

International Society for Concrete Pavements

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Annual Board and Membership Meeting Scheduled

ISCP's annual Board and Membership Meeting is scheduled for Saturday, January 12, 2008 at 17h30 (Eastern Standard Time) in the Thurgood Marshall North room of the Marriott Wardman Park Hotel in Washington, D.C.. The meeting agenda highlights are:

- Updates on the 9th International Conference and the 2nd Pre-Conference Workshop
- Presentation and discussion of the 2008 budget
- Summary of the 2007 Strategic Planning Meeting results
- Induction of new honorary members:
 - -Professor Willy Wilk (Honorary Professor, Federal Institute of Technology Zurich, SWITZERLAND)
 - -Dr. L.R. Kadiyali (President, L.R. Kadiyali and Associates, New Delhi, INDIA)
- Discussion of possible affiliations with International Chapters and other organizations

Details on the meeting will be posted on the ISCP website at www.concretepavements.org.

What's New at ISCP

President's Message



The Holiday Season is always a wonderful time of the year and I hope that this year it will also be a time for all of you to get away from the hustle and bustle of everyday life and reflect for a moment on the events of the past year.

The Society, ever moving forward, has made great strides both organizationally and internationally this year. We had a very successful Strategic Planning Meeting in South Africa (at the Bakubung Bush Lodge on a game preserve), which was followed by a well-attended 2-day

seminar in Johannesburg that covered a variety of concrete technical issues and featured presentations by many of the Board members and participants from the Bakubung meeting. The work accomplished at the day-and-a-half planning meeting was significant and will have far-reaching effects on the way Society business is conducted in the future.

The Society also co-sponsored seminars and workshops in China and Brazil, and is in the process of developing memoranda of understanding for what is expected to eventually become the first 'branch' of the Society in Australia. The work done by George Vorobieff in moving this effort forward has certainly been noteworthy and we applaud him for his groundbreaking efforts.

We are looking forward to next year and the preparations in store for the 9th International Conference in San Francisco. More news and information on this event and others will follow with our scheduled board meeting next month at TRB.

Dan Zollinger President, ISCP



ISCP Election Results

A total of 63 ballots were returned for these elections. The following ISCP members have now been elected to a 4-year term on the Board of Directors, effective February 1, 2008:

- Jamshid Armaghani USA
- Neeraj Buch USA
- Jake Hiller USA
- Bryan Perrie South Africa
- Johan Silfwerbrand Sweden
- Tim Smith Canada
- George Vorobieff Australia

Several write-in candidates also received votes including Lambert Houben – The Netherlands, Erwin Kohler – USA, Bo Tian – China, and Adrian Van Leest – The Netherlands.

The Society expresses sincere thanks and deep appreciation to outgoing Board members Fred HejI – USA, Gerry Krozel –USA, Tatsuo Nishizawa – Japan, and Leif Wathne – USA. These members have agreed to serve as Industry Liasons and Local/Regional ISCP Coordinators to help support the mission of the ISCP.

In addition, the proposal for a new mission statement was adopted to reflect the broadening scope of ISCP activities, which have moved well beyond the original emphasis on the organization and hosting of the quadrennial International Conference (although that will continue to be a major activity of the Society). The new mission statement reads 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. "

Post-Meeting Social Dinner – RSVP now!

The annual business meeting will be followed by an informal social dinner at 20h00 at the Pesto Ristorante on Connecticut Avenue NW (near the Marriott Wardman Park Hotel). Attendees (other than honored guests) will be asked to contribute \$10 toward the cost of the meal and to pay directly for any alcoholic drinks. Space at the restaurant is limited, so please RSVP your intention to attend to mbsnyder@concretepavements.org to guarantee your spot at dinner!

Renew your ISCP Membership for 2008 Now!

If you have not already prepaid or renewed your membership for 2008, please remember to do so **before January 31**, **2008** because only continuing (2007) members who renew by that date will be entitled to register for the 9th International Conference at the member rate (a \$100 savings).

Membership renewals and 2008 membership cards are now being mailed, but you can beat the rush and renew online at www.concretepavements.org. Remember that you can renew by FAX, by mail or online at the ISCP website using checks, money order or credit card (wire transfers are discouraged because of high bank fees).

Thank you, in advance, to all new and renewing ISCP members. Your support of ISCP's mission and activities helps to advance the promotion of good concrete pavement technology around the world and is greatly appreciated!

Changes in the E-Newsletter Editorial Group

After nearly four years, Dr. Erwin Kohler has decided to step down as editor of the ISCP e-Newsletter. In the summer of 2004, Erwin and Jake Hiller originally volunteered to take on the task of developing an outlet for ISCP announcements and news of interest to the concrete pavement industry. After four volumes, 20 issues, and many fond memories, Dr. Kohler is moving on to devote more time to his family and his day job. As of January 1st he is joining Dynatest Consulting Inc where, among other responsibilities, he will continue providing professional services to the UC Pavement Research Center (UCPRC). Dr. Kohler intends to remain very active within ISCP and to help out on the newsletter every once in a while.

Due to Dr. Kohler's departure, Assistant Editor Amanda Bordelon will be stepping up to Editor-in-Chief of the e-Newsletter for Volume 5, while Dr. Jake Hiller will remain as the Associate Editor and handle the website duties for the Society. ISCP Secretary-Treasurer, Dr. Mark Snyder, will also remain active in promoting the Society's activities through the e-Newsletter. The Society is now actively looking for Assistant Editor(s) to handle some responsibilities of this bi-monthly effort (see article below).

The Society and all of us involved with the e-Newsletter would like to thank Dr. Kohler for his efforts and friendship over these past years and wish him the best with his new endeavors.

E-Newsletter Assistant Editor(s) Wanted!

ISCP is looking for one or more volunteers to serve as Assistant Editor(s) of the ISCP e-newsletter. This position assists the Editor and Associate Editor in gathering, writing and/or editing articles concerning news, activities and technical developments that are of interest to ISCP members. Candidates should work in (or be studying) an area closely related to concrete pavements, have a good command of English, and be willing to serve ISCP in this capacity for at least two years. This position can be considered a possible stepping stone to Society positions with greater responsibility.

Interested members should contact the ISCP Secretary at mbsnyder@concretepavements.org before the ISCP Annual Business Meeting on Saturday January 12, 2008.

Organizational Member Profile: Fugro Consultants, Inc.



ISCP welcomes our newest organizational member, Fugro Consultants, Inc., based in Austin, Texas, USA. Fugro Consultants, Inc provides integrated pavement and geotechnical engineering services to meet the transportation needs of the world. As a worldwide company, Fugro provides a unique combination of talented staff, technology, teamwork, and tools to meet the growing demands on today's infrastructure. Fugro's clients include a wide range of organizations involved with, or responsible for, all aspects of roadway or airport pavement design, construction, and maintenance.

Fugro Consultants has provided pavement engineering-related services for more than 20 years, including non-destructive pavement evaluations, pavement design, pavement rehabilitation, pavement management, research, materials sampling, and laboratory testing. As part of the non-destructive pavement evaluation services, Fugro Consultants operates falling weight deflectometers, ground penetrating radar, automated distress data collection vehicles, video inspection equipment for subsurface edge drain systems, roadway profilers, and also performs manual distress surveys. Fugro has developed new and rehabilitation pavement designs for many challenging projects, including toll roads, airports, and ports. Fugro provides the technical expertise to collect all the required data to implement pavement management systems for airfields, cities, and municipalities. Additionally, Fugro is an active member of the Texas Council of Engineering Laboratories and our primary facilities are accredited by AASHTO, AMRL, and CCRL.

For more information about the Fugro Consultants Pavement Group, go to www.bre.fugro.com.

Honorary Member Profiles: L. R. Kadiyali and Willy Wilk

The ISCP Board of Directors recently elected Dr. L. R. Kadiyali (India) and Professor Willy Wilk (Switzerland) to Honorary Member status, the Society's highest level of recognition. Induction will take place at the Society's Annual Business Meeting in Washington, D.C. on January 12, 2008, and these men will be guests of honor at the Social Dinner following the meeting.

Brief summaries of Dr. Kadiyali's and Professor Wilk's background and accomplishments follow.

Dr. L. R. Kadiyali



Dr. L.R. Kadiyali was born in India on May 3, 1933. He earned a Ph.D. in Civil Engineering in India and has since accumulated more than forty years of experience in Highway Engineering, including approximately 30 years in the service of the India Ministry of Road Transport and Highways (eventually rising to the position of Chief Engineer), where he dealt with the planning, improvement and maintenance of the country's National Highway system.

After retiring from government service, he started his own consulting firm, which has been involved with many prestigious projects, such as the implementation of the

National Highway Development Programme in India. His firm also updated the 1983 study on Road User Costs for the Asian Development Bank/Government of India in 1992, and the results of this research effort have been incorporated in the HDM-IV.

Dr. Kadiyali has pioneered the cause for the introduction of cement concrete roads in India since 1985. As a result of his persistent efforts, several projects adopting concrete pavements were taken up in India during the last 15 years. He has been an adviser to the Cement Manufacturers' Association, and has authored several publications dealing with various aspects of concrete pavements that have been widely adopted by India's pavement engineering community.

L.R. has served as the Convenor of the Rigid Pavement Committee of the Indian Roads Congress for the past six years and, during that period, he has been responsible for bringing out several guidelines and codes of practice covering several aspects of design and construction of concrete roads.

In summary, Dr. Kadiyali has made a significant impact on Indian concrete pavement technology through his technical society activities, numerous publications, and as a leading spokesman for use of concrete pavements in India on the basis of concrete pavement's long-term performance and cost-effectiveness. ISCP is proud to welcome Dr. L.R. Kadiyali as an Honorary Member!

Professor Willy Wilk



Professor Willy Wilk was born in Aarau, Switzerland, on July 11, 1931. He earned his Civil Engineering Diploma at the Swiss Federal Institute of Technology in Zurich, in 1963, and also completed his Master of Science degree in Structural Engineering. He began his professional career as a structural engineer for consulting companies dealing with pavements and bridges for highways and railways.

During the period 1970-1994, Mr. Wilk was the Manager-Director of the TFB (Portland Cement Association of Switzerland). He also served as the Technical Director of the enterprise Betonstrasse AG (i.e., Roads in Concrete, Inc.), which was

formerly the Centre for Research, Development and Consulting in Concrete Technology, an arm of the Swiss Cement Industry that served as a concrete pavement technology reference for Switzerland and other European countries.

From 1971 to 1995, Professor Wilk also served the Swiss Federal Institute of Technology, first as a lecturer (1971 to 1986) before achieving the position of Honorary Professor in 1986 and becoming the professor of Concrete Bridges and Pavements until his retirement from the institute in 1995.

Professor Wilk has had made many important contributions to concrete paving technology. He has been involved in many high-profile international projects involving the assessment of concrete pavement

quality, analyses of the cracking behaviour of concrete affected with alkali-silica reactivity, research leading to the restoration of historic viaducts and bridges, and many urban concrete highway and airfield pavement design and construction projects. He has been a long-standing member of the PIARC Technical Committee on Concrete Roads (C-7) and has made enormous contributions to the development of standards for concrete roads through his membership with the Switzerland Standardization office (VSS). In addition, he served as the editor of the Swiss-edited technical magazine "Routes en Béton" ("Concrete Roads") for several years, which has helped to disseminate good practices for concrete road design and construction in Europe.

In summary, Prof. Wilk has devoted his professional life to concrete technology, with special regards to concrete for airfields and highway. His contributions to the development of Swiss and European standards for concrete materials and designs, his enthusiasm for these same topics as a professor, and his involvement in many international highway and airfield design and construction projects have made a significant impact in Switzerland, throughout Europe, and around the world. For all of these reasons and more, ISCP is proud to welcome Professor Willy Wilk as an Honorary Member!

Research News

Quiet Concrete at MnROAD



Parallel Strips of 4 grinding Configurations on the MnROAD Low Volume Road

In June 2007, an innovative diamond grinding test was performed on a lowvolume road cell at the Minnesota Department of Transportation's MnROAD facility. Subsequently in October, two cells of MnROAD's mainline Interstate 94 section were ground as part of a transportation pooled fund study (TPF 5-134) whose participants include Mn/DOT as lead state, the Texas Department of Transportation, the Federal Highway Administration and the American Concrete Paving Association. The low-volume road (LVR) experiment consisted of four sections: a transversely tined surface, a conventional grinding surface and two variations of New Generation Concrete Surface. The two NGCS sections were different only in the sense that the flush grind and groove process was achieved either in one or two passes. The mainline (ML) experiment ground a full-width cell to the conventional

configuration and a contiguous cell to the innovative configuration. A report being prepared by Mn/DOT shows that the new grinding configuration is a quiet pavement solution. At 98.5 dB(A) measured by the On-Board-Sound-Intensity method, the single pass New Generation Concrete Surface (NGCS) is the quietest concrete pavement in the United States. The grinding pattern that was validated at MnROAD was developed at the Center for Safe, Quiet and Durable Highways at Purdue University. Diamond Surface Incorporated of Minnesota donated the grinding. Mn/DOT researchers who provided the initial surface characteristics testing will monitor the performance of the test cells in ride quality, friction, quietness and texture.

Prepared by: Bernard Izevbekhai, bernard.izevbekhai@dot.state.mn.us

Thin Concrete Pavements (TCP) Experiment Underway at U of Illinois

The Advanced Transportation Research and Engineering Laboratory (ATREL) is the site of cutting-edge research on a new design concept known as Thin Concrete Pavements (TCP). Comercial TCPavements Ltda, based in Santiago, Chile, is sponsoring this project to establish design guidelines for using TCP.

Concrete pavements are typically designed with minimum thicknesses of 6 inches for low volume roads and 8 to 12 inches for higher volume applications and with slab sizes of 12 feet wide by 15 feet long.



TCP Experiment after Construction and before Accelerated Loading

Because larger slab sizes increase the curling and load stresses in concrete pavements, an alternative approach to minimizing concrete slab thickness is to reduce the slab panel size.

In mid-October, a research team led by University of Illinois Professor Jeff Roesler and Graduate Research Assistant Victor Cervantes supervised the construction of three consecutive test sections where the slab panel size was fixed at 6 feet by 6 feet. The researchers will use these sections to study three primary variables: concrete thickness (8, 15, and 20 cm), concrete mixture (plain versus fiber-reinforced concrete), and base stiffness (aggregate base versus asphalt concrete base). The test sections

were embedded with instruments to measure factors that affect curling (including temperature, deflections, and strain) and will be loaded with the Accelerated Transportation Loading ASsembly (ATLAS), which simulates the effects of real-life traffic. The researchers will use the test results to determine the optimal thickness for TCP at a given traffic level.

Source: http://www.ict.uiuc.edu/projectspotlight/111507spotlight.html



Atlanta CPTP FHWA Conference



The FHWA CPTP conference last month in Atlanta was very well attended and the presentations, forums, and overall discussions were well received by industry representatives. Concrete pavement professionals from state agencies, academia, foreign countries, and the consulting world gathered for three days of activities and networking. There was a dual focus on this conference: one was on best practices for optimizing

paving concrete mixtures, while the other was on best practices for accelerated concrete pavement construction and rehabilitation. The event covered aspects of early-age concrete requirements, acceptance testing processes, and construction zone traffic management. Information related to the proceedings from the Atlanta FHWA CPTP conference can be obtained by contacting Shiraz Tayabji at stayabji@aol.com.

ASTM C09 Organizes Pervious Pavement Subcommittee

A new subcommittee for ASTM Committee C09 on Concrete and Concrete Aggregates has been created this year on standards activity surrounding pervious concrete mixes and pavements. The new subcommittee has begun developing proposals for test methods on compressive strength, fresh unit weight, permeability-field method, hardened unit weight and porosity, lab permeability, flexural strength, and paste-aggregate ratio acceptance tests. The subcommittee has also looked into consolidation methods to use in the laboratory. So far they have found that the Marshall hammer provides the least amount of variability compared to other methods, such as rodding.

For more information about ASTM visit www.astm.org.

PCA Pervious Concrete Reference Tool Available

The Portland Cement Association has developed a reference tool for pervious concrete. The CD is available to order online. It contains an analysis tool for hydraulic design, intended to illustrate the behavior of pervious concrete systems in relatively simple situations. For more information about the CD see www.cement.org/bookstore/profile.asp?itemid=CD063.

President Zollinger named ACI Fellow

Congratulations to ISCP President Dan Zollinger who was recently elected to Fellowship in the American Concrete Institute (ACI). An ACI Fellow is nominated and elected by the ACI Board of Direction as someone who made outstanding contributions to the production or use of concrete materials, products, and structures in the areas of education, research, development, design, construction, or management. In addition, an ACI Fellow has made significant contributions to ACI through committees and/or local chapters.



Advances in Cement Based 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/



ISCP Annual Board and Membership Meeting

Saturday, January 12, 2008 at 17h30 (Eastern Standard Time) Thurgood Marshall North room of the Marriott Wardman Park Hotel Washington, D.C. USA

7th Annual International Conference on Sustainable Aggregates, Pavement Engineering and Asphalt Technology

February 20-21, 2008 in Liverpool, England, UK http://www.ljmu.ac.uk/blt/peat/index.htm

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.jtzx.net.cn/tdibp

11th International Conference on Durability of Building Materials May 11-14, 2008 in Istanbul, Turkey http://www.11dbmc.org

Symposium on Mechanics of Pavements and Paving Materials During the inaugural International Conference of the Engineering Mechanics Institute (EM08) May 18-21, 2008 in Minneapolis, Minnesota, USA http://www.ce.umn.edu/em08

10th International Conference 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 16-18, 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/

ASCE TD&I Pavement Conference

October 15-18, 2008 in Bellevue, Washington, USA http://content.asce.org/conferences/pavements2008/



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 announcement and/or link for an upcoming conference, meeting, or call for papers for the next ISCP e-newsletter, please contact us at <u>newsletter@concretepavements.org</u>.

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 <u>newsletter@concretepavements.org</u>.

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