 1995
Cost: $20 per credit
Duration: Semester
Offer Date: To be scheduled
Location: Holbrook
Prereqs: High school graduate
# Miscellaneous

## COURSE
**Advanced AutoCAD**

Advanced techniques in use of AutoCAD including construction of three-dimensional objects, symbols, dimensions, text, translation, LISP and advanced plotter use.

**Provider:** Yavapai College  
**Contact:** Larry Strom  
**Phone:** (520) 776-2357  
**Fax:** (520) 776-2209  
**Audience:** Technicians  
**Date/Revised:** 1995  
**Cost:** $66  
**Duration:** Semester  
**Offer Date:** To be scheduled  
**Location:** Prescott  
**Prereqs:** AutoCAD

## COURSE
**Advanced AutoCAD**

Examines how to use AutoCAD software to draw and edit polylines; set layers, line-types; dimensioning; creating section lines and graphic patterns; design symbols and attributes for multiple use.

**Provider:** Eastern Arizona College  
**Contact:** Bill Karlainsey  
**Phone:** (520) 428-8430  
**Fax:** (520) 428-8462  
**Audience:** Technicians  
**Date/Revised:** 1995  
**Cost:** $44  
**Duration:** Semester  
**Offer Date:** To be scheduled  
**Location:** Thatcher  
**Prereqs:** Intro to AutoCAD

## COURSE
**AutoCAD**

Theory and practice in application of AutoCAD computer aided design software.

**Provider:** Yavapai College  
**Contact:** Larry Strom  
**Phone:** (520) 776-2357  
**Fax:** (520) 776-2209  
**Audience:** Technicians  
**Date/Revised:** 1995  
**Cost:** $66  
**Duration:** Semester  
**Offer Date:** To be scheduled  
**Location:** Prescott  
**Prereqs:** Drafting course

## COURSE
**AutoCAD 3D**

Topics include: conversion of 2D to 3D, user coordinate system, multiple viewpoints and 3D spatial navigation, 3D drawing editor commands, 3D color management, 3D blocks, 3D drawing rotation, AutoShade rendering, 3D conversion to 2D plotting.

**Provider:** Northland Pioneer College  
**Contact:** Jim Richmond  
**Phone:** (520) 537-2976  
**Fax:** (520) 524-2227  
**Audience:** Technicians  
**Date/Revised:** 1995  
**Cost:** $20 per credit  
**Duration:** Semester  
**Offer Date:** To be scheduled  
**Location:** Holbrook  
**Prereqs:** AutoCAD I
## Miscellaneous

### COURSE
**AutoCAD I**

The course emphasizes operation of computer and software, management of data files, creation of 2-dimensional drawing in the application of CAD design. Includes: system start-up, drawing fundamentals, creating geometrical shapes, editing drawing, plotting.

**Provider:** Central Arizona College  
**Contact:** Ed Peters  
**Phone:** (520) 426-4310  
**FAX:** (520) 426-4234  
**Audience:** Technicians  
**Date/Revised:** 1995  
**Cost:** $25 per credit  
**Duration:** Semester  
**Offer Date:** To be scheduled  
**Location:** Coolidge  
**Prereqs:** Principles of Drafting

**Provider:** Coconino Community College  
**Contact:** Dan Bingham  
**Phone:** (520) 527-1222  
**FAX:** (520) 526-1821  
**Audience:** Technicians  
**Date/Revised:** 1995  
**Cost:** $27 per credit  
**Duration:** Semester  
**Offer Date:** To be scheduled  
**Location:** Flagstaff  
**Prereqs:** High school graduate

### COURSE
**AutoCAD I**

Specializing in 2D drawings and the application of CAD. Topics include: system startup, setting up drawings, drawing fundamentals, getting around with display controls, graphic entities, introduction to editing, grouping entities into blocks.

**Provider:** Northland Pioneer College  
**Contact:** Jim Richmond  
**Phone:** (520) 537-2976  
**FAX:** (520) 524-2227  
**Audience:** Technicians  
**Date/Revised:** 1995  
**Cost:** $20 per credit  
**Duration:** Semester  
**Offer Date:** To be scheduled  
**Location:** Holbrook  
**Prereqs:** High school graduate

**Provider:** Northland Pioneer College  
**Contact:** Jim Richmond  
**Phone:** (520) 537-2976  
**FAX:** (520) 524-2227  
**Audience:** Technicians  
**Date/Revised:** 1995  
**Cost:** $20 per credit  
**Duration:** Semester  
**Offer Date:** To be scheduled  
**Location:** Holbrook  
**Prereqs:** AutoCAD I
## Miscellaneous

### COURSE
**AutoCAD II**

The course emphasizes the management of data files, creation of 3-dimensional drawings in the application of CAD design. Topics include: advanced editing, creating libraries, 3D drawings, alternate coordinate system, import and export of drawings.

**Provider:** Central Arizona College  
**Contact:** Ed Peters  
**Phone:** (520) 426-4310  
**FAX:** (520) 426-4234  
**Audience:** Technicians  
**Date/Revised:** 1995  
**Cost:** $25 per credit  
**Duration:** Semester  
**Offer Date:** To be scheduled  
**Location:** Coolidge  
**Prereqs:** AutoCAD I

### COURSE
**AutoCAD II**

Advance features of the AutoCAD program. Advance 2D and basic 3D design, using advanced modeling extensions.

**Provider:** Coconino Community College  
**Contact:** Dan Bingham  
**Phone:** (520) 527-1222  
**FAX:** (520) 526-1821  
**Audience:** Technicians  
**Date/Revised:** 1995  
**Cost:** $27 per credit  
**Duration:** Semester  
**Offer Date:** To be scheduled  
**Location:** Flagstaff  
**Prereqs:** AuotCAD I

### COURSE
**AutoCAD III**

Completes the 3D design and presentation capabilities introduced in AutoCAD II. Creating and customizing menus for increased productivity in drafting. Also introduction to AutoLISP programs.

**Provider:** Coconino Community College  
**Contact:** Dan Bingham  
**Phone:** (520) 527-1222  
**FAX:** (520) 526-1821  
**Audience:** Technicians  
**Date/Revised:** 1995  
**Cost:** $27 per credit  
**Duration:** Semester  
**Offer Date:** To be scheduled  
**Location:** Flagstaff  
**Prereqs:** AuotCAD II

### COURSE
**AutoCAD Productivity**

Topics include: making a first menu, fine tuning a system, DOS a closer look, creating and editing macros, improving screen menus, designing and creating tablet menus, AutoCAD's advanced user interface, automating drawings.

**Provider:** Northland Pioneer College  
**Contact:** Jim Richmond  
**Phone:** (520) 537-2976  
**FAX:** (520) 524-2227  
**Audience:** Technicians  
**Date/Revised:** 1995  
**Cost:** $20 per credit  
**Duration:** Semester  
**Offer Date:** To be scheduled  
**Location:** Holbrook  
**Prereqs:** AutoCAD I
## Miscellaneous

### WORKSHOP
**Automated Force Account Detail Program**

This course presents information to automatically perform and calculate force account details.

<table>
<thead>
<tr>
<th>Provider:</th>
<th>ADOT Human Resources</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact:</td>
<td>Bob Hall</td>
</tr>
<tr>
<td>Phone:</td>
<td>(602)255-7613</td>
</tr>
<tr>
<td>FAX:</td>
<td>(602)256-7648</td>
</tr>
<tr>
<td>Audience:</td>
<td>Construction office workers</td>
</tr>
<tr>
<td>Date/Revised:</td>
<td>1995</td>
</tr>
<tr>
<td>Cost:</td>
<td>$0</td>
</tr>
<tr>
<td>Duration:</td>
<td>1 day</td>
</tr>
<tr>
<td>Offer Date:</td>
<td>To be scheduled</td>
</tr>
<tr>
<td>Location:</td>
<td>Statewide</td>
</tr>
<tr>
<td>Prereqs:</td>
<td>None</td>
</tr>
</tbody>
</table>

### WORKSHOP
**Basic Metric System**

Introduction to the metric system.

<table>
<thead>
<tr>
<th>Provider:</th>
<th>ADOT Human Resources</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact:</td>
<td>Bob Hall</td>
</tr>
<tr>
<td>Phone:</td>
<td>(602)255-7613</td>
</tr>
<tr>
<td>FAX:</td>
<td>(602)256-7648</td>
</tr>
<tr>
<td>Audience:</td>
<td>Engineers, Technicians</td>
</tr>
<tr>
<td>Date/Revised:</td>
<td>1991</td>
</tr>
<tr>
<td>Cost:</td>
<td>$0</td>
</tr>
<tr>
<td>Duration:</td>
<td>1 day</td>
</tr>
<tr>
<td>Offer Date:</td>
<td>To be scheduled</td>
</tr>
<tr>
<td>Location:</td>
<td>To be scheduled</td>
</tr>
<tr>
<td>Prereqs:</td>
<td>None</td>
</tr>
</tbody>
</table>

### WORKSHOP
**Basic Metrics Training**

The purpose of this course is to introduce ADOT employees to the upcoming change to metrics within ADOT that will go into effect September 1996.

<table>
<thead>
<tr>
<th>Provider:</th>
<th>ADOT Human Resources</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact:</td>
<td>Bob Hall</td>
</tr>
<tr>
<td>Phone:</td>
<td>(602)255-7613</td>
</tr>
<tr>
<td>FAX:</td>
<td>(602)256-7648</td>
</tr>
<tr>
<td>Audience:</td>
<td>Engineers, Technicians</td>
</tr>
<tr>
<td>Date/Revised:</td>
<td>1995</td>
</tr>
<tr>
<td>Cost:</td>
<td>$0</td>
</tr>
<tr>
<td>Duration:</td>
<td>1 day</td>
</tr>
<tr>
<td>Offer Date:</td>
<td>To be scheduled</td>
</tr>
<tr>
<td>Location:</td>
<td>To be scheduled</td>
</tr>
<tr>
<td>Prereqs:</td>
<td>None</td>
</tr>
</tbody>
</table>

### WORKSHOP
**Bloodborne Pathogen (HIV virus & Hepatitis)**

This course provides training and information for employees who have potential exposure to bloodborne pathogens. All employees with exposure to bloodborne pathogens receive training at the time of assignment and annually thereafter.

<table>
<thead>
<tr>
<th>Provider:</th>
<th>ADOT Human Resources</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact:</td>
<td>Bob Hall</td>
</tr>
<tr>
<td>Phone:</td>
<td>(602)255-7613</td>
</tr>
<tr>
<td>FAX:</td>
<td>(602)256-7648</td>
</tr>
<tr>
<td>Audience:</td>
<td>Technicians, Construction field workers</td>
</tr>
<tr>
<td>Date/Revised:</td>
<td>1995</td>
</tr>
<tr>
<td>Cost:</td>
<td>$0</td>
</tr>
<tr>
<td>Duration:</td>
<td>1 day</td>
</tr>
<tr>
<td>Offer Date:</td>
<td>To be scheduled</td>
</tr>
<tr>
<td>Location:</td>
<td>To be scheduled</td>
</tr>
<tr>
<td>Prereqs:</td>
<td>None</td>
</tr>
</tbody>
</table>
### Course: CADAM

Students will gain hands-on experience using CADAM micro based software, microcomputers, input/pointing devices such as digitizers, mice and output devices such as pen plotters.

**Provider:** Eastern Arizona College  
**Contact:** Bill Karlainsey  
**Phone:** (520) 428-8430  
**FAX:** (520) 428-8462  
**Audience:** Technicians  
**Date/Revised:** 1995  
**Cost:** $44  
**Duration:** Semester  
**Offer Date:** To be scheduled  
**Location:** Thatcher  
**Prereqs:** Intro to AutoCAD

### Course: CADKEY I

Working knowledge of geometric construction and an introduction to computer-aided software program in creating 2D drawings.

**Provider:** Coconino Community College  
**Contact:** Dan Bingham  
**Phone:** (520) 527-1222  
**FAX:** (520) 526-1821  
**Audience:** Technicians  
**Date/Revised:** 1995  
**Cost:** $27 per credit  
**Duration:** Semester  
**Offer Date:** To be scheduled  
**Location:** Flagstaff  
**Prereqs:** High school graduate

### Course: CADKEY II

Advanced knowledge of the 3D capabilities of the CAD software and the Cartesian coordinate system common to most CAD systems with the addition of the Z axis or depth of a given design.

**Provider:** Coconino Community College  
**Contact:** Dan Bingham  
**Phone:** (520) 527-1222  
**FAX:** (520) 526-1821  
**Audience:** Technicians  
**Date/Revised:** 1995  
**Cost:** $27 per credit  
**Duration:** Semester  
**Offer Date:** To be scheduled  
**Location:** Flagstaff  
**Prereqs:** CADKEY I

### Workshop: CII Project Management

This course is taught in three short courses. Team dynamics, Setting project objectives, Managing inputs to Design for Project success, Scope definition and Control, TQM, Partnering, Project management and schedules are the topics taught in this course.

**Provider:** Alliance for Construction Excellence  
**Contact:** Chip Wanner  
**Phone:** (602) 965-5324  
**FAX:** (602) 965-8172  
**Audience:** Owners, Engineers and Constructors involved in Project Management  
**Date/Revised:**  
**Cost:** $200 to $1500  
**Duration:** 1 - 3 days  
**Offer Date:** To be scheduled  
**Location:** ACE, ASU, Tempe  
**Prereqs:** Design and/or construction experience
### Miscellaneous

<table>
<thead>
<tr>
<th>COURSE</th>
<th>Computer - Aided Drafting I</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Title:</strong></td>
<td>Civil Drafting</td>
</tr>
<tr>
<td><strong>Description:</strong></td>
<td>Topics include: drafting equipment/lettering, municipal and rural maps, drainage, plan views, roadway plan and profile sheets, superelevation, earthwork, drainage structure, right-of-way, mathematical procedures, land development, surveying principles.</td>
</tr>
<tr>
<td><strong>Provider:</strong></td>
<td>Northland Pioneer College</td>
</tr>
<tr>
<td><strong>Contact:</strong></td>
<td>Jim Richmond</td>
</tr>
<tr>
<td><strong>Phone:</strong></td>
<td>(520) 537-2976</td>
</tr>
<tr>
<td><strong>FAX:</strong></td>
<td>(520) 524-2227</td>
</tr>
<tr>
<td><strong>Audience:</strong></td>
<td>Technicians</td>
</tr>
<tr>
<td><strong>Date/Revised:</strong></td>
<td>1995</td>
</tr>
<tr>
<td><strong>Cost:</strong></td>
<td>$20 per credit</td>
</tr>
<tr>
<td><strong>Duration:</strong></td>
<td>Semester</td>
</tr>
<tr>
<td><strong>Offer Date:</strong></td>
<td>To be scheduled</td>
</tr>
<tr>
<td><strong>Location:</strong></td>
<td>Holbrook</td>
</tr>
<tr>
<td><strong>Prereqs:</strong></td>
<td>Technical Drafting I</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>COURSE</th>
<th>Construction CAD Practice</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Title:</strong></td>
<td>Computerized Estimating</td>
</tr>
<tr>
<td><strong>Description:</strong></td>
<td>The evaluation, selection and application of available computerized estimating systems. Topics include: hardware requirements, peripheral options, comparison spreadsheets/data base practice file, key systems capabilities.</td>
</tr>
<tr>
<td><strong>Provider:</strong></td>
<td>Northland Pioneer College</td>
</tr>
<tr>
<td><strong>Contact:</strong></td>
<td>Jim Richmond</td>
</tr>
<tr>
<td><strong>Phone:</strong></td>
<td>(520) 537-2976</td>
</tr>
<tr>
<td><strong>FAX:</strong></td>
<td>(520) 524-2227</td>
</tr>
<tr>
<td><strong>Audience:</strong></td>
<td>Project Managers</td>
</tr>
<tr>
<td><strong>Date/Revised:</strong></td>
<td>1995</td>
</tr>
<tr>
<td><strong>Cost:</strong></td>
<td>$20 per credit</td>
</tr>
<tr>
<td><strong>Duration:</strong></td>
<td>Semester</td>
</tr>
<tr>
<td><strong>Offer Date:</strong></td>
<td>To be scheduled</td>
</tr>
<tr>
<td><strong>Location:</strong></td>
<td>Holbrook</td>
</tr>
<tr>
<td><strong>Prereqs:</strong></td>
<td>High school graduate</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>COURSE</th>
<th>Construction CAD Practice</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Title:</strong></td>
<td>Computer - Aided Drafting I</td>
</tr>
<tr>
<td><strong>Description:</strong></td>
<td>An introduction to the computer as a drafting tool.</td>
</tr>
<tr>
<td><strong>Provider:</strong></td>
<td>Cochise College</td>
</tr>
<tr>
<td><strong>Contact:</strong></td>
<td>Al Walker</td>
</tr>
<tr>
<td><strong>Phone:</strong></td>
<td>(520) 459-9761</td>
</tr>
<tr>
<td><strong>FAX:</strong></td>
<td>(520) 459-9706</td>
</tr>
<tr>
<td><strong>Audience:</strong></td>
<td>Technicians</td>
</tr>
<tr>
<td><strong>Date/Revised:</strong></td>
<td>1995</td>
</tr>
<tr>
<td><strong>Cost:</strong></td>
<td>$26 per credit</td>
</tr>
<tr>
<td><strong>Duration:</strong></td>
<td>Semester</td>
</tr>
<tr>
<td><strong>Offer Date:</strong></td>
<td>To be scheduled</td>
</tr>
<tr>
<td><strong>Location:</strong></td>
<td>Douglas</td>
</tr>
<tr>
<td><strong>Prereqs:</strong></td>
<td>Drafting (Technical Graphics I)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>COURSE</th>
<th>Construction CAD Practice</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Title:</strong></td>
<td>Computerized Estimating</td>
</tr>
<tr>
<td><strong>Description:</strong></td>
<td>The evaluation, selection and application of available computerized estimating systems. Topics include: hardware requirements, peripheral options, comparison spreadsheets/data base practice file, key systems capabilities.</td>
</tr>
<tr>
<td><strong>Provider:</strong></td>
<td>Northland Pioneer College</td>
</tr>
<tr>
<td><strong>Contact:</strong></td>
<td>Jim Richmond</td>
</tr>
<tr>
<td><strong>Phone:</strong></td>
<td>(520) 537-2976</td>
</tr>
<tr>
<td><strong>FAX:</strong></td>
<td>(520) 524-2227</td>
</tr>
<tr>
<td><strong>Audience:</strong></td>
<td>Project Managers</td>
</tr>
<tr>
<td><strong>Date/Revised:</strong></td>
<td>1995</td>
</tr>
<tr>
<td><strong>Cost:</strong></td>
<td>$20 per credit</td>
</tr>
<tr>
<td><strong>Duration:</strong></td>
<td>Semester</td>
</tr>
<tr>
<td><strong>Offer Date:</strong></td>
<td>To be scheduled</td>
</tr>
<tr>
<td><strong>Location:</strong></td>
<td>Holbrook</td>
</tr>
<tr>
<td><strong>Prereqs:</strong></td>
<td>High school graduate</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>COURSE</th>
<th>Construction CAD Practice</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Title:</strong></td>
<td>Construction CAD Practice</td>
</tr>
<tr>
<td><strong>Description:</strong></td>
<td>Theory and practice in application of construction with computer aided design software to construction problems.</td>
</tr>
<tr>
<td><strong>Provider:</strong></td>
<td>Yavapai College</td>
</tr>
<tr>
<td><strong>Contact:</strong></td>
<td>Larry Strom</td>
</tr>
<tr>
<td><strong>Phone:</strong></td>
<td>(520) 776-2357</td>
</tr>
<tr>
<td><strong>FAX:</strong></td>
<td>(520) 776-2209</td>
</tr>
<tr>
<td><strong>Audience:</strong></td>
<td>Technicians</td>
</tr>
<tr>
<td><strong>Date/Revised:</strong></td>
<td>1995</td>
</tr>
<tr>
<td><strong>Cost:</strong></td>
<td>$66</td>
</tr>
<tr>
<td><strong>Duration:</strong></td>
<td>Semester</td>
</tr>
<tr>
<td><strong>Offer Date:</strong></td>
<td>To be scheduled</td>
</tr>
<tr>
<td><strong>Location:</strong></td>
<td>Prescott</td>
</tr>
<tr>
<td><strong>Prereqs:</strong></td>
<td>High school graduate</td>
</tr>
</tbody>
</table>
## Miscellaneous

### COURSE
**Construction Management**

Designed to acquaint students with the skills and knowledge needed to become a construction industry manager.

**Provider:** Yavapai College  
**Contact:** Larry Strom  
**Phone:** (520) 776-2357  
**FAX:** (520) 776-2209  
**Audience:** Foremen

<table>
<thead>
<tr>
<th>Date/Revised:</th>
<th>1995</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cost:</td>
<td>$66</td>
</tr>
<tr>
<td>Duration:</td>
<td>Semester</td>
</tr>
<tr>
<td>Offer Date:</td>
<td>To be scheduled</td>
</tr>
<tr>
<td>Location:</td>
<td>Prescott</td>
</tr>
<tr>
<td>Prereqs:</td>
<td>High school graduate</td>
</tr>
</tbody>
</table>

### COURSE
**Construction Supervision**

Topics include: health and safety regulations, legal responsibilities, communications, human behavior, leadership, fundamentals of supervision, personnel motivation, self-evaluation, personal skills improvements.

**Provider:** Northern Arizona College  
**Contact:** Jim Richmond  
**Phone:** (520) 537-2976  
**FAX:** (520) 524-2227  
**Audience:** Foremen and Construction Managers

<table>
<thead>
<tr>
<th>Date/Revised:</th>
<th>1995</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cost:</td>
<td>$20 per credit</td>
</tr>
<tr>
<td>Duration:</td>
<td>Semester</td>
</tr>
<tr>
<td>Offer Date:</td>
<td>To be scheduled</td>
</tr>
<tr>
<td>Location:</td>
<td>Holbrook</td>
</tr>
<tr>
<td>Prereqs:</td>
<td>High school graduate</td>
</tr>
</tbody>
</table>

### WORKSHOP
**Contract Field Documentation**

This course is for field inspectors and office personnel to properly document all construction contract items.

**Provider:** ADOT Human Resources  
**Contact:** Bob Hall  
**Phone:** (602)255-7613  
**FAX:** (602)256-7648  
**Audience:** Construction office worker

<table>
<thead>
<tr>
<th>Date/Revised:</th>
<th>1995</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cost:</td>
<td>$0</td>
</tr>
<tr>
<td>Duration:</td>
<td>1 day</td>
</tr>
<tr>
<td>Offer Date:</td>
<td>To be scheduled</td>
</tr>
<tr>
<td>Location:</td>
<td>To be scheduled</td>
</tr>
<tr>
<td>Prereqs:</td>
<td>None</td>
</tr>
</tbody>
</table>

### COURSE
**Descriptive Geometry**

Studies lines, planes, successive auxiliary views, piercing points, intersection of planes, angles between planes, concurrent vectors, developments and map projections.

**Provider:** Eastern Arizona College  
**Contact:** Bill Karlainsey  
**Phone:** (520) 428-8430  
**FAX:** (520) 428-8462  
**Audience:** Technicians

<table>
<thead>
<tr>
<th>Date/Revised:</th>
<th>1995</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cost:</td>
<td>$44</td>
</tr>
<tr>
<td>Duration:</td>
<td>Semester</td>
</tr>
<tr>
<td>Offer Date:</td>
<td>To be scheduled</td>
</tr>
<tr>
<td>Location:</td>
<td>Thatcher</td>
</tr>
<tr>
<td>Prereqs:</td>
<td>Principle of Drafting</td>
</tr>
</tbody>
</table>
COURSE
Drafting (Technical Graphics I)

Introductory course in technical drafting including orthographic and axonometric construction, sketching, lettering, dimensioning, section conventions, with emphasis on drafting standards.

Provider: Cochise College
Contact: Al Walker
Phone: (520) 459-9761
FAX: (520) 459-9706
Audience: Technicians
Date/Revised: 1995
Cost: $26 per credit
Duration: Semester
Offer Date: To be scheduled
Location: Douglas
Prereqs: High school graduate

COURSE
Drafting (Technical Graphics II)

Study of auxiliary and oblique surfaces, intersections, detailing standards, fasteners, materials, and dimensioning with elements of descriptive geometry stressed.

Provider: Cochise College
Contact: Al Walker
Phone: (520) 459-9761
FAX: (520) 459-9706
Audience: Technicians
Date/Revised: 1995
Cost: $26 per credit
Duration: Semester
Offer Date: To be scheduled
Location: Douglas
Prereqs: Drafting (Technical Graphics I)

COURSE
Engineering Design and Graphics I

The elements of engineering design, descriptive geometry, nomographs, graphical calculations, simplified drafting, and technical sketching.

Provider: Central Arizona College
Contact: Ed Peters
Phone: (520) 426-4310
FAX: (520) 426-4234
Audience: Technicians
Date/Revised: 1995
Cost: $25 per credit
Duration: Semester
Offer Date: To be scheduled
Location: Coolidge
Prereqs: High school graduate

COURSE
Engineering Drafting

Elements of engineering drawing, orthographic projection, sections, auxiliary views, dimensioning and tolerancing.

Provider: Eastern Arizona College
Contact: Bill Karlainsey
Phone: (520) 428-8430
FAX: (520) 428-8462
Audience: Technicians
Date/Revised: 1995
Cost: $44
Duration: Semester
Offer Date: To be scheduled
Location: Thatcher
Prereqs: High school graduate
## COURSE
### Engineering Graphics
Studies lines, planes, successive auxiliary views, piercing points, intersection of planes, angle between planes, concurrent vectors, developments, and map projections.

**Provider:** Eastern Arizona College  
**Contact:** Bill Karlainsey  
**Phone:** (520) 428-8430  
**FAX:** (520) 428-8462  
**Audience:** Technicians  
**Date/Revised:** 1995  
**Cost:** $44  
**Duration:** Semester  
**Offer Date:** To be scheduled  
**Location:** Thatcher  
**Prereqs:** Engineering Drafting

### Estimating Construction
Techniques and procedure of contract interpretation; material selection; labor and time estimation.

**Provider:** Cochise College  
**Contact:** Al Walker  
**Phone:** (520) 459-9761  
**FAX:** (520) 459-9706  
**Audience:** Construction Managers  
**Date/Revised:** 1995  
**Cost:** $26 per credit  
**Duration:** Semester  
**Offer Date:** To be scheduled  
**Location:** Douglas  
**Prereqs:** Technical Math I and Drafting I

## COURSE
### Estimating II
Estimating materials, labor, and other costs for bids. Topics include: estimating resource book, take offs, material costs, direct labor costs, labor burden, equipment rate costs, other direct costs, contingency, escalation, bid formats, bid procedures.

**Provider:** Northland Pioneer College  
**Contact:** Jim Richmond  
**Phone:** (520) 537-2976  
**FAX:** (520) 524-2227  
**Audience:** Project Supervisors and Managers  
**Date/Revised:** 1995  
**Cost:** $20 per credit  
**Duration:** Semester  
**Offer Date:** To be scheduled  
**Location:** Holbrook  
**Prereqs:** High school graduate

## WORKSHOP
### FHWA Demo: GIS/Video Imagery Applications
This two-day FHWA demonstration project will show state of the art GIS and video imagery systems with hands-on classroom demos of GIS software & workstations, laser videodisc software & workstations and a van equipped with an electronic video camera.

**Provider:** Arizona Technology Transfer Program  
**Contact:** John Hopkins, Manager  
**Phone:** (602)965-2744  
**FAX:** (602)965-2728  
**Audience:** Engineers, Technicians, Administrators  
**Date/Revised:** 1994  
**Cost:** $0  
**Duration:** 1 day  
**Offer Date:** To be scheduled  
**Location:** To be scheduled  
**Prereqs:** None
WORKSHOP
First-On Scene Hazardous Materials Training

This course explains and teaches the importance of identification and isolation in a hazardous materials incident. Also, how to protect people and environment at the site of an incident.

Provider: ADOT Human Resources
Contact: Bob Hall
Phone: (602)255-7613
FAX: (602)256-7648
Audience: Technicians
Date/Revised: 1995
Cost: $0
Duration: 1 day
Offer Date: To be scheduled
Location: Statewide
Prereqs: None

WORKSHOP
Force Account Documentation & Administration

This course is designed to help both field inspectors and office personnel to properly document construction force account work. Topics include proper reporting documents and administration requirements.

Provider: ADOT Human Resources
Contact: Bob Hall
Phone: (602)255-7613
FAX: (602)256-7648
Audience: Field Inspectors, Construction office workers
Date/Revised: 1995
Cost: $0
Duration: 1 day
Offer Date: To be scheduled
Location: Statewide
Prereqs: None

COURSE
Intro to AutoCAD

Students will gain hands-on experience using AutoCAD micro based software, microcomputers, input/pointing devices such as a mice and output devices such as the pen plotter.

Provider: Eastern Arizona College
Contact: Bill Karlainsey
Phone: (520) 428-8430
FAX: (520) 428-8462
Audience: Technicians
Date/Revised: 1995
Cost: $44
Duration: Semester
Offer Date: To be scheduled
Location: Thatcher
Prereqs: Principle of Drafting

COURSE
Introduction to Languages of Engineering

Computer programming using a scientific computer language (FORTRAN or C), freehand drawing, visualization and computer graphics.

Provider: Central Arizona College
Contact: Ed Peters
Phone: (520) 426-4310
FAX: (520) 426-4234
Audience: Technicians
Date/Revised: 1995
Cost: $25 per credit
Duration: Semester
Offer Date: To be scheduled
Location: Coolidge
Prereqs: Introductory Algebra
Miscellaneous

COURSE
Introduction to Computer-Aided Drafting

The course provides the student with an overview of systems, file management, hardware, and program structure using the VersaCAD software.

Provider: Arizona Western College
Contact: Gonzalo Huerta
Phone: (520) 344-7567
FAX: (520) 344-7730
Audience: Technicians
Date/Revised: 1995
Cost: $25 per credit
Duration: Semester
Offer Date: To be scheduled
Location: Yuma
Prereqs: Basic Drafting courses

COURSE
Introduction to Computer-Aided Engineering

Computer-aided analysis and design, computer graphics, modeling, optimization and graphic documentation.

Provider: Central Arizona College
Contact: Ed Peters
Phone: (520) 426-4310
FAX: (520) 426-4234
Audience: Technicians
Date/Revised: 1995
Cost: $25 per credit
Duration: Semester
Offer Date: To be scheduled
Location: Coolidge
Prereqs: Introduction to Languages of Engineering

COURSE
Introduction to Engineering

Introduction to the fundamental concepts and techniques encountered in the practice of the engineering profession.

Provider: Central Arizona College
Contact: Ed Peters
Phone: (520) 426-4310
FAX: (520) 426-4234
Audience: Technicians
Date/Revised: 1995
Cost: $25 per credit
Duration: Semester
Offer Date: To be scheduled
Location: Coolidge
Prereqs: High school graduate

COURSE
Introduction to Engineering Design


Provider: Yavapai College
Contact: Larry Strom
Phone: (520) 776-2357
FAX: (520) 776-2209
Audience: Technicians
Date/Revised: 1995
Cost: $66
Duration: Semester
Offer Date: To be scheduled
Location: Prescott
Prereqs: Precalculus Math
## Miscellaneous

### WORKSHOP

**Introduction to Metrics**

This workshop will demonstrate basic calculations using metric units. The course is for personnel involved in preparing for the conversion of all measurements to the metric system. This will be practical training for field operational persons.

| Provider: | CATSR/Technology Transfer |
| Contact: | John Hopkins, Manager |
| Phone: | (602)965-2744 |
| FAX: | (602)965-2728 |
| Audience: | Field personnel |
| Date/Revised: | 1995 |
| Cost: | $35 |
| Duration: | 1 day |
| Offer Date: | To be scheduled |
| Location: | To be scheduled |
| Prereqs: | Basic mathematics |

### WORKSHOP

**Maintenance Mathematics**

Basic mathematics for maintenance personnel.

| Provider: | ADOT Human Resources |
| Contact: | Bob Hall |
| Phone: | (602)255-7613 |
| FAX: | (602)256-7648 |
| Audience: | Maintenance personnel |
| Date/Revised: | 1991 |
| Cost: | $0 |
| Duration: | 1 day |
| Offer Date: | To be scheduled |
| Location: | To be scheduled |
| Prereqs: | None |

### COURSE

**Map Drafting**

Studies basic elements of map drafting including symbols, plotting contour lines, grid maps, elevation and profiles, closed and open traverse.

| Provider: | Eastern Arizona College |
| Contact: | Bill Karlainsey |
| Phone: | (520) 428-8430 |
| FAX: | (520) 428-8462 |
| Audience: | Technicians |
| Date/Revised: | 1995 |
| Cost: | $44 |
| Duration: | Semester |
| Offer Date: | To be scheduled |
| Location: | Thatcher |
| Prereqs: | Principles of Drafting |

### COURSE

**Materials of Construction**

The properties of common materials used on construction with emphasis on materials under stress, qualities of materials, and uses of materials.

| Provider: | Yavapai College |
| Contact: | Larry Strom |
| Phone: | (520) 776-2357 |
| FAX: | (520) 776-2209 |
| Audience: | Technicians |
| Date/Revised: | 1995 |
| Cost: | $66 |
| Duration: | Semester |
| Offer Date: | To be scheduled |
| Location: | Prescott |
| Prereqs: | High school graduate |
### WORKSHOP
**Metrification**

This workshop will give a timetable and an overview of the new guidelines. A 3" binder of excellent resource and reference material will be distributed as the course material.

- **Provider:** Arizona Technology Transfer Program
- **Contact:** John Hopkins, Manager
- **Phone:** (602)965-2744
- **FAX:** (602)965-2728
- **Audience:** Engineers, Design Technicians
- **Date/Revised:** 1994
- **Cost:** $55
- **Duration:** 1 day
- **Offer Date:** To be scheduled
- **Location:** To be scheduled
- **Prereqs:** Basic mathematics

### COURSE
**OSHA Health and Safety Training**

This course is taught in various short courses. 40 hour OSHA Hazardous materials health and safety training, hazardous materials manager and supervisor training and 8 hour hazardous materials annual update are included.

- **Provider:** ASETT Center
- **Contact:**
- **Phone:** (520)722-7872
- **FAX:** (520)722-7825
- **Audience:** Engineers, Technicians
- **Date/Revised:** 1995
- **Cost:** $90 to $480
- **Duration:** 1 day
- **Offer Date:** To be scheduled
- **Location:** Tucson
- **Prereqs:** None

### COURSE
**Plane Surveying**

Principles and practices of general surveying, chaining, leveling, stadia, and extensive field work using leveling and EDM.

- **Provider:** Eastern Arizona College
- **Contact:** Bill Karlainsey
- **Phone:** (520) 428-8430
- **FAX:** (520) 428-8462
- **Audience:** Technicians
- **Date/Revised:** 1995
- **Cost:** $44
- **Duration:** Semester
- **Offer Date:** To be scheduled
- **Location:** Thatcher
- **Prereqs:** Plane Trigonometry

### COURSE
**Plane Surveying**

Theory and field work in land surveys and basic mapping.

- **Provider:** Yavapai College
- **Contact:** Larry Strom
- **Phone:** (520) 776-2357
- **FAX:** (520) 776-2209
- **Audience:** Technicians
- **Date/Revised:** 1995
- **Cost:** $66
- **Duration:** Semester
- **Offer Date:** To be scheduled
- **Location:** Prescott
- **Prereqs:** High school graduate
### COURSE
#### Plane Surveying (Drafting)
Fundamentals of plane surveying; theory use and adjustment of the tapes, engineer's level, compass, and transit. The application of surveying methods to problems of leveling, line direction, measurement of distance, and transverse computation.

**Provider:** Arizona Western College  
**Contact:** Gonzalo Huerta  
**Phone:** (520) 344-7567  
**FAX:** (520) 344-7730  
**Audience:** Technicians  
**Date/Revised:** 1995  
**Cost:** $26 per credit  
**Duration:** Semester  
**Offer Date:** To be scheduled  
**Location:** Yuma  
**Prereqs:** High school graduate

### COURSE
#### Plane Surveying (Engineering)
Surveying instruments and basic procedure including error analysis, note keeping, measurement of distance, elevation and angles with appropriate precision, traversing, stadia, and topographic mapping.

**Provider:** Arizona Western College  
**Contact:** Gonzalo Huerta  
**Phone:** (520) 344-7567  
**FAX:** (520) 344-7730  
**Audience:** Technicians  
**Date/Revised:** 1995  
**Cost:** $26 per credit  
**Duration:** Semester  
**Offer Date:** To be scheduled  
**Location:** Yuma  
**Prereqs:** College Algebra and Trigonometry

### WORKSHOP
#### Preparing Plans and Specs in Metrics
The workshop is intended for personnel involved with design who will need to use the new metric units.

**Provider:** CATSR/Technology Transfer  
**Contact:** John Hopkins, Manager  
**Phone:** (602)965-2744  
**FAX:** (602)965-2728  
**Audience:** Design Engineers and Technicians  
**Date/Revised:** 1995  
**Cost:** $35  
**Duration:** 1 day  
**Offer Date:** To be scheduled  
**Location:** To be scheduled  
**Prereqs:** Basic mathematics, Plans preparation

### COURSE
#### Principles of Drafting
A basic study of drafting which includes orthographic projection, lettering, section and auxiliary views, dimensioning, threads, and fasteners.

**Provider:** Central Arizona College  
**Contact:** Ed Peters  
**Phone:** (520) 426-4310  
**FAX:** (520) 426-4234  
**Audience:** Technicians  
**Date/Revised:** 1995  
**Cost:** $25 per credit  
**Duration:** Semester  
**Offer Date:** To be scheduled  
**Location:** Coolidge  
**Prereqs:** High school graduate
Miscellaneous

COURSE
Principles of Drafting
Course content included use of drafting equipment, drafting techniques, lettering, geometric construction, multiview and isometric drawings, sectional and auxiliary views, basic dimensioning.

Provider: Eastern Arizona College
Contact: Bill Karlainsey
Phone: (520) 428-8430
FAX: (520) 428-8462
Audience: Technicians
Date/Revised: 1995
Cost: $44
Duration: Semester
Offer Date: To be scheduled
Location: Thatcher
Prereqs: High school graduate

COURSE
Structural Drafting
Studies basic elements of structural drafting including symbols, dimensional design and detail drawings of steel, concrete, and wood structures.

Provider: Eastern Arizona College
Contact: Bill Karlainsey
Phone: (520) 428-8430
FAX: (520) 428-8462
Audience: Technicians
Date/Revised: 1995
Cost: $44
Duration: Semester
Offer Date: To be scheduled
Location: Thatcher
Prereqs: Principles of Drafting

COURSE
Surveying I
Topics include: history and definitions of surveying, theory of measurements and errors, field notes, distance measurements; taping, electronic distance measurement, leveling-theory, angles, bearings and azimuths, the compass, traversing.

Provider: Northland Pioneer College
Contact: Jim Richmond
Phone: (520) 537-2976
FAX: (520) 524-2227
Audience: Technicians
Date/Revised: 1995
Cost: $26 per credit
Duration: Semester
Offer Date: To be scheduled
Location: Holbrook
Prereqs: High school graduate

COURSE
Surveying II
Topics include: stadia, topographic mapping, the plane table, adjustment of instruments, determination of meridian, photogrammetry, boundary surveys, surveys of public lands, construction surveys, circular curves, parabolic curves, volumes.

Provider: Northland Pioneer College
Contact: Jim Richmond
Phone: (520) 537-2976
FAX: (520) 524-2227
Audience: Technicians
Date/Revised: 1995
Cost: $26 per credit
Duration: Semester
Offer Date: To be scheduled
Location: Holbrook
Prereqs: Surveying I and Trigonometry
### COURSE
#### Surveying III
The use of programmable calculators and computer programs for surveying problems. Topics includes: setting and adjustments, organization of the keyboard and display, stack and command line, objects, calculator memory, solving surveying problems.

**Provider:** Northland Pioneer College  
**Contact:** Jim Richmond  
**Phone:** (520) 537-2976  
**FAX:** (520) 524-2227  
**Audience:** Technicians  
**Date/Revised:** 1995  
**Cost:** $26 per credit  
**Duration:** Semester  
**Offer Date:** To be scheduled  
**Location:** Holbrook  
**Prereqs:** Surveying II

### COURSE
#### Technical Mathematics II
A comprehensive study of trigonometry as applied to electronics and drafting situations.

**Provider:** Cochise College  
**Contact:** Al Walker  
**Phone:** (520) 459-9761  
**FAX:** (520) 459-9706  
**Audience:** Technicians  
**Date/Revised:** 1995  
**Cost:** $26 per credit  
**Duration:** Semester  
**Offer Date:** To be scheduled  
**Location:** Douglas  
**Prereqs:** Technical Mathematics I

### COURSE
#### Technical Drafting I
Basic skills for technical drafting. Topics include: Language of industry, drafting skills, drafting office practices, theory of shape description, applied geometry, basic dimensioning.

**Provider:** Northland Pioneer College  
**Contact:** Jim Richmond  
**Phone:** (520) 537-2976  
**FAX:** (520) 524-2227  
**Audience:** Technicians  
**Date/Revised:** 1995  
**Cost:** $20 per credit  
**Duration:** Semester  
**Offer Date:** To be scheduled  
**Location:** Holbrook  
**Prereqs:** High school graduate

### WORKSHOP
#### Technical Mathematics
Basic Technical mathematics for the engineer and technician.

**Provider:** ADOT Human Resources  
**Contact:** Bob Hall  
**Phone:** (602) 255-7613  
**FAX:** (602) 256-7648  
**Audience:** Engineers, Technicians  
**Date/Revised:** 1991  
**Cost:** $0  
**Duration:** 1 day  
**Offer Date:** To be scheduled  
**Location:** To be scheduled  
**Prereqs:** None
Miscellaneous

COURSE
Technical Mathematics I

A review of arithmetic and the study of fundamentals of algebra and geometry applied to practical problems of the drafting room, machine shop and engineering.

Provider: Cochise College
Contact: Al Walker
Phone: (520) 459-9761
FAX: (520) 459-9706
Audience: Technicians

Date/Revised: 1995
Cost: $26 per credit
Duration: Semester
Offer Date: To be scheduled
Location: Douglas
Prereqs: High school graduate
III. VIDEOCASSETTES AND CD-ROMS

ROAD SURFACE AND SUBSTRUCTURE III-1
DRAINAGE AND ROADSIDE MANAGEMENT III-13
STRUCTURES: BRIDGES, ETC. III-15
ROAD MAINTENANCE III-18
CONSTRUCTION VEHICLE MAINTENANCE AND USE III-23
TRANSIT AND OTHER MODES III-31
SAFETY (OF TRANSPORTATION WORKERS AND TRAVELERS) III-33
TRAFFIC CONTROL III-38
ENVIRONMENTAL QUALITY AND WEATHER III-42
COMPUTER METHODS III-47
MANAGEMENT SYSTEMS III-48
TRANSPORTATION ADMINISTRATION AND PLANNING III-51
LIABILITY AND OTHER LEGAL CONCERNS III-52
MISCELLANEOUS III-55
Road Surface And Substructure

Alkali-Silica Testing
Descriptors: CONCRETE ALKALI SILICA
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: SHRP  V-2018
Date Entered: 8/29/94  Length: 20:00

Amoco - Fibers and Fabrics, Parts I - V
Descriptors: GEOTEXTILES
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: UVS Dist.  V-9001
Date Entered: 11/17/93  Length: 32:00

Asphalt Crack Treatment: Helpful Information for the Road
Descriptors:
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: MN LRRB  V-1038
Date Entered: 6/17/93  Length: 15:00

Asphalt Emulsion Spray Application
Descriptors:
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: The Asphalt Institute  V-1027
Date Entered: 8/5/92  Length: 23:00

Asphalt Paving Inspection
A concise overview of the asphalt paving process.
Descriptors: ASPHALT INSPECTION
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: UDOT  V-1012
Date Entered: 2/7/92  Length: 29:00

Covers the different types of plants, inspections, and sampling and testing of asphalt.

Asphalt Recycling in Minnesota
Descriptors: ASPHALT BITUMINOUS RECYCLING
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: MinnDOT  V-1008
Date Entered: 8/21/91  Length: 24:00

Bituminous Concrete Paving
Parts 1, 2, and 3
Descriptors:
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: WSDOT  V-1021
Date Entered: 3/19/92  Length: 46:00

Bituminous Plant Inspection
Descriptors:
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: WSDOT  V-1005
Date Entered: 8/21/91  Length: 37:00
Road Surface And Substructure

Bituminous Seal Coat, Part 1 and 2

Descriptors: BITUMINOUS SEAL

Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: UDOT V-1010
Date Entered: 8/21/91 Length: 29:00

Bituminous Seal Coats
Covers materials, equipment, traffic control and work method
Descriptors: ASPHALT SEAL COATS BITUMINOUS
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: WSDOT V-1001
Date Entered: 8/21/91 Length: 16:00

Bituminous Surface Replacement
Procedures for repairing alligator cracks by replacement.
Descriptors: ASPHALT BITUMINOUS SURFACE PAVEMENT
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: UDOT V-1015
Date Entered: 2/28/92 Length: 8:30

Blading Unpaved Roads
Basic procedure on how to maintain granular roads.
Descriptors: MAINTENANCE GRAVEL ROADS BLADING
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: FHWA/NACE V-3000
Date Entered: 8/21/91 Length: 22:00
Shows use of motor grader supplemented by a drag, as needed.

Bridge Deck Overlays

Descriptors: CONCRETE BRIDGE REPAIR PAVEMENT
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: SHRP V-2017
Date Entered: 8/29/94 Length: 19:00

Cold In-place Recycling

Descriptors: ASPHALT RECYCLING COLD
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: Oregon DOT V-1003
Date Entered: 8/21/91 Length: 40:00
Includes data collection and testing before and after operation.

Cold In-place Recycling

Descriptors: ASPHALT RECYCLING COLD
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: ARRA V-1002
Date Entered: 8/21/91 Length: 10:00
Road Surface And Substructure

Cold In-place Recycling: Arizona Pavement Profiling
Descriptors: ASPHALT RECYCLING COLD
Contact: Mr. John Hopkins TEL: (602)965-2744 Publisher: V-1004
Date Entered: 8/21/91 Length: 14:00

Cold Planing Revolution, The
Descriptors: BITUMINOUS PLANING
Contact: Mr. John Hopkins TEL: (602)965-2744 Publisher: ARRA V-1011
Date Entered: 8/21/91 Length: 6:00

Cold Process Asphalt Renovation and Base Stabilization
Covers inexpensive cold recycling procedures.
Descriptors: ASPHALT BASE RENOVATION RECYCLE STABILIZATION
Contact: Mr. John Hopkins TEL: (602)965-2744 Publisher: E/S Allison Associates V-1013
Date Entered: 2/7/92 Length: 17:00
Low-volume roads in Ocean Shores, Washington.

Concrete Pavement Overlay I-80 California at Donner Pass
Discussion of impact of increased traffic loads.
Descriptors: CONCRETE WINTER WEAR
Contact: Mr. John Hopkins TEL: (602)965-2744 Publisher: PCA V-2003
Date Entered: 2/7/92 Length: 15:00
Existing concrete was damaged and subsequently replaced with a new 8-inch PCC pavement.

Concrete Pavement Overlays
Descriptors: CONCRETE PAVEMENT OVERLAY
Contact: Mr. John Hopkins TEL: (602)965-2744 Publisher: SHRP V-2016
Date Entered: 8/29/94 Length: 22:00

Crack Repair in Asphalt Pavement
Descriptors: MAINTENANCE CRACK REPAIR ASPHALT PAVEMENT
Contact: Mr. John Hopkins TEL: (602)965-2744 Publisher: IRF V-1030
Date Entered: 6/9/92 Length: 11:48

Detecting Flawed and Nonstandard Concrete
Descriptors: 
Contact: Mr. John Hopkins TEL: (602)965-2744 Publisher: Virginia TRB V-2006
Date Entered: 3/19/92 Length: 27:15

Drum Mixer Plant Maintenance
Overview of Drum Mixer Plant.
Descriptors: CONCRETE DRUM-MIX
Contact: Mr. John Hopkins TEL: (602)965-2744 Publisher: Video University Productions V-2010
Date Entered: 7/11/94 Length: 60:00
Road Surface And Substructure

E-Z Pour Diesel Melter/Applicator - Video Manual
Descriptors: PRODUCT ASPHALT
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: Crafo, Inc.  V-9000
Date Entered: 11/17/93    Length: 23:00

Early Opening of Full-Depth Concrete Repairs
Descriptors: CONCRETE PAVEMENT REPAIR EARLY
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: SHRP  V-2021
Date Entered: 8/29/94    Length: 10:00

Effects of Load Distribution of Pavement Fatigue
Descriptors:
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: MinnDOT  V-1031
Date Entered: 11/4/92    Length: 30:00

Embankment Compaction Control
Descriptors:
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: FHWA  V-5406
Date Entered: 4/21/92    Length: 15:00

ERES Soil Stabilization: Selecting the Modifier
Discusses selection of soil stabilizers.
Descriptors: SOIL STABILIZATION
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: FHWA/ERES  V-5408
Date Entered: 6/3/94    Length: 20:00
Discusses qualities and benefits of flyash, cement, asphalt, and cement flyash stabilizers.

Field Testing Concrete
Descriptors: CONCRETE TESTING
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: WSDOT  V-2000
Date Entered: 8/21/91    Length: 34:00

Erosion Control for Water Protection
Descriptors:
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: Maine T2 Center  V-5407
Date Entered: 11/24/92    Length: 23:30

Field Testing for Quality Control in Fresh Concrete
Descriptors: CONCRETE TESTING QUALITY
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: PCA  V-2001
Date Entered: 8/21/91    Length: 59:00
Road Surface And Substructure

Finishing and Curing Concrete

Descriptors: CONCRETE FINISHING CURING
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: PCA  V-2002
Date Entered: 8/21/91  Length: 30:00

Flowable Fill

Descriptors: CONCRETE
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: Fordyce Concrete Co.  V-2008
Date Entered: 5/25/93  Length: 15:00

Freeze-Thaw Testing

Descriptors: CONCRETE SAMPLE TESTING
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: SHRP  V-2019
Date Entered: 8/29/94  Length: 25:00

Frost Action in Soils

Descriptors:
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: USACRREL  V-5404
Date Entered: 3/19/92  Length: 15:00

Full-Depth Repair of Jointed Concrete Pavement

Descriptors: CONCRETE PAVEMENT REPAIR
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: SHRP  V-2020
Date Entered: 8/29/94  Length: 18:00

Geotextile Installation on Gravel Roads

Covers basic installation techniques for geotextiles.
Descriptors: GEOTEXTILE RURAL ROADS GRAVEL
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: OK T2 Center  V-3001
Date Entered: 6/6/94  Length: 43:00
Starring John Hopkins

GSB Emulsions

Descriptors: BITUMINOUS EMULSIONS
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: Entac Northeast Inc.  V-1009
Date Entered: 8/21/91  Length: 12:00

Here's How A Hot Mix Plant Works

Description of an Asphalt Hot Mix Plant.
Descriptors: ASPHALT HOT-MIX PLANT OPERATIONS
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: Video University Productions  V-1044
Date Entered: 7/11/94  Length: 55:00
Road Surface And Substructure

Hot Mix Recycling Techniques for Pavement Rehabilitation

Descriptors:

Contact: Mr. John Hopkins  TEL: (602)965-2744  
Publisher: Virginia TRB  V-1022
Date Entered: 3/19/92  Length: 59:00

How Pavements Are Affected By Axle Loads

Descriptors:  PAVEMENT FATIGUE CAUSES

Contact: Mr. John Hopkins  TEL: (602)965-2744  
Publisher: MinnDOT  V-1032
Date Entered: 8/21/91  Length: 16:00

Hydrated Lime: Key to Improved Asphalt Pavements

Descriptors:

Contact: Mr. John Hopkins  TEL: (602)965-2744  
Publisher: National Lime Association  V-1040
Date Entered: 6/18/93  Length: 21:00

Impact of Truck Size and Weight on Highway Pavements and Bridges

Descriptors:

Contact: Mr. John Hopkins  TEL: (602)965-2744  
Publisher: FHWA  V-1033
Date Entered: 8/21/91  Length: 30:30
Shows the effect of overweight vehicles on bridge and pavement life.

Inlay Patching with a Small and Large Cold Planer

Descriptors:

Contact: Mr. John Hopkins  TEL: (602)965-2744  
Publisher:  V-1034
Date Entered: 1/14/93  Length: 33:00

Introduction to Rehabilitation of Highway Concrete

Descriptors:  CONCRETE TESTING

Contact: Mr. John Hopkins  TEL: (602)965-2744  
Publisher: SHRP  V-2011
Date Entered: 8/29/94  Length: 10:00

Joint Sealing in PCC

Descriptors:  JOINT SEAL PCC CONCRETE MAINTENANCE

Contact: Mr. John Hopkins  TEL: (602)965-2744  
Publisher: UDOT  V-2007
Date Entered: 7/2/92  Length: 10:00

Lane Leveling Bituminous Surface; Bituminous Surface Replacement

Descriptors:

Contact: Mr. John Hopkins  TEL: (602)965-2744  
Publisher: UDOT  V-1024
Date Entered: 11/4/92  Length: 20:00
Road Surface And Substructure

Lime, The Versatile Stabilizer in Construction
Discusses the uses of lime.
Descriptors: LIME SOIL STABILIZATION CONSTRUCTION
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: National Lime Association  V-5400
Date Entered: 8/21/91  Length: 26:00
Stabilization of sub-grade, history, advantages, uses, process for making and how to use lime in the construction process.

Maintain Non-Hard Surfaces
Descriptors:
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: UDOT  V-3004
Date Entered: 7/30/92  Length: 9:00

Maintaining Granular Surfaced Roads
Covers basic procedures on maintenance with motor patrol.
Descriptors: GRAVEL ROAD MAINTENANCE
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: Iowa DOT  V-3002
Date Entered: 8/21/91  Length: 20:00

Marshall Method for Hot Mix Paving Design, The
Descriptors: ASPHALT CONCRETE DESIGN MARSHALL
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: The Asphalt Institute  V-1007
Date Entered: 8/21/91  Length: 19:00

Liquid Surface Treatments
Descriptors:
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher:  V-1006
Date Entered: 8/21/91  Length: 27:00

Maintaining Asphalt Roads: Blade Patching
Descriptors: ROAD REPAIR
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: NM DOT  V-1037
Date Entered: 6/17/93  Length: 12:00

Maintaining Gravel Roads in Arkansas
Descriptors:
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: University of Arkansas  V-3006
Date Entered: 11/4/92  Length: 29:00

Open Graded Base Course - The Wisconsin Experience
Descriptors:
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher:  V-1028
Date Entered: 11/24/92  Length: 12:00
Road Surface And Substructure

Partial Depth Repair of Concrete Pavement

Descriptors: CONCRETE PAVEMENT REPAIR
            SPALL
Contact: Mr. John Hopkins   TEL: (602)965-2744
Publisher: SHRP              V-2022
Date Entered: 8/29/94      Length: 15:00

Paving Techniques

Proper paving techniques demonstrated.

Descriptors: ASPHALT PAVING

Contact: Mr. John Hopkins   TEL: (602)965-2744
Publisher: Video University Productions   V-1042
Date Entered: 7/11/94      Length: 37:00

Boring lecture format, poor quality of material

Portabatch - Soil and Lime Stabilization

Descriptors: LIME SOIL STABILIZATION

Contact: Mr. John Hopkins   TEL: (602)965-2744
Publisher: V-5402
Date Entered: 3/13/92      Length: 10:00

Pavement Mixture Design

Taped from the 32nd Bituminous Paving Conference.

Descriptors: ASPHALT PAVEMENT DESIGN
            MIXTURE
Contact: Mr. John Hopkins   TEL: (602)965-2744
Publisher: MinnDOT          V-1014
Date Entered: 2/21/92      Length: 79:00

Covers generic design procedures as well as different types of pavement distresses. Both Marshall and Hveem methods are covered.

Permanent Asphalt Repair with the THERMO-LAY Hot Asphalt Paving Machine

Descriptors: PRODUCT ASPHALT HOT-MIX
            MACHINE
Contact: Mr. John Hopkins   TEL: (602)965-2744
Publisher: THERMO-LAY, INC.   V-9003
Date Entered: 6/13/94      Length: 34:00

Portland Cement Concrete Plant Inspection - Truck Mix Plants

Descriptors: CONCRETE DRUM-MIX PLANTS
            INSPECTION
Contact: Mr. John Hopkins   TEL: (602)965-2744
Publisher: Video University Productions   V-2009
Date Entered: 7/11/94      Length: 27:00
Road Surface And Substructure

Prevention of Rutting and Stripping in Asphalt Pavements
Discussion on the causes on rutting and stripping.
Descriptors: ASPHALT TESTING DESIGN CONSTRUCTION
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: FHWA V-1018
Date Entered: 2/28/92 Length: 21:38
Covers design, construction and testing procedures for the prevention of these types of pavement distress.

Principles of Quality Concrete
Discussion of all phases of achieving high strength concrete.
Descriptors: CONCRETE PCC CEMENT QUALITY
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: PCA V-2004
Date Entered: 2/28/92 Length: 36:00

Quality Control of Concrete - On Site, Part 1
Descriptors: CONCRETE TESTING
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: SHRP V-2012
Date Entered: 8/29/94 Length: 14:00

Quality Control of Concrete - On Site, Part 2
Descriptors: CONCRETE TESTING
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: SHRP V-2013
Date Entered: 8/29/94 Length: 17:00

Quality Control of Concrete - On Site, Part 3
Descriptors: CONCRETE TESTING
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: SHRP V-2014
Date Entered: 8/29/94 Length: 18:00

Quality Control of Concrete - On Site, Part 4
Descriptors: CONCRETE TESTING
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: SHRP V-2015
Date Entered: 8/29/94 Length: 18:00

Recycling Asphalt Pavements
Descriptors: ASPHALT PAVEMENT RECYCLING
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: NAPA V-1016
Date Entered: 2/28/92 Length: 22:00
Covers hot and cold asphalt recycling techniques.

Recycling Procedures
Includes the advantages and disadvantages as well as the limitations of hot recycling.
Descriptors: ASPHALT RECYCLING HOT COLD PROCEDURE
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: Montana State University V-1019
Date Entered: 3/6/92 Length: 35:00
# Road Surface And Substructure

## Recycling Roads with Asphalt Emulsions

Overview of recycling techniques.

Descriptors: ASPHALT RECYCLING EMULSION

Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: The Asphalt Institute  V-1017

Date Entered: 2/28/92  Length: 20:00

Covers in place and central plant mixing methods as well as a variety of equipment.

## Rolling and Compaction of Asphalt Pavements

Descriptors:

Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: The Asphalt Institute  V-1000

Date Entered: 8/21/91  Length: 20:00

## Rural Roads: A New Approach

Descriptors: DESCRIPTION OF DIFFERENT RURAL ROAD PROJECTS

Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: Montana State University  V-3007

Date Entered: 11/4/92  Length: 27:00

## Sealing Cracks; Crack Sealer and Tar Pot Operation and PM-A

Descriptors:

Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: UDOT  V-1025

Date Entered: 8/5/92  Length: 7:00

## Relationship of Asphalt Mix Design to Performance

Descriptors:

Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: Virginia TRB  V-1029

Date Entered: 3/19/92  Length: 14:00

## Rolling Plant Mix

Descriptors:

Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher:  V-1026

Date Entered: 8/5/92  Length: 12:00

## Save That Road - Chipsealing with Asphalt

Procedures for proper chipsealing on asphalt pavements.

Descriptors: ASPHALT CHIPSEAL

Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: OK DOT  V-1041

Date Entered: 6/13/94  Length: 37:00

## Single and Multiple Surface Treatments

Descriptors:

Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: IRF  V-1023

Date Entered: 6/9/92  Length: 14:17
Road Surface And Substructure

Small Cold Planer Inlay Patching

Descriptors:

Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: Oregon DOT  V-1035
Date Entered: 1/14/93  Length: 17:00

Special Hot Mixes, SMA-ATPB-Rubberized

Descriptors: ASPHALT RUBBER SMA ATPB

Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: Video University Productions  V-1045
Date Entered: 7/11/94  Length: 46:00

Stabilization for Low-Volume Roads

Descriptors: STABILIZE LOW VOLUME ROAD

Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: ARTBA  V-5401
Date Entered: 3/13/92  Length: 11:00

Stabilization: Holding the Road

Descriptors: SOIL STABILIZATION

Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: Iowa State University  V-5403
Date Entered: 3/13/92  Length: 22:00

Transporting and Placing Quality Concrete

Descriptors: CONCRETE TRANSPORT PLACE QUALITY

Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: PCA  V-2005
Date Entered: 3/13/92  Length: 30:00

Truck Impacts on Pavement

Descriptors:

Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: FHWA  V-1036
Date Entered: 3/19/92  Length:

Unsurfaced Road Inspection

Descriptors: UNSURFACED ROAD INSPECTION

Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: USACRREL  V-3003
Date Entered: 3/13/92  Length: 7:50

Upgrading Gravel Roads

Descriptors:

Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: Montana State University  V-3005
Date Entered: 8/5/92  Length: 20:00
Road Surface And Substructure

Uses of Asphalt Rubber

Descriptors: ASPHALT RUBBER

Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: Asphalt Rubber Products  V-1020
Date Entered: 3/13/92  Length: 12:00

Verglimit; Verglimit Goshen MA: Job Mixing and Laying

Descriptors:

Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: PK Innovations  V-5405
Date Entered: 1/14/93  Length: 21:00

Weather & Loads: The Effect They Have on Roads

Descriptors:

Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: MN LRRB  V-1039
Date Entered: 6/17/93  Length: 17:00
Drainage And Roadside Management

Awesome Power, The

Descriptors: FLOOD HYDRAULICS SAFETY
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: National Weather Service V-4102
Date Entered: 8/21/91 Length: 17:00

Cleaning of Lined Ditches, Culverts and Catch Basins

Descriptors:
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: FHWA V-4108
Date Entered: 3/17/92 Length: 15:38

Corrugated Steel Pipe

Descriptors:
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: Wyoming T2 Center V-4107
Date Entered: 11/24/92 Length: 18:00

Countermeasures for Hydraulic Problems at Bridges

Descriptors:
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: FHWA V-4100
Date Entered: 8/21/91 Length:

Drainage Pipe Installation

Discussion of proper methods to use in placing drainage pipe.
Descriptors: PIPE INSTALLATION PLACEMENT
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: PennDOT V-4101
Date Entered: 8/21/91 Length: 17:00

Energy Dissipators for Hydraulic Structures

Descriptors:
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: FHWA V-4106
Date Entered: 11/4/92 Length: 9:00

Covers planning, marking, cutting pavement, excavation, placement, backfilling, and compaction.

Importance of Roadway Drainage

Descriptors:
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: V-4103
Date Entered: 3/19/92 Length: 60:00

Keyed Riprap

Descriptors:
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: FHWA V-4105
Date Entered: 8/5/92 Length: 12:00
Drainage And Roadside Management

Maintain Drainage

Descriptors: DRAINAGE MAINTENANCE
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: UDOT V-4104
Date Entered: 7/2/92 Length: 11:00

Pipe Placement

Descriptors: PIPE, DRAINAGE
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: PennDOT V-4110
Date Entered: 6/10/93 Length: 8:30

Pipe Trench Compaction

Descriptors:
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: PennDOT V-4109
Date Entered: 6/10/93 Length: 8:30
Structures: Bridges, Etc.

ABC's of Masonry Construction
Descriptors:
Contact: Mr. John Hopkins  TEL: (602)965-2744  Publisher:  V-4510
Date Entered: 11/24/92  Length:  17:00

Aesthetic Bridge Rails and Guardrails
Descriptors:  BRIDGE GUARDRAILS
Contact: Mr. John Hopkins  TEL: (602)965-2744  Publisher:  FHWA  V-4518
Date Entered: 10/1/93  Length:  08:00

Better Bridge Decks
Descriptors:  BRIDGE DECK STRUCTURE
Contact: Mr. John Hopkins  TEL: (602)965-2744  Publisher:  FHWA  V-4512
Date Entered: 11/24/92  Length:  27:00

Bridge Deck Seal
Descriptors:  BRIDGE MAINTENANCE
Contact: Mr. John Hopkins  TEL: (602)965-2744  Publisher:  MHTD  V-4516
Date Entered: 9/10/93  Length:  08:00

Bridges Unbroken: Inspection of Timber Piling
Descriptors:
Contact: Mr. John Hopkins  TEL: (602)965-2744  Publisher:  V-4507
Date Entered: 3/13/92  Length:

Concrete Bridge Railings/ The Modified Three Beam Guardrails/ Cable Guardrails
Descriptors:  BRIDGE GUARDRAILS
Contact: Mr. John Hopkins  TEL: (602)965-2744  Publisher:  FHWA  V-4514
Date Entered: 9/10/93  Length:

Guardrail Installation and Repair
Descriptors:  GUARDRAIL REPAIR INSTALLATION
Contact: Mr. John Hopkins  TEL: (602)965-2744  Publisher: Alaska T2 Program  V-4502
Date Entered: 8/21/91  Length:  20:00

Introduction to Bridge Inspection
Descriptors:  INSPECTION BRIDGE
Contact: Mr. John Hopkins  TEL: (602)965-2744  Publisher:  FHWA  V-4500
Date Entered: 8/21/91  Length:  29:00
Structures: Bridges, Etc.

Modern Timber Bridges: A New Return for Old New England
Wooden bridges as alternative to concrete and steel.
Descriptors: BRIDGE WOOD
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: RI DOT RI T2  V-4513
Date Entered: 9/28/93  Length: 18:00

Repair of Bridge Decks
Descriptors: BRIDGE MAINTENANCE
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: MHTD  V-4515
Date Entered: 9/10/93  Length: 15:00

Repairing a Bridge
Descriptors: BRIDGE REPAIR POLYMER
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: PERCOL  V-9002
Date Entered: 11/17/93  Length: 6:30

Retaining Wall Design Guides
Overview of design and placement with examples of each class.
Descriptors: WALL RETAINING DESIGN PLACEMENT TYPE
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: USFS  V-4501
Date Entered: 3/6/92  Length: 22:00

Routine Structure Cleaning
Descriptors: MAINTENANCE STRUCTURE CLEANING
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: UDOT  V-4508
Date Entered: 7/2/92  Length: 17:00

Steel Truss Bridge Inspection
Descriptors: BRIDGE STEEL TRUSS INSPECTION
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: FHWA  V-4505
Date Entered: 3/13/92  Length:

Structures Inspection
Descriptors: STRUCTURE INSPECTION
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: UDOT  V-4506
Date Entered: 3/13/92  Length: 20:00

Substructure Rehabilitation
Descriptors:
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: FHWA  V-4503
Date Entered: 3/13/92  Length: 21:00
Structures: Bridges, Etc.

Sylcrete(TM) Polymer Deck Crack Sealing

Descriptors:  BRIDGE MAINTENANCE
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: MHTD  V-4517
Date Entered: 9/10/93  Length:  16:00

Timber Bridge Inspection in Oregon

Descriptors:
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher:  V-4504
Date Entered: 1/14/93  Length:  49:00

Timber Bridges #2

Descriptors:  TIMBER BRIDGE STRUCTURE
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: PennDOT  V-4509
Date Entered: 11/24/92  Length:  27:30

Timber Bridges, Build Better and Save With Modern Timber Bridges

Descriptors:
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: FHWA  V-4511
Date Entered: 11/24/92  Length:  22:00
Road Maintenance

Asphalt Maintenance Techniques

Descriptors: ASPHALT MAINTENANCE
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: Video University Productions V-3531
Date Entered: 7/11/94 Length: 85:00

Base and Sub-base Repair

Descriptors: BASE REPAIR
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: IRF V-3505
Date Entered: 2/7/92 Length: 16:04

Base Repair

Descriptors:
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: V-3506
Date Entered: 2/7/92 Length: 16:00

Batch Plant Maintenance

Descriptors: ASPHALT BATCH PLANT
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: Video University Productions V-3533
Date Entered: 7/11/94 Length: 60:00

Down Is Up
Preventative maintenance
Descriptors:
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: V-3501
Date Entered: 8/21/91 Length: 18:00

Eden’s Rehabilitation

Descriptors: EDEN (CHICAGO) EXPRESSWAY REHABILITATION
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: FHWA V-3517
Date Entered: 4/21/92 Length: 24:00

Edge Rut Repair and Grade Gravel Shoulders

Descriptors:
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: UDOT V-3519
Date Entered: 5/7/92 Length: 11:00

Extra Eyes for Maintenance

Descriptors: WATCHING FOR MAINTENANCE PROBLEMS
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: PennDOT V-3514
Date Entered: 3/19/92 Length: 31:30
Road Maintenance

Finding Better Ways - Cost Effective Pavement Repairs

Descriptors: ASPHALT REPAIR TECHNIQUES
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: SHRP V-3521
Date Entered: 5/24/94 Length: 19:00

Hardsurfacing a Gravel Road Using Pre-Mix Asphalt

Descriptors:
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: MO Highway & Transportation V-3510
Date Entered: 5/26/93 Length: 20:00

Hot In-Place Recycling

Descriptors: ASPHALT PAVEMENT MAINTENANCE
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: V-3511
Date Entered: 9/10/93 Length:

How to Prevent Segregation

Proper maintenance techniques.
Descriptors: PAVEMENT MAINTENANCE
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: Video University Productions V-3523
Date Entered: 7/11/94 Length: 26:00

Maintenance of Highway Safety Hardware, Part 1

Descriptors:
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: FHWA V-3527
Date Entered: 11/24/92 Length: 95:00

Maintenance of Highway Safety Hardware, Part 2

Descriptors:
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: FHWA V-3528
Date Entered: 11/24/92 Length: 94:00

Maintenance of Low Volume Roads

Discussion of maintenance procedures for three types of roads.
Descriptors: MAINTENANCE ROAD
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: Pennsylvania State U V-3504
Date Entered: 8/21/91 Length: 12:00
Covers bituminous surface treated, stabilized, and soil as well maintenance planning and drainage.

Maintenance Supervisors Responsibility

Descriptors:
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: UDOT V-3524
Date Entered: 11/4/92 Length: 15:00
Road Maintenance

Patch PCC with PCC and with Bituminous Materials

Descriptors:

Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: UDOT  V-3526
Date Entered: 8/5/92  Length: 23:00

Patching Unpaved Roads

Descriptors:

Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: IRF  V-3530
Date Entered: 11/24/92  Length: 12:00

Pavement and Compaction Training

Descriptors: ASPHALT

Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: Video University Productions  V-3532
Date Entered: 7/11/94  Length: 103:00
Boring, long-winded, 1-person's ideas

Pavement Maintenance with Asphalt

Descriptors: ASPHALT PAVEMENT MAINTENANCE

Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: The Asphalt Institute  V-3507
Date Entered: 2/21/92  Length: 59:00
Identification of types and causes of pavement defects and shows techniques to repair them.

Pavement Structure Repair Techniques

Descriptors: PAVEMENT REPAIR
STRUCTURE GRAVEL DITCH

Contact: Mr. John Hopkins  TEL: (602)965-2744
TRAFFIC CONTROL SHOULDER
CHIP SEAL ASPHALT

Publisher: North Carolina ITRE  V-3508
Date Entered: 2/21/92  Length: 133:00
Covers: Maintenance of Gravel Roads, Ditch Maintenance, Pothole Patching, Crack Sealing, Traffic Control, Shoulder Maintenance, Asphalt Chip Sealing

Pothole Repair in Asphalt Concrete

Descriptors:

Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: FHWA  V-3515
Date Entered: 3/19/92  Length: 13:15
Road Maintenance

Potholes - Causes, Cures and Prevention

Descriptors:
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: USACRREL  V-3516
Date Entered: 3/19/92  Length: 12:00

Remove Minor Slides and Clean Cut Ditch

Descriptors:  DITCH SLIDE REMOVAL MAINTENANCE
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: UDOT  V-3503
Date Entered: 3/6/92  Length: 12:00

Repair of Depressions, Rutting, and Corrugations

Descriptors:
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: IRF  V-3529
Date Entered: 11/24/92  Length: 14:00

Road Reclamation

Descriptors:
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: Catapillar Co.  V-3502
Date Entered: 3/6/92  Length: 12:00

Road Reclamation - More Ways to Cut Costs

Descriptors:  PAVEMENT RECYCLE MAINTENANCE
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: Caterpillar, Inc.  V-3513
Date Entered: 11/16/93  Length: 17:00

Road Repair, Do the Right Thing at the Right Time

Descriptors:
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher:  V-3509
Date Entered: 5/26/93  Length: 20:05

Sealcoating: A Matter of Science and Skill

Explanation of proper techniques for sealcoating.
Descriptors:  ASPHALT SEALCOAT
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: MN LRRB  V-3522
Date Entered: 6/13/94  Length: 17:00

Selective Pavement Rehabilitation

Descriptors:  PAVING MAINTENANCE
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: Video University Productions  V-3534
Date Entered: 7/11/94  Length: 34:00
Road Maintenance

Snow and Ice Removal
Interactive Training in snow and ice removal.
Descriptors: INTERACTIVE DISC
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: CATSR/ Technology Transfer
Date Entered: 1/1/95 Length: 

Technology Update: ROAD OYL (TM) Resin Modified Emulsion - Trails Video
Descriptors: SOIL STABILIZATION DUST CONTROL
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: Soil Stabilization Products V-9005 Company, Inc.
Date Entered: 6/13/94 Length: 15:00

The Agony of Our Streets
Descriptors: CRACKING, SEALING, CRAFCO CRACKSEAL
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: Crafco, Inc. V-3518
Date Entered: 12/10/93 Length: 12:00

Technical Advancements for Maintenance Workers
Descriptors:
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: SHRP V-3512
Date Entered: 3/13/92 Length: 12:00

Temporary and Permanent Pothole Patching
Descriptors:
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: UDOT V-3525
Date Entered: 8/5/92 Length: 24:00

Transverse Cracking, Pavements Perennial Problem
Descriptors:
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: Crafco, Inc. V-3520
Date Entered: 12/10/93 Length: 13:00
Construction Vehicle Maintenance And Use

80 Foot Pole Trailer

Descriptors: EQUIPMENT TRAILER
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: ADOT  V-2536
Date Entered: 6/9/92   Length: 24:00

Articulated Loader Safety: Operation and Maintenance

Descriptors: EQUIPMENT SAFETY LOADER OPERATION MAINTENANCE
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: UDOT  V-2551
Date Entered: 8/21/91   Length: 18:00

Crane Operation

Descriptors:
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: UDOT  V-2547
Date Entered: 8/5/92   Length: 36:00

Dump Trucks
Parts 1-4 and PM-A

Descriptors:
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: UDOT  V-2505
Date Entered: 8/21/91   Length: 90:00

Air Compressor Operation

Descriptors:
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: UDOT  V-2545
Date Entered: 11/4/92   Length: 19:00

Bulldozer Preventive Maintenance

Descriptors:
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: UDOT  V-2546
Date Entered: 11/4/92   Length: 13:00

Distributor Preventive Maintenance and Operation

Descriptors: EQUIPMENT DISTRIBUTOR MAINTENANCE OPERATION
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: UDOT  V-2531
Date Entered: 4/21/92   Length: 36:00

Forklift Operation and PM-A

Descriptors: FORKLIFT EQUIPMENT OPERATION MAINTENANCE
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: UDOT  V-2540
Date Entered: 7/2/92   Length: 21:30
Construction Vehicle Maintenance
And Use

Front End Loader Safety

Descriptors: SAFETY EQUIPMENT LOADER
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: U.S. Department of I  V-2552
Date Entered: 8/21/91   Length:  14:00

How to Get More Out of Your Motor Grader

Descriptors:
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: John Deere Company  V-2504
Date Entered: 8/21/91   Length:  25:00

Introduction to Electrical & Electronic Systems - Tape III
Basic maintenance of electrical systems on vehicles.
Descriptors: EQUIPMENT MAINTENANCE ELECTRIC
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: AASHTO  V-2559
Date Entered: 9/10/93   Length:  60:00

Landa Pressure Washers

Descriptors: EQUIPMENT OPERATION WASHER LANDA
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: ADOT  V-2535
Date Entered: 6/9/92   Length:  22:00

Highway Sanders and Calibration

Descriptors: SANDER EQUIPMENT CALIBRATION OPERATION
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: UDOT  V-2541
Date Entered: 7/1/92   Length:  26:00

Introduction to Diesel Engines - Tape I
Basic maintenance on diesel equipment
Descriptors: EQUIPMENT MAINTENANCE DIESEL
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: AASHTO  V-2557
Date Entered: 9/10/93   Length:  50:00

Introduction to Gasoline Engines - Tape II
Basic maintenance on gasoline engines
Descriptors: EQUIPMENT MAINTENANCE GASOLINE
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: AASHTO  V-2558
Date Entered: 9/10/93   Length:  60:00

Loader Operation and PM-A

Descriptors:
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: UDOT  V-2548
Date Entered: 8/5/92   Length:  43:00
Construction Vehicle Maintenance
And Use

Loader Operation, Part 2
Descriptors: LOADER OPERATION
EQUIPMENT
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: V-2507
Date Entered: 8/21/91 Length: 15:00

Motor Grader - Parts 1, 2, 3, 4
Descriptors: MOTORGRADER OPERATION
EQUIPMENT
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: Nebraska DOR V-2515
Date Entered: 8/21/91 Length: 73:00

Motor Grader Operation and PM-A
Parts 1, 2, 3, and PM-A
Descriptors: GRADER EQUIPMENT
OPERATION MAINTENANCE
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: UDOT V-2542
Date Entered: 7/1/92 Length: 63:00

Motor Grader Operation, Part II
Part 2 of 3
Descriptors: EQUIPMENT OPERATION
MOTORGRADER
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: WSDOT V-2510
Date Entered: 8/21/91 Length: 16:00

Loader Operation, Part I
Descriptors: LOADER EQUIPMENT
OPERATION
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: V-2506
Date Entered: 8/21/91 Length: 20:00

Motor Grader Operation
Parts 1, 2 and 3
Descriptors: EQUIPMENT OPERATION
MOTORGRADER
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: WSDOT V-2508
Date Entered: 8/21/91 Length: 54:00

Motor Grader Operation, Part I
Part 1 of 3
Descriptors: EQUIPMENT OPERATION
MOTORGRADER
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: WSDOT V-2509
Date Entered: 8/21/91 Length: 17:00

Motor Grader Operation, Part III
Part 3 of 3
Descriptors: EQUIPMENT OPERATION
MOTORGRADER
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: WSDOT V-2511
Date Entered: 8/21/91 Length: 21:00
Construction Vehicle Maintenance
And Use

Motor Grader: Drying Aggregate, Blade Mixing and Blade Patching

Descriptors: MOTORGRADER OPERATION EQUIPMENT
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: MDOH V-2516
Date Entered: 8/21/91 Length: 25:00

Operating Tips: Elevating Scraper

Descriptors: OPERATION EQUIPMENT SCRAPER ELEVATING
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: V-2521
Date Entered: 2/21/92 Length: 18:00

Operator Daily Maintenance of Crawler Tractors

Descriptors: EQUIPMENT MAINTENANCE TRACTOR CRAWLER
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: IRF V-2549
Date Entered: 11/4/92 Length: 21:00

Operating Self-Propelled Brooms

Descriptors: EQUIPMENT OPERATION BROOM
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: V-2525
Date Entered: 2/28/92 Length: 7:00

Operating Tips: Motor Grader

Descriptors: EQUIPMENT OPERATION MOTORGRADER
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: V-2512
Date Entered: 8/21/91 Length: 18:00

Operator Daily Maintenance of Asphalt Distributors

Descriptors: EQUIPMENT MAINTENANCE DISTRIBUTOR ASPHALT
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: FHWA V-2539
Date Entered: 6/9/92 Length: 16:35

Operator Daily Maintenance of Front-and-End Loaders

Procedures for four daily maintenance operations.

Descriptors: LOADER EQUIPMENT MAINTENANCE
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: FHWA V-2522
Date Entered: 2/21/92 Length: 18:48
Construction Vehicle Maintenance And Use

Operator Daily Maintenance of Motorgraders

Descriptors: MAINTENANCE EQUIPMENT MOTORGRADER
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: FHWA V-2534
Date Entered: 4/21/92 Length: 21:11

Operator Daily Maintenance of Rollers

Descriptors: OPERATION EQUIPMENT ROLLER MAINTENANCE
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: FHWA V-2533
Date Entered: 6/9/92 Length: 21:43

Operator Guide: Track-Type Loaders

Descriptors: EQUIPMENT OPERATION LOADER TRACK TYPE
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: V-2523
Date Entered: 2/28/92 Length: 18:00

Operator Guide: Hydraulic Excavators

Descriptors: EQUIPMENT OPERATION EXCAVATORS
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: V-2514
Date Entered: 8/21/91 Length: 18:00

Operator Guide: Track-Type Tractors

Descriptors: EQUIPMENT OPERATION TRACTOR TRACK TYPE
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: V-2524
Date Entered: 2/28/92 Length: 18:00

Patching with Hand Tools

Descriptors:
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: UDOT V-2527
Date Entered: 7/1/92 Length: 12:30

Pneumatic Tire Roller Operation

Descriptors: ROLLER PNEUMATIC OPERATION
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: UDOT V-2528
Date Entered: 3/13/92 Length: 18:00

Preventive Maintenance, Trucks: Parts 1 and 2

Descriptors: EQUIPMENT MAINTENANCE TRUCKS
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: Nebraska DOR V-2518
Date Entered: 8/21/91 Length: 37:00
Construction Vehicle Maintenance
And Use

Push-Truck for Stripe Remover
Descriptors: EQUIPMENT OPERATION
TRUCK STRIPE REMOVER
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: ADOT V-2537
Date Entered: 6/9/92 Length: 23:00

Roller PM-A
Descriptors: ROLLER EQUIPMENT
MAINTENANCE
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: UDOT V-2500
Date Entered: 3/6/92 Length: 13:00

Rotary Mower Operation
Covers daily equipment checks, operation and
maintenance.
Descriptors: EQUIPMENT MOWER
MAINTENANCE OPERATION
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: UDOT V-2526
Date Entered: 3/6/92 Length: 30:00

Rough Terrain Forklift Safety Operation &
Maintenance
Descriptors:
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: V-2554
Date Entered: 5/26/93 Length: 18:00

Scoop Operations
Descriptors: EQUIPMENT OPERATION
SCOOPE
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: Oregon T2 Program V-2517
Date Entered: 8/21/91 Length: 20:00

Skid Steer Safety Operation and Maintenance
Descriptors:
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: V-2555
Date Entered: 5/26/93 Length: 18:00

Steel Wheel Roller Operation
Descriptors: ROLLER STEEL WHEEL
OPERATION EQUIPMENT
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: UDOT V-2532
Date Entered: 4/21/92 Length: 22:00

Taking Control of Your Motor Grader
Descriptors:
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: John Deere Company V-2503
Date Entered: 8/21/91 Length: 19:00
Construction Vehicle Maintenance
And Use

Ten-Wheel Dump Truck

Descriptors:

Contact: Mr. John Hopkins TEL: (602)965-2744 Publisher: V-2530
Date Entered: 3/13/92 Length: 22:00

The Distributor

Descriptors: DISTRIBUTOR OPERATION EQUIPMENT
Contact: Mr. John Hopkins TEL: (602)965-2744 Publisher: SDDOT V-2533
Date Entered: 4/21/92 Length: 15:00

Tilt Bed Trailers

Descriptors: EQUIPMENT OPERATION TRAILER
Contact: Mr. John Hopkins TEL: (602)965-2744 Publisher: V-2520
Date Entered: 8/21/91 Length: 27:00

Tilt Bed Trailers, Part 1

Descriptors:

Contact: Mr. John Hopkins TEL: (602)965-2744 Publisher: V-2501
Date Entered: 8/21/91 Length:

Tilt Bed Trailers, Part 2

Descriptors:

Contact: Mr. John Hopkins TEL: (602)965-2744 Publisher: V-2502
Date Entered: 8/21/91 Length:

Towing and Securing

Descriptors: TOW SECURE SAFETY

Contact: Mr. John Hopkins TEL: (602)965-2744 Publisher: V-2550
Date Entered: 3/13/92 Length: 21:00

Tow-Type Sweeper Operation and PM-A

Descriptors: SWEEPER TOW EQUIPMENT OPERATION MAINTENANCE
Contact: Mr. John Hopkins TEL: (602)965-2744 Publisher: UDOT V-2543
Date Entered: 7/2/92 Length: 25:00

Trencher Safety Operation and Maintenance

Descriptors: EQUIPMENT SAFETY OPERATION
Contact: Mr. John Hopkins TEL: (602)965-2744 Publisher: V-2556
Date Entered: 5/25/93 Length: 21:00
Construction Vehicle Maintenance
And Use

Weed Sprayer Operation

Descriptors:
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: UDOT  V-2544
Date Entered: 11/4/92  Length:  25:00

Wheel Loader Operating Tips and Techniques

Descriptors:  EQUIPMENT OPERATING
WHEEL LOADER
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: Caterpillar, Co.  V-2519
Date Entered: 8/21/91  Length:  21:40

Winch, Auger, Bucket Operations

Parts one and two

Descriptors:  WINCH AUGER BUCKET
OPERATION EQUIPMENT
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: UDOT  V-2529
Date Entered: 3/13/92  Length:  28:00
Transit And Other Modes

Driver Training

Descriptors:

Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: CA DOT  V-7108
Date Entered: 6/16/93  Length: 60:00

Evacuation Procedures for Special Transportation Vehicles

Descriptors:

Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: Arizona DOT  V-7101
Date Entered: 8/21/91  Length: 18:00

People Who Need People

Descriptors: ESCORT DRIVER

Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: University of Wisconsin  V-7103
Date Entered: 3/13/92  Length: 15:00

Transfort Minibus

Descriptors:

Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: City of Fort Collins  V-7104
Date Entered: 3/13/92  Length: 10:00

Emergency Procedures for Rural Transit Drivers

Descriptors: SAFETY EMERGENCY TRANSIT

Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: International Support  V-7100
Date Entered: 8/21/91
Length:

M-Bahn System

Descriptors: RAPID RAIL, GERMANY

Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher:

Date Entered: 11/4/92  Length:

Pre-trip Inspection Guide

Covers small transit vehicles
Descriptors: VEHICLE INSPECTION

Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: Arizona DOT  V-7107
Date Entered: 2/28/92  Length: 29:00

Volunteer Driver Escorts

Descriptors: ESCORT DRIVER SAFETY QUALIFICATION

Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: University of Wisconsin  V-7102
Date Entered: 3/13/92  Length: 19:00
Transit And Other Modes

Your Valley Freeways

Descriptors:  ADOT, MARICOPA COUNTY  
FREEWAYS
Contact:  Mr. John Hopkins  
TEL: (602)965-2744
Publisher:  Arizona DOT  
V-7105
Date Entered:  5/19/92  
Length:  13:45
Safety (Of Transportation Workers And Travelers)

A Striper's Survival Guide
Descriptors:  SAFETY STRIPING
Contact:  Mr. John Hopkins  TEL: (602)965-2744  Publisher:  ATSSA  V-6623
Date Entered: 6/18/93  Length:  12:00

Backing - You Owe It To Yourself
Descriptors:  SAFETY EQUIPMENT  OPERATION
Contact:  Mr. John Hopkins  TEL: (602)965-2744  Publisher:  PennDOT  V-6603
Date Entered: 8/21/91  Length:  12:00

Breakaway Timber Utility Poles
Procedures to retrofit existing utility poles.
Descriptors:  SAFETY BREAKAWAY UTILITY
Contact:  Mr. John Hopkins  TEL: (602)965-2744  Publisher:  FHWA  V-6400
Date Entered: 8/21/91  Length:  15:00

Buckle Up
Promotional video on safety using seatbelts.
Descriptors:  SAFETY SEATBELT
Contact:  Mr. John Hopkins  TEL: (602)965-2744  Publisher:  V-6602
Date Entered: 8/21/91  Length:  20:00

Chainsaw Safety
Descriptors:  SAFETY SMALL EQUIPMENT  CHAINSAW
Contact:  Mr. John Hopkins  TEL: (602)965-2744  Publisher:  LA DOT  V-6636
Date Entered: 9/14/94  Length:  45:00
Covers most areas of chainsaw safety and maintenance.

Drugs At Work
Descriptors:
Contact:  Mr. John Hopkins  TEL: (602)965-2744  Publisher:  National Institute of Health  V-6600
Date Entered: 8/21/91  Length:  23:52

Earthquake Awareness and Risk Reduction in Utah
Descriptors:  EARTHQUAKE SAFETY
Contact:  Mr. John Hopkins  TEL: (602)965-2744  Publisher:  UT Geological Survey  V-6622
Date Entered: 6/17/93  Length:  25:00

Engineering for Highway Safety
Evaluation of seven products for safety barrier installation.
Descriptors:
Contact:  Mr. John Hopkins  TEL: (602)965-2744  Publisher:  V-6605
Date Entered: 8/21/91  Length:  71:00
Safety (Of Transportation Workers And Travelers)

Flagging Operations and Procedures
Flagging Safety
Descriptors: FLAGGING SAFETY WORKZONE
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: SC DOT V-6635
Date Entered: 9/10/93 Length: 23:00

Guardrail Maintenance
Discusses major components of guardrails and their function.
Descriptors: GUARDRAIL MAINTENANCE
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: UDOT V-6604
Date Entered: 8/21/91 Length: 15:00

Highway Safety Program
Discussion of the reduction in fatality accident rates.
Descriptors: SAFETY ACCIDENTS HIGHWAY
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: FHWA V-6607
Date Entered: 8/21/91 Length: 30:00

Introduction to Clear Zones
Descriptors:
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: FHWA V-6606
Date Entered: 8/21/91 Length: 40:00

It Always Happens to the Other Guy
Descriptors: SAFETY
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: John Deere Company V-6608
Date Entered: 8/21/91 Length: 19:00

Mobile Equipment Safety
Descriptors: SAFETY EQUIPMENT
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: V-6610
Date Entered: 8/21/91 Length: 15:00

Most Precious Cargo, A
Descriptors: SEAT BELT USE, SAFETY
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: V-6620
Date Entered: 8/21/91 Length: 10:40

Mowing
Descriptors: MAINTENANCE MOWING
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: UDOT V-6611
Date Entered: 7/1/92 Length: 8:00
## Safety (Of Transportation Workers And Travelers)

### Multiple Choice: A Test About Survival
- **Descriptors:** SAFETY EQUIPMENT OPERATION
- **Contact:** Mr. John Hopkins  TEL: (602)965-2744
- **Publisher:** Caterpillar  V-6621
- **Date Entered:** 8/21/91  **Length:** 24:00

### Paths of Thunder
- **Descriptors:** RAILROAD CROSSING SAFETY INCIDENT MANAGEMENT
- **Contact:** Mr. John Hopkins  TEL: (602)965-2744
- **Publisher:** Florida East Coast R  V-6616
- **Date Entered:** 3/6/92  **Length:** 12:00

### Pesticide Applicator Safety
- **Descriptors:** PESTICIDE SAFETY
- **Contact:** Mr. John Hopkins  TEL: (602)965-2744
- **Publisher:** National Parks Service  V-6614
- **Date Entered:** 2/21/92  **Length:** 17:48
- Demonstrates the proper protective clothing, eye covering, and breathing apparatus to be worn during handling, mixing and application of pesticides.

### Partners in Safety
- **Descriptors:** SAFETY
- **Contact:** Mr. John Hopkins  TEL: (602)965-2744
- **Publisher:** FHWA  V-6613
- **Date Entered:** 2/21/92  **Length:** 13:00

### Pedestrian Safety: What You Can Do
- **Descriptors:** PEDESTRIAN SAFETY
- **Contact:** Mr. John Hopkins  TEL: (602)965-2744
- **Publisher:** FHWA  V-6617
- **Date Entered:** 3/6/92  **Length:** 9:00

### Positive Signs of Life
- **Descriptors:** SIGNING SAFETY TORT
- **Contact:** Mr. John Hopkins  TEL: (602)965-2744
- **Publisher:** 3M Company  V-6615
- **Date Entered:** 2/28/92  **Length:** 15:00
- Also, procedures in the use of signing to minimize tort law suits.
Safety (Of Transportation Workers And Travelers)

Report on Safety Through Construction and Maintenance Work Zones

Descriptors: SAFETY WORK ZONES
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: FHWA  V-6609
Date Entered: 8/21/91  Length: 21:00

Right Before Your Eyes

Descriptors: PAVEMENT MARKINGS SAFETY
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: ATSSA  V-6634
Date Entered: 6/18/93  Length: 11:00

Safety Features for Local Roads and Streets
Part one of two
Descriptors: SAFETY PROCEDURES
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: FHWA  V-6618
Date Entered: 3/6/92  Length: 60:00
Covers a wide variety of topics related to the improvement in safety.

School Zone Safety

Descriptors:
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: UDOT  V-6629
Date Entered: 11/24/92  Length: 22:00

Safety Features for Local Roads and Streets
Part two of two
Descriptors: SAFETY PROCEDURES
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: FHWA  V-6619
Date Entered: 3/6/92  Length: 60:00
Covers a wide variety of topics related to the improvement in safety.

Shake Hands with Danger

Descriptors: SAFETY EQUIPMENT OPERATION
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: U.S. Department of I  V-6612
Date Entered: 8/21/91  Length: 16:00

Sign Supports

Descriptors: SIGN SUPPORT
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: FHWA  V-6624
Date Entered: 3/13/92  Length: 25:00
Safety (Of Transportation Workers And Travelers)

Split Second Decision

Descriptors: SAFETY, DRIVING HAZARDS
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: Minnesota Depart of Trans V-6625
Date Entered: 3/13/92 Length: 11:00

Substance Abuse: Is It Our Problem?

Descriptors: DRUG
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: U.S. Department of Labor V-6601
Date Entered: 8/21/91 Length: 34:00

Tank Closure Without Tears - An Inspector’s Safety Guide

Descriptors:
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: V-6630
Date Entered: 11/24/92 Length: 30:00

Testing and Field Inspection of Roadway Delineation

Descriptors:
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: V-6631
Date Entered: 1/14/93 Length: 36:00

The Forgiving Highway

Descriptors: HIGHWAY STRUCTURES, GUARDRAIL
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: FHWA V-6628
Date Entered: 11/4/92 Length: 32:00

The Nuts and Bolts of Jolts

Electrical Safety around Traffic Signal Hardware
Descriptors:
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: V-6633
Date Entered: 6/8/93 Length: 22:15

What is Your Orange IQ?

Descriptors: WORK ZONE SAFETY FOR MOTORISTS
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: MinnDOT V-6627
Date Entered: 8/5/92 Length: 21:00

Workzone Safety for Rural Local Agencies

Descriptors: WORK ZONE SAFETY
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: FHWA V-6632
Date Entered: 5/25/93 Length: 102:00
Traffic Control

**Arrow Panels**

Descriptors: SAFETY ROAD CONSTRUCTION

Contact: Mr. John Hopkins  TEL: (602)965-2744  Publisher: FHWA

Date Entered: 6/17/93  Length: 25:00

**Barrier Delineation in Work Zones: The Well Defined Path**

Descriptors:

Contact: Mr. John Hopkins  TEL: (602)965-2744  Publisher: FHWA

Date Entered: 6/17/93  Length: 24:20

**Breakaway Sign Program**

Descriptors: SAFETY SIGNS BREAKAWAY

Contact: Mr. John Hopkins  TEL: (602)965-2744  Publisher: NJDOT

Date Entered: 8/21/91  Length: 11:36

**Construction Ahead**

Descriptors:

Contact: Mr. John Hopkins  TEL: (602)965-2744  Publisher: Natl. Acad. of Sci.

Date Entered: 8/21/91  Length: 19:33

**Crash Cushions**

Descriptors:

Contact: Mr. John Hopkins  TEL: (602)965-2744  Publisher: FHWA

Date Entered: 8/21/91  Length: 28:00

**D.O.T. Safer Roadside**

Descriptors: TRAFFIC SAFETY HIGHWAY

Contact: Mr. John Hopkins  TEL: (602)965-2744  Publisher: WA DOT

Date Entered: 6/17/93  Length: 18:00

**Flagger Training - Work Area Traffic Control**

Descriptors:

Contact: Mr. John Hopkins  TEL: (602)965-2744  Publisher: Arizona DOT

Date Entered: 3/13/92  Length: 24:00

**Flagger, The**

Discusses drivers' perceptions of delays.

Descriptors: FLAGGING SAFETY

Contact: Mr. John Hopkins  TEL: (602)965-2744  Publisher: WSDOT

Date Entered: 8/21/91  Length: 43:00

Covers qualities, attire, tools flaggers use, use of slow/stop paddles, and common flagging situations.
Traffic Control

**Flagger, The**

Descriptors: FLAGGING SAFETY

Contact: Mr. John Hopkins  TEL: (602)965-2744  Publisher: UDOT  V-5904
Date Entered: 8/21/91  Length: 43:00

**Flagging Safety**

Descriptors:

Contact: Mr. John Hopkins  TEL: (602)965-2744  Publisher: CDOT  V-5918
Date Entered: 5/26/93  Length: 30:00

**Lane Closure - Placement and Removal on Traffic Control**

Descriptors: TRAFFIC CONTROL

Contact: Mr. John Hopkins  TEL: (602)965-2744  Publisher: Arizona DOT  V-5909
Date Entered: 3/13/92  Length: 11:00

**Mailboxes May Be Hazardous to Your Health**

Discussion of crash tests with mailbox supports.

Descriptors: SAFETY DESIGN MAILBOX SUPPORT

Contact: Mr. John Hopkins  TEL: (602)965-2744  Publisher:  V-5905
Date Entered: 8/21/91  Length: 14:00
Covers safer design of mailbox supports.

**Minnesota Flagging Operation**

Descriptors: SAFETY FLAGGING

Contact: Mr. John Hopkins  TEL: (602)965-2744  Publisher:  V-5906
Date Entered: 8/21/91  Length: 18:00

**New Work Zone Safety Devices**

Descriptors:

Contact: Mr. John Hopkins  TEL: (602)965-2744  Publisher: SHRP  V-5916
Date Entered: 11/24/92  Length: 17:00

**Night Time Traffic Control**

Descriptors:

Contact: Mr. John Hopkins  TEL: (602)965-2744  Publisher:  V-5914
Date Entered: 6/9/92  Length: 18:00

**Portable Maintenance and Construction Signs**

Demonstration of an inexpensive collapsible sign stand.

Descriptors: SIGN PORTABLE MAINTENANCE AND

Contact: Mr. John Hopkins  TEL: (602)965-2744  Publisher: Montana DOT  V-5908
Date Entered: 2/28/92  Length: 18:00
Traffic Control

Quickchange(TM) Movable Barriers: TX DOT Application and General Product Applications

Descriptors: PRODUCT TRAFFIC CONTROL

Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: Barrier Systems, Inc. V-9004
Date Entered: 6/13/94 Length: 20:00
Showcases the use of movable barriers and their safety.

Traffic Barriers

Descriptors:

Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: FHWA V-5910
Date Entered: 3/13/92 Length: 46:27

Traffic Barriers - I

Descriptors:

Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: FHWA V-5911
Date Entered: 3/13/92 Length: 48:00

Traffic Barriers - II

Descriptors:

Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: FHWA V-5912
Date Entered: 3/13/92 Length: 40:00

Traffic Control for Short Term Work Zones

Descriptors: SAFETY WORK ZONE TRAFFIC CONTROL

Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: MinnDOT V-5907
Date Entered: 8/21/91 Length: 90:00

Traffic Control for Urban and Utility Work Zones

Descriptors: TRAFFIC CONTROL URBAN UTILITY WORK ZONE

Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: ATSSA V-5919
Date Entered: 4/13/93 Length: 54:30
Traffic Control

Traffic Control in Maintenance Work Areas

Descriptors: TRAFFIC CONTROL
MAINTENANCE WORK AREA
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: UDOT V-5917
Date Entered: 9/14/92 Length: 40:00

Traffic Control in Moving Operations

Descriptors: TRAFFIC MOVING CONTROL
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: UDOT V-5915
Date Entered: 7/1/92 Length: 14:00

Traffic Signal Systems - Go for the Green: Part 1, Part 2

Descriptors: TRAFFIC CONTROL SIGNAL
TIMING
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: SC T2 V-5921
Date Entered: 9/14/94 Length: 28:00
Part 1 - 13 min, Part 2 - 15 min
Environmental Quality And Weather

Anatomy of a Winter Storm

Descriptors:

Contact: Mr. John Hopkins  TEL: (602)965-2744  Publisher: MinnDOT  V-5008
Date Entered: 8/5/92  Length: 11:00

Chemical Control of Vegetation

Descriptors: MAINTENANCE VEGETATION CHEMICAL APPLICATOR
Contact: Mr. John Hopkins  TEL: (602)965-2744  Publisher: UDOT  V-0601
Date Entered: 8/21/91  Length: 14:00

Controlling Dust on Unpaved Roads

Descriptors:

Contact: Mr. John Hopkins  TEL: (602)965-2744  Publisher: V-0604
Date Entered: 8/21/91  Length:

Dust Control with Calcium Chloride

Descriptors:

Contact: Mr. John Hopkins  TEL: (602)965-2744  Publisher: Dow Chemical Co.  V-0600
Date Entered: 8/21/91  Length: 16:00

Effective Land Management Through Chemical Control

Descriptors:

Contact: Mr. John Hopkins  TEL: (602)965-2744  Publisher: Oklahoma DOT  V-0603
Date Entered: 11/4/92  Length: 22:00

Effective Snow Fences

Descriptors: SNOW CONTROL
Contact: Mr. John Hopkins  TEL: (602)965-2744  Publisher: SHRP  V-5011
Date Entered: 9/10/93  Length: 21:00

First on the Scene

Training for first response to hazardous materials incident.
Descriptors: HAZARDOUS MATERIALS INCIDENT
Contact: Mr. John Hopkins  TEL: (602)965-2744  Publisher: Chemical Manufacturing  V-4700
Date Entered: 8/21/91  Length: 32:00

Glenwood Canyon Project - Ancient Treasure, Modern Marvel
Discussion of the environmental concerns of this project.
Descriptors: ENVIRONMENT
Contact: Mr. John Hopkins  TEL: (602)965-2744  Publisher: CO DOT  V-0605
Date Entered: 9/10/93  Length: 27:00
ASCE 1993 Outstanding Project of the Year Award Winner
Environmental Quality And Weather

Harmful Materials Awareness for Construction Workers

Descriptors: HAZMAT

Contact: Mr. John Hopkins TEL: (602)965-2744 Publisher: Penn DOT V-4705
Date Entered: 5/25/93 Length: 22:30

Harmful Materials Awareness for Maintenance Workers

Descriptors: HAZMAT

Contact: Mr. John Hopkins TEL: (602)965-2744 Publisher: Penn DOT V-4707
Date Entered: 5/25/93 Length: 21:00

Hazardous Materials Program Manager: An Introduction and Overview

Descriptors:

Contact: Mr. John Hopkins TEL: (602)965-2744 Publisher: ADOT V-4704
Date Entered: 8/5/92 Length: 17:00

Hazardous Materials in Transit

Slide Show

Descriptors: HAZARDOUS MATERIALS TRANSPORTATION

Contact: Mr. John Hopkins TEL: (602)965-2744 Publisher: V-4701
Date Entered: 8/21/91 Length: 28:30

Hazardous Materials Series - Awareness, Safety, Transport

Descriptors: HAZMAT SAFETY REGULATIONS

Contact: Mr. John Hopkins TEL: (602)965-2744 Publisher: FHWA/ID State Police V-4708
Date Entered: 11/17/93 Length: 86:00

Liquid Roadway Deicing

Descriptors:

Contact: Mr. John Hopkins TEL: (602)965-2744 Publisher: Connecticut DOT V-5002
Date Entered: 3/13/92 Length: 7:15
Environmental Quality And Weather

Oak Creek Bridge at Slide Rock - Construction of New Bridge
Environment and Partnering concerns for this project.
Descriptors: BRIDGE PARTNERING ENVIRONMENT
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: ADOT V-0607
Date Entered: 6/13/94 Length: 11:00

Plant Growth Regulators and Ground Maintenance
Descriptors: HERBICIDE PLANT GROWTH REGULATOR
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: U.S. Army Corp of Engineers V-0602
Date Entered: 2/21/92 Length: 11:00

Plow Power
Descriptors: OPERATION OF SNOW PLOWS, TRUCK PLOWS, "V" PLOWS
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: New England Chapter V-5003
Date Entered: 3/13/92 Length: 15:00

Plow Snow and Apply Salt
Descriptors:
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: UDOT V-5007
Date Entered: 11/4/92 Length: 27:00

Presentation by Ken Powell on High Efficiency Snowplows
Descriptors: SNOW PLOW SCOOP
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: SHRP V-5013
Date Entered: 11/17/93 Length: 12:41

Response to Winter
Descriptors: SNOW REMOVAL TRAINING
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: PA DOT V-5014
Date Entered: 11/17/93 Length: 21:00

Safety Restoration During Snow Removal - Guidelines
Descriptors:
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: FHWA V-5005
Date Entered: 3/19/92 Length: 25:00

Snow and Ice Control, Parts I & II
Descriptors: SNOW REMOVAL
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: V-5009
Date Entered: 5/25/93 Length: 29:00
### Environmental Quality And Weather

#### Snow Fighting from A to Z
- **Descriptors:** SNOW REMOVAL CONTROL
- **Contact:** Mr. John Hopkins  TEL: (602)965-2744  
  Publisher: Salt Institute  V-5012
- **Date Entered:** 9/10/93  **Length:** 73:00

#### Snow Removal on Iowa’s Secondary Roads
- **Covers:** snow removal operations on rural roads
- **Descriptors:** SNOW WINTER REMOVAL
- **Contact:** Mr. John Hopkins  TEL: (602)965-2744  
  Publisher: Iowa DOT  V-5001
- **Date Entered:** 3/6/92  **Length:** 20:00

#### Snow Plowing and Sanding Techniques
- **Descriptors:**
- **Contact:** Mr. John Hopkins  TEL: (602)965-2744  
  Publisher: Oregon T2 Center  V-5004
- **Date Entered:** 3/19/92  **Length:** 20:00

#### Snowplow and Spreader Operations
- **Covers:** various equipment, inspection and plowing techniques
- **Descriptors:** SNOW WINTER EQUIPMENT REMOVAL SPREADER PLOW
- **Contact:** Mr. John Hopkins  TEL: (602)965-2744  
  Publisher: Nebraska DOT  V-5000
- **Date Entered:** 3/6/92  **Length:** 48:00

#### Straight Blade Snow Plow
- **Descriptors:**
- **Contact:** Mr. John Hopkins  TEL: (602)965-2744  
  Publisher: UDOT  V-5006
- **Date Entered:** 11/4/92  **Length:** 20:00

#### SUPERPAVE - Pavements That Perform
- **Descriptors:** ASPHALT
- **Contact:** Mr. John Hopkins  TEL: (602)965-2744  
  Publisher: SHRP  V-0606
- **Date Entered:** 11/16/93  **Length:** 5:00

#### The Transportation and Identification of Precursor Chemicals
- **Descriptors:**
- **Contact:** Mr. John Hopkins  TEL: (602)965-2744  
  Publisher: ADOT  V-4703
- **Date Entered:** 8/5/92  **Length:** 25:00

#### Thermal & Asphalt Cold Mix Treatment of Hydrocarbon Contaminated Soil
- **Addresses:** solutions for hydrocarbon contaminated soils
- **Descriptors:** ENVIRONMENT HYDROCARBON SOIL
- **Contact:** Mr. John Hopkins  TEL: (602)965-2744  
  Publisher: Video University Productions  V-0608
- **Date Entered:** 7/11/94  **Length:** 59:00
Environmental Quality And Weather

To Last a Lifetime: Materials Handling

Descriptors:

Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: Montana State University  V-4702
Date Entered: 3/13/92  Length: 15:00

Wetted Salt

Descriptors:  SNOW REMOVAL

Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: Dow Chemical Co.  V-5010
Date Entered: 5/25/93  Length: 19:30
Computer Methods

Can a PC Help You?

Descriptors:

Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: V-0800
Date Entered: 2/21/92  Length:
Management Systems

Basic City Management - Public Facilities Teleseminar

Descriptors:

Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: TEEX  V-0317
Date Entered: 11/24/92  Length: 103:00

CPR for City Streets

Descriptors: MANAGEMENT CONCRETE

Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: Iowa Concrete Paving  V-0308
Date Entered: 4/15/93  Length: 12:00

Elements of a Community Involvement Program

Descriptors:

Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: FHWA  V-0315
Date Entered: 11/4/92  Length: 25:00

Equipment Operation and Maintenance - An Overview

Descriptors:

Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: UDOT  V-0312
Date Entered: 7/2/92  Length: 13:00

Basics of Local Road Engineering

Covers design considerations for rural roads.

Descriptors: BASIC ENGINEERING DESIGN TRAINING

Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: Cornell Local Roads  V-0310
Date Entered: 8/21/91  Length: 62:00

Capacity, geometrics, drainage, pavements, and safety at a basic design level.

Economics and Benefits of Pavement Management

Descriptors:

Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher:  V-0300
Date Entered: 8/21/91  Length: 56:00

Equipment Management System

Descriptors: EQUIPMENT MANGEMENT

Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: FHWA  V-0311
Date Entered: 6/9/92  Length: 40:00

Getting Around on National Forest Roads

Descriptors:

Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: USFS  V-0318
Date Entered: 5/25/93  Length: 9:00
Management Systems

Guiding Passenger Car Use

Descriptors:
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: USFS               V-0320
Date Entered: 5/25/93         Length: 12:00

Highway Maintenance Overview

Descriptors:
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: UDOT             V-0313
Date Entered: 7/2/92          Length: 15:00

Maintenance Management Systems

Descriptors: MAINTENANCE
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: FHWA             V-0302
Date Entered: 8/21/91         Length: 35:00

Management of Non-Passenger Car Roads

Descriptors:
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: USFS             V-0319
Date Entered: 5/25/93         Length: 10:00

Multiple Use Management

Descriptors: MANAGEMENT USE
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher:                 V-0301
Date Entered: 2/21/92         Length: 16:00

Pavement Management System for Local Administrators

Descriptors: PAVEMENT MANAGEMENT
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher:                 V-0303
Date Entered: 2/21/92         Length: 17:15

Pavement Management Systems

Descriptors:
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: USACRREL         V-0316
Date Entered: 11/4/92         Length: 5:30

Pavement Management, an Overview

Descriptors: MAINTENANCE
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher:                 V-0304
Date Entered: 2/28/92         Length: 10:00
# Management Systems

## PONTIS: Bridge Management System

<table>
<thead>
<tr>
<th>Descriptors:</th>
<th>Road Management Systems</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact: Mr. John Hopkins  TEL: (602)965-2744  Publisher: FHWA  V-0321</td>
<td>Descriptors:</td>
</tr>
<tr>
<td>Date Entered: 6/17/93  Length: 11:00</td>
<td>Contact: Mr. John Hopkins  TEL: (602)965-2744  Publisher: USACRREL  V-0307</td>
</tr>
<tr>
<td>Date Entered: 3/13/92  Length:</td>
<td></td>
</tr>
</tbody>
</table>

## Subdivisions a Local Dilemma

<table>
<thead>
<tr>
<th>Descriptors: SUBDIVISION</th>
<th>Surface Condition Rating System</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact: Mr. John Hopkins  TEL: (602)965-2744  Publisher: Montana State Univ.  V-0305</td>
<td>Descriptors:</td>
</tr>
<tr>
<td>Date Entered: 3/13/92  Length: 29:00</td>
<td>Contact: Mr. John Hopkins  TEL: (602)965-2744  Publisher:</td>
</tr>
<tr>
<td>Date Entered: 3/13/92  Length:</td>
<td></td>
</tr>
</tbody>
</table>

## Unsurfaced Road Management

<table>
<thead>
<tr>
<th>Descriptors: UNSURFACED MANAGEMENT</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact: Mr. John Hopkins  TEL: (602)965-2744  Publisher: USACRREL  V-0306</td>
<td>Descriptors:</td>
</tr>
<tr>
<td>Date Entered: 3/13/92  Length: 8:54</td>
<td>Date Entered: 3/13/92  Length:</td>
</tr>
<tr>
<td>Date Entered: 3/13/92  Length:</td>
<td></td>
</tr>
</tbody>
</table>
Transportation Administration And Planning

Fit for the Road

Descriptors: HEALTH FOR TRUCK DRIVERS
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: Idaho State Police  V-0000
Date Entered: 8/21/91  Length: 20:00

Strategic Planning for State and Local Transportation Agencies

Descriptors:
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: TRB  V-0003
Date Entered: 6/9/92  Length: 53:00

Open Roads

Discussing of highway incident management
Descriptors: SAFETY HIGHWAY MANAGEMENT
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: FHWA  V-0001
Date Entered: 8/21/91  Length: 18:58

Traffic Congestion: What Does the Future Hold?

Descriptors:
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: ITE  V-0002
Date Entered: 3/13/92  Length: 17:00
Liability And Other Legal Concerns

Best Defense is a Good Road, The
How to minimize lawsuits.
Descriptors: LIABILITY MANAGEMENT PAVEMENT
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: FHWA V-5200
Date Entered: 8/21/91 Length: 16:00
Shows methods of proper record keeping and routine inspection by local roads officials.

Construction Work Zone Liability
Descriptors:
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: 3-M Company V-5201
Date Entered: 8/21/91 Length: 27:00

Risk Management
Section 1
Descriptors:
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: V-5205
Date Entered: 6/16/92 Length: 22:34

Risk Management
Section 9 & 10
Descriptors:
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: V-5212
Date Entered: 6/16/92 Length:

Caution, Litigation Ahead: The Road to Effective Risk Management
Discussion of growing problem of tort litigation.
Descriptors: LIABILITY TORT LEGAL LITIGATION
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: FHWA V-5202
Date Entered: 8/21/91 Length: 25:00
Covers problem areas, litigation techniques and suggestions for risk management through a coordinated program.

Maintenance Tort Liability
Descriptors:
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: Louisiana DOT V-5213
Date Entered: 8/5/92 Length: 40:00

Risk Management
Section 6, Part 3; Section 7
Descriptors:
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: V-5210
Date Entered: 6/16/92 Length: 48:05

Risk Management
Section 6, Parts 1 & 2
Descriptors:
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: V-5209
Date Entered: 6/16/92 Length: 76:32
Liability And Other Legal Concerns

Risk Management
Section 8
Descriptors:
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: V-5211
Date Entered: 6/16/92  Length:  86:34

Risk Management
Section 4
Descriptors:
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: V-5207
Date Entered: 6/16/92  Length:  35:19

Risk Management
Section 5
Descriptors:
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: V-5208
Date Entered: 6/16/92  Length:  101:21

Risk Management for Small Communities
Descriptors: LEGAL RISK MANAGEMENT
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: OK State Univer. V-5216
Date Entered: 8/29/94  Length:  51:30

Tort Awareness
Descriptors:
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: PennDOT V-5214
Date Entered: 11/4/92  Length:  34:00

Tort Liability - A New Perspective
Descriptors:
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: V-5203
Date Entered: 8/21/91  Length:  20:00

Tort Liability - Mock Trial
Descriptors:
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: WY, MT, SD T2 Center V-5215
Date Entered: 11/24/92  Length:  35:00
 Liability And Other Legal Concerns

Tort Liability of State Highway and Transportation Officials

Descriptors: TORT LIABILITY STATE OFFICIAL
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: AASHTO V-5204
Date Entered: 6/9/92 Length: 53:00
Miscellaneous

Accessible Guidelines: US Architectural & Transportation Barriers Compliance Board
ADA requirements
Descriptors: ADA DISABILITY COMPLIANCE
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: US Dept. of Education/ ADA V-7342
Access Board
Date Entered: 6/13/94 Length: 13:00

Americans with Disabilities Act - Accessible Guidelines
Overview of ADA requirements
Descriptors: ADA DISABILITY COMPLIANCE
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: ADAAG V-7341
Date Entered: 6/13/94 Length: 20:00
Explains the new ADA requirements for building access.

Basic Survey
Descriptors: SURVEY EQUIPMENT BEGINNING
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: NDSHD V-7317
Date Entered: 2/7/92 Length: 25:00
An introduction to surveying equipment and surveying procedures.

Changing Rural America
Discussion of growth trends in rural America
Descriptors:
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: USDA V-7304
Date Entered: 8/21/91 Length: 25:00

Commercial Driver's License, Part 1
Parts 1, 2A and 2B
Descriptors:
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: PennDOT V-7300
Date Entered: 8/21/91 Length:

Commercial Driver's License, Part 2
Parts 2C, 2D, 3 and 4
Descriptors:
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: PennDOT V-7301
Date Entered: 8/21/91 Length:

Commercial Driver's License, Part 3
Parts 5, 6 and 7
Descriptors:
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: PennDOT V-7302
Date Entered: 8/21/91 Length:

Digging Danger!
Descriptors:
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: Focus Magazine V-7327
Date Entered: 3/19/92 Length: 15:00
Miscellaneous

Effects of Tire Pressure on Pavements
From the 32nd Bituminous Paving Conference.
Descriptors: PAVEMENT EFFECTS TIRES ASPHALT
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: MinnDOT V-7316
Date Entered: 2/7/92 Length: 30:00
A discussion of tire types, tread designs, tire pressures, loads and the effects on flexible pavements.

Emergency Relief
Brief description of procedures involved in obtaining funds.
Descriptors: FUNDING DISASTER
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: FHWA V-7305
Date Entered: 8/21/91 Length: 17:00

Engineers: Turning Ideas into Reality
Descriptors:
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: Bechtel V-7306
Date Entered: 8/21/91 Length: 8:30

Gift of Value, A
Covering aspects of value engineering
Descriptors:
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: Alaska T2 Program V-7307
Date Entered: 8/21/91 Length: 12:00

Good Neighbors in a Changing World
Descriptors:
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: OECD V-7335
Date Entered: 1/14/93 Length: 20:30

Guidelines for Spring Highway Use Restoration
Descriptors:
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: WSDOT V-7332
Date Entered: 11/24/92 Length: 26:00

Iowa Signals Go
Parts one and two
Descriptors:
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: V-7325
Date Entered: 3/17/92 Length: 40:00
**Miscellaneous**

**IVHS Architecture - Video Primer**
Explains the need for a single IVHS architecture.
Descriptors: IVHS ARCHITECTURE

Contact: Mr. John Hopkins  TEL: (602)965-2744  Publisher: IVHS America  V-7340
Date Entered: 6/13/94  Length: 27:00
3 short tapes IVHS overview; Need for IVHS compatibility; IVHS development program

**IVHS: A Smart Choice**
Descriptors: IVHS VEHICLE INTELLIGENT

Contact: Mr. John Hopkins  TEL: (602)965-2744  Publisher: FHWA  V-7318
Date Entered: 8/21/91  Length: 12:34

**LP Gas, Know the Facts**
Descriptors: GAS SAFETY

Contact: Mr. John Hopkins  TEL: (602)965-2744  Publisher: FHWA  V-7303
Date Entered: 8/21/91  Length: 11:00

**Materials Testing Series II**
Descriptors: MATERIAL TESTING

Contact: Mr. John Hopkins  TEL: (602)965-2744  Publisher: SDDOR  V-7329
Date Entered: 6/9/92  Length: 92:00

**National Advanced Driving Simulator**

Descriptors:

Contact: Mr. John Hopkins  TEL: (602)965-2744  Publisher: Arizona DOT  V-7313
Date Entered: 8/21/91  Length: 6:50

**New Directions in Sign Management**
Discussion of development of sign maintenance program.
Descriptors:

Contact: Mr. John Hopkins  TEL: (602)965-2744  Publisher: ATSSA  V-7314
Date Entered: 8/21/91  Length: 16:30

**On the Move**

Descriptors:

Contact: Mr. John Hopkins  TEL: (602)965-2744  Publisher: TRB  V-7331
Date Entered: 11/4/92  Length: 14:00

**Pavement Marking Inspection: Thermoplastic**
Descriptors:

Contact: Mr. John Hopkins  TEL: (602)965-2744  Publisher: ATSSA  V-7308
Date Entered: 7/20/93  Length: 14:00
Miscellaneous

Pavement Marking Inspection: Traffic Paint

Descriptors:

Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: ATSSA  V-7309
Date Entered: 7/20/93  Length: 21:00

Ramp Metering

Principles and benefits of ramp metering.

Descriptors:  RAMP METERING SAFETY
               BENEFIT EFFICIENCY
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: FHWA  V-7310
Date Entered: 2/28/92  Length: 17:00

Sample Splitting - LL & PI

Descriptors:

Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher:  V-7326
Date Entered: 3/19/92  Length:

Sampling and Testing for Excavation, Embankment and Base Course Inspection

Slide tape, part two of two

Descriptors:

Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher:  V-7323
Date Entered: 3/13/92  Length: 56:00

Proper Installation of Underground Storage Systems

Descriptors:  TANKS PIPES UNDERGROUND STORAGE
Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher:  V-7312
Date Entered: 3/6/92  Length: 40:00

Rural Technical Assistance Program (RTAP)

Descriptors:

Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: FHWA  V-7333
Date Entered: 11/24/92  Length: 13:00

Sampling and Testing for Excavation, Embankment and Base Course Inspection

Slide tape, one of two

Descriptors:

Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher:  V-7322
Date Entered: 3/13/92  Length: 58:00

SHRP Now Exhibit

Descriptors:

Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: SHRP  V-7339
Date Entered: 5/25/93  Length: 58:30
Miscellaneous

Staying Ahead of the Storm: Road Weather Information System

Descriptors:

Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: SHRP  V-7336
Date Entered: 1/14/93  Length:  20:30

Subsurface Utility Engineering - A Technology for the 90's

Descriptors:

Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: FHWA  V-7319
Date Entered: 3/13/92  Length:

Surveying Equipment: Engineer's Level

Descriptors:

Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: Oregon State Univers  V-7334
Date Entered: 11/24/92  Length:  36:00

Surveying Equipment: Engineers Levels

Descriptors:

Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: Oregon State University  V-7328
Date Entered: 4/21/92  Length:  36:00

The Eccentric Loader: A Breakaway Guardrail Terminal

Descriptors:

Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: FHWA  V-7330
Date Entered: 11/4/92  Length:  11:00

The Right Road

Descriptors:  BOOT TRUCK

Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: E.D. Etnyre and Co.  V-7311
Date Entered: 3/6/92  Length:  13:36

Triton Barriers

Descriptors:  ROAD BARRIERS

Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: Energy Absorption Systems  V-7338
Date Entered: 5/25/93  Length:  6:30

Using TRIS, the Transportation Network

Descriptors:

Contact: Mr. John Hopkins  TEL: (602)965-2744
Publisher: WSDOT  V-7321
Date Entered: 3/13/92  Length:  13:00
Miscellaneous

Visions of the Future

Descriptors: ADOT PLANNING PROCESS
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: Arizona DOT V-7324
Date Entered: 3/13/92 Length: 30:00

Where Does This Road Go?

Descriptors: POSITIVE GUIDANCE, ROAD ALIGNMENT SIGNS
Contact: Mr. John Hopkins TEL: (602)965-2744
Publisher: V-7320
Date Entered: 3/13/92 Length: 4:45
IV. OTHER SOURCES

ARIZONA COLLEGES
ARIZONA DATA CENTERS
ARIZONA TRANSPORTATION LIBRARIES
ARIZONA TRANSPORTATION ORGANIZATIONS
NATIONAL TRANSPORTATION ORGANIZATIONS
OTHER RESOURCE CATALOGS
TRANSPORTATION INFORMATION CLEARINGHOUSES
TRANSPORTATION MAILING LISTS (INTERNET)
TRANSPORTATION NEWSLETTERS
TRANSPORTATION RELATED BULLETIN BOARDS
TRANSPORTATION RELATED WWW SITES (INTERNET)
Arizona Colleges

Arizona State University

Dr. Lattie F. Coor, President
TEL: (602)543-5500 FAX: 
Department of Civil Engineering
CITY: Tempe STATE: AZ ZIP: 85287

Arizona State University

Dr. Johnathan Upchurch
TEL: (602)965-1713 FAX: (602)965-2728
Department of Civil Engineering
CITY: Tempe STATE: AZ ZIP: 85287

Arizona State University

Dr. Judd Matthias
TEL: (602)965-3888 FAX: (602)965-2728
Department of Civil Engineering
CITY: Tempe STATE: AZ ZIP: 85287

Arizona Western College

Dr. James Carruthers, President
TEL: (520)726-1000 FAX: (520)344-7730
P.O. Box 929
CITY: Yuma STATE: AZ ZIP: 85366

Central Arizona College

Dr. John Zaniewski
TEL: (602)965-2881 FAX: (602)965-2728
Department of Civil Engineering
CITY: Tempe STATE: AZ ZIP: 85287

Chandler/Gilbert Community College

Ms. Arnette Ward, President
TEL: (602)732-7000 FAX: (602)732-7090
2626 East Pecos Road
CITY: Chandler STATE: AZ ZIP: 85225

Cochise Community College District

Dr. Walter S. Patton, President
TEL: (520)364-7943 FAX: (520)364-0206
Cochise College, Route 1, Box 100
CITY: Douglas STATE: AZ ZIP: 85607
Arizona Colleges

Coconino Community College District

Mr. Phillip Tullar, President
TEL: (520)527-1222  FAX: (520)526-1821
Coconino College, 3000 N. 4th Street, # 17
CITY: Flagstaff  STATE: AZ  ZIP: 86004

Eastern Arizona College

Mr. Gherald L. Hoopes, Jr., President
TEL: (520)428-8231  FAX: (520)428-8462
600 Church Street
CITY: Thatcher  STATE: AZ  ZIP: 85552-0769

Estrella Mountain Community College Center

Dr. Homero Lopez, Provost
TEL: (520)935-8015  FAX: (520)935-8008
3000 North Dysart Road
CITY: Litchfield Pa  STATE: AZ  ZIP: 85340

Gateway Community College

Dr. Phil Randolph, President
TEL: (602)392-5000  FAX: (602)392-5329
108 North 40th Street
CITY: Phoenix  STATE: AZ  ZIP: 85034

Glendale Community College

Dr. John R. Waltrip, President
TEL: (602)435-3000  FAX: (602)435-3329
6000 West Olive
CITY: Glendale  STATE: AZ  ZIP: 85302

Graham Community College District

Mr. Gherald L. Hoopes, Jr., President
TEL: (520)428-8231  FAX: (520)428-8462
Eastern Arizona College, Church Street
CITY: Thatcher  STATE: AZ  ZIP: 85552-0769

Maricopa County Community College District

Dr. Paul Elsner, Chancellor
TEL: (602)731-8000  FAX: (602)731-8111
P.O. Box 13349
CITY: Phoenix  STATE: AZ  ZIP: 85002-3349

Mesa Community College

Dr. Larry Christiansen, President
TEL: (602)461-7300  FAX: (602)461-7804
1833 West Southern
CITY: Mesa  STATE: AZ  ZIP: 85202
Arizona Colleges

Mohave Community College District

Dr. Charles W. Hall, President
TEL: (520)757-4331    FAX: (520)757-0836
Mohave College, 1971 Jagerson Avenue
CITY: Kingman    STATE: AZ    ZIP: 86401

Navajo Community College District

Dr. John H. Anderson, President
TEL: (520)524-1993    FAX: (520)524-1993
Northland Pioneer College, P.O. Box 610
CITY: Holbrook    STATE: AZ    ZIP: 85602

Northern Arizona University

Ms. Clara M. Lovett, President
TEL:    FAX:    
CITY: Flagstaff    STATE: AZ    ZIP: 86011

Northland Pioneer College

Dr. John H. Anderson, President
TEL: (520)524-6111    FAX: (520)524-6290
P.O. Box 610
CITY: Holbrook    STATE: AZ    ZIP: 86025

Paradise Valley Community College

Dr. Raul Cardenas, President
TEL: (602)493-2710    FAX: (602)493-2978
18401 N. 32nd Street
CITY: Phoenix    STATE: AZ    ZIP: 85032

Phoenix Community College

Dr. Marie Pepicello, President
TEL: (602)264-2492    FAX: (602)285-7700
1202 W. Thomas Road
CITY: Phoenix    STATE: AZ    ZIP: 85013

Pima Community College District

Dr. Johnas F. Hockaday, Chancellor
TEL: (520)748-4666    FAX: (520)748-4990
Central District Office, 4907 E. Broadway
CITY: Tucson    STATE: AZ    ZIP: 85709-1010

Pinal Community College District

Dr. John Klein, President
TEL: (520)723-4141    FAX:    
Central Arizona College, 8470 N. Overfield Road
CITY: Coolidge    STATE: AZ    ZIP: 85228
Arizona Colleges

Rio Salado Community College
Dr. Linda Thor, President
TEL: (602)223-4000   FAX: (602)223-4144
640 North 1st Avenue
CITY: Phoenix   STATE: AZ   ZIP: 85003

South Mountain Community College
Dr. John Cordova, President
TEL: (602)243-8000   FAX: (602)243-8329
7050 South 24th Street
CITY: Phoenix   STATE: AZ   ZIP: 85040

Yavapai Community College District
Dr. Doreen Dailey, President
TEL: (520)445-7300   FAX: (520)776-2019
Yavapai College, 1100 E. Sheldon Street
CITY: Prescott   STATE: AZ   ZIP: 86301

Scottsdale Community College
Dr. Arthur W. DeCabooter, President
TEL: (602)423-6000   FAX: (602)423-6063
9000 E. Chaparral Road
CITY: Scottsdale   STATE: AZ   ZIP: 85250

University of Arizona
Mr. Robert Wortman
TEL: (520)621-2266   FAX: (520)621-2550
Department of Civil Engineering
CITY: Tucson   STATE: AZ   ZIP: 85721

Yuma/La Paz Community College District
Dr. James R. Curruthers, President
TEL: (520)726-1000   FAX: (520)344-7730
Arizona Western College, P.O. Box 929
CITY: Yuma   STATE: AZ   ZIP: 85364
Arizona Data Centers

Apache Junction Public Library

Mr. Spencer Paden
TEL: (602)983-0204 FAX: 1177 N. Idaho Road
CITY: Apache Jun STATE: AZ ZIP: 85219

Arizona Department of Commerce

Mobin Qaheri
TEL: (602)280-1321 FAX: 3800 North Central Avenue, 14th Floor
CITY: Phoenix STATE: AZ ZIP: 85012

Arizona Department of Economic Security

Ms. Betty Jeffries
TEL: (602)542-5984 FAX: 1789 W. Jefferson, 1st Floor, South Wing, Box 6123
CITY: Phoenix STATE: AZ ZIP: 85005

Arizona Department of Library, Archives & Public Records

Ms. Janet Fisher
TEL: (602)542-3701 FAX: Research Library, 1700 West Washington
CITY: Phoenix STATE: AZ ZIP: 85007

Arizona State University

Mr. Tom Rex
TEL: (602)985-3961 FAX: Center for Business Research, College of Business
CITY: Tempe STATE: AZ ZIP: 85287-4406

Arizona State University

Ms. Rebecca Burke
TEL: (602)985-3387 FAX: Government Documents Service, Hayden Library
CITY: Tempe STATE: AZ ZIP: 85287

Arizona Western College

Mr. Alan Schuck
TEL: (520)344-7660 FAX: P.O. Box 929, Alarby Road
CITY: Yuma STATE: AZ ZIP: 85366-0929

Central Arizona Association of Governments (CAAG)

Mr. Dean Giles
TEL: (520)868-5878 FAX: (520)868-0551
350 South Main Street, P.O. Box 560
CITY: Florence STATE: AZ ZIP: 85232-0560
Arizona Data Centers

Chandler-Gilbert Community College

Mr. Larry Miller
TEL: (602)732-7070 FAX: 
Learning Resource Center, 26226 East Pecos Road
CITY: Chandler STATE: AZ ZIP: 85225

Cochise County Library District

Ms. Kimberly Holman
TEL: (520)432-9250 FAX: 
Drawer AK
CITY: Bisbee STATE: AZ ZIP: 85603

Flagstaff City/Coconino County Public
Library/Reference Department

Mr. John Irwin
TEL: (520)779-7670 FAX: 
300 West Aspen
CITY: Flagstaff STATE: AZ ZIP: 86001

Gila County Library District

Ms. Barbara Kandt
TEL: (520)473-2621 FAX: 
1052 Adonis Avenue
CITY: Miami STATE: AZ ZIP: 85539

Glendale Public Library

Ms. Sue Komermicky
TEL: (602)435-4988 FAX: 
5959 West Brown Street
CITY: Glendale STATE: AZ ZIP: 85302

Greater Flagstaff Economic Council, Inc.

Mr. Therrett Lewis
TEL: (520)779-7658 FAX: 
1300 South Milton Road, Suite 125
CITY: Flagstaff STATE: AZ ZIP: 86001-8354

Greenlee County Library

Ms. Rebecca Oliver
TEL: (520)865-2461 FAX: 
P.O. Box 1226
CITY: Clifton STATE: AZ ZIP: 85533

Indian Development District of Arizona

Mr. Don Sneed
TEL: (602)433-1700 FAX: 
4560 North 19th Avenue, Suite 500
CITY: Phoenix STATE: AZ ZIP: 85015
Arizona Data Centers

Maricopa County Division of Human Services
Isaías (Sae) Mazo
TEL: (602) 506-5911  FAX: 
3335 West Durango Road
CITY: Phoenix  STATE: AZ  ZIP: 85009

Maricopa County Library District
Ms. Freda Quaranta
TEL: (602) 506-5740  FAX: 
17811 North 32nd Street
CITY: Phoenix  STATE: AZ  ZIP: 85022

Mesa Public Library - Documents
Ms. Elizabeth Saliba
TEL: (602) 644-2207  FAX: 
64 East 1st Street
CITY: Mesa  STATE: AZ  ZIP: 85201

Mohave Community College Library
Mr. Robert Shupe
TEL: (520) 757-0881  FAX: 
1971 Jagerson Avenue
CITY: Kingman  STATE: AZ  ZIP: 85401

Mohave County Library District
Ms. Mary Musgrave
TEL: (520) 692-2685  FAX: 
3269 N. Burbank Street, P.O. Box 7000
CITY: Kingman  STATE: AZ  ZIP: 86402-7000

Nogales City/Santa Cruz County Public Library
Ms. Helen Maul
TEL: (520) 287-3343  FAX: 
518 Grand Avenue
CITY: Nogales  STATE: AZ  ZIP: 85621

Northern Arizona Council of Governments
Mr. Joe Weidman
TEL: (520) 774-1895  FAX: 
119 East Aspen
CITY: Flagstaff  STATE: AZ  ZIP: 86001

Northern Arizona University
Mr. Sean Evans
TEL: (520) 523-7313  FAX: 
Library - Government Documents Department
CITY: Flagstaff  STATE: AZ  ZIP: 86011
Arizona Data Centers

Northland Pioneer College Learning Resources Center

Mr. Ron Kupper  
TEL: (520)524-6111  FAX:  
1200 East Hermosa Drive, P.O. Box 610  
CITY: Holbrook  STATE: AZ  ZIP: 86025

Parker/La Paz County Public Library

Ms. Jean McQuery  
TEL: (520)669-2622  FAX:  
1001 Navajo Avenue  
CITY: Parker  STATE: AZ  ZIP: 85344

Phoenix Planning Department

Mr. Fred Osgood  
TEL: (602)262-4079  FAX:  
200 West Washington Street, 6th Floor  
CITY: Phoenix  STATE: AZ  ZIP: 85003

Phoenix Public Library

Ms. Linda Risseeuw  
TEL: (602)534-0596  FAX:  
12 East McDowell Road  
CITY: Phoenix  STATE: AZ  ZIP: 85004

Pinal County Library

Ms. Melinda Sisson  
TEL: (520)868-6461  FAX:  
92 W. Butte Avenue  
CITY: Florence  STATE: AZ  ZIP: 85232

Prescott Public Library

Mr. Sharon Seymour  
TEL: (520)445-8110  FAX:  
215 East Goodwin Street  
CITY: Prescott  STATE: AZ  ZIP: 86303

Scottsdale Public Library

Ms. Becky Henry  
TEL: (602)994-2474  FAX:  
3839 Civic Center Plaza  
CITY: Scottsdale  STATE: AZ  ZIP: 85281

Southeastern Arizona Governments Organization (SEAGO)

Mr. Richard Gaar  
TEL: (520)432-5301  FAX: (520)432-5858  
118 Arizona Street  
CITY: Bisbee  STATE: AZ  ZIP: 85603
Arizona Data Centers

Tempe Public Library
Ms. Gail Rathburn
TEL: (602)350-5500  FAX:
3500 South Rural Road
CITY: Tempe  STATE: AZ  ZIP: 85282

Tucson City/Pima County Library
Ms. Jo Riester
TEL: (520)791-4393  FAX:
101 North Stone
CITY: Tucson  STATE: AZ  ZIP: 85701

Tucson Planning Department - Library
Ms. Anna Sanchez
TEL: (602)791-4234  FAX:
City Hall, 255 West Alameda
CITY: Tucson  STATE: AZ  ZIP: 85726

University of Arizona
Ms. Cynthia Bower
TEL: (520)621-6433  FAX:
University Library - Government Documents
CITY: Tucson  STATE: AZ  ZIP: 85721

University of Arizona
Ms. Pia Montoya
TEL: (520)621-2155  FAX:
Division of Economic Research, College of Business
CITY: Tucson  STATE: AZ  ZIP: 85721

Valle Del Sol
Mr. Ramon Leon
TEL: (602)258-6797  FAX:
1209 South 1st Avenue
CITY: Phoenix  STATE: AZ  ZIP: 85003

Western Arizona Council of Governments
Mr. Brian Babiarz
TEL: (520)782-1886  FAX:
224 South 3rd Avenue
CITY: Yuma  STATE: Az  ZIP: 85364

Western Arizona Council of Governments
Mr. Dave Barber
TEL: (520)782-1886  FAX:
206 North 4th Street
CITY: Kingman  STATE: AZ  ZIP: 86401
Arizona Data Centers

Yavapai College Library

Ms. Mollie Guglar
TEL: (520)776-2274     FAX: 
1100 East Sheldon Street
CITY: Prescott      STATE: AZ       ZIP: 86301

Yuma County Library District

Ms. Joan Murray
TEL: (520)782-1871     FAX: 
350 3rd Avenue
CITY: Yuma      STATE: AZ       ZIP: 85364
Arizona Transportation Organizations

AAA-Arizona Automobile Association
Ms. Cydne DeModica
TEL: (602)274-1116  FAX: (602)277-1194
Public Relations Manager, 3144 N. 7th Avenue
CITY: Phoenix  STATE: AZ  ZIP: 85013

AM/FM International
Mr. Inge Casey
TEL: (602)952-8328  FAX:
4822 E. Mulberry Drive
CITY: Phoenix  STATE: AZ  ZIP: 85018-6521

American Concrete Institute
Ms. Cheryl Jones
TEL: (602)994-9193  FAX:
P.O. Box 3869
CITY: Scottsdale  STATE: AZ  ZIP: 85271-3869

American Public Transit Association
Mr. Jerry Eaton
TEL: (602)255-0600  FAX:
Arizona Transit Association, Box 192
CITY: Phoenix  STATE: AZ  ZIP: 85001

American Public Works Association
Mr. Harry Kent
TEL: (602)644-2516  FAX:
Box 1466
CITY: Mesa  STATE: AZ  ZIP: 85211

American Traffic Safety Service
Ms. Karen Thompson
TEL:  FAX:
Arizona Highway Safety Specialist, 3260 Tower Drive
CITY: Prescott  STATE: AZ  ZIP: 86301

Arizona Association of Counties
TEL: (602)252-6563  FAX:
1910 W. Jefferson
CITY: Phoenix  STATE: AZ  ZIP: 85009

Arizona Association of County Engineers
Mr. John C. English, II
TEL: (602)252-6563  FAX:
Yuma County Public Works Director, 2703 Avenue B
CITY: Yuma  STATE: AZ  ZIP: 85364
Arizona Transportation Organizations

Arizona Bicycle Club, Inc
Mr. Richard Moeur
TEL: (602)433-1712 FAX: 
P.O. Box 7191
CITY: Phoenix STATE: AZ ZIP: 85011-7191

Arizona Contractors Association
TEL: (602)246-8627 FAX: 
5701 N. Black Canyon Highway
CITY: Phoenix STATE: AZ ZIP: 85015

Arizona Highway Users Conference
TEL: (602)266-1129 FAX: 
5133 N. Central Avenue
CITY: Phoenix STATE: AZ ZIP: 85012

Arizona Planning Association
TEL: (602)952-1227 FAX: 
3875 N. 44th Street
CITY: Phoenix STATE: AZ ZIP: 85040

Arizona Builders Alliance
Mr. Mark Minter
TEL: (602)829-3733 FAX: 
1314 N. 3rd Street, Suite 110
CITY: Phoenix STATE: AZ ZIP: 85004

Arizona Department of Transportation
Mr. Larry Bonine, Director
TEL: (602)255-7226 FAX: 
206 S. 17th Avenue
CITY: Phoenix STATE: AZ ZIP: 85007

Arizona Motor Transport Association
Mr. Jeannine Bleicher
TEL: (602)252-7559 FAX: 
2111 W. McDowell Road
CITY: Phoenix STATE: AZ ZIP: 85009

Arizona Professional Land Surveyors
Mr. Jerry Sudbeck,
TEL: (602)861-9621 FAX: 
P.O. Box 45234
CITY: Phoenix STATE: AZ ZIP: 85064
Arizona Transportation Organizations

Arizona Rail Passenger Association

TEL: FAX: 
9214 N. 5th Avenue 
CITY: Phoenix STATE: AZ ZIP: 85021

Arizona Rock Products Association

TEL: (602)271-0346 FAX: (602)255-0363 
1825 W. Adams Street 
CITY: Phoenix STATE: AZ ZIP: 85007

Arizona State Committee on Trails

TEL: (602)542-4662 FAX: 
Arizona State Parks, 1300 W. Washington 
CITY: Phoenix STATE: AZ ZIP: 85007

Asphalt Institute

Mr. Bob Campbell 
TEL: (602)655-8410 FAX: (602)827-2915 
123 N. Centennial Way, Suite 220-I 
CITY: Mesa STATE: AZ ZIP: 85201-6749

Associated Builders and Contractors

TEL: (602)998-2688 FAX: 
607 S. 48th Street 
CITY: Tempe STATE: AZ ZIP: 85282

Associated General Contractors of America

TEL: (602)252-3926 FAX: 
1825 W. Adams Street 
CITY: Phoenix STATE: AZ ZIP: 85007

Association for Commuter Transportation

Ms. Lori Singleton 
TEL: FAX: 
Salt River Project, Proj. Admin. Bldg., 1521 Project Dr 
CITY: Tempe STATE: AZ ZIP: 85281

Central Arizona Association of Governments (CAAG)

Mr. Brett Nelson 
TEL: (520)868-5878 FAX: (520)868-0551 
350 S. Main, P.O. Box 560 
CITY: Florence STATE: AZ ZIP: 85232-0560
Arizona Transportation Organizations

City of Tucson

Mr. Benny Young
TEL: (520)791-4372 FAX:
201 N. Stone
CITY: Tucson STATE: AZ ZIP: 85701

Federal Highway Administration

TEL: (602)379-3646 FAX: (602)379-3608
234 N. Central Avenue, Suite 330
CITY: Phoenix STATE: AZ ZIP: 85004

Governor's Office of Highway Safety

Mr. Alberto Gutier
TEL: (602)255-3216 FAX: (602)255-7265
3010 N. 2nd Street, Suite 105
CITY: Phoenix STATE: AZ ZIP: 80512

Institute of Transportation Engineers

Mr. Wulf Grote
TEL: (602)262-4619 FAX: (602)495-2002
Phoenix Public Transit, 302 N. 1st Ave., # 700
CITY: Phoenix STATE: Az ZIP: 85003

Intelligent Transportation Society of Arizona - OSHA

Ms. Linda Christopher
TEL: FAX:
2675 E. Broadway, Suite 206
CITY: Tucson STATE: AZ ZIP: 85716-5342

International City/County Management Association

Mr. Ralph Velez
TEL: (602)258-5786 FAX:
9555 W. Van Buren
CITY: Tolleson STATE: AZ ZIP: 85353

International Municipal Signal Association

Mr. Jan Siedier
TEL: (602)644-2160 FAX: (602)644-3130
City of Mesa, P.O. Box 1466
CITY: Mesa STATE: AZ ZIP: 85201

International Right of Way Association

Mr. Ronnie E. Dorsey
TEL: (602)506-8734 FAX:
P.O. Box 2651
CITY: Phoenix STATE: AZ ZIP: 85002
## Arizona Transportation Organizations

### League of Arizona Cities and Towns

TEL: (602)258-5786  
FAX:  
1820 W. Washington Street  
CITY: Phoenix  
STATE: AZ  
ZIP: 85007

### Maricopa Association of Governments (MAG)

Mr. Dennis Smith  
TEL: (602)254-6308  
FAX: (602)253-3874  
2901 W. Durango  
CITY: Phoenix  
STATE: AZ  
ZIP: 85009

### National Traffic Safety Institute

TEL: (520)620-6874  
FAX:  
100 N. Stone, Suite 608  
CITY: Tucson  
STATE: AZ  
ZIP: 85071

### Northern Arizona Council of Governments (NACOG)

Mr. Kenneth Sweet  
TEL: (520)774-1895  
FAX: (520)773-1135  
119 E. Aspen Avenue  
CITY: Flagstaff  
STATE: AZ  
ZIP: 86001

### Pima Association of Governments (PAG)

Mr. Tom Swanson  
TEL: (520)792-1093  
FAX: (520)620-6981  
177 N. Church, Suite 405  
CITY: Tucson  
STATE: AZ  
ZIP: 85701

### Regional Public Transit Authority (RPTA)

Mr. Kenneth Driggs  
TEL: (602)262-7242  
FAX: (602)495-2002  
302 N. First Avenue, Suite 700  
CITY: Phoenix  
STATE: AZ  
ZIP: 85003

### SouthEastern Arizona Governments Organization (SEAGO)

Mr. Joe Brannan  
TEL: (520)432-5031  
FAX: (520)432-5858  
118 Arizona Street  
CITY: Bisbee  
STATE: AZ  
ZIP: 85603

### Utility & Transportation Contractors Association of Arizona

Mr. Robert Bentley  
TEL: (602)265-1688  
FAX: (602)264-4936  
738 E. Flynn Lane, Suite A  
CITY: Phoenix  
STATE: AZ  
ZIP: 85014
Arizona Transportation Organizations

Western Arizona Council of Governments (WACOG)

Mr. Brian Babiars  
TEL: (520)782-1886  FAX: (520)329-4248  
224 S. 3rd Avenue  
CITY: Yuma  STATE: AZ  ZIP: 85364  

Yuma Metropolitan Planning Organization (YMPO)

Mr. Robert Vaughan  
TEL: (520)783-8911  FAX:  
200 W. 1st Street  
CITY: Yuma  STATE: AZ  ZIP: 85364
National Transportation Organizations

Advanced Transit Association

TEL: (703)591-8328  FAX: 9019 Hamilton Dr.
CITY: Fairfax  STATE: VA  ZIP: 22031

Airport Ground Transportation Association

TEL: (615)525-1108  FAX: 901 Scenic Dr.
CITY: Knoxville  STATE: TN  ZIP: 37919

American Association of State Highway & Transportation Officials

TEL: (202)824-5800  FAX: 444 N. Capitol St., NW, Suite 249
CITY: Washington  STATE: DC  ZIP: 20001

American Bus Association

TEL: (202)842-1645  FAX: 1100 New York Ave., NW, Suite 1050
CITY: Washington  STATE: DC  ZIP: 20005

American Public Transit Association

TEL: (202)898-4000  FAX: 1201 New York Ave., NW, Suite 400
CITY: Washington  STATE: DC  ZIP: 20005

American Public Works Association

TEL: (816)472-8100  FAX: 106 W. 11th, #1800
CITY: Kansas City  STATE: MO  ZIP: 64100-1806

American Road and Transportation Builders Association

TEL: (202)488-2722  FAX: 501 School St., SW, 8th Floor
CITY: Washington  STATE: DC  ZIP: 20024-2713

American Society of Transportation and Logistics

TEL: (717)748-8515  FAX: 216 E. Church St.
CITY: Lock Haven  STATE: PA  ZIP: 17745
National Transportation Organizations

American Traffic Safety Services Association
TEL: (703)888-5400 FAX: 5440 Jefferson Davis Highway
CITY: Fredericksb STATE: VA ZIP: 22407

American Trucking Association Foundation
TEL: (703)838-1966 FAX: 2200 Mill Rd.
CITY: Alexandria STATE: VA ZIP: 22314-4677

Association for Commuter Transportation
TEL: (202)383-3497 FAX: 1518 K. St., NW, Suite 503
CITY: Washington STATE: DC ZIP: 20005

Association of Transportation Practitioners
TEL: (301)870-6733 FAX: 19584 Club House Rd.2
CITY: Gaithersbur STATE: MD ZIP: 20879-3002

Bicycle Federation of America
TEL: (202)463-6622 FAX: 1506 21st St., NW, Suite 200
CITY: Washington STATE: DC ZIP: 20036

Canadian Urban Transit Association
TEL: (415)365-8800 FAX: 55 York St., Suite 901
CITY: Toronto STATE: Ontario ZIP: M5J 1R7

Clean Air Transport Systems
TEL: (415)854-6882 FAX: 301 Vine St.
CITY: Menlo Park STATE: CA ZIP: 84025

Community Transportation Association of America
TEL: (800)527-8279 FAX: 1440 New York Ave., NW, Suite 440
CITY: Washington STATE: DC ZIP: 20005
National Transportation Organizations

Eno Foundation for Transportation, Inc.

TEL: (703)729-7200      FAX: 
44211 Slatestone Ct.  
CITY: Lansdowne    STATE: VA    ZIP: 22075

Federal Highway Administration

TEL: (202)366-0650      FAX: 
400 Seventh Street, SW 
CITY: Washington    STATE: DC    ZIP: 20590

High Speed Rail/Maglev Association

TEL: (412)366-6887      FAX: 
500 McKnight Park Dr., #501-A 
CITY: Pittsburgh    STATE: PA    ZIP: 15237

Highway Engineering Exchange
Program, Design Engineering Branch

TEL: (512)46: 
c/o William Cr 
CITY: Austin 

Institute for Transportation Development

TEL: (202)857-1200      FAX: 
1778 Massachusetts Ave., NW, Suite 500 
CITY: Washington    STATE: DC    ZIP: 20036

Insurance Institute for Highway Safety

TEL: (202)247-1500      FAX: 
1005 North Glebe Rd., Suite 800 
CITY: Arlington    STATE: VA    ZIP: 22201
National Transportation Organizations

Intelligent Vehicle Highway Society of America
TEL: (202)484-4847  FAX:
400 Virginia Ave., SW, Suite 800
CITY: Washington  STATE: DC  ZIP: 20024-2730

Interdiscipline Transportation Studies
TEL: (704)547-4308  FAX:
CCARC Bldg., Rm. 276, UNCC
CITY: Charlotte  STATE: NC  ZIP: 28223

International Bridge, Tunnel and Turnpike Association
TEL: (202)659-4620  FAX:
2120 L St., NW., Suite 305
CITY: Washington  STATE: DC  ZIP: 20037

International Downtown Association
TEL: (202)783-4983  FAX:
915 15th St., NW, Suite 600
CITY: Washington  STATE: DC  ZIP: 20005

International Road Federation
TEL: (202)554-2106  FAX:
525 School St., SW
CITY: Washington  STATE: DC  ZIP: 20024

International Taxicab and Livery Association
TEL: (301)848-7501  FAX:
3849 Farragut Ave.
CITY: Kensington  STATE: MD  ZIP: 20886

International Union of Public Transport
TEL: 32 2 873 61 00 (51.)  FAX:
Avenue de l'Uruguay 19
CITY: Brussels  STATE: Belgium  ZIP: B1050

Monorail Society
TEL: (510)745-7887  FAX:
36450 Diego Dr.
CITY: Fremont  STATE: CA  ZIP: 94536-5559
National Transportation Organizations

National Association of Counties
TEL: (202)393-6226 FAX: 440 First St., NW, 8th Floor
CITY: Washington STATE: DC ZIP: 20001

National Association of Regional Councils
TEL: (202)457-0710 FAX: 1700 K St., NW, Suite 1300
CITY: Washington STATE: DC ZIP: 20006

National Committee on Uniform Traffic Control Devices
TEL: (202)857-1224 FAX: 1778 Massachusetts Ave., NW, Suite 500
CITY: Washington STATE: DC ZIP: 20036-1993

National League of Cities
TEL: (202)626-3000 FAX: 1301 Pennsylvania Ave., NW
CITY: Washington STATE: DC ZIP: 20004

National Parking Association
TEL: (202)296-4336 FAX: 1112 18th St., NW, #300
CITY: Washington STATE: DC ZIP: 20036

Pedestrian Federation of America
TEL: (202)453-6622 FAX: 1508 21st. NW
CITY: Washington STATE: DC ZIP: 20038

Permanent International Association of Road Congresses
TEL: (33)1.46.33.71.90 FAX: 27 Rue Guenegaud
CITY: Paris STATE: France ZIP: 75008

Road Information Program
TEL: (202)466-6706 FAX: 1200 18th St., NW, Suite 314
CITY: Washington STATE: DC ZIP: 20036
National Transportation Organizations

Society of Automotive Engineers

TEL: (412)776-4841 FAX: 400 Commonwealth Dr.
CITY: Warrandale STATE: PA ZIP: 15095-0001

Surface Transportation Policy Project

TEL: (202)939-3470 FAX: 1400 18th St., NW, Suite 300
CITY: Washington STATE: DC ZIP: 20036

Telecommuting Advisory Council

TEL: (213)975-7495 FAX: c/o Carol Nolan, Business Market South, 1010 Wilshire
CITY: Los Angeles STATE: CA ZIP: 90017

Transportation Planning Division, APA

TEL: (202)872-0611 FAX: c/o Eric Ferguson, Georgia Tech, Graduate City Plan
CITY: Atlanta STATE: GA ZIP: 30332

Transportation Research Board

TEL: (202)334-2934 FAX: 2101 Constitution Ave., NW
CITY: Washington STATE: DC ZIP: 20418

Transportation Research Forum

TEL: (703)525-1191 FAX: 1730 N. Lynn St., #502
CITY: Arlington STATE: VA ZIP: 22209

Urban and Regional Information Systems Association

TEL: (202)289-1685 FAX: 900 Second St., NE., Suite 304
CITY: Washington STATE: DC ZIP: 20002

Urban Institute

TEL: (202)833-7200 FAX: 2100 M Street, NW
CITY: Washington STATE: DC ZIP: 20037
National Transportation Organizations

Urban Land Institute

TEL: (202)624-7000   FAX: 
625 Indiana Avenue, NW, Suite 400
CITY: Washington   STATE: DC   ZIP: 20004-2930

Urban Transportation Division, ASCE

TEL: (800)548-ASCE   FAX: 
345 East 47th St.
CITY: New York   STATE: NY   ZIP: 10017-2398

Women's Transportation Seminar

TEL: (617)227-6681   FAX: 
The Engineering Center, One Walnut Street
CITY: Boston   STATE: MA   ZIP: 02108
Other Resource Catalogues

1993 Course Catalog
National Highway Institute

TEL: (702)285-2770  FAX: (702)285-2791
6200 Georgetown Pike
CITY: McLean  STATE: VA  ZIP: 22101

Annual Catalog of Transportation Engineering Continuing Education Programs
Northwestern University Traffic Institute

TEL: (708)491-5040  FAX: (708)491-5270
Northwestern University Traffic Institute, 405 Church
CITY: Evanston  STATE: IL  ZIP: 60203

Human Resources Development Catalog
Arizona Department of Transportation

TEL: (602)254-7613  FAX: (602)256-7648
1130 N. 22nd Avenue
CITY: Phoenix  STATE: AZ  ZIP: 85009

Intermodal Technical Assistance for Transportation Planners and Policymakers
U.S. Department of Transportation

This 72 page report identifies intermodal technical assistance products available from

TEL:  FAX:
U.S. Department of Transportation; 400 Seventh Stre
CITY: Washington  STATE: DC  ZIP: 20590

Alliance for Construction Excellence
Del E. Webb School of Construction

TEL: (602)965-5324  FAX: (602)965-8172
College of Engineering, ASU, Box 870204
CITY: Tempe  STATE: AZ  ZIP: 85287-0204

General Information Booklet
National Institute for Certification in Engineering Technologies

TEL: (703)684-2837  FAX:
1420 King Street
CITY: Alexandria  STATE: VA  ZIP: 22314-2715

Institute 94/95 Course Catalog: State of Arizona Courses in Excellence and Quality
State of Arizona Office for Excellence in Government Institute

TEL: (602)255-7171  FAX: (602)256-7646
1130 N. 22nd Avenue
CITY: Phoenix  STATE: AZ  ZIP: 85009

Keeping Pace with Geosynthetic Technology through the IFAI Resource Library
Industrial Fabrics Association International

TEL: (612)222-2508  FAX: (612)222-8215
345 Cedar Street, Suite 800
CITY: St. Paul  STATE: Minnes  ZIP: 55101
Other Resource Catalogues

McTrans
University of Florida Transportation Research Center

TEL: (904)392-0378 FAX: (904)392-3224
512 Weil Hall, P.O. Box 116585
CITY: Gainesville STATE: Florida ZIP: 32611-6585

Seminar Calendar
Arizona State Environmental Technology Training Center

Ms. Beth Walters
TEL: (602)722-7872 FAX: (602)722-7825
Pima Community College, 8181 E. Irvington Rd.
CITY: Tucson STATE: AZ ZIP: 85709-4000

Technology Applications Program
Federal Highway Administration

TEL: (202)366-9218 FAX:
Office of Technology, FHWA, 400 7th Street, S.W.
CITY: Washington STATE: DC ZIP: 20590

PC-TRANS
University of Kansas Transportation Center

TEL: (913)864-5655 FAX: (800)245-8760
PC-TRANS Magazine, 2011 Learned Hall
CITY: Lawrence STATE: Kansas ZIP: 66045

State and Local Highway Training and Technology Resources
U.S. Department of Transportation

TEL: (202)393-2792 FAX:
T2 Clearinghouse American Public Works Association
CITY: Washington STATE: DC ZIP: 20004

Video Catalog
Arizona Technology Transfer Center

TEL: (602)965-2744 FAX: (602)965-2728
CATSR Arizona Local Technology Transfer Program,
CITY: Tempe STATE: AZ ZIP: 85287
Transportation Information Clearinghouses

AASHTO Metrication Clearinghouse
Texas Transportation Institute

TEL: (409)845-5770 FAX: (409)845-9848
707 Texas Avenue South, Suite 106D
CITY: College Stat STATE: TX ZIP: 77840

Federal Transit Administration Safety and Security Clearinghouse
DTS-38 USDOT/Volpe National Transportation Systems Center

TEL: (617)494-2081 FAX: (617)494-2684
Kendall Square
CITY: Cambridge STATE: MA ZIP: 02142

ITE Clearinghouse
Institute of Transportation Engineers

TEL: (202)554-8050 FAX: (202)863-5486
525 School Street SW, Suite 410

Technology Sharing Program
USDOT

TEL: (202)366-4208 FAX: (202)366-3272
400 Seventh Street S.W. Room
CITY: Washington STATE: DC ZIP: 20590

Bureau of Transportation Statistics
USDOT/BTS

TEL: (202)366-3282 FAX: (202)366-3640
400 Seventh Street S.W. Room 2104
CITY: Washington STATE: DC ZIP: 20590

International ITS Information Clearinghouse
ITS America

TEL: (800)37-IVSA FAX: (202)484-3483
Virginia Avenue, SW, Suite 800
CITY: Washington STATE: DC ZIP: 20024

LTAP Technology Transfer Clearinghouse
American Public Works Association

TEL: (202)347-7267 FAX: (202)737-9153
1301 Pennsylvania Avenue NW, Suite 501
CITY: Washington STATE: DC ZIP: 20004

The National Bicycle and Pedestrian Clearinghouse
NBPC

TEL: (202)463-8405 FAX: (202)463-6625
1506 21st Street, NW, Suite 210
CITY: Washington STATE: DC ZIP: 20036
Transportation Information
Clearinghouses

University Transportation Center Program
Clearinghouse
Pennsylvania Transportation Institute

TEL: (814)863-3614   FAX: (814)865-3039
Penn State University, Research Office Building
CITY: University P STATE: PA    ZIP: 16802
Transportation Mailing Lists (Internet)

ALT-TRANSP

Bicycle, pedestrian, HOV and transit; policy issues to reduce non-motorized transport,

Mr. Bob Noland, moland@aris.ss.ucl.edu
TEL: FAX:
listserv@uci.edu
CITY: STATE: ZIP:

CABO

California statewide bicycle issues

Mr. Kevin Karplus, karplus@cse.ucsc.edu
TEL: FAX:
majordomo@cycling.org
CITY: STATE: ZIP:

BIKE-COMMUTE

Bicycle commuting; bicycle transportation and needed improvements

majordomo@cycling.org
TEL: FAX:
majordomo@cycling.org
CITY: STATE: ZIP:

DOCUMENT REVIEWS

Information on transportation issues, policies, technologies, and related topics

Mr. John Semmens
TEL: FAX: (602)831-5677
http://www.wsdot.wa.gov/
CITY: STATE: ZIP:

DOT

Transportation issues; highway design, structures & materials, and planning

Mr. Don Stone, dstone@trmx2@dot.ca.gov or dstone
tel: fax:
dot@t3ew.dot.ca.gov or dot%t3ew@dot.ca.gov
CITY: STATE: ZIP:

EV

Electric vehicles: state of the art and future directions

Mr. Clyde R. Visser, KD6GWNvisser@ucrmath.ucr.edu
TEL: FAX:
listserv@sjsuvml.sjsu.edu
CITY: STATE: ZIP:

FLEXWORK

Telecommuting

TEL: FAX:
listserv@psuhmc.hmc.psu.edu
CITY: STATE: ZIP:

IVHS-1

Intelligent Transportation Systems

Mr. Demin Xiong, xii@ornl.gov
TEL: FAX:
majordomo@mailhub.ornl.gov
CITY: STATE: ZIP:
Transportation Mailing Lists (Internet)

**OHIOBIKE**

Forum for discussion for advocacy groups; bulletin for meetings and other bicycle-

Mr. Chuck Smith, chksmith@wpdis01.wpafb.af.mil  
TEL:  
FAX:  
majordomo@cycling.org  
CITY:  
STATE:  
ZIP:  

**RAILROAD**

Ms. Geert K. Marien, gkmqc@cunyvm.cuny.edu  
TEL:  
FAX:  
listserv@cunyvm.cuny.edu  
CITY:  
STATE:  
ZIP:  

**REMOTE-WORK**

Telecommuting (telework), working remotely

Mr. Sean P. Curley, sean@unify.com  
TEL:  
FAX:  
majordomo-request@unify.com  
CITY:  
STATE:  
ZIP:  

**TRANSIT**

Transit issues discussion list

Mr. Nick Donaldson, ndonald@ccm.umanitoba.ca  
TEL:  
FAX:  
listserv@gitvm1.gatech.edu  
CITY:  
STATE:  
ZIP:  

**TRANSIT ALTERNATIVES**

Future public transportation technology (e.g. PRT, RUF, EVs, etc.)

Mr. Terry Nathan, terryn@bga.com  
TEL:  
FAX:  
majordomo@bga.com  
CITY:  
STATE:  
ZIP:  

**TRANSIT VILLAGE**

Encourage intensification of land uses near transit

Mr. Val Joseph Menotti, val@ced.berkeley.edu  
TEL:  
FAX:  
listproc@ced.berkeley.edu  
CITY:  
STATE:  
ZIP:  

**TRANSP-L**

Transportation Topics in general

Mr. Jonathan Gifford, holt@gmu.edu or mclark7@gm  
TEL:  
FAX:  
lisproc@gmu.edu  
CITY:  
STATE:  
ZIP:  

**TSS-LIST**

Transportation Modeling

TEL:  
FAX:  
liserv@mitvma.mit.edu  
CITY:  
STATE:  
ZIP:  

IV - 30
Transportation Newsletters

Arizona Planning

Arizona Planning Association

Ms. Susan Ray
TEL: (602)912-5324    FAX: (602)957-4828
3900 East Camelback Road, Suite 200
CITY: Phoenix    STATE: AZ    ZIP: 85018-2689

ITE News

Arizona Section of the Institute of Transportation Engineers

Mr. Bob Steel, Editor
TEL: (602)994-2535    FAX: (602)994-7971
City of Scottsdale, P.O. Box 1000
CITY: Scottsdale    STATE: AZ    ZIP: 85252-1000

Newsletter

Arizona Geographic Information Council

Mr. Michael Collins
TEL: (602)542-4061    FAX: (602)542-2600
1616 West Adams
CITY: Phoenix    STATE: AZ    ZIP: 85007

The Arizona Civil Engineer

American Society of Civil Engineers

Mr. Allan J. Smolke, Editor
TEL: (602)553-8817    FAX: (602)553-8816
Gannett Fleming, Inc., 3001 E. Camelback Rd, Suite
CITY: Phoenix    STATE: AZ    ZIP: 85016-4498

AZ Transportation Tech Transfer

Arizona State University Center for Advance Transportation Systems

Mr. John Hopkins, Manager
TEL: (602)254-7613    FAX: (602)256-7648
College of Engineering and Applied Science, Box 876
CITY: Tempe    STATE: AZ    ZIP: 85287-6306

Kachina Chapter 28

International Right of Way Association

Mr. Ronnie E. Dorsey
TEL: (602)506-8734    FAX: (602)506-8734
P.O. Box 2651
CITY: Phoenix    STATE: AZ    ZIP: 85002

State Data Center Newsletter

Arizona Department of Economic Security

Ms. Linda Stock, Manager
TEL: (602)542-5984    FAX: (602)542-6474
Site Code 045, P.O. Box 6123
CITY: Phoenix    STATE: AZ    ZIP: 85005

Transit On The Move

Regional Public Transportation Authority

TEL: (602)262-7242    FAX: (602)495-2002
302 N. First Avenue, Suite 700
CITY: Phoenix    STATE: AZ    ZIP: 85002
Transportation Newsletters

Westernite

Institute of Transportation Engineers

Mr. Steve Colman, Editor
TEL: (510)939-1742 FAX:
Dowling Associates, 180 Grand Avenue, Suite 995
CITY: Oakland STATE: CA ZIP: 94612
TRANSPORTATION RELATED BULLETIN BOARDS

AASHTO ELECTRONIC INFORMATION SYSTEM (EIS)

To provide transportation related services to member departments

Ms. Donna Tamburelli, David Jackson
TEL: (202) 624-5800  FAX:
Advantis
CITY: Tampa  STATE: FL  ZIP:

ENGINEERING BULLETIN BOARD SYSTEM (EBBS)

Free downloading: $100/year, 14,400 bps, Anyone

Mr. Andrew Skwara
TEL: (805) 259-8902  FAX: (805) 255-2917
CITY: Valencia  STATE: CA  ZIP:

INFOTAP

Encourage networking among engineering and enforcement departments.

Ms. Judith Lee
TEL: (510) 642-1006  FAX: (510) 642-7088
University of California
CITY: Berkeley  STATE: CA  ZIP:

ITE BBS

Education, announcements, positions available, messages, technical dialogue

Mr. Juan Morsles
TEL: (202) 554-8050  FAX: (800) 982-4683
Institute of Transportation Engineers
CITY: Washington  STATE: DC  ZIP:

COUNTY ENGINEERS ASSOCIATION OF OHIO (CEAO) BBS

For the support of Ohio's county engineers, their constituents, and consultants

Mr. Michael Mook, Ross Wilson
TEL: (614) 482-5318  FAX: (614) 481-3194
Franklin County Engineers
CITY: Columbus  STATE: OH  ZIP:

FHWA ELECTRONIC BULLETIN BOARD SYSTEM (FEBBS)

Distribute info on FHWA programs, conferences

Mr. Carl Shea, Ms. Donna Avallone
TEL: (202) 366-1120  FAX: (202) 366-3764
Headquarters Program Offices of FHWA
CITY:  STATE: ZIP:

INTERNATIONAL ITS INFORMATION CLEARINGHOUSE

$12/hour, 14,400 bps, Members and non-members who buy software

Mr. Morris Basley
TEL: N/A  FAX: 1-800-37-IVHSA
ITS America
CITY: Washington  STATE: DC  ZIP:

LTAP BBS

None, 14,400 bps, Anyone with certain information—password protected

Mr. Phat Tran, Ross Yitako
TEL: (906) 487-2102  FAX: (906) 487-2148
Transportation Technology Transfer Center, MTU
CITY: Huoughton  STATE: Michig  ZIP:
Transportation Related Bulletin Boards

MCLINK

Provide for information exchange on transportation software.

Mr. Bill Sampson
TEL: (904)392-0378 FAX: (904)392-325
McTrans Center
CITY: Gainsville STATE: FL ZIP:

NATIONAL IVHS INFORMATION CLEARINGHOUSE

Legislatively mandated to keep interested individuals informed of IVHS and IVHS

Mr. Mick Baitinger
TEL: (202)973-7860 FAX:
IVHS America
CITY: Washington STATE: DC ZIP:

OAQPS TTN

To provide information and technology exchange in different areas of air pollution

Mr. Harschel Rorex, Phillip Dickerson
TEL: (919)541-5384 FAX: (919)541-5742
U.S. EPA, Research
CITY: Triangle Par STATE: NC ZIP:

RENO TRAFFIC

Dissemination of traffic engineering information to public and transportation

Mr. Jim Pasion
TEL: (702)334-2256 FAX: (702) 334-2257
City of Reno, Traffic Operations Division
CITY: Reno STATE: NV ZIP:

MICHIGAN TECHNOLOGICAL UNIVERSITY TTTC BBS

To Provide news, new publications, computer programs, and regulations.

Mr. Phat Tran, Mr. Derek Calomeni
TEL: (906)487-2102 FAX: (906)487-2148
Transportation Technology Transfer Center, MTU
CITY: Houghton STATE: MI ZIP:

NJDOT BBS

Free, 28,800 bps, Anyone

Mr. James J. Panzitta
TEL: (609)530-3508 FAX: (609)530-5151
New Jersey Department of Transportation
CITY: Trenton STATE: NJ ZIP:

PC-TRANSport

To provide a 24-hour source of software and information for PC-TRANS and

Mr. Jonathan Fang
TEL: (913)864-5658 FAX: (913)854-5058
Univ. of Kansas, Transportation Center
CITY: Lawrence STATE: KS ZIP:

T2 BBS

Free, 28,800 bps, Anyone

Mr. Stan Sanders
TEL: (206)705-7477 FAX: (206)705-6840
WSDOT, T2 Center
CITY: Olympia STATE: WA ZIP:
Facilitate the exchange of information to aid in improving transit efficiency

Mr. Eric Marx, Vida Covington
TEL: (800)522-7786 FAX: (301)588-0188
PPTN
CITY: Silver Sprin STATE: MD ZIP:

WSDOT/UTECC

Provide program applications and WSDOT amendments and special provisions.

Mr. Stan Sanders
TEL: (206)705-7373 FAX: (206)705-6840
WSDOT Local Programs Division
CITY: Olympia STATE: WA ZIP:

Provide technology transfer information

Mr. Jim Hanks
TEL: FAX: Transportation Training Division, TAMU
CITY: College Stat STATE: TX ZIP:
Transportation Related WWW Sites
(Internet)

Bureau of Transportation Statistics

Description of BTS products; ordering information; Transportation Statistics
TEL: (202)366-DATA FAX: (202)366-3640
http://www.bts.gov/

Caltrans

Traffic Reports
Mr. Don Stone, E-mail: dstone@tmx2.dot.ca.gov
TEL: FAX:
http://www.scubed.com 8001 GET/caltrans/sdtext_su

Delaware Transit

Transit info for Delaware transit (fares, routes, schedules)
E-mail: webmaster@www.dlcc.edu
TEL: FAX:
http://www.dlcc.edu/edu/dart/

Global Cycling Network (VELONET)

Cycling news, info on bicycle organization meetings, and sources on the internet.
Mr. Patrick Goebel
TEL: (415)321-2052 FAX: (415)321-1192
http://cycling.org/

Caltrans Information
Mr. Don Stone, E-mail: dstone@tmx2.dot.ca.gov
TEL: FAX:
http://www.scubed.com 8001 GET/caltrans/sdtext_su

Cransfield University Centre for Logistics and Transportation

Research and Staff info.

TEL: FAX:
http://www.cranfield.ac.uk/som/ccit/ccit

Eco-Motion

Electric car info; resources, news groups, news readers, commercial info
Mr. Steven Lough E-mail: slough@halcyon.com
TEL: (206)524-1351 FAX:

Infrastructure Technology Institute (ITI)
Northwestern University

Research Info; publications, position papers, technical reports; research assistant
Ms. Renee McHenry, E-mail: R-McHenry@nwu.edu
TEL: FAX:
http://utu.acns.nwu.edu
Transportation Related WWW Sites
(Internet)

ITS Online

News and special coverage of ITS issues; legislative updates and forums.
Mr. Jerry Werner, E-mail: itsol@io.com
TEL: FAX:
http://www.io.com/-isol/
CITY: STATE: ZIP:

Pittsburgh Transit

Still under construction. System map; route list; system info.
Mr. Derrick J. Bradshear, E-mail: db74+@andrew.cmu
TEL: FAX:
http://transit.dementia.org/transit-guide
CITY: STATE: ZIP:

PRRT

Personal Rapid Transit Information

Mr. Rick Komerska, E-mail: komerska@europa.its.uci.
TEL: FAX:
http://pandora.its.uci.edu/~komerska/PRT/PRT_Home
CITY: STATE: ZIP:

U.S. Department of Transportation

This WWW site is still under construction, but will contain general info on the USDOT,
TEL: FAX:
http://www.dot.gov or E-mail: gus@dot.gov
CITY: STATE: ZIP:

Minnesota DOT

Mn/DOT Gopher; links to Swedish and Finnish sources.
Mr. Alan Johnson, E-mail: al@nic.dot.state.mn.us
TEL: FAX:
http://www.dot.mn.us
CITY: STATE: ZIP:

Princeton ITS Program

Information on highway transit and rail systems, timetables, etc. Transportation
ITS Program, Princeton, dhb@dragon.princeton.edu
TEL: FAX:
http://dragon.princeton.edu/~dhb/
CITY: STATE: ZIP:

San Francisco Bay Transit

Transit info in the San Francisco Bay area.
Mr. Michael Sheikh, E-mail: sheikh@uclink.berkeley.e
TEL: FAX:
http://server.berkeley.edu/transit/
CITY: STATE: ZIP:

UNC Institute for Transportation Research and Education

Description of ITRE staff and programs, county street data; construction info.
Mr. Paul Jones, E-mail: paul.jones@unc.edu
TEL: FAX:
http://itre.unc.edu/
CITY: STATE: ZIP:
Transportation Related WWW Sites
(Internet)

University of Leeds, Institute of Transportation Studies

Research; contracts; information on European Commission
Dr. Yim Ling Siu, ysiu@its-server.novell.leeds.ac.uk
TEL: FAX:
http://www.its.leeds.ac.uk.8000/
CITY: STATE: ZIP:

Williamette Pedestrian Coalition

Non-profit volunteer organization working to promote a better pedestrian environment.
Ms. Nancy Christie, E-mail: christie@admin.ogi.edu
TEL: FAX:
http://www.telport.com/-walking/pednot.htm
CITY: STATE: ZIP:

Washington State DOT

Vendor database; Transit Master Plan for Central Puget Sound Regional
Mr. Mark Nelson, E-mail: mnelson@wsdot.wa.gov
TEL: FAX:
http://www.wsdot.wa.gov/
CITY: STATE: ZIP: