



# International Society for Concrete Pavements

## What's New at ISCP

ISCP e-Newsletter  
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ISCP

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### CORPORATE MEMBERS



### Greetings from the President



Dan Zollinger  
President, ISCP

I am glad to inform you that the Society's strategic planning meeting that took place this month in South Africa was a very fruitful one. We had twelve of the 17 members of the board - including honorary and regular members (representing 5 different countries) - and we spent nearly 20 hours focusing completely on discussions about the future organization of ISCP. The main topics brought up by the strategic planning group were related to membership issues, global representation and activities of the Society Board, as well as the organization of the Society. The board approved modifications to the structure of the ISCP with regard to the number of committees and the organization and composition of the board of directors. A mission statement modification was approved (pending ratification by the general membership) to emphasize the technology transfer aspects of the Society activities. We believe the general membership will be

pleased when these modification are put to a vote. In all, there was a clear consensus that all Society board members need to work towards expanding its relevance on an international level to facilitate the advancement of knowledge and technology related to concrete pavement, and that this goal must be achieved through education, technology transfer and research.

On other fronts, the Conference on Concrete Roads in South Africa held this month in conjunction with the working board meeting was a success (see related article), and we all look forward to future ISCP-cosponsored workshops later this year in China and Brazil, where selected members of the Board of Directors (BOD) are attending as invited speakers. This has been great opportunity to bring needed exposure to the Society, and we feel that, in time, this type of activity will be expanded to include general members of the Society (rather than just the BOD) due to the frequency of demand for such events. All in all, it is evident that Society membership provides significant benefits, both professionally and personally.

### International Conference on Concrete Roads

The [South African Cement and Concrete Institute \(C&CI\)](http://www.cnci.org.za), in collaboration with the ISCP, organized the International Conference on Concrete Roads 2007. The event was endorsed by the South African National Roads Agency Limited, and attracted more than 200 professionals from the paving industry, roads agencies, as well as consultants and academics. The topic of the presentations ranged from sustainable pavements to long-life strategies, design, thin slabs, conventional and ultra-thin CRCP, and rehabilitation and reconstruction experiences. For more information contact Bryan Perrie at [bryan@cnci.org.za](mailto:bryan@cnci.org.za).

### Strategic Planning Meeting Highlights

ISCP's Board of Directors held the Society's first major Strategic Planning Meeting on August 14-16 in South Africa. The Board and attending general and honorary members worked nearly 20 hours over a three-day period to address organizational issues that have come up repeatedly at previous Society meetings, but which have not previously been addressed adequately (or at all) because the time available during regular business meetings is too short.

The minutes of this meeting will soon be available on the ISCP website at [www.concretepavements.org](http://www.concretepavements.org). Highlights of actions taken and decisions made at the meeting include the following:

- Modified the ISCP Constitutional mission statement (pending ratification by the general membership) to read as follows:  
  
*The mission of the Society is to facilitate the advancement of knowledge and technology related to concrete pavements through education, technology transfer and research at an international level. The Society will gather and disseminate information for the concrete pavement community. The Society's efforts will promote technological advancements and competence of its members, leading to improved concrete pavement performance.*
- Set goals of increasing Society membership by 2011 to include 400 general members and 25 corporate or organizational members/sponsors (up from current levels of 200 and 8).
- Refined the definition of eligibility for student membership (i.e., full-time undergrad or graduate student as identified by the student's school) and reduced student membership fees to zero effective January 1, 2008.
- Redefined terms of eligibility for election and continuation of board members to require more active involvement (current dues-paying or honorary member, attend at least one board meeting each year in person or by teleconference, participate in at least one standing committee). Also limited to five (5) the number of Directors that can be residents of the same country to ensure more international representation and to prevent any one country from being represented by a majority of the Board seats.
- Added Standing Committees on Membership (to promote and sustain all forms of Society Membership) and Technology Transfer (to determine the ways and means of achieving Society goals related to performing technology transfer tasks).
- Discussed options for establishing an online repository of technical documents and publications related to concrete pavement technology from around the world.
- Discussed options for hiring administrative assistance for the Society, with detailed options to be presented at the next Board meeting.
- Adopted the concept of "Local/Regional ISCP Coordinators" who will serve as local ISCP representatives in various countries and regions of the world and will coordinate ISCP-sponsored activities. These positions could serve as the fore-runners of eventual ISCP chapters.
- Resolved to continue to have mid-year Board and/or Strategic Planning meetings in conjunction with an ISCP co-sponsored conference (as was done in South Africa) on an annual basis except during ISCP International Conference years.
- Resolved to reciprocate support for the international conferences and activities of other organizations with similar goals and objectives to those of ISCP.

The implementation of these actions and the follow-up work that is planned will help to raise the level of service that the Society provides its members and will help to move the organization to be a truly international organization in terms of both membership and function.

## Registration to Open for 9th International Conference

Registration materials for the [9th International Conference on Concrete Pavements](#) are being prepared for mailing to all current ISCP members and many previous attendees in early September. Registration forms will also be available on the ISCP website at [www.concretepavements.org](http://www.concretepavements.org). Registration fees are being discounted by \$100US for current ISCP members who renew their membership for 2008. Additional discounts are available for government employees.



View from 39<sup>th</sup> Floor of SF Marriott

The [9th Conference](#), which will be held at the [Marriott Hotel](#) in San Francisco, California, USA on August 17-21, 2008, is expected to attract more than 500 attendees. Current plans call for approximately 70 paper presentations, an exhibition hall, a student poster board competition, and several workshops, including:

- Concrete Pavement Preservation (offered twice)
- 100-Year Concrete Pavements (offered twice)
- CRCP
- MEPDG Concrete Design Implementation
- Alkali-Aggregate Issues
- Innovative Methods and Materials
- Concrete Pavement Technology Forum on Precast Slabs
- Latest Research on Airport Concrete Pavements

For more information, contact Kathleen Hall (Conference Chair) at [kthall64@comcast.net](mailto:kthall64@comcast.net).

## Research News

### Fundamental Workshop on Concrete Pavements Planned to Precede 9th ICCP

From August 13-15, 2008, a workshop on "Advanced Characterization, Modeling, and Design of Concrete Pavements" will be held at the University of California-Berkeley's Richmond Field Station in Richmond, California. Following the format of the CROW workshops which are traditionally held a few days before the European Symposiums on Concrete Roads, this workshop will precede the [9th International Conference on Concrete Pavements](#) in San Francisco. Emphasis will be placed on discussion of issues relating to fundamental properties of concrete pavements and brainstorming processes and solutions to these problems.

This independent workshop will be sponsored by [ISCP](#), the [Illinois Center for Transportation](#) at the University of Illinois, the [Michigan Tech Transportation Institute](#), and the [Pavement Research Institute](#) at the University of Minnesota.

An announcement brochure and call for participation in this workshop can be downloaded at:

[http://www.concretepavements.org/9thiccp/workshop\\_brochure.pdf](http://www.concretepavements.org/9thiccp/workshop_brochure.pdf)

More information can also be found by contacting either of the workshop organizers (Jeff Roesler at [jroesler@uiuc.edu](mailto:jroesler@uiuc.edu) or Lev Khazanovich at [khaza001@umn.edu](mailto:khaza001@umn.edu)).

### Open Research Positions at the University of Illinois and VTRC

The [Department of Civil and Environmental Engineering](#) at the [University of Illinois at Urbana-Champaign](#) is seeking qualified candidates for two positions: Research Engineer at the [Advanced Transportation Research and Engineering Laboratory \(ATREL\)](#) and Technical Administrator for the [Illinois Center for Transportation \(ICT\)](#), located at the ATREL facilities in nearby Rantoul, Illinois.

The [Virginia Transportation Research Council \(VTRC\)](#) recently announcement their intention to fill a pavement research scientist position as well. More information on these positions can be found at:

<http://www.concretepavements.org/help.htm>

### Recent concrete pavement articles in the IJPE

The latest published issue (vol. 8, issue 4, 2007) of the International Journal of Pavement Engineering contains the following articles related to concrete pavements:



[Laboratory study of larger sized aggregate in Portland cement concrete](#)  
by Jeff C. Mills; Anastasios M. Ioannides (ISCP member)

[Durability of stabilized base courses subjected to wet-dry cycles](#)  
by N. Khoury; M. M. Zaman

[Nine-slab model for jointed concrete pavements](#)  
by W. Liu; T. F. Fwa

Abstracts for these articles can be found on the publishers' webpage:

<http://www.informaworld.com/openurl?genre=journal&issn=1029-8436>

If you are a subscriber or you are affiliated with a subscribed institution you can also download the complete papers from there.

## **RFP - Next Generation Dispersants for Concrete Admixtures**

Experts in concrete admixtures chemistry are invited to submit a proposal abstract by September 7, 2007. More information is available in the Request for Proposal (RFP) document online at:

<http://www.ninesigma.com/mx/50505-1>

# **Industry Notes**

## **ACPA Announces Fellowship Stipend Opportunities for Students in Concrete Pavements**

The ACPA Education Foundation was set up to award scholarships and grants for undergraduate and graduate university studies in the field of civil engineering with an emphasis on concrete pavements or concrete pavement research. ACPA Education Foundation scholarships, grants, and other programs will help recipients cover costs of attending a four-year university degree program or graduate school. Through its scholarship and grant programs, the ACPA Education Foundation focuses on supporting development and delivery of a highly trained professional workforce specializing in concrete pavement program planning, design and construction in order to contribute to needs related to the safe, efficient and cost-effective expansion, maintenance and rehabilitation of the nation's federal highway, airfield and municipal roadway infrastructure.

This year the ACPA Education Foundation is offering two stipends to graduate students in the field of civil engineering.

### ***Valentin J. Riva Stipend***

To honor the memory of Valentin J. (Val) Riva, who served as the third chief executive of the American Concrete Pavement Association from 1997 to 2004, the ACPA Education Foundation will present a \$2,000 stipend to a graduate student in civil engineering, who is engaged in research on materials used for concrete pavement.

### ***William R. Cape Stipend***

In honor of the late William R. Cape, James Cape & Sons Company, a paving contractor and long-time member and supporter of ACPA, the ACPA Education Foundation will present a \$2,000 stipend to a graduate student in civil engineering, who is engaged in research on concrete pavement applications (construction, design, or rehabilitation).

The deadline for submissions to this fellowship program has been extended to October 1, 2007 (5:00 pm EST). For more information (including how to apply), please go online to <http://www.pavement.com/CPEF/index.html> or contact the Managing Director of the ACPA Education Foundation, Fiona Mac Niallais, at [Fiona@pavement.com](mailto:Fiona@pavement.com)

## **PCA publishes a hydrologic design for Pervious Concrete**

Pervious concrete has been used in some regions for decades; however, recent interest in sustainable development and recognition of pervious pavements by the U.S. Environmental Protection Agency (EPA) as a best management practice for storm water management has heightened interest in its use. Pervious concrete applications support national programs such as EPA's Heat Island Reduction Initiative and Low Impact Development and provide a potential for credit in the LEED® (Leadership in Energy and Environmental Design) rating system for sustainable building construction.

Pervious concrete can be used to improve water quality by capturing the "first flush" of surface runoff, reducing temperature rise in receiving waters, increasing base flow, and reducing flooding potential by creating short term storage detention of rainfall. In order to fully utilize these benefits, the hydrological behavior of the pervious concrete system must be assessed. The hydrological performance is a key parameter

in decisions to use this material as a best management practice for storm water management and is usually the characteristic of most interest to permit-granting agencies. More information can be found in the Portland Cement Association website at:

[http://www.cement.org/tech/cct\\_con\\_design\\_pervious\\_hydro.asp](http://www.cement.org/tech/cct_con_design_pervious_hydro.asp)

## Polymer Concrete for Bridge Decks

Deadline has been extended to September 12, 2007 for Consultant Letters of Interest for the NCHRP Synthesis Topic on Long Term Performance of Polymer Concrete for Bridge Decks. Polymer concrete overlays, which consist of a polymer binder, e.g., epoxies, polyesters or methacrylates, and fine aggregates are constructed with a thickness range of 0.25 to 1.0 in. Many Polymer Concrete overlays have been installed based on a trial and error basis and it is critically needed to evaluate their long-term performance. They have the advantages of (1) adding very little dead load; (2) very fast cure times; (3) shallow depths which eliminates need for raising approach slabs; (4) transition from overlaid lane to non-overlaid lane during construction; (5) essentially waterproof, long-lasting wearing surface; and (6) excellent skid resistance. More information can be found at:

<http://www.trb.org/TRBNet/ProjectDisplay.asp?ProjectID=1674>

## RCC Workshop in Kentucky

The Southeast Cement Association (SCA) with PCA and the Great Lakes Cement Promotion Association will present a one-day workshop on roller-compacted concrete (RCC) pavements in Louisville, Ky., on September 25, 2007. The seminar will provide information on design and construction procedures for RCC and include an on-site demo and tours of a construction project and cement plant. SCA presented a similar workshop this spring in Nashville that drew more than 100 attendees. More information can be found at [www.secement.org](http://www.secement.org).

A registration form can also be done online at:

[http://www.cement.org/exec/KY\\_9-25-07\\_RCC\\_Design\\_Seminar\\_Flyer.pdf](http://www.cement.org/exec/KY_9-25-07_RCC_Design_Seminar_Flyer.pdf)

## Cement Trifecta at Dulles Airport

Three different cement products are being used in the construction of new Runway 4 at Dulles International Airport in Washington, DC:



*Placing CTB with high-density paver*

- Soil-cement is being used to stabilize the subgrade on about 600,000 square yards, pulverizing and mixing to a depth of 12 inches.
- A 6 inches thick cement-treated base (CTB) is being constructed on top of the stabilized subgrade. It is being plant-mixed on site using 6% cement.
- The concrete runway is typically 18 inches thick, with doweled transverse joints with 20 ft spacing.

The new runway will be approximately 9,400 ft. long and 150 ft. wide, in addition to the accompanying taxiways. The project started in 2006 and will be completed in 2008.

Source: [http://www.cement.org/pavements/pv\\_sc\\_ctb\\_dulles.asp](http://www.cement.org/pavements/pv_sc_ctb_dulles.asp)

## Upcoming Events

### 7th International Congress, "Concrete: Construction's Sustainable Option"

September 4-6, 2007 in Dundee, Scotland

<http://www.ctucongress.co.uk/>



### Workshop on Best Practices in Concrete Pavements

September 12-13, 2007 in Xi'an, China

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



**XXIIIrd World Road Congress**

September 17-21, 2007 in Paris, France

<http://www.paris2007-route.fr/index.php?lang=en>

**First International Conference on Recent Advances in Concrete Technology**

September 19-21, 2007 in Arlington, Virginia, USA

<http://www.cipremier.com/ciframeset.htm?index2.htm>

**RCC Workshop in Kentucky**

September 25, 2007 in Louisville, Kentucky

[http://www.cement.org/exec/KY\\_9-25-07\\_RCC\\_Design\\_Seminar\\_Flyer.pdf](http://www.cement.org/exec/KY_9-25-07_RCC_Design_Seminar_Flyer.pdf)

**ACI Fall Convention - "Puerto Rico - Bridging the Americas"**

October 14-18, 2007 in Fejardo, Puerto Rico

<http://www.concrete.org/Convention/fall-Convention/Front.asp>

**International Workshop on Best Practices for Concrete Pavements**

October 21-23, 2007 in Recife, Pernambuco, Brazil

<http://ibracon1.locaweb.com.br/eventos/pavement.workshop/informacoes.asp>

**International Conference on Optimizing Paving Concrete Mixtures and Accelerated Concrete Pavement Construction and Rehabilitation**

November 7-9, 2007 in Atlanta, Georgia, USA

<http://www.fhwa.dot.gov/pavement/concrete/2007cptpconf.cfm>

**Advances in Cement Basted Materials and Applications in Civil Infrastructure (ACBM-ACI)**

December 19-21, 2007 in Lahore, Pakistan

<http://www.acb-aci.org/index.htm>

**87th Annual Meeting of the Transportation Research Board**

January 13-17, 2008 in Washington, D.C., USA

<http://trb.org/meeting/>

**8th Global Cement Conference**

March 3-4, 2008 in Moscow, Russia

<http://www.EuropeanCement.com>

**2nd International Symposium on Ultra High Performance Concrete**

March 5-7, 2008 in Kassel, Germany

<http://www.uhpc-symposium.de>

**ACI Spring Convention: "Design and Construction Compatibility"**

March 30 - April 3, 2008 in Los Angeles, California, USA

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

**First International Symposium on Transportation and Development Innovative Practices**

April 24-26, 2008 in Beijing, China

<http://www.jttx.net.cn/tdibp>

**11th International Conference on Durability of Building Materials**

May 11-14, 2008 in Istanbul, Turkey

<http://www.11dbmc.org>

**10th International on Application of Advanced Technologies in Transportation - AATT 2008**

May 27-31, 2008 in Athens, Greece

<http://www.civil.ntua.gr/aatt>

**6th RILEM International Conference on Pavement Cracking**

June 9-11, 2008 in Chicago, Illinois, USA

<http://www.ict.uiuc.edu/RILEM>

### **13th International Conference on Alkali-Aggregate Reaction in Concrete 2008 (ICAAR)**

June 16-19, 2008 in Trondheim, Norway

<http://www.icaar2008.org>

### **2nd International Conference on "Advances in Concrete and Structures"**

June 19-21, 2008 in Changsha, China

<http://cipres.hnu.cn/>

### **6th International Conference on Road and Airfield Pavement Technology**

July 20-23, 2008 in Sapporo, Japan

<http://www.jsce.or.jp/committee/pavement/icpt2008.html>



### **2nd Workshop on Advanced Characterization, Modeling, and Design of Concrete Pavements**

August 13-15, 2008 in Richmond, California, USA

<http://www.concretepavements.org/9thiccp/>



### **9th International Conference on Concrete Pavements**

Organized by ISCP

August 17-21, 2008 in San Francisco, California, USA

<http://www.concretepavements.org/9thiccp/>

### **8th International conference on Creep, Shrinkage, and Durability of Concrete and Concrete Structures (CONCREEP 8)**

September 30 - October 2, 2008 in Ise-Shima, Japan

<http://concrete-lab.civil.nagoya-u.ac.jp/concreep8/>

### **3rd International Conference on Accelerated Pavement Testing**

October 1-3, 2008 in Madrid, Spain

<http://www.cedex.es/apt2008/>



### **10th International Conference on Concrete Pavements**

Organized by ISCP

Tentatively scheduled for August 2012 in Province of Quebec, Canada

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

If you wish to submit an upcoming conference, meeting, or call for papers for the next ISCP e-newsletter, please contact us at [newsletter@concretepavements.org](mailto:newsletter@concretepavements.org).

The ISCP Newsletter is maintained by Editor-in-Chief, Dr. Erwin Kohler, Associate Editor, Dr. Jake Hiller, and Assistant Editor, Amanda Bordelon. Suggestions for future e-newsletters are welcomed at [newsletter@concretepavements.org](mailto:newsletter@concretepavements.org).

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