



International Society for Concrete Pavements

ISCP e-Newsletter

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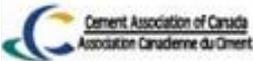
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What's New at ISCP

ISCP's Annual Meeting Recap

The annual membership and board meeting of ISCP was held on Saturday, January 10 at the Marriott Wardman Park Hotel in Washington DC USA in conjunction with the Annual Meeting of the Transportation Research Board.

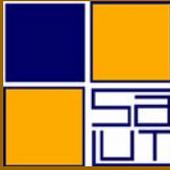
Highlights of the meeting include the following:

- Announcement of chair appointments for the new standing committees:
 - Technology Transfer – Bryan Perrie (SOUTH AFRICA) and Mike Darter (USA)
 - Membership – Juan Pablo Covarrubias (CHILE)
 - Activities – José Balbo (BRAZIL)

ISCP members are asked to contact Dan Zollinger (d-zollinger@tamu.edu) if they are interested in serving on any of the seven standing committees.

- Discussion of 9th Conference closeout, including attendance (about 325 attendees) financial status (final numbers will probably show a slight loss on the event), and final shipping of all deliverables to attendees (now complete).
- Review and discussion of Memoranda of Understanding being developed between ISCP and EUPAVE, Australian Society for Concrete Pavements.
- Update on development of technology transfer area of ISCP website (to include concrete pavement-related reports, papers, photographs, etc.) and that certain areas of this area will be password-protected and available only to ISCP members.
- Discussion of plans for upcoming ISCP conferences and workshops to be held in Australia, Brazil, India and China.
- Presentation of preliminary plans for the 10th International Conference on Concrete Pavements, tentatively scheduled to be held in Canada in 2012. Tim Smith (CANADA), conference chair, is actively soliciting volunteers to chair and serve on subcommittees for this event – please contact tsmith@cement.ca if you are interested.
- A full-day (or longer) meeting of the ISCP Board is planned in conjunction with a technical conference in Australia in August 2009, with proceeds of the conference being used to offset the travel costs of the participating board members.
- The 2009 Operating budget was presented, reviewed and approved.
- The 2010 Annual Board and Membership Meeting is tentatively planned for Saturday, January 9 at 17h30 in the same hotel as the 2009 meeting.

A complete record of the meeting minutes is available on the ISCP website at www.concretepavements.org.



Conference News

Summary of Events at the TRB Annual Meeting

Over 10,500 researchers, engineers, scientists, practitioners, policy-makers and others from around the world were gathered for this year's Transportation Research Board (TRB) Annual Meeting was held in Washington, D.C., USA from January 11-15, 2009. This year, roughly 1900 papers were presented in nearly 600 scheduled sessions. The spotlight theme for 2009 was *Transportation, Energy, and Climate Change*.

Some highlights of this year's Annual meeting include the following:

- Accessible Webinar programs so that committee members and staff can hold meetings throughout the year
- A new subcommittee was started within AFD50 (Rigid Pavement Committee) on fundamental modeling of concrete pavements.
- AFD70 (Pavement Rehabilitation Committee) has started up a new subcommittee (AFD70-3) on Interlayer Systems to Mitigate Reflective Cracking
- The Basic Research and Emerging Technologies Committee (AFN10) hosted a workshop entitled *Live Long and Prosper, Creating More Sustainable Concrete Pavements*

The next TRB Annual meeting will be held January 10-14, 2010 in Washington DC, USA. The theme for 2010 will be: *Investing in our Transportation Future: Bold Ideas to Meet Big Challenges*.

TRB is also sponsoring the *Fourth International Conference on Women's Issues in Transportation* on October 27-30, 2009 in Irvine, California.

More information about TRB activities can be found at:

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

Call For Papers for 3rd International Symposium on "Treatment and Recycling of Materials for Transport Infrastructures"



The Institute of Cement and Concrete of Guatemala (ICCG), with the support of the Interamerican Federation of Cement (FICEM-APCAC), the World Road Association (PIARC) and the lime industry of Guatemala, are organizing TREMTI 2009: The 3rd International Symposium on "Treatment and Recycling of Materials for Transport Infrastructures". This Symposium will take place in Antigua (Guatemala), from November 11-13, 2009.

The organizers of TREMTI 2009 are calling for paper submissions for this symposium. Abstracts/papers can be focused on a relevant case study or on a specific topic. Case studies should be dealing with fields such as roads and motorways, airports, railways, harbors and other maritime and/or river infrastructure, or urban spaces. The specific topics can be on research studies, placement methods and precautions, advances in machinery, construction methods or any subject of general interest related to recycled materials in infrastructure. A detailed list of topics can be found at:

<http://www.eupave.eu/documents/events/tremti-2009.xml?lang=en>

Abstracts must be written in English using Microsoft Word format (without figures) and shall not exceed 300 words. Please send your abstract to the TREMTI Symposium Secretariat (lalvarez@iccg.org.gt) **before March 1, 2009**. Authors of accepted papers will be notified before April 15, 2009. Final manuscripts along with the subscription of one of the authors must be sent to the Symposium Secretariat not later than June 30, 2009. All accepted papers shall be included in the Proceedings of the Symposium, provided they are received in time.



For more information about the conference, please visit the following website.

<http://www.eupave.eu/documents/events/tremti-2009.xml>

First Conference on Nanotechnology in Cement and Concrete

9th International Conference on Concrete Block Paving

18 - 21 October 2009

Buenos Aires Sheraton Hotel & Convention Center

Buenos Aires 2009

The First International Conference on Nanotechnology in Cement and Concrete will be held May 5-7, 2010 at the National Academies Beckman Center in Irvine, California, USA. The objective of this conference is to advance the science and engineering of nanotechnology in

modifying and monitoring the behavior and performance of cement and concrete at the nanoscale. Nanomodification of concrete is potentially capable of dramatically improving its tensile strength, toughness, ductility, and durability properties. This conference provides a unique opportunity for scientists, engineers and practitioners to help set the future direction of the use of nanotechnology in cement and concrete. Abstracts (not exceeding 250 words) will be accepted until **March 15, 2009**.

For more information on the 1st Conference on Nanotechnology, please visit:

www.trb.org/conferences/2010/nanotech

Block Paving: Sustainable Paving for the Future

The 9th International Congress of Concrete Block Paving will take place October 18-21, 2009 at the Sheraton Hotel and Conventions Centre, located in the heart of Buenos Aires, Argentina. This conference is organized by the Instituto del Cemento Portland Argentino (ICPA), the Asociación Argentina de Bloques de Hormigón (AABH), the organization of MCI Group, and R. Santi & Asociados S.A. Other co-sponsors for the event include ISCP, EUPAVE, and Holcim.

The Grupo de Especialistas en Pavimentos Segmentados (SEPT) thought that a reunion between the professionals and companies of this area would be a great opportunity to discuss and generate knowledge about this theme and chose Argentina as the welcoming country for the conference.

The conference will contain presentations with simultaneous translation from English to Spanish and exhibitors will be present to show products such as machines, concrete, additives, manufacturing and news about consultancy. Participants from several nations around the globe will be present at the conference, including countries in South America, Japan, USA, Great Britain, Germany and Israel.

This conference is a fundamental tool in benefiting managers and directors from companies related to concrete block paving, landscaping and engineering, amongst contractors, architects, officers, investigators, road engineers, consultants, college professors and technicians due to its recognition in Argentina and abroad.

Early registration ends March 18, 2009. For more information about the 9th International Congress of Concrete Block Paving, please visit:

<http://www.iccbp2009.com.ar>

National Conference on Pavement Preservation, Repair and Rehabilitation of Concrete Pavements

The National Conference on Preservation, Repair, and Rehabilitation (PRR) of Concrete Pavements, sponsored by the Federal Highway Administration (FHWA)'s Office of Pavement Technology and co-sponsored by ISCP, will be held in St. Louis, Missouri, USA, April 22-24, 2009. The conference will discuss and showcase the latest issues and techniques related to PRR. This 2.5-day conference, organized by FHWA, will feature presentations from select peer-reviewed papers and invited speakers. Case studies from U.S. highway agencies, industry, and international practices will be highlighted. Prior to the conference on April 21, 2009, a full-day workshop is scheduled on Concrete Pavement Preservation and a Forum on FHWA's RealCost Life-Cycle Cost Analysis Software will also be held. The April 21 workshop and the Forum are at no additional cost. However, pre-registration is required for these two program items.

General registration for this conference is US\$350 by March 31, 2009 and US\$400 thereafter. Several meals are included in the registration fee.

Updated information on the conference is available online at:

<http://www.fhwa.dot.gov/pavement/concrete/2009cptpconf.cfm>

U.S. National Concrete Consortium Meeting Coming Up in March

The U.S. National Concrete Consortium (NCC) will hold its spring meeting March 31-April 2, 2009 in San Antonio, Texas, USA. These meetings provide an open forum to share concerns, problems and solutions on selected "hot topics" related to concrete pavements. Several state Departments of Transportation from across the USA, as well as Federal Highway Administration (FHWA), American Concrete Pavement Association (ACPA) Chapters, academia, industry and suppliers involved in concrete pavement construction will participate in this semi-annual meeting.

Some of the 'hot topics' to be discussed this Spring include: alkali-silica reaction, mix design, joint deterioration, the air void system, dowel basket standardization, aggregates, nanotechnology, thermal stresses and more. Technical presentations will focus on steel in concrete from dowel bars to reinforcing steel in pavements and bridges.

New participants are always welcome. Additional details and registration forms are available through links at:

http://www.cptechcenter.org/t2/ttcc_ncc_meeting.cfm

Member News

Condolences go out to Family and Friends of Starr Kohn

Starr D. Kohn Ph.D., P.E. of Soil and Materials Engineers in Plymouth, Michigan, USA passed away suddenly on January 31, 2009 at his home in Pittsfield Township, Michigan.



The pavement engineering community has lost a tremendous asset and friend, and ISCP would like to offer its condolences to Starr's family and friends. ISCP invites members and friends to use the following website to pass along condolences or to share stories and recollections of Starr:

http://www.concretepavements.org/starr_kohn.htm

Comments left on this site will be forwarded to his family.

ISCP Member to be honored with ACI Award

The American Concrete Institute (ACI) has chosen ISCP member Mr. Suneel N. Vanikar, Concrete Team Leader of the Federal Highway Administration (FHWA) to receive ACI's Henry C. Turner Medal.

Mr. Vanikar was elected for the award "for outstanding service to the industry through support, guidance, and management of research that has advanced design, construction, and the service life of concrete pavements and transportation structures". A formal announcement will be made at the Opening Session and Awards Program, Sunday, March 15, 2009 during the ACI's spring convention at the Marriott Rivercenter, San Antonio, Texas.

ISCP Members Win Best Paper Award at TRB

ISCP members Jeffery Roesler and Ph.D. student Francisco Evangelista Junior, from the University of Illinois at Urbana-Champaign in Urbana, Illinois, USA were co-authors of a technical paper that received the 2009 Bryant Mather Award for the Best Paper in Concrete Materials at this year's TRB Annual Meeting. The Transportation Research Board committee AFN40: Concrete Materials and Placement Techniques Committee reviewed the paper and the Concrete Materials Section judged it as the 2009 Best Paper. The paper title, authors and abstract are shown here:

"Numerical Simulations of Fracture Resistance of Functionally Graded Concrete Materials"
by Francisco Evangelista, Jeffery Roesler, and Glaucio Paulino

The concept of grading material composition in a pre-determined direction to target multiple objectives and functionality is applicable to layering and positioning different materials at specified depths. From a fracture mechanics perspective, this paper explores the advantages of using functionally graded concrete materials (FGCM), i.e., plain and fiber reinforced concrete (FRC) in two distinct layers. The fracture energy (G) and residual load capacity ($P\delta$) of two-layered concrete beams are investigated by means of numerical simulations using a cohesive zone model (CZM) implemented in a finite element framework. The required fracture parameters for defining the cohesive zone model are obtained from individual fracture tests of the plain and FRC materials. The numerical simulations analyzed the effects of FRC thickness and position (whether at the top or bottom of the beam) on the fracture resistance of the two-layered concrete beam. A cost-benefit analysis showed that the FRC placed in the bottom lift is more fracture efficient (higher G and $P\delta$ values at lower costs) than when it is placed in the top lift. There is also an optimal FRC thickness in which the benefit in fracture resistance is reduced as the FRC layer is increased. The application of a CZM to predict the fracture behavior of a FGCM beam has demonstrated its potential for also quantifying the effects of FGCM on the fracture resistance of concrete pavements.

Industry News

ACPA Announces 2009 Webinar Schedule



The American Concrete Pavement Association's (ACPA's) highly acclaimed webinar series features an expanded program for 2009. The series of 36 webinars will cover a broad range of topics presented in an interactive, online format. Some of the transportation-construction community's most highly respected experts will present basic (60 minute) and intermediate (90 minute) webinars on a wide range of topics.

The courses will cover virtually every aspect of design, construction, and rehabilitation of concrete pavements. This year's program also will cover timely topics such as sustainability, energy, fuel efficiency, and more. There also will be application specific webinars that will focus on unique aspects of highways, airports, roadways, or industrial/commercial pavements.

ACPA's webinar program is designed for contractors, consultants, engineers, federal agencies, military and Dept. of Defense contractors/engineers, municipal and county public works officials, metropolitan planning organization officials, and academia.

More information and a detailed schedule of ACPA's webinar series can be viewed at:

http://www.pavement.com/Events_and_Programs/Education_and_Training/2009%20Program/2009-Webinar-Program-full.pdf

ACPA to hold Airport Pavement Design Seminar



In addition to their webinar series, ACPA will be holding a 3-day seminar on concrete pavement design for airfields from April 21-23, 2009 in Charlotte, North Carolina, USA. Participants will be eligible for 19.5 Professional Development Hours (PDH) for attending the seminar.

This seminar will provide participants the latest on the Federal Aviation Administration's (FAA's) rigid pavement design procedure, updates on the latest research on Alkali Silica Reaction, comparative analysis of the FAA, PCA, and military design methods, as well as explanations of FAA specifications and design requirements.

More information and online registration for this seminar will be available online shortly at:

http://www.pavement.com/Events_and_Programs/Education_and_Training/index.asp

EUPAVE Moved to a New Office!

As of December 1, 2008, the European Concrete Paving Association (EUPAVE) moved to a new office located at:

*Vorstlaan 68
Boulevard du Souverain
1170 Brussels
BELGIUM*



Their telephone, fax and email address will remain unchanged.

Telephone: +32 (0)2 790 42 06,
Fax: +32 (0)2 640 06 70
Email: info@eupave.eu

Upcoming Events

Spring 2009 Tech Transfer and National Concrete Consortium

Tech Transfer Concrete Consortium – March 31, 2009

National Concrete Consortium – April 1-2, 2009 in San Antonio, Texas, USA

http://www.cptechcenter.org/t2/ttcc_ncc_meeting.cfm

California Pavement Preservation Conference

April 8-9, 2009 in Oakland, California, USA

<http://www.cp2info.org/conference>

ACPA Airport Pavement Design Seminar

April 21-23, 2009 in Charlotte, North Carolina, USA

http://www.pavement.com/Events_and_Programs/Education_and_Training/index.asp



National Conference on Preservation, Repair, and Rehabilitation of Concrete Pavements

April 22-24, 2009 in St. Louis, Missouri, USA

<http://www.fhwa.dot.gov/pavement/concrete/2009CPTPconf.cfm>

2nd European Airport Pavement Workshop
May 13-14, 2009 in Amsterdam, The Netherlands
<http://www.crow.nl/engels/>

2009 Concrete Technology Forum: Focus on Performance Prediction
May 13-15, 2009 in Cincinnati, Ohio, USA
<http://www.concretetechnologyforum.org>

Eighth International Conference on the Bearing Capacity of Roads, Railways and Airfields
June 29 - July 2, 2009 in Champaign, Illinois, USA
<http://www.BCR2A.org>

TRB Data Analysis Working Group (DAWG) (Held in conjunction with MAIREPAV6)
July 7-10, 2009 in Torino, Italy
<http://www.trb.org/Studies/Programs/DAWG.asp>

Sixth International Conference on Maintenance and Rehabilitation of Pavements and Technological Control (MAIREPAV6)
July 8-10, 2009 in Torino, Italy
<http://www.mairepav6.it>

GeoHunan International Conference on Challenges and Recent Advances in Pavement Technologies and Transportation Geotechnics
August 3-6, 2009 in Hunan, China
<http://www.geohunan.org/>

9th International Conference of Chinese Transportation Professionals (ICCTP 2009)
August 5-9, 2009 in Harbin, China
<http://www.icctp.org.cn/default.asp>

XXVIIe International Baltic Road Conference
August 24-26, 2009 in Riga, Latvia
<http://www.lvceli.lv/en/?i=124>

4th International Conference on Modern Technologies in Highway Engineering
September 3-4, 2009 in Poznan, Poland

21st Belgian Road Congress
September 22-25, 2009 in Gent, Belgium
<http://www.wegencongres.be>



9th International Conference on Concrete Block Paving
October 18-21, 2009 in Buenos Aires, Argentina
<http://www.iccbp2009.com.ar>

Ninth International Symposium on Brittle Matrix Composites (BMC9)
October 25-28, 2009 in Warsaw, Poland
<http://bmc.ippt.gov.pl/>

TREMTI 3: 3rd International Symposium on Stabilization and Recycling
November 12-14, 2009 in Antigua, Guatemala
<http://www.eupave.eu/documents/events/tremti-2009.xml>

International Rilem Conference on Progress of Recycling in the Built Environment
December 2-4, 2009 in São Paulo, Brazil
<http://www.recycle2009.org/index.html>

89th Transportation Research Board Annual Meeting
January 10-14, 2010 in Washington DC, USA
<http://www.trb.org>

13th International Winter Road Congress

February 8-11, 2010 in Quebec City, Canada

[http:// www.aipcrquebec2010.org](http://www.aipcrquebec2010.org)

1st International Conference on Pavement Preservation

April 12-16, 2010 in Newport Beach, California, USA

<http://www.pavementpreservation.org/icpp/>



First International Conference on Nanotechnology in Cement and Concrete

May 5-7, 2010, in Irvine, California, USA

<http://www.trb.org/Conferences/2010/Nanotech>

7th International Conference on Fracture Mechanics of Concrete and Concrete Structures

May 23-28, 2010 on Jeju Island, South Korea

<http://www.framcos7.org/>

GeoShanghai 2010

June 3-5, 2010 in Shanghai, China

<http://www.geoshanghai2010.org/index.asp>



11th International Symposium on Concrete Roads

Organized by EUPAVE

October 13-15, 2010 in Seville, Spain

<http://www.2010concreteroads.org/>

10th International Conference on Low-Volume Roads

July 24-27, 2011 in Lake Buena Vista, Florida, USA

<http://www.trb.org/conferences/2011/10LVR>

24th World Road Congress

September 25-30, 2011 in Mexico City, Mexico

<http://www.piarc.org/en/congresses-seminars/road-congresses.htm>

International Conference on Concrete Pavement Design, Construction, and Rehabilitation



Tentatively planned for 2011

Chang'an University, Xi'an, Shaanxi Province, P.R. China

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

10th International Conference on Concrete Pavements



Organized by ISCP

Tentatively planned for a location in Canada in 2012

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

If you wish to submit an announcement and/or link for an upcoming conference, meeting, or call for papers for the next ISCP e-newsletter, please contact us at newsletter@concretepavements.org.

The ISCP E-Newsletter is produced by Editor-in-Chief, Amanda Bordelon, Associate Editor, Dr. Jake Hiller, and Assistant Editors: Cristian Gaedicke, Corey Zollinger, and Nancy Whiting. Suggestions for future newsletters are welcomed at newsletter@concretepavements.org.

ISCP President:

Dan G. Zollinger, Ph.D., P.E.
Texas A&M University
CE/TTI Building, Rm 503e
College Station, Texas, USA 77843
Phone: 979-845-9918
Fax: 979-845-0278
Email:
dzollinger@concretepavements.org

ISCP Vice President:

Kathleen T. Hall, Ph.D., P.E.
1271 Huntington Drive South
Mundelein, Illinois, USA 60060
Phone: 847-549-8568
Fax: 847-589-4284

ISCP Secretary and Treasurer:

Mark B. Snyder, Ph.D., P.E.
7085 Highland Creek Dr.
Bridgeville, Pennsylvania, USA 15017
Phone: 412-221-8450
Fax: 412-221-0409
Email: mbsnyder@concretepavements.org
(Contact for membership inquiries)