

SOCIETY FOR CONCRETE PAVEMENTS

e-NEWS

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ORGANIZATIONAL MEMBERS & MAJOR EVENT SPONSORS:



AMERICAN CONCRETE PAVEMENT ASSOCIATION





Association of Canada































Transports
Québec





ISCPNEWS

ISCP to Bring News to Members in Timely Fashion

ISCP's new website is brought to its members in "real-time fashion"—meaning, it has been developed to serve as a continuously updated clearinghouse of concrete pavement news and resources, conferences and workshops, publications, webinars, events, project profiles, new technologies, education, training, ISCP news, and more.



Therefore, ISCP is extending a "mini" newsletter brief twice a month in order to present the latest information as it is presented on our website. Please note, the newsletter will be concise with the link to the **full article** on the **ISCP website** —leading the reader to immediate connection to the full article and complete access to all additional links and information. Enjoy!

To read all articles on the ISCP website, please go to: https://www.concretepavements.org.

DEADLINE EXTENDED to May 31st for 11th ICCP Abstracts & Letters of Intent

DEADLINE EXTENDED for abstracts and letters of intent for the 11th International Conference on Concrete Pavements (11th ICCP) to be held August 28-31, 2016 in San Antonio, Texas, USA.

New Deadline: Sunday, May 31, 2015

For the 11th ICCP Brochure, please go to: https://www.concretepavements.org/11thiccp/11THICCPbrochure.pdf.

To read this entire article on the ISCP website, please go to: https://www.concretepavements.org/2015/05/19/deadline-extended-to-may-31st-for-11th-iccp-abstracts-letters-of-intent/.



IMPORTANT 2015 DATES:

May 31 Abstracts and Letters of Intent Jun 15 Approval of abstracts Sep 30 Completed papers due for review Dec 15 Reviews completed and authors notified

INDUSTRY NEWS & RESOURCES

Construction Company the First Contractor To Go Stringless in Wisconsin, USA

ISCP member, Kevin McMullen, President-Wisconsin Concrete Pavement Association (WCPA-an affiliated chapter of ACPA), has reported on the first contractor in Wisconsin (WI), USA to go stringless. The concrete industry, WI Department of Transportation (WisDOT), and the cities across WI have been watching and wondering which construction company

would be the first to utilize 3D stringless or automated machine control in a slipform placement process ...

To read this entire article on the ISCP website, please go to: https://www.concretepavements.org/2015/05/15/construction-company-the-first-contractor-to-go-stringless-in-wisconsin-usa/.



3-D Technology Promises Many Benefits for Stringless Concrete Paving

Three dimensional (3-D) technology could eliminate the need for string lines on concrete paving projects, but Kent Godbersen, *Vice President of Worldwide Sales and Marketing—GOMACO*, explains that there is a significant learning curve to use 3-D technology. "[But,] more contractors are seeing the benefits of a string-free jobsite," says Godbersen.



ms send inputs to an interface box where yzed by onboard algorithms to control the paver. (ConstructionPros.com)

Wade Bowman, National Sales Manager, Concrete Slipform Products-ISCP Organizational Member-Wirtgen America, Inc., said, "It probably won't be much longer until we reach critical mass with stringless machine control and it will become more mainstream.

Joe Allega Jr., Anthony Allega Cement Contractors, Inc.-Ohio, USA, said, "It makes the trucking 100% easier not having to worry about the stringline. You have plenty of room. Now that we have gotten the hang of it, I feel that our ride quality has improved," he said. "There is much less room for error. You are not constantly checking pins. You don't have to worry about other things affecting the stringline tightness, somebody missing a number . . . it takes the human error out of it." ...

To read this entire article on the ISCP website, please go to: https://www.concretepavements.org/2015/05/20/3-d-technology -promises-many-benefits-for-stringless-concrete-paving/.

Self-healing of Concrete by Bacterial Mineral Precipitation



University of Technology

A team of microbiologists at the Delft University of Technology (TUDelft)-Netherlands, headed by Dr. Henk Jonkers, Civil Engineering and Geosciences, Materials Sciences and Sustainable Construction— TUDelft, Water Resources Section, is researching how the self-healing capacity of concrete structures can be improved by using calcite-precipitating bacteria and what conditions are necessary for these bacteria to thrive ...

Another article "The Living Concrete That Can Heal Itself" by Andrew Stewart- CNN, explains that Dr. Jonkers, began working on "healing concrete" in 2006 ...

ISCP reported on "self-healing concrete" in 2012 and 2013:

ISCP November 2012 Newsletter, page 2: "Concrete That Heals Itself to Undergo Testing" described how the team at TUDelft showed that it is possible to mix this special bacteria, which release crack-sealing chemicals, into concrete before it is poured ...

ISCP April 2013 Newsletter, page 1-2 "Self-Healing Concrete Extended Through Polymer Capsules" stated, by contrast, Dr. Chan-Moon Chung, Professor of Polymer Chemistry, Yonsei University, South Korea, uses a **chemical approach** to create self-healing concrete ...

To read this entire article on the ISCP website, as well as the 3 additional articles, please go to: https://www.concretepavements.org/2015/05/19/self-healing-concrete-bybacterial-mineral-precipitation/.

Clarifying Pavement Engineering for the Non-Engineers with LEGOs & Food

Because an engineering background is necessary to understand the differences between concrete and asphalt pavements in terms of moduli, or by layered elastic versus plate theory, a simpler method of explaining the differences is useful. Almost everyone in the world is familiar with LEGO's ... Robert Rodden, P.E., ISCP Executive Director, explains the differences ...

www.robertrodden.com

To read this entire article on the

ISCP website, and to view and download this 11-slide PowerPoint presentation please go to: https://www.concretepavements.org/2015/05/18/clarifying-pavement-engineering-for-the-non-engineerswith-legos-food/.

NFERENCES & WORKSHOPS

24 OPEN HOUSE to be Held May 21 in Dassel, Mn, USA - REGISTER HERE!

Technology Center

National Concrete Povement The Trunk Highway 24 (TH 24) Concrete Overlay Project Open House will be held: Thursday, May 21, 2015 10:00 to 13:45 (10:00 am to 1:45 pm) Dassel City Hall Community Room Dassel, Minnesota (Mn), USA.

Sponsored by the Transportation Engineering and Road Research Alliance (TERRA); Minnesota

To register and for more information, please download the PDF flyer at: http://www.concreteisbette r.com/wp-content/uploads/ 2015/04/TH-24-Open-Hous e-Flyer-Thursday-May-21-2 015.pdf.

Department of Transportation (MnDOT); The Federal Highway Administration (FHWA); CP Tech Center (CPTC); and Concrete Paving Association of Minnesota (CPAM), the Open House will highlight the 15-mile-long, 4-in-thick bonded concrete overlay (BCOA) project completed in 2014 on TH 24 near Litchfield, Minnesota, USA ...

There is **NO CHARGE** for the open house, although registration is required in order to have an accurate count for transportation and lunch ...

To read this entire article on the ISCP website, please go to: https://www.concretepavements.org/2015/04/30/th-24-open-house-to-be-held-may-21-in-dassel-mn-usa/.

PRIMARY GOALS...
SHARE LESSONS
LEARNED DURING
THE CONSTRUCTION
OF THE PROJECT &
VISIT THE PROJECT
TO REVIEW ITS
PERFORMANCE
AFTER ITS FIRST
WINTER OF SERVICE



ICH and TCPavements Co held a workshop "Taller Optipave Temuco" in the city of Temuco, Chile for the management an implementation of the Optipave software. To view photos from the workshop, please go to http://pavimentando.cl/index.ph p/nggallery/page/1?p=2653

ICH International Seminar on Construction & Rehabilitation of Concrete Pavement to be Held May 25



The Institute of Cement and Concrete of Chile (ICH) and ISCP will hold a one-day seminar:

Monday, May 25 Hotel Neruda Providencia, Santiago, Chile

The goal of the seminar is to provide a comprehensive look at the issues concerning construction practices for new and existing concrete pavements—with emphasis on the most critical issues The principle of the part of the principle of the part of the principle of the principle



rehabilitation ... The principal speaker will be Robert Rodden, ISCP Executive Director ...

To read this entire article, to REGISTER, for PHOTOS from the previous workshop held in Temuco, Chile, and for more information, please go to the ISCP website: https://www.concretepavements.org/2015/05/14/ich-international-seminar-on-construction-concrete-pavement-rehabilitation-to-be-held-may-25/.

INDUSTRY PUBLICATIONS

Concrete Pavement Mixture Design and Analysis (MDA): Evaluation of Foam Drainage Test to Measure Air Void Stability in Concrete

Technical Report

Sponsored through
Pedenal Highway Administration (DTFH61-06-H-00011 (Work Plan 2
Peoled Fund Study TFF-5200): Colorado, Iewa Unud Matel, Kamus,

IOWA STATE UNIVERSITY

To download the PDF of this publication, please go to: http://publications.jowa.gov/19401/1/In Irans Taylor Concrete Pavement Mixture Design Analysis MDA Evaluation Foam Drainage Test Measure_Air Void Stability Concrete_2015.pdf.

Concrete Pavement Mixture Design & Analysis (MDA): Evaluation of Foam Drainage Test to Measure Air Void Stability in Concrete

National Concrete Pavement Technology Center Iowa State University's National Concrete Pavement Technology Center (CPTech Center) has published the report, "Concrete Pavement MDA: Evaluation of Foam Drainage Test to Measure Air Void Stability in

Concrete". ISCP Board of Directors Member, Peter Taylor, Associate Director National Concrete Pavement Technology Center, Iowa State University, is the Principal Investigator and co-author. The report was sponsored by the Federal Highway Administration (FHWA) and nine U.S. Departments of Transportation (USDOTs) ...

THE AIM OF THE WORK REPORTED IN THIS DOCUMEN WAS TO CONTINUI TO EVALUATE THE TEST USING PASTE SYSTEMS IN USE TODAY.

The aim of the work reported in this document was to continue to evaluate the test using paste systems in use today ...

To read this entire article the ISCP website, and to download the publication PDF, please go to: https://www.concretepavements.org/2015/05/07/concrete-pavement-mixture-design-analysis-mda-evaluation-of-foam-drainage-test-to-measure-air-void-stability-in-concrete/.

CALL FOR ABSTRACTS/PAPERS DIGEST

MAY 31, 2015 Due date for abstracts and letters of intent for the 11th International Conference on Concrete Pavements (11th ICCP) to be held in San Antonio, Texas, USA, August 28-31, 2016. For the First Call for Papers brochure, please contact Leif Wathne, 11th ICCP Conference Chair: E-mail: |wathne@acpa.org. For the online version of the brochure, please go to: http://www.concretepavements.org/11thiccp/11THICCPbrochure.pdf.

CALENDAR

MAY 2015

5th International Symposium on Nanotechnology in Construction (NICOM5)

May 24-26, 2015, in Chicago, Illinois, USA, http://www.nicom5.org

International Seminar on Concrete Pavement Construction and Rehabilitation

May 25, 2015, at the Hotel Neruda in Proidencia Santiago, Chile, http://pavimentando.cl/?page_id=2598 ASCE & T&DI International Airfield and Pavements Conference

JUNE 2015

June 7-10, 2015 at the Hilton Miami Downtown, Miami, Florida, USA, http://www.pavementsconference.org/

James Lai Symposium on Pavement Mechanics and Materials 2015 ASCE Éngineering Mechanics Institute Conference (MS 61)

June 16-19, 2015 in Palo Alto, California, USA, http://www.emi2015.info/minisymposia/symposia
ASCE-Engineering Mechanics Institute (EMI) Conference, USA

June 16-19, 2015 at Stanford University, http://www.emi2015.info/minisymposia/symposia

ASCE-Design for Concrete Pavements, USA

June 25-26, 2015 at Sheraton Brookhollow Houston, Houston, Texas, USA,

http://mylearning.asce.org/diweb/catalog/item/id/333177/q/c=79&q=concrete&t=2116
TRB 11th International Conference on Low Volume Roads, USA

JULY 2015

July 12-15, 2015 at the Omni William Penn Hotel, Pittsburg, Pennsylvania, USA

http://www.trb.org/Conferences/2015/11LVR

14th AASHTO/TRB Conference on Transportation Infrastructure Maintenance and Operations

July 19-23, 2015 in Des Moines, Iowa, USA, For more information, contact James Bryant at ibryant@nas.edu.

ASCP 2015 Conference, Australia

July 20-21, 2015, at BreakFree Aanuka Beach Resort, in Coffs Harbour, NSW, Australia

http://www.concretepavements.com.au/NewsItem.aspx?NewsID=105 Concrete 2015

AUGUST 2015

August 30, 2015 - September, 2015, in Melbourne, Victoria, Australia

http://concrete2015.com.au/

ASCE-Design of Concrete Pavements, USA SEPTEMBER 2015

September 10-11 2015 at Hyatt Palace Baltimore Inner Harbor East, Baltimore, Maryland, USA

http://mylearning.asce.org/diweb/catalog/item/id/333180/q/c=79&q=concrete&t=2116

XX Simposio Colombiano sobre Ingenieria de Pavimentos, Colombia, South America September 23-25 2015 at Centro de Convenciones del Hotel Santamar in

Santa Marta, Magdelana, Colombia, South America http://www.simposiopavimentos.com.co/

11th International Symposium on Brittle Matrix Composites - BMC-11

September 28-30 2015 in Warsaw, Poland, http://bmc11.ippt.pan.pl/
10th Uruguayan Concrete Conference, Uruguay

OCTOBER 2015

October 14-16, 2015, at the Technological Laboratory of Uruguay (LATU), in Montevideo, Uruguay

http://ibracon.org.br/eventos/57CBC/ingles/default.asp.

USP & IBRACON 3rd International Conference on Best Practices for Concrete Pavements October 28-30, 2015 at the Centro de Convenções de Bonito,

in the state of Mato Grosso Du Sol in Bonito, Brazil

http://www.ibracon.org. br/eventos/57cbc/3rd Concrete_Pavement.pdf

57th Brazilian Concrete Congress Conference

October 27-30, 2015 at the Centro de Convenções de Bonito,

in the state of Mato Grosso Du Sol in Bonito, Brazil

http://ibracon.org.br/eventos/57CBC/ingles/
PIARC XXVth World Road Congress

NOVEMBER 2015

November 2-6, 2015 in Seoul, South Korea, http://piarcseoul2015.org/

For events in 2016 and beyond, please go to:

http://concretepavements.org/events/category/conferences/





The ISCP Newsletter is produced monthly by:

Editor-in-Chief & Art Director: Amy M. Dean newsletter@concretepavements.org

ISCP invites members and friends to submit articles and calendar items future issues to: newsletter@concretepavements.org. For the ISCP website, please go to https://www.concretepavements.org.

ISCP President: Neeraj Buch, Ph.D. president@concretepayments.org Vice-President: Jeff Roesler, Ph.D., P.E. vice-president@concretepavements.org Jake Hiller, Ph.D. Secretary/Treasurer: secretary-treasurer@concretepavements.org ISCP Executive Director: Robert Rodden, P.E. exec@concretepavements.org

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