

**PURDUE**  
UNIVERSITY

CONFERENCE DIVISION

Stewart Center, Room 116  
128 Memorial Mall  
West Lafayette, IN 47907-2034, USA



# 8<sup>th</sup> International Conference on Concrete Pavements

Innovations for  
Concrete Pavement:  
Technology Transfer for  
the Next Generation

August 14-18, 2005  
Colorado Springs,  
Colorado



*Organized by:*  
International Society for  
Concrete Pavements

[www.concretepavements.org](http://www.concretepavements.org)

# Conference Co-Sponsors

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Conference Co-Sponsors

Federal Highway Administration

American Concrete Pavement Association

*and*

American Association of State Highway and  
Transportation Officials

Cement Association of Canada

Colorado-Wyoming Chapter – ACPA

Colorado Department of Transportation

Concrete Reinforcing Steel Institute

Portland Cement Association

Purdue University

Transportation Research Board



The International Society for Concrete Pavements is pleased to announce that the 8th International Conference on Concrete Pavements will be held in Colorado Springs, Colorado, USA, from August 14-18, 2005. This conference will carry on the tradition of the first seven international conferences previously organized by Purdue University. As with the previous international conferences, the focus of the eighth conference will be to present information on new technologies related to design, construction, and rehabilitation of various types of concrete pavements. Specifically, the theme of the conference is *Innovations for Concrete Pavement: Technology Transfer for the Next Generation*.

A strong exhibitor program is planned to showcase new products and services.



## Conference Objective

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The objective of the conference is to present the latest information on economical and practical aspects of hydraulic cement concrete pavement design, construction, materials, maintenance, performance, evaluation, and structural rehabilitation, which are essential for achieving long lasting, high-performance concrete pavements.

## Scope

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This conference is targeted at pavement, materials, and geotechnical engineering professionals who are involved in various aspects of concrete pavement design, construction, testing and evaluation, and rehabilitation. These professionals include federal, state, and municipal engineers; consulting engineers; contractors, materials suppliers, and academia.

The conference program will consist of presentations and discussions on new developments related to concrete pavement technology. Implementable products and techniques that result in long-lasting new and rehabilitated concrete pavements, and the use of concrete to rehabilitate other types of pavements will be the emphasis of this conference.

## Who Should Attend?

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Engineers from industry and government (federal, state, county, and municipal), consulting engineers, contractors, researchers, producers, and others who are concerned with high performance pavements for roads, streets, airports, and industrial uses should attend. In the past, nearly 50 percent of the participants of this conference have been from outside the United States. From early responses it appears that a very strong interest continues from every continent.

# Recreational Activities

## Excursion One \$60\*

### Pikes Peak Cog Railway

Rise above it all on the world's highest Cog Railway. Since 1891, the Pikes Peak Cog Train has carried millions of passengers on an unforgettable and panoramic trip. Sit back and relax as you travel to the top of America's best known mountain, Pikes Peak, 14,110 feet.



## Excursion Two \$40\*

### United States Air Force Academy

Nestled against the Rampart Range of the Rocky Mountains, sits the United States Air Force Academy. Designed to create career officers, the 18,000 acre campus is home to 4,000 cadets.

### Garden of The Gods

The Garden of the Gods offers a spectacular and unique vantage point of the area's famous red rock formations. Don't forget to bring your camera!



### Old Colorado City

Set in the architecture of historic brick buildings, it has never lost its feisty frontier spirit. Stroll along the tree-lined street and visit the distinctive shops and art galleries.

\*Excursions One and Two each require a 40 person minimum.

## Excursion Three \$130 *half day*

### Fly Fishing

Of all the fishing sports, fly fishing is one of the most passionate among anglers worldwide. The outfitters will provide the equipment or you can bring your own fishing gear. No experience necessary. If there are enough participants for this event a cookout will be planned for afterwards.



# Technical Program

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**Sunday, Aug 14**

ISCP board and open meeting (all welcome)

## Overall Program

It is planned to hold the following four workshops on Sunday afternoon with a repeat on Tuesday afternoon.

1. Pavement Design – the mechanistic – Empirical Methodology.
2. Concrete materials and mixture design – new developments.
3. Concrete pavement construction – new tools.
4. Concrete pavement repair and rehabilitation strategies.

The Tuesday construction workshop will be an outdoor event and will involve pavement instrumentation demonstration.

## Technical Sessions:

Sixteen technical sessions will be held Monday morning through Wednesday afternoon. A plenary session on Monday morning will kick off the technical program.

## Technical Visits:

A technical visit is planned for Thursday and may include visits to construction projects.



# Technical Program

## Schedule

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**Sunday, August 14**

- 8 a.m.** Registration
- 10 a.m.** ISCP Board and Open Meeting (all welcome)
- 1 p.m.** Workshops – Hot Topics  
Four Concurrent Workshops
- 6 p.m.** Opening Reception/Exhibit Opens

**Monday August 15**

- 7 a.m.** Registration and Breakfast
- 8 a.m.** Plenary Session
- 9:30 a.m.** Coffee Break
- 10 a.m.** Concurrent Technical Sessions 1 and 2
- Noon** Buffet Lunch
- 1 p.m.** Concurrent Technical Sessions 3 and 4
- 3 p.m.** Coffee Break and Poster Session
- 3:30 p.m.** Concurrent Technical Sessions 5 and 6
- 6 p.m.** Dinner program – off site

**Tuesday August 16**

- 7 a.m.** Registration and Breakfast
- 8 a.m.** Concurrent Technical Sessions 7 and 8
- 10 a.m.** Coffee Break and Poster Session
- 10:30 a.m.** Concurrent Technical Sessions 9 and 10
- 12:30 p.m.** Lunch
- 1:30 p.m.** Concurrent Workshops

**Wednesday, August 17**

- 7 a.m.** Breakfast
- 8 a.m.** Concurrent Technical Sessions 11 and 12
- 10 a.m.** Coffee Break
- 10:30 a.m.** Concurrent Technical Sessions 13 and 14
- 12:30 p.m.** Awards Lunch and Closing Ceremony
- 2 p.m.** Concurrent Technical Sessions 15 and 16
- 4 p.m.** Conference Ends

**Thursday, August 18**

- 8 a.m.** Technical Site Visits (Optional – no fee)  
Recreational Trips (Optional – extra fee involved  
– see registration form)

## *Paper Submission*

Papers are being solicited for the conference. Although not mandatory, it is requested that prospective authors send, as soon as possible, a letter of intent to submit a paper with a brief abstract to Jason Weiss, Purdue University, at: [iscp8@ecn.purdue.edu](mailto:iscp8@ecn.purdue.edu)

To date, a large response has been received from several countries and the technical program is expected to be of great interest to the concrete pavement community. Papers will be reviewed by members of the Technical Program Subcommittee of the Conference Steering Committee. The final conference program will be developed after the completed papers have been reviewed. The important dates for paper submission and review are as follows:

- As soon as possible: Letter of intent to submit with abstract (not mandatory, but preferred)
- February 15, 2005: Completed papers due for review
- March 25, 2005: Review completed, authors notified of final disposition of their papers
- May 1, 2005: Electronic versions of final papers due

A final technical program brochure, listing papers and authors and including workshop details, will be distributed during April 2005.

## *Proceedings*

A total of about 65 papers will be presented excluding workshop presentations. Also, it is expected that another 10-15 papers will be selected for publication only. In previous conferences papers have been received from many countries (Argentina, Australia, Belgium, Brazil, Canada, France, Germany, Italy, Japan, Mexico, The Netherlands, South Africa, Sweden, Taiwan, UK, and USA). Both paper copies and a CD will be distributed to each registrant at the conference.

## *General Information*

### **Registration Fee**

- \$500 - Advance Conference Registration – by April 1, 2005; Registration includes breakfast, lunch, reception, dinner on August 15, 2005, proceedings, session attendance, and 2005 ISCP membership (a \$50 value).
- \$600 - Conference Registration after April 1, 2005; Registration includes breakfast, lunch, reception, dinner on August 15, 2005, proceedings, session attendance, and 2005 ISCP membership (a \$50 value).
- \$250 - Student Registration; Registration includes breakfast, lunch, reception, dinner on August 15, 2005, proceedings, session attendance, and 2005 ISCP membership (a \$25 value).
- \$100- Spouse Program. Registration includes reception Sunday, August 14, dinner Tuesday, August 16, breakfast and lunch in the exhibit area, and hospitality suite.
- U.S. Government Agencies, see the registration form for reduced rates.

To register online, visit: [www.conf.purdue.edu/concrete](http://www.conf.purdue.edu/concrete)

### **Notes**

1. Year 2005 ISCP members (Year 2005 membership fee already paid), a \$50 discount (\$25 for students) will be available.
2. One author is required to register in advance for each paper accepted for presentation. Otherwise the paper will not be included in the final program.
3. A conference hat and t-shirt will be provided to those who register by April 1, 2005. Please indicate your t-shirt size on the registration form.



### Refunds

Requests for refunds must be received by June 1, 2005. A \$50 processing fee will be retained. Purdue University is not responsible for costs incurred due to cancellation.

### Exhibits

Exhibits will be on display from 6 p.m. on Sunday, August 14, 2005, and various times throughout the conference until 2 p.m. on Tuesday, August 16, 2005.

Exhibitors can register online at:

[www.conf.purdue.edu/concreteexhibitor](http://www.conf.purdue.edu/concreteexhibitor)

### Official Language

The official language of the conference will be English.



## Travel Information

### From Colorado Springs Municipal Airport

The Colorado Springs Municipal Airport is eight miles from the conference hotel. Driving directions: take Drennan two miles and then right on Hancock four miles. Turn right on South Circle one mile. The hotel is on right side of South Circle Drive.



## Conference Hotel

The conference will be held at the Sheraton Colorado Springs Hotel. At 6,000 feet elevation, the Sheraton is on the eastern base of the Colorado Rocky Mountains with views of Pikes Peak from everywhere in the city. The Sheraton Colorado Springs is located just fifteen minutes from the airport and five minutes from downtown. Area attractions include Pikes Peak, Garden of the Gods, Cave of the Winds, Seven Falls, Cog Railway, Royal Gorge Bridge, Manitou Cliff Dwellings, Air Force Academy, Peterson Air Force Base, U.S. Olympic Training Center, Pro Rodeo Hall of Fame and American Cowboy Museum, Miramont Castle, the Flying W Ranch, and the Cheyenne Mountain Zoo.

Nestled at the base of Cheyenne Mountain, with panoramic views of the Rocky Mountains, the Sheraton Colorado Springs



Hotel provides the perfect location for visitors to enjoy the scenic wonders of a Colorado vacation or to conduct business in an atmosphere of western U.S. hospitality.

The hotel offers a wide range of services to ensure that you enjoy the utmost in comfort and convenience. Take advantage of everything from complimentary shuttle service to the Colorado Springs Airport, to an on-staff concierge and executive business center.

Single/Double Occupancy: \$109 per night. (Approved federal hotel rate is \$104 per night for U.S.-based government agency staff for the nights of September 13-17 only. Any additional nights will be charged the full conference rate of \$109 per night.) Your room rates are subject to applicable sales and resort taxes, currently 14.8 percent.

Subject to availability, you may reserve rooms at your Group room rates for the three days prior to Saturday, September 13, and three days after Wednesday, September 17.

Check-in time is after 3 p.m. and check-out time is before 11 a.m. Guests arriving before check-in time will be accommodated as rooms become available. The Bell Captain can arrange to check baggage for those arriving early and for guests attending functions on their day of departure.

Attendees will pay their own room, taxes, and incidental charges upon check-out. American Express, MasterCard and VISA are accepted.

Hotel reservations for the conference should be made by contacting the Sheraton Colorado Springs hotel directly at 719/576-5900. A block of rooms has been reserved until July 7, 2005, for the attendees of the 8<sup>th</sup> International Conference on Concrete Pavements. When making your reservations, let the reservation clerk know you are attending this conference. Reservations need to be made as soon as possible, as only a limited number of rooms have been reserved. You will need to secure your reservation with a credit card.

For more information call: 719/576-5900.

*Photos on pages 11-13 and 18 courtesy of The Colorado Springs Convention and Visitors Bureau.*



## *For More Information*

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Contact: Dan Zollinger at [d-zollinger@tamu.edu](mailto:d-zollinger@tamu.edu)  
Phone: 979/845-9918; Web site: [www.concretepavements.org](http://www.concretepavements.org)

For information about registration, contact:  
Nona Schaler at [njschaler@purdue.edu](mailto:njschaler@purdue.edu)  
Phone: 765/494-2756 or 800/359-2968 (U.S.A. only)  
Fax: 765/494-0567



# *ISCP Executive Officers*

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- Current ISCP Officers (October 2001 – September 2005)  
The Executive Committee consists of:
  - President - Shiraz Tayabji, Construction Technology Laboratories, Inc., Columbia, Maryland, U.S.A.  
e-mail: stayabji@ctlgroup.com
  - Vice President - Dan Zollinger, Texas Transportation Institute, College Station, Texas, U.S.A.  
e-mail: d-zollinger@tamu.edu
  - Secretary/Treasurer - Mark Snyder, Consultant U.S.A.  
e-mail: mbsnyder@concretepavements.org

## **ISCP Directors**

Jim Cable, Jean-Pierre Christory, Juan Pablo Covarrubias, ICH Chile, Michael I. Darter, Jim Grove, Kathleen Hall, Fred Hejl, Tom Kazmierowski, Gerry Krozel, Andre Molenaar, David Pittman, John Potter, Gordon Smith

## **ISCP Board Liaisons**

George Vorobieff (Australia)  
Jose Balbo (Brazil)  
Tim Smith (Canada)  
Manuel Lascarro (Colombia)  
R.S. Sharma (India)  
Lorenzo Domenichini (Italy)  
Donato Figueroa (Mexico)  
Carlos Joffre (Spain)  
Johan Silfwebrand (Sweden)  
Adrian van Leest (The Netherlands)  
David Jones (United Kingdom)  
Paul Teng (U.S.A.)  
Gerald Voight (U.S.A.)



## **Conference Steering Committee**

The committee includes the following:

Dan Zollinger, (Chair and ISCP VP), Shiraz Tayabji, Mark Snyder, Neeraj Buch, Norb Delatte, Will Hansen, Tom Harman, Dale Harrington, Sam Tyson, Jason Weiss.



## *Purpose of ISCP*

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To further engineering and technical education, scientific investigation, and research in all areas related to the analysis, design, construction, materials, maintenance, rehabilitation, and management of concrete pavements. ISCP Membership

Please contact Mark Snyder (Secretary, ISCP) at [msnyder@concretepavements.org](mailto:msnyder@concretepavements.org) or by phone at 412/221-8450 for membership information or visit our Web site at: [www.ctlgroup.com](http://www.ctlgroup.com). ISCP is seeking members to serve on various committees and to actively participate in other activities of the Society. If you are interested in being an active member of ISCP, please contact one of the following:

Shiraz Tayabji at [stayabji@ctlgroup.com](mailto:stayabji@ctlgroup.com) or by phone at 410/997-0400

Dan Zollinger at [d-zollinger@tamu.edu](mailto:d-zollinger@tamu.edu) or by phone at 979/845-9918

Mark Snyder at [msnyder@concretepavements.org](mailto:msnyder@concretepavements.org) or by phone at 412/221-8450

# Exhibitor Information

## Important Dates

- Sunday, August 14, 2005 – 1-6 p.m. Set-up; Exhibit opens at 6pm with an Opening Reception and Social Hour
- Monday, August 15, 2005 – Open 8 a.m.-6 p.m.
- Tuesday, August 16, 2005 – Open 8 a.m.-2 p.m.; Tear-down 2 – 5 p.m.

## Booth Space

Exhibit space includes an eight-foot-high backwall and three-foot-high side wall; a draped six foot table and one electrical connection (110 volt); and one 7" x 44" one line ID sign.

Exhibitors are responsible for providing their own extension cords and adapters. Any displays, table setting, or free-standing wider than seven feet require two exhibit spaces.

Exhibit fee is \$1,500 per space and includes one conference registration for one person. Additional representatives are required to pay the full conference registration fee and complete the CONFERENCE REGISTRATION FORM.

Reservations received with full payment by March 31, 2005, are guaranteed space. Exhibit space remaining after this date will be available on a first-come first-served basis.

Refund requests must be received by June 1, 2005. A \$500 processing fee will be retained. Purdue University is not responsible for costs incurred due to cancellation.

For information, contact:

Nona Schaler, Conference Division  
Purdue University  
Stewart Center, Room 116  
128 Memorial Mall  
West Lafayette IN 47907-2034

Phone: 800/359-2968 (U.S.A. only)  
or 765/494-2756

Fax: 765/494-0567

E-mail: [njschaler@purdue.edu](mailto:njschaler@purdue.edu)

To register online, visit:

[www.conf.purdue.edu/concreteexhibitor](http://www.conf.purdue.edu/concreteexhibitor)

EXHIBITOR Reservation Form

1351-05YR-NJS

*8th International Conference on Concrete Pavements*

**Guaranteed Space Deadline, July 1, 2005**

Contact Person \_\_\_\_\_

Title \_\_\_\_\_

Company Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_

State (Province) \_\_\_\_\_

Zip \_\_\_\_\_

Country \_\_\_\_\_

Phone \_\_\_\_\_

Fax \_\_\_\_\_

E-mail \_\_\_\_\_

Adult T-shirt U.S. size:  M  L  XL  XXL

I require auxiliary aids or services due to a disability. Please contact me at the above address.

### Our exhibit: (check one)

Is free standing  Is free standing with table  Requires only a table

### Please reserve the following:

\_\_\_\_\_ Exhibit spaces at \$1,500 each (includes one conference registration) \$ \_\_\_\_\_

*Additional representatives are required to pay the full conference registration fee and complete the conference registration form.*

**Total Amount Enclosed \$** \_\_\_\_\_

We agree to abide by the exhibit policy of Purdue University (*see information packet for details*).

Signature \_\_\_\_\_

Date: \_\_\_\_\_

**Payment Method** *Payment is due upon submission of registration.*

Check enclosed made payable to **Purdue University** in U.S. dollars.

Please charge to:

VISA  MasterCard  Discover  American Express

Account Number \_\_\_\_\_

Expiration Date \_\_\_\_\_

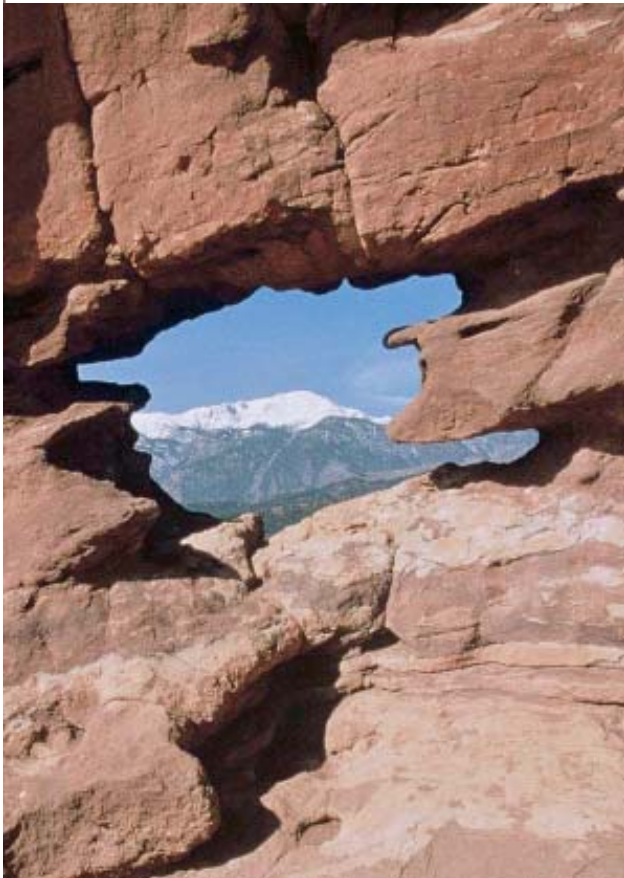
Signature \_\_\_\_\_

Return with payment to: OCEC Business Services  
Purdue University  
Stewart Center, Room 110  
128 Memorial Mall  
West Lafayette, IN 47907-2034

Fax: 765/494-0567

Register online at: [www.conf.purdue.edu/concreteexhibitor](http://www.conf.purdue.edu/concreteexhibitor)

Please join us in  
 Colorado Springs, Colorado at the  
**Sheraton Colorado  
 Springs Hotel**  
 for the  
*8th International  
 Conference on  
 Concrete Pavements*  
 August 14-18, 2005



**CONFERENCE Registration Form** 1352-05YR-NJS  
*8th International Conference on Concrete Pavements*  
**Advance Registration Deadline, April 1, 2005**

Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_

State (Province) \_\_\_\_\_

Zip \_\_\_\_\_

Country \_\_\_\_\_

Phone \_\_\_\_\_

Fax \_\_\_\_\_

E-mail \_\_\_\_\_

Company Name \_\_\_\_\_

Preferred Badge Name \_\_\_\_\_

Adult T-shirt U.S. size:  M  L  XL  XXL

I require auxiliary aids or services due to a disability. Please contact me at the above address.

*Fees Non-members*

- \$500, Early Registration (by 4/1/05)
- \$600, Registration (after 4/1/05)
- \$250, Student Registration

*Fees ISCP Members*

- \$450, Member Early Registration (by 4/1/05)
- \$550, Member Registration (after 4/1/05)
- \$225, Member Student Registration

*U.S. Government Agencies*

- \$350, Government Agencies (by 4/4/05)
- \$450, Government Agencies (after 4/4/05)
- \$100, Spouses Program (*all participants*)
- \$50, Extra Proceedings (*all participants*)

*Activity Fees*

- \$60 (adult), Excursion One
- \$40 (adult), Excursion Two
- \$130, Fly Fishing *half day*

**Total Enclosed \$** \_\_\_\_\_

*Payment Method* Payment is due upon submission of registration.

Check enclosed made payable to Purdue University in U.S. dollars.

Please charge to:

VISA  MasterCard  Discover  American Express

Account Number \_\_\_\_\_

Expiration Date \_\_\_\_\_

Signature \_\_\_\_\_

Return with payment to: OCEC Business Services  
 Purdue University  
 Stewart Center, Room 110  
 128 Memorial Mall  
 West Lafayette, IN 47907-2034

Fax: 765/494-0567

Register online at: [www.conf.purdue.edu/concrete](http://www.conf.purdue.edu/concrete)

*Please photocopy this form as needed for additional registrants or spouses.*