

ARIZONA DEPARTMENT OF TRANSPORTATION

REPORT NUMBER: FHWA-AZ95-441

# ARIZONA TRANSPORTATION TECHNOLOGY TRANSFER RESOURCE CATALOG

## Final Report

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**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

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**Technical Report Documentation Page**

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

## APPROXIMATE CONVERSIONS TO SI UNITS

Symbol When You Know Multiply By To Find Symbol

### LENGTH

In	Inches	2.54	centimetres	cm
ft	feet	0.3048	metres	m
yd	yards	0.914	metres	m
mi	miles	1.61	kilometres	km

### AREA

In <sup>2</sup>	square inches	645.2	centimetres squared	cm <sup>2</sup>
ft <sup>2</sup>	square feet	0.0929	metres squared	m <sup>2</sup>
yd <sup>2</sup>	square yards	0.836	metres squared	m <sup>2</sup>
mi <sup>2</sup>	square miles	2.59	kilometres squared	km <sup>2</sup>
ac	acres	0.395	hectares	ha

### MASS (weight)

oz	ounces	28.35	grams	g
lb	pounds	0.454	kilograms	kg
T	short tons (2000 lb)	0.907	megagrams	Mg

### VOLUME

fl oz	fluid ounces	29.57	millilitres	mL
gal	gallons	3.785	litres	L
ft <sup>3</sup>	cubic feet	0.0328	metres cubed	m <sup>3</sup>
yd <sup>3</sup>	cubic yards	0.0765	metres cubed	m <sup>3</sup>

NOTE: Volumes greater than 1000 L shall be shown in m<sup>3</sup>.

### TEMPERATURE (exact)

°F	Fahrenheit temperature	5/9 (after subtracting 32)	Celsius temperature	°C
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## APPROXIMATE CONVERSIONS TO SI UNITS

Symbol When You Know Multiply By To Find Symbol

### LENGTH

mm	millimetres	0.039	Inches	In
m	metres	3.28	feet	ft
m	metres	1.09	yards	yd
km	kilometres	0.621	miles	mi

### AREA

mm <sup>2</sup>	millimetres squared	0.0016	square inches	in <sup>2</sup>
m <sup>2</sup>	metres squared	10.764	square feet	ft <sup>2</sup>
km <sup>2</sup>	kilometres squared	0.39	square miles	mi <sup>2</sup>
ha	hectares (10 000 m <sup>2</sup> )	2.53	acres	ac

### MASS (weight)

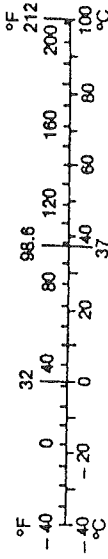
g	grams	0.0353	ounces	oz
kg	kilograms	2.205	pounds	lb
Mg	megagrams (1 000 kg)	1.103	short tons	T

### VOLUME

mL	millilitres	0.034	fluid ounces	fl oz
L	litres	0.264	gallons	gal
m <sup>3</sup>	metres cubed	35.315	cubic feet	ft <sup>3</sup>
m <sup>3</sup>	metres cubed	1.308	cubic yards	yd <sup>3</sup>

### TEMPERATURE (exact)

°C	Celsius temperature	9/5 (then add 32)	Fahrenheit temperature	°F
----	---------------------	-------------------	------------------------	----



These factors conform to the requirement of FHWA Order 5190.1A.

\* SI is the symbol for the International System of Measurements

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# I. INTRODUCTION

Arizona Technology Transfer Resource Catalog is a publication of the Arizona Local Technology Transfer (T<sup>2</sup>) Program, hereafter referred to as the T<sup>2</sup> 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 T<sup>2</sup> 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 T<sup>2</sup> Program, is administered under the Center for Advanced Transportation Systems Research (CATSR), located at the campus of Arizona State University in Tempe. The T<sup>2</sup> 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, T<sup>2</sup> 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 T<sup>2</sup> program in each of the 50 states, and four additional T<sup>2</sup> Centers serve the needs of American Indian Tribal Governments.

In addition to preparation of this catalog, the current services of the T<sup>2</sup> 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 T<sup>2</sup> 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 T<sup>2</sup> 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 T<sup>2</sup> Program continuously seeks additional resources for the catalog and comments upon the usefulness of the catalog. You may contact the T<sup>2</sup> Program Manager or staff at:

Center for Advanced Transportation Systems Research (CATSR)  
Arizona T<sup>2</sup> 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, ISTEA, 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	Audience
Media type	Date of production and revision
Resource title	Cost/terms
Description of the resource	Duration
Provider	Offer date
Contact name	Location
Contact phone/fax numbers	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)

Bob Campbell  
The Asphalt Institute  
123 N. Centennial Way, Suite 220-I  
Mesa, AZ 85201-6749  
(602) 655-8410(voice)  
(602) 827-2915(fax)

Joe Heal  
10352 N. Attaway Road  
Coolidge, Arizona 85228  
(520) 723-7805 (voice)

Gonzalo Huerta  
Arizona Western College  
P.O. Box 929  
Yuma, Arizona 85366  
(520) 344-7567 (voice)  
(520) 344-7730 (fax)

Mike Kohout  
Arizona Chapter - American Concrete Institute  
P.O. Box 52140  
Phoenix, Arizona 85072  
(602) 220-5631 (voice)  
(602) 220-5348 (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 Hall  
Arizona Department of Transportation  
Human Resources Development Center  
1130 N. 22nd Avenue  
Phoenix, AZ 85009  
(602) 255-7613 (voice)  
(602) 256-7648 (fax)

John Hopkins  
CATSR  
Arizona T<sup>2</sup> Program  
Arizona State University  
Box 876306  
Tempe, AZ 85287  
(602) 965-2744 (voice)  
(602) 965-2728 (fax)

Bill Karlainsey  
Eastern Arizona College  
Thatcher, Arizona 85552-0769  
(520) 428-8430 (voice)  
(520) 428-8462 (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)

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

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

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)

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)

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

Topic Category
Media Type ( workshop, videocassettes, etc)
Media Type ( workshop, videocassettes, etc)
Title
Description (maximum of 255 characters)
Provider:
Contact:
Phone
Fax
Audience
Date/Date Revised
Cost
Duration
Offer Date
Location
Prerequisites

## 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 T<sup>2</sup> Program in order for us to continually improve our services.

To: T<sup>2</sup> Program Manager

From:
Telephone:
Address:
Comments:

Please mail your comments to:

John Hopkins  
Center for Advanced Transportation Systems Research (CATSR)  
Arizona T<sup>2</sup> Program  
Arizona State University  
Box 876306  
Tempe, AZ 85287  
(602) 965-2744 (voice)    (602) 965-2728 (fax)

## II. WORKSHOPS/COURSES

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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 standardize 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.

**Provider:** Asphalt Institute  
**Contact:** Bob Campbell  
**Phone:** (602)655-8410  
**FAX:** (602)827-2915  
**Audience:** Construction Inspectors, Technicians

**Date/Revised:** 1994  
**Cost:** \$65 to \$100  
**Duration:** 1 day  
**Offer Date:** To be scheduled  
**Location:** To be scheduled  
**Prereqs:** Construction experience

### 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.

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

**Date/Revised:** 1995  
**Cost:** \$0  
**Duration:** 1 day  
**Offer Date:** April (Once a year)  
**Location:** Phoenix  
**Prereqs:** None

### 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.

**Provider:** CATSR/Technology Transfer  
**Contact:** John Hopkins, Manager  
**Phone:** (602)965-2744  
**FAX:** (602)965-2728  
**Audience:** Engineers and Field Technicians

**Date/Revised:** 1995  
**Cost:** \$35  
**Duration:** 1 day  
**Offer Date:** To be scheduled  
**Location:** To be scheduled  
**Prereqs:** Pavement management experience

### 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.

**Provider:** CATSR/Technology Transfer  
**Contact:** John Hopkins, Manager  
**Phone:** (602)965-2744  
**FAX:** (602)965-2728  
**Audience:** Engineers, Flood Plain Administrators, Flood Control Regulators

**Date/Revised:** 1995  
**Cost:** \$50  
**Duration:** 1 day  
**Offer Date:** To be scheduled  
**Location:** To be scheduled  
**Prereqs:** Drainage design experience

## Road Surface and Substructure

### WORKSHOP

#### Technician Grade 1

This workshop provides information on concrete placement to prepare technicians.

**Provider:** American Concrete Institute

**Contact:** Mike Kohout

**Phone:** (602)220-5631

**FAX:** (602)220-5348

**Audience:** Technicians

**Date/Revised:** 1995

**Cost:** \$115

**Duration:** 1 day

**Offer Date:** To be scheduled

**Location:** Phoenix

**Prereqs:** Construction experience

### 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.

**Provider:** CATSR/ Technology Transfer

**Contact:** John Hopkins, Manager

**Phone:** (602)965-2744

**FAX:** (602)965-2728

**Audience:** Engineers

**Date/Revised:** 1994

**Cost:** \$35

**Duration:** 1 day

**Offer Date:** To be scheduled

**Location:** To be scheduled

**Prereqs:** Construction Experience

## 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."

**Provider:** National Highway Institute

**Contact:** Steve Schwab

**Phone:** (602)279-1234

**FAX:** (602)279-1411

**Audience:** Engineers, Construction Workers, Field Technicians, Bridge Inspectors

**Date/Revised:** 1990

**Cost:** \$20,000 for class of 40

**Duration:** 2 weeks

**Offer Date:** To be scheduled

**Location:** To be scheduled

**Prereqs:** Bridge inspection, Bridge design

## 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.

**Provider:** Arizona Radiation Regulatory Agency

**Contact:** Bob Hall

**Phone:** (602)255-7613

**FAX:** (602)256-7648

**Audience:** Operators/transporters of radioactive equipment

**Date/Revised:** 1995

**Cost:** \$0

**Duration:** 2 days

**Offer Date:** To be scheduled

**Location:** To be scheduled

**Prereqs:** None

### 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

**Provider:** Arizona Technology Transfer Program

**Contact:** John Hopkins, Manager

**Phone:** (602)965-2744

**FAX:** (602)965-2728

**Audience:** Traffic Technicians

**Date/Revised:** 1994

**Cost:** \$35

**Duration:** 1 day

**Offer Date:** To be scheduled

**Location:** To be scheduled

**Prereqs:** Traffic technician level



## 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.

**Provider:** Arizona Technology Transfer Program  
**Contact:** John Hopkins, Manager  
**Phone:** (602)965-2744  
**FAX:** (602)965-2728  
**Audience:** Public Works Directors, Engineers, Traffic Technicians  
**Date/Revised:** 1994  
**Cost:** \$35  
**Duration:** 1 day  
**Offer Date:** To be scheduled  
**Location:** To be scheduled  
**Prereqs:** Some traffic control experience

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

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

**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

### **WORKSHOP** **Public Dispatch**

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:** Technicians, Dispatchers  
**Date/Revised:** 1995  
**Cost:** \$140 - \$220  
**Duration:** 1 day  
**Offer Date:** To be scheduled  
**Location:** To be scheduled  
**Prereqs:** Traffic technician level

### **WORKSHOP** **Roadway Lighting**

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, Engineers  
**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** **Signs & Markings**

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** **Traffic Signals**

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, Engineers

**Date/Revised:** 1995

**Cost:** \$140 - \$220

**Duration:** 1 day

**Offer Date:** To be scheduled

**Location:** To be scheduled

**Prereqs:** Traffic technician level

## Computer Methods

### WORKSHOP

#### Freeway Systems Analysis Program (FRESYS)

Software application and technical training for freeway capacity analysis

**Provider:** Freeway Systems Research

**Contact:** Mike Penic

**Phone:** (602)786-3170

**FAX:**

**Audience:** Traffic Engineers

**Date/Revised:** 1995

**Cost:** \$300 - \$800

**Duration:** 1 - 3 days

**Offer Date:** To be scheduled

**Location:** To be scheduled

**Prereqs:** Traffic Engineering

### WORKSHOP

#### Pavement Management

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.

**Provider:** Arizona Technology Transfer Program

**Contact:** John Hopkins, Manager

**Phone:** (602)965-2744

**FAX:** (602)965-2728

**Audience:** Engineers, Administrators, Field Technicians

**Date/Revised:** 1994

**Cost:** \$55

**Duration:** 1 day

**Offer Date:** To be scheduled

**Location:** To be scheduled

**Prereqs:** Some pavement management experience

## 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

### **COURSE** **AutoCAD I**

Feature, limitations, and considerations associated with the operation of a computer-aided design/drafting (CAD) system (AutoCAD).

**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

### **COURSE** **AutoCAD II**

Topics include: advanced editing, attributes and data extraction, customizing macro menus, tailoring menu systems, using AutoLISP for drawing automation, grouping entities into blocks, drawing enhancements, dimensioning, plotting 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

### **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:** AuorCAD 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.

**Provider:** ADOT Human Resources

**Contact:** Bob Hall

**Phone:** (602)255-7613

**FAX:** (602)256-7648

**Audience:** Construction office workers

**Date/Revised:** 1995

**Cost:** \$0

**Duration:** 1 day

**Offer Date:** To be scheduled

**Location:** Statewide

**Prereqs:** None

### WORKSHOP

#### Basic Metric System

Introduction to the metric system.

**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

### 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.

**Provider:** ADOT Human Resources

**Contact:** Bob Hall

**Phone:** (602)255-7613

**FAX:** (602)256-7648

**Audience:** Engineers, Technicians

**Date/Revised:** 1995

**Cost:** \$0

**Duration:** 1 day

**Offer Date:** To be scheduled

**Location:** To be scheduled

**Prereqs:** None

### 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.

**Provider:** ADOT Human Resources

**Contact:** Bob Hall

**Phone:** (602)255-7613

**FAX:** (602)256-7648

**Audience:** Technicians, Construction field workers

**Date/Revised:** 1995

**Cost:** \$0

**Duration:** 1 day

**Offer Date:** To be scheduled

**Location:** To be scheduled

**Prereqs:** None

## Miscellaneous

### **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

### **COURSE** **Civil Drafting**

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.

**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:** Technical Drafting I

### **COURSE** **Computer - Aided Drafting I**

An introduction to the computer as a drafting tool.

**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** **Computerized Estimating**

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.

**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

### **COURSE** **Construction CAD Practice**

Theory and practice in application of construction with computer aided design software to construction problems.

**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

## 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

**Date/Revised:** 1995

**Cost:** \$66

**Duration:** Semester

**Offer Date:** To be scheduled

**Location:** Prescott

**Prereqs:** High school graduate

### COURSE

#### Constructuion Supervision

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

**Provider:** Nothland Pioneer College

**Contact:** Jim Richmond

**Phone:** (520) 537-2976

**FAX:** (520) 524-2227

**Audience:** Foremen and Construction Managers

**Date/Revised:** 1995

**Cost:** \$20 per credit

**Duration:** Semester

**Offer Date:** To be scheduled

**Location:** Holbrook

**Prereqs:** High school graduate

### 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

**Date/Revised:** 1995

**Cost:** \$0

**Duration:** 1 day

**Offer Date:** To be scheduled

**Location:** To be scheduled

**Prereqs:** None

### 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

**Date/Revised:** 1995

**Cost:** \$44

**Duration:** Semester

**Offer Date:** To be scheduled

**Location:** Thatcher

**Prereqs:** Principle of Drafting

## Miscellaneous

### 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

## Miscellaneous

### 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

### COURSE

#### 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

## Miscellaneous

### 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:** \$26 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

Analysis, design, construction, and testing of engineering projects. Drawing fundamentals. Dimensional analysis, materials and processes, statistical analysis and curve fitting. Engineering problem solving.

**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

## Miscellaneous

### WORKSHOP

#### Metrication

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

## Miscellaneous

### 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

## Miscellaneous

### **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

## 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 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.

## 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

## 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 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 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 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 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

### 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: ARRA V-1002

Date Entered: 8/21/91 Length: 10:00

### 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

### 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.

### Cold In-place Recycling

Description of multi-unit train 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.

## 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 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 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

### 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

### 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

### 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.

### 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

### 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: Crafc0, 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

## 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

## 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

## 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

## 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

## 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

## 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

## 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

### 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

### 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

### 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

### How Pavements Are Affected By Axle Loads

Also discusses axle arrangement and weather affects

Descriptors: PAVEMENT FATIGUE CAUSES

Contact: Mr. John Hopkins TEL: (602)965-2744  
Publisher: MinnDOT V-1032

Date Entered: 8/21/91 Length: 16:00

### 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.

### 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

### 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.

### 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 3

Descriptors: CONCRETE TESTING

Contact: Mr. John Hopkins TEL: (602)965-2744  
Publisher: SHRP V-2014

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

### 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 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 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 Procedures

Covers hot and cold asphalt recycling techniques.

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

Includes the advantages and disadvantages as well as the limitations of hot recycling.



## 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

### 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

### 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

### 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

### Special Hot Mixes, SMA-ATPB-Rubberized

Discusses use, mix design of SMA, ATPB, &  
Rubberized Asphalt

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: 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

### Truck Impacts on Pavement

Descriptors:

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

### 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

### 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

### 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

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

### 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

### Countermeasures for Hydraulic Problems at Bridges

Descriptors:

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

### 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

### 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: FHWA V-4510

Date Entered: 11/24/92 Length: 17:00

### 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

### Bridges Unbroken: Inspection of Timber Piling

Descriptors:

Contact: Mr. John Hopkins TEL: (602)965-2744  
Publisher: FHWA V-4507

Date Entered: 3/13/92 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

### 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

### 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

### 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:

### 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

### 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

### 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

### 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

### 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

### 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

### 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:

### 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 Universtiy Productions V-3531

Date Entered: 7/11/94 Length: 85:00

### Base and Sub-base Repair

Outline of a 9-step base repair system.

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

### 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 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

### 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 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.

### 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

### 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 - 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

### 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

### Remove Minor Slides and Clean Cut Ditch

Procedures for cleaning cut ditches and removing minor slides.

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

### 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 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

### 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:

### 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

### 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

### 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

### The Agony of Our Streets

Descriptors: CRACKING, SEALING, CRAFTCO  
CRACKSEAL

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

Publisher: Crafcoc, Inc. V-3518

Date Entered: 12/10/93 Length: 12:00

### Transverse Cracking, Pavements Perennial Problem

Descriptors:

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

Publisher: Crafcoc, 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: 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: 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

## 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 - 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

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 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 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 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

## 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

### Operational Tips and Techniques for Backhoe Loaders

Descriptors: EQUIPMENT OPERATION  
BACKHOE LOADER  
Contact: Mr. John Hopkins TEL: (602)965-2744  
Publisher: V-2513  
Date Entered: 8/21/91 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 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: 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

## 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

## Operator Daily Maintenance of Rollers

Descriptors: OPERATION EQUIPMENT  
ROLLER MAINTENANCE  
Contact: Mr. John Hopkins TEL: (602)965-2744  
Publisher: FHWA V-2538  
Date Entered: 6/9/92 Length: 21:43

## 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

## 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

## 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

### 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

### Scoop Operations

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

### 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

### Roller PM-A

Covers preventive maintenance for pneumatic and steel wheel.  
Descriptors: ROLLER EQUIPMENT  
MAINTENANCE  
Contact: Mr. John Hopkins TEL: (602)965-2744  
Publisher: UDOT V-2500  
Date Entered: 3/6/92 Length: 13:00

### 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

### 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

### 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

### 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 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

### 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, Part 1

Descriptors:

Contact: Mr. John Hopkins TEL: (602)965-2744  
Publisher: V-2501

Date Entered: 8/21/91 Length:

### 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: Catarpillar, 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: V-7106

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

### 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

### 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.

### 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

### Backing - You Owe It To Yourself

Demonstrates good procedures to avoid backing accidents.

Descriptors: SAFETY EQUIPMENT  
OPERATION

Contact: Mr. John Hopkins TEL: (602)965-2744  
Publisher: PennDOT V-6603

Date Entered: 8/21/91 Length: 12:00

### 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

### 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

### 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

### **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

### **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

### **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

### **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

### **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

### **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

### **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

Discussion of railway grade crossing accidents.  
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

Information on personal hazards and first aid actions.  
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

Overview of pedestrian safety  
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

The importance of highway signing for safety.  
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

### **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.

### **Safety on the Move: Truck Haulage Safety**

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

### **Shake Hands with Danger**

Descriptors: SHOP SAFETY, WELDING,  
GRINDERS, GASOLINE

Contact: Mr. John Hopkins TEL: (602)965-2744  
Publisher: V-6626

Date Entered: 3/19/92 Length: 27:00

### **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 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.

### **School Zone Safety**

Descriptors:

Contact: Mr. John Hopkins TEL: (602)965-2744  
Publisher: UDOT V-6629

Date Entered: 11/24/92 Length: 22:00

### **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

### **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

### **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

### **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

### **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

### **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 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

### **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 V-5921

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

### Breakaway Sign Program

Descriptors: SAFETY SIGNS BREAKAWAY

Contact: Mr. John Hopkins TEL: (602)965-2744  
Publisher: NJDOT V-5900

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

### Crash Cushions

Descriptors:

Contact: Mr. John Hopkins TEL: (602)965-2744  
Publisher: FHWA V-5902

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

### Flagger Training - Work Area Traffic Control

Descriptors:

Contact: Mr. John Hopkins TEL: (602)965-2744  
Publisher: Arizona DOT V-5913

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

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

Descriptors:

Contact: Mr. John Hopkins TEL: (602)965-2744  
Publisher: FHWA V-5922

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

### Construction Ahead

Descriptors:

Contact: Mr. John Hopkins TEL: (602)965-2744  
Publisher: Natl. Acad. of Sci. V-5901

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

### D.O.T. Safer Roadside

Descriptors: TRAFFIC SAFETY HIGHWAY

Contact: Mr. John Hopkins TEL: (602)965-2744  
Publisher: WA DOT V-5923

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

### Flagger, The

Discusses drivers' perceptions of delays.

Descriptors: FLAGGING SAFETY

Contact: Mr. John Hopkins TEL: (602)965-2744  
Publisher: WSDOT V-5903

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

### 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

### 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

### Night Time Traffic Control

Descriptors:

Contact: Mr. John Hopkins TEL: (602)965-2744  
Publisher: V-5914

Date Entered: 6/9/92 Length: 18:00

### Flagging Safety

Descriptors:

Contact: Mr. John Hopkins TEL: (602)965-2744  
Publisher: CDOT V-5918

Date Entered: 5/26/93 Length: 30:00

### 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.

### 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

### 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 - 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

### To Warn, Guide, and Protect: An Introduction to Flagging

Descriptors:

Contact: Mr. John Hopkins TEL: (602)965-2744  
Publisher: NM DOT V-5920

Date Entered: 5/25/93 Length: 22:00

### 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 Control

Interactive Training in traffic control.

Descriptors: INTERACTIVE DISC, TRAFFIC CONTROL

Contact: Mr. John Hopkins TEL: (602)965-2744  
Publisher: CATSR/ Technology Transfer

Date Entered: 1/1/95 Length:

### 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

### Controlling Dust on Unpaved Roads

Descriptors:

Contact: Mr. John Hopkins TEL: (602)965-2744  
Publisher: V-0604

Date Entered: 8/21/91 Length:

### 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

### 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

### 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

### 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 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

### 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

## 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

## Harmful Materials Awareness for Design Workers

Descriptors: HAZMAT

Contact: Mr. John Hopkins TEL: (602)965-2744  
Publisher: Penn DOT V-4706  
Date Entered: 5/25/93 Length: 24:30

## 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

## 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

### 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

### 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

### 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

### 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

### 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  
MMS MAINTENANCE

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

Descriptors:

Contact: Mr. John Hopkins TEL: (602)965-2744  
Publisher: FHWA V-0321

Date Entered: 6/17/93 Length: 11:00

## Road Management Systems

Descriptors:

Contact: Mr. John Hopkins TEL: (602)965-2744  
Publisher: USACRREL V-0307

Date Entered: 3/13/92 Length:

## Subdivisions a Local Dilemma

Descriptors: SUBDIVISION

Contact: Mr. John Hopkins TEL: (602)965-2744  
Publisher: Montana State Univ. V-0305

Date Entered: 3/13/92 Length: 29:00

## Surface Condition Rating System

Descriptors:

Contact: Mr. John Hopkins TEL: (602)965-2744  
Publisher: V-0309

Date Entered: 3/13/92 Length: 30:00

## Unsurfaced Road Management

Descriptors: UNSURFACED MANAGEMENT

Contact: Mr. John Hopkins TEL: (602)965-2744  
Publisher: USACRREL V-0306

Date Entered: 3/13/92 Length: 8:54

## 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

Discussion 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

Section 3

Descriptors:

Contact: Mr. John Hopkins TEL: (602)965-2744  
Publisher: V-5206

Date Entered: 6/16/92 Length: 51:36

### 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

### **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.

### **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 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:

### **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.

### **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 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:

### **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.

### Engineering Task Training - Survey Crew

An introduction to the use and handling of survey equipment.

Descriptors: SURVEY EQUIPMENT TRAINING

Contact: Mr. John Hopkins TEL: (602)965-2744  
Publisher: Colorado DOT V-7315

Date Entered: 2/7/92 Length: 19:00

### 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

### 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

### 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

### 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

### 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

### 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

### 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

### On the Move

Descriptors:

Contact: Mr. John Hopkins TEL: (602)965-2744  
Publisher: TRB V-7331

Date Entered: 11/4/92 Length: 14:00

### 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

### 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

### 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

### 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

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## 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 Western College

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

### 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

### Arizona State University

Dr. Judd Matthias  
TEL: (602)965-3868 FAX: (602)965-2728  
Department of Civil Engineering  
CITY: Tempe STATE: AZ ZIP: 85287

### Arizona State University

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

### Central Arizona College

Dr. John Klein, President  
TEL: (520)723-4141 FAX: (520)426-4234  
8470 N. Overfield Road  
CITY: Coolidge STATE: AZ ZIP: 85228

### 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

### 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

### 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

### 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

### 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

### 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

### Graham Community College District

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

### 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

### Northern Arizona University

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

### 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

### 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

### Navajo Community College District

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

### 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

### Phoenix Community College

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

### 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

### 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

### 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

### University of Arizona

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

### 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

### 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 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 State University

Mr. Tom Rex  
TEL: (602)965-3961 FAX:  
Center for Business Research, College of Business  
CITY: Tempe STATE: AZ ZIP: 85287-4406

### Arizona Western College

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

### 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 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

Ms. Rebecca Burke  
TEL: (602)965-3387 FAX:  
Government Documents Service, Hayden Library  
CITY: Tempe STATE: AZ ZIP: 85287

### 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 Komernicky  
TEL: (602)435-4968 FAX:  
5959 West Brown Street  
CITY: Glendale STATE: AZ ZIP: 85302

### Greater Flagstaff Economic Council, Inc.

Mr. Therett Lewis  
TEL: (520)779-7658 FAX:  
1300 South Milton Road, Suite 125  
CITY: Flagstaff STATE: AZ ZIP: 86001-6354

### 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

Isaias (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)692-2665 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

### Phoenix Planning Department

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

### Pinal County Library

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

### Scottsdale Public Library

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

### Parker/La Paz County Public Library

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

### Phoenix Public Library

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

### Prescott Public Library

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

### 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 Riestler  
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 Babiars  
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 Libraries

### Arizona Department of Transportation

TEL: (602)255-7498      FAX:  
Engineering Records, 1655 W. Jackson  
CITY: Phoenix      STATE: AZ      ZIP: 85007

### Arizona Department of Transportation

TEL: (602)831-2620      FAX: (602)831-5677  
Az Transp. Research Ctr, 7755 S. Research Dr., #106  
CITY: Tempe      STATE: AZ      ZIP: 85284

### Cline Library

TEL: (520)523-2171      FAX:  
Northern Arizona University  
CITY: Flagstaff      STATE: AZ      ZIP: 86011

### Library of Engineering

TEL: (520)621-6441      FAX:  
University of Arizona  
CITY: Tucson      STATE: AZ      ZIP: 85721

### Arizona Department of Transportation

TEL: (602)255-7648      FAX:  
Human Resources Center, 1130 N. 22nd Avenue  
CITY: Phoenix      STATE: AZ      ZIP: 85009

### Arizona Technology Transfer Program

TEL: (602)965-2744      FAX: (602)965-2728  
Center for Advanced Transportation Systems, ASU  
CITY: Tempe      STATE: AZ      ZIP: 85287-6306

### Federal Highway Administration

TEL: (602)379-3646      FAX: (602)379-3608  
234 N. Central Avenue, Suite 330  
CITY: Phoenix      STATE: AZ      ZIP: 85004

### Noble Science & Engineering Library

TEL: (602)965-2600      FAX:  
Arizona State University  
CITY: Tempe      STATE: AZ      ZIP: 85287

# Arizona Transportation Organizations

## AAA-Arizona Automobile Association

Ms. Cydney 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 Builders Alliance

Mr. Mark Minter  
TEL: (602)829-3733 FAX:  
1314 N. 3rd Street, Suite 110  
CITY: Phoenix STATE: AZ ZIP: 85004

### Arizona Contractor's Association

TEL: (602)246-8627 FAX:  
5701 N. Black Canyon Highway  
CITY: Phoenix STATE: AZ ZIP: 85015

### Arizona Department of Transportation

Mr. Larry Bonine, Director  
TEL: (602)255-7226 FAX:  
206 S. 17th Avenue  
CITY: Phoenix STATE: AZ ZIP: 85007

### Arizona Highway Users Conference

TEL: (602)266-1129 FAX:  
5133 N. Central Avenue  
CITY: Phoenix STATE: AZ ZIP: 85012

### Arizona Motor Transport Association

Mr. Jeannine Bleicher  
TEL: (602)252-7559 FAX:  
2111 W. McDowell Road  
CITY: Phoenix STATE: AZ ZIP: 85009

### Arizona Planning Association

TEL: (602)952-1227 FAX:  
3875 N. 44th Street  
CITY: Phoenix STATE: AZ ZIP: 85040

### 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)998-2668      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

## 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

## Intelligent Transportation Society of Arizona - OSHA

Ms. Linda Christopher  
TEL: FAX:  
2675 E. Broadway, Suite 206  
CITY: Tucson STATE: AZ ZIP: 85716-5342

## 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

## Federal Highway Administration

TEL: (602)379-3646 FAX: (602)379-3608  
234 N. Central Avenue, Suite 330  
CITY: Phoenix STATE: AZ ZIP: 85004

## 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

## International City/County Management Association

Mr. Ralph Velez  
TEL: (602)258-5786 FAX:  
9555 W. Van Buren  
CITY: Tolleson STATE: AZ ZIP: 85353

## 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

### National Traffic Safety Institute

TEL: (520)620-6874 FAX:  
100 N. Stone, Suite 608  
CITY: Tucson STATE: AZ ZIP: 85071

### 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

### 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

### 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

### 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

### 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

### 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

### 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 Public Transit Association

TEL: (202)898-4000 FAX:  
1201 New York Ave., NW, Suite 400  
CITY: Washington STATE: DC ZIP: 20005

### American Road and Transportation Builders Association

TEL: (202)488-2722 FAX:  
501 School St., SW, 8th Floor  
CITY: Washington STATE: DC ZIP: 20024-2713

### Airport Ground Transportation Association

TEL: (615)525-1108 FAX:  
901 Scenic Dr.  
CITY: Knoxville STATE: TN ZIP: 37919

### American Bus Association

TEL: (202)842-1645 FAX:  
1100 New York Ave., NW, Suite 1050  
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 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)670-6733 FAX:  
19584 Club House Rd.2  
CITY: Gaithersbur STATE: MD ZIP: 20879-3002

### Bicycle Federation of America

TEL: (202)463-6622 FAX:  
1508 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

### High Speed Rail/Maglev Association

TEL: (412)366-6887 FAX:  
500 McKnight Park Dr., #501-A  
CITY: Pittsburgh STATE: PA ZIP: 15237

### Highway Users Federation

TEL: (202)857-1200 FAX:  
1778 Massachusetts Ave., NW, Suite 500  
CITY: Washington STATE: DC ZIP: 20036

### Institute of Transportation Engineers

TEL: (202)554-8050 FAX:  
525 School St., SW, Suite 410  
CITY: Washington STATE: DC ZIP: 20024-2729

### Federal Highway Administration

TEL: (202)366-0650 FAX:  
400 Seventh Street, SW  
CITY: Washington STATE: DC ZIP: 20590

### Highway Engineering Exchange Program, Design Engineering Branch

TEL: (512)46:  
c/o William Cr  
CITY: Austin

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### Institute for T Development

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TEL: (212)260-8144 FAX:  
811 Broadway, Room 616  
CITY: New York STATE: NY ZIP: 10012

### Insurance Institute for Highway Safety

TEL: (703)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

### International Bridge, Tunnel and Turnpike Association

TEL: (202)659-4620 FAX:  
2120 L St., NW., Suite 305  
CITY: Washington STATE: DC ZIP: 20037

### International Road Federation

TEL: (202)554-2106 FAX:  
525 School St., SW  
CITY: Washington STATE: DC ZIP: 20024

### International Union of Public Transport

TEL: 32 2 873 61 00 (51.) FAX:  
Avenue de l'Uruguay 19  
CITY: Brussels STATE: Belgiu ZIP: B1050

### Interdiscipline Transportation Studies

TEL: (704)547-4308 FAX:  
CCARC Bldg., Rm. 276, UNCC  
CITY: Charlotte STATE: NC ZIP: 28223

### International Downtown Association

TEL: (202)783-4983 FAX:  
915 15th St., NW, Suite 600  
CITY: Washington STATE: DC ZIP: 20005

### International Taxicab and Livery Association

TEL: (301)848-7501 FAX:  
3849 Farragut Ave.  
CITY: Kensington STATE: MD ZIP: 20886

### 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 16th 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

### Telecommuting Advisory Council

TEL: (213)975-7495 FAX:  
c/o Carol Nolan, Business Market South, 1010 Wilshir  
CITY: Los Angeles STATE: CA ZIP: 90017

### Transportation Research Board

TEL: (202)334-2934 FAX:  
2101 Constitution Ave., NW  
CITY: Washington STATE: DC ZIP: 20418

### Urban and Regional Information Systems Association

TEL: (202)289-1685 FAX:  
900 Second St., NE., Suite 304  
CITY: Washington STATE: DC ZIP: 20002

### Surface Transportation Policy Project

TEL: (202)939-3470 FAX:  
1400 18th St., NW, Suite 300  
CITY: Washington STATE: DC ZIP: 20036

### 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 Forum

TEL: (703)525-1191 FAX:  
1730 N. Lynn St., #502  
CITY: Arlington STATE: VA ZIP: 22209

### 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)227-6661      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  
CITY: Washington STATE: DC ZIP: 2007

**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 Transportatin 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, [rnoland@aris.ss.uci.edu](mailto:rnoland@aris.ss.uci.edu)  
TEL:                                  FAX:  
[listserv@uci.edu](mailto:listserv@uci.edu)  
CITY:                                  STATE:                                  ZIP:

### CABO

California statewide bicycle issues

Mr. Kevin Karplus, [karplus@cse.ucsc.edu](mailto:karplus@cse.ucsc.edu)  
TEL:                                  FAX:  
[majordomo@cyclimg.org](mailto:majordomo@cyclimg.org)  
CITY:                                  STATE:                                  ZIP:

### DOT

Transportation issues; highway design, structures & materials, and planning .

Mr. Don Stone, [dstone@trmx2@dot.ca.gov](mailto:dstone@trmx2.dot.ca.gov) or [dstone.dot@t3ew.dot.ca.gov](mailto:dstone.dot@t3ew.dot.ca.gov)  
TEL:                                  FAX:  
[dot@t3ew.dot.ca.gov](mailto:dot@t3ew.dot.ca.gov) or [dot%t3ew@dot.ca.gov](mailto:dot%t3ew@dot.ca.gov)  
CITY:                                  STATE:                                  ZIP:

### FLEXWORK

Telecommuting

TEL:                                  FAX:  
[listserv@psuhmc.hmc.psu.edu](mailto:listserv@psuhmc.hmc.psu.edu)  
CITY:                                  STATE:                                  ZIP:

### BIKE-COMMUTE

Bicycle commuting; bicycle transportation and needed improvements

[majordomo@cyclimg.org](mailto:majordomo@cyclimg.org)  
TEL:                                  FAX:  
[majordomo@cyclimg.org](mailto:majordomo@cyclimg.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:

### EV

Electric vehicles: state of the art and future directions

Mr. Clyde R. Visser, [KD6GWNcvisser@ucr.math.ucr.edu](mailto:KD6GWNcvisser@ucr.math.ucr.edu)  
TEL:                                  FAX:  
[listserv@sjsuvm1.sjsu.edu](mailto:listserv@sjsuvm1.sjsu.edu)  
CITY:                                  STATE:                                  ZIP:

### IVHS-1

Intelligent Transportation Systems

Mr. Demin Xiong, [xii@omi.gov](mailto:xii@omi.gov)  
TEL:                                  FAX:  
[majordomo@mailhub.ornl.gov](mailto: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](mailto:chksmith@wpdis01.wpafb.af.mil)  
TEL: FAX:  
[majordomo@cycling.org](mailto:majordomo@cycling.org)  
CITY: STATE: ZIP:

### REMOTE-WORK

Telecommuting (telework), working remotely

Mr. Sean P. Curley, [sean@unify.com](mailto:sean@unify.com)  
TEL: FAX:  
[majordomo-request@unify.com](mailto:majordomo-request@unify.com)  
CITY: STATE: ZIP:

### TRANSIT ALTERNATIVES

Future public transportation technology (e.g.  
PRT, RUF, EV's, etc.)

Mr. Terry Nathan, [terryn@bga.com](mailto:terryn@bga.com)  
TEL: FAX:  
[majordomo@bga.com](mailto:majordomo@bga.com)  
CITY: STATE: ZIP:

### TRANSP-L

Transportation Topics in general

Mr. Jonathan Gifford, [holt@gmu.edu](mailto:holt@gmu.edu) or [mclark7@gm](mailto:mclark7@gm)  
TEL: FAX:  
[listproc@gmu.edu](mailto:listproc@gmu.edu)  
CITY: STATE: ZIP:

### RAILROAD

Ms. Geert K. Marien, [gkmc@cunyvm.cuny.edu](mailto:gkmc@cunyvm.cuny.edu)  
TEL: FAX:  
[listserv@cunyvm.cuny.edu](mailto:listserv@cunyvm.cuny.edu)  
CITY: STATE: ZIP:

### TRANSIT

Transit issues discussion list

Mr. Nick Donaldson, [ndonald@ccm.umanitoba.ca](mailto:ndonald@ccm.umanitoba.ca)  
TEL: FAX:  
[listserv@gitvm1.gatech.edu](mailto:listserv@gitvm1.gatech.edu)  
CITY: STATE: ZIP:

### TRANSIT VILLAGE

Encourage intensification of land uses near  
transit

Mr. Val Joseph Menotti, [val@ced.berkeley.edu](mailto:val@ced.berkeley.edu)  
TEL: FAX:  
[listproc@ced.berkeley.edu](mailto:listproc@ced.berkeley.edu)  
CITY: STATE: ZIP:

### TSS-LIST

Transportation Modeling

TEL: FAX:  
[listserv@mitvma.mit.edu](mailto:listserv@mitvma.mit.edu)  
CITY: STATE: ZIP:



## 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:  
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 Mooks, 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: Gainesville 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:

## Transportation Related Bulletin Boards

### THE TRANSIT INFORMATION EXCHANGE

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/UTEC

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:

### TRANSPORTER

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/>  
CITY:                      STATE:                      ZIP:

### Caltrans

Traffic Reports

Mr. Don Stone, E-mail: [dstone@tmx2.dot.ca.gov](mailto:dstone@tmx2.dot.ca.gov)  
TEL:                                      FAX:  
<http://www.scubed.com> 8001 GET/caltrans/sdtext\_su  
CITY:                                      STATE:                                      ZIP:

### Delaware Transit

Transit info for Delaware transit (fares, routes, schedules)

E-mail: [webmaster@www.dlcc.edu](mailto:webmaster@www.dlcc.edu)  
TEL:                                      FAX:  
<http://www.dlcc.edu/edu/dart/>  
CITY:                                      STATE:                                      ZIP:

### 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/>  
CITY:                                      STATE:                                      ZIP:

### Caltrans

Caltrans Information

Mr. Don Stone, E-mail: [dstone@tmx2.dot.ca.gov](mailto:dstone@tmx2.dot.ca.gov)  
TEL:                                      FAX:  
<http://www.scubed.com> 8001 GET/caltrans/sdtext\_su  
CITY:                                      STATE:                                      ZIP:

### Cranfield University Centre for Logistics and Transportation

Research and Staff info.

TEL:                                      FAX:  
<http://www.cranfield.ac.uk/som/ccit/ccit>  
CITY:                                      STATE:                                      ZIP:

### Eco-Motion

Electric car info; resources, news groups, news readers, commercial info

Mr. Steven Lough E-mail: [slough@halcyon.com](mailto:slough@halcyon.com)  
TEL: (206)524-1351      FAX:  
<http://www.cyberzine.org/html/Electric/ecomotion.html>  
CITY:                                      STATE:                                      ZIP:

### Infrastructure Technology Institute (ITI) Northwestern University

Research Info; publications, position papers, technical reports; research assistant

Ms. Renee McHenry, E-mail: [R-McHenry@nwu.edu](mailto:R-McHenry@nwu.edu)  
TEL:                                      FAX:  
<http://utu.acns.nwu.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](mailto: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](mailto: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 Pudget Sound Regional

Mr. Mark Nelson, E-mail: [mnelson@wsdot.wa.gov](mailto:mnelson@wsdot.wa.gov)

TEL:                               FAX:

<http://www.wsdot.wa.gov/>

CITY:                            STATE:                        ZIP: