



INTERNATIONAL SOCIETY FOR CONCRETE PAVEMENTS

ISCP e-NEWSLETTER
VOLUME 11 • NUMBER 7
JULY 2014

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ISCP NEWS

ISCP Directors Held Mid-Year Meeting in Illinois, USA

The ISCP Board of Directors held its annual mid-year meeting on June 26 and 27, 2014 at the American Concrete Pavement Association (ACPA) conference facilities in Rosemont, Illinois, USA.

In addition to regular business meeting details, the Board:

- Considered eight (8) honorary member nominations and expects to elect at least one (1) new Honorary member. Ballots were distributed to the board members in early July.
- Discussed the initiation of a student scholarship award program. A proposal for the student scholarship will be distributed to the board members to consider in the next few months.
- Discussed the ISCP Executive Director position.
- Held Extensive discussions about sponsoring regional and international workshops. Potential locations were discussed and the proposals for these workshops will be sent to the board members for review in the next few months.

Photos: The American Concrete Pavement Association. Mark Snyder, Lev Khazanovich, Jeff Roesler, Sherry Sullivan, Peter Taylor, Leif Wathne, Neeraj Buch



ORGANIZATIONAL MEMBERS & MAJOR EVENT SPONSORS:

- ACPA AMERICAN CONCRETE PAVEMENT ASSOCIATION
- Cement Association of Canada / Association Canadienne du Ciment
- CEMEX
- CIMA Partenaire de génie
- CRSI
- FEDERAL AVIATION ADMINISTRATION
- FUGRO
- GENIVAR
- Holcim
- ICH Instituto del Cemento y del Hormigón de Chile
- National Concrete Pavement Technology Center
- NPCA
- ONTARIO CANADA
- PCI Precast/Prestressed Concrete Institute
- Transports Québec
- UCPRC
- Wirtgen

CONFERENCES & WORKSHOPS

Standard Registration Ends July 31st; Late & On-Site Registration Begins August 1st for the 12th Symposium in Prague, Czech Republic

Standard registration ends July 31, 2014 for the 12th International Symposium on Concrete Roads to be held September 23-26, 2014 in Prague, Czech Republic. Late and on-site registration begins August 1, 2014. To read the ISCP article on the Symposium, please go to page 4 of the ISCP April 2013 Newsletter: <http://www.concretepavements.org/Membership/Newsletter/ISCPAPRIL13Newsletter.pdf>.

Innovative Solutions - Benefiting Society

12TH INTERNATIONAL SYMPOSIUM ON CONCRETE ROADS 2014

September 23-26, 2014 | Prague, Czech Republic
www.concreteroads2014.org

To register online, please go to: www.concreteroads2014.org/en/registration. To download a conference flyer, please go to: <http://www.eupave.eu/documents/graphics/12thinternationalsymposium2014-prague/flyer-symposium-final.pdf>.



For questions, please contact: Symposium Secretariat: E-mail: isrc2014@guarant.cz.

4th IRF Latin America Regional Conference to be Held September 8-10, 2014 in Lima, Peru

The International Road Federation (IRF) will sponsor the 4th IRF Latin America Regional Congress to be held September 8-10, 2014 in Lima, Peru.

This Congress will address the specific needs of the region by bringing together industry leaders; experts and decision makers; and the region's stakeholders from government, academia, multilateral banks, civil society and the private sector to help countries progress toward safer, cleaner, more resilient and better-connected transportation systems. All will convene to identify new and innovative resources to bridge the current financing gap, while also sharing case studies, best practices, and new technologies that can all contribute to making Latin America a shining example to the transport sector.

This will be a unique forum for sharing the latest industry technologies, solutions and best practices from all over the world; and address current regional infrastructure





challenges, focusing primarily on building and maintaining safer, sustainable, and resilient road networks. Local and international experts will share and discuss best practices and lessons learned in the fields of road safety, infrastructure asset management, private public partnerships, construction materials, and Intelligent Transportation Systems (ITS).

The event will be complemented by an exhibition showcasing the latest technologies and solutions available in the market and will finish with technical field visits.

For the program, please go to: <http://www.irfnews.org/wp-content/uploads/2014-LARC-PRELIM-WEB.pdf>.

For the 4th Congress Website, please go to:

<http://www.irfnews.org/event/4th-latin-american-regional-congress/>.

For the IRF Latin America Regional Congress, please go to: <http://www.irfnews.org>.

2014 International Conference on Transportation to be Held in Accra, Ghana, Africa, December 17-19, 2014



The 2014 International Conference on Transportation in Africa (ICTA 2014) will be held December 17-19, 2014 at the Ramada Resort-Accra, in the capital city Accra, Ghana, Africa. The conference will address critical challenges facing transportation in Africa. The goal of the "African Transportation Professional Networking Group" is to organize annual transportation professional conferences, such as the ICTA 2014, from country to country within Africa, to provide a platform for international experts and scholars to exchange ideas with each other, and to also share the development and products in the field.

The conference theme is *Improving Transport Systems and Sectors through Innovative Approaches*. The conference will focus on how to optimally engage all stakeholders involved in the transport sector to provide effective and efficient transportation systems, and to improve service delivery in order to better respond as a sector to the needs of all users of our transport systems. This conference will be beneficial to all those who are connected with transport. It will be of particular interest to funding agencies, national government authorities, parastatal organizations, policy- and decision-makers, academics, researchers, students and professionals who are active in the planning, construction, maintenance, logistics, operation and safety of road pavements, passenger and freight transport, rail, maritime, and aviation. A special session will be arranged to discuss and debate critical policy issues related to the theme of the conference.

- Conference Topics:**
- Advanced Techniques for Pavement Construction, Maintenance and Rehabilitation
 - Appropriate Transport Sector Facilities Management Systems
 - Application of Remote Sensing and Spatial Information System
 - Innovative Approaches on Pavement Design, Analysis and Evaluation
 - Traffic safety issues on Road, Rail, Maritime and Aviation
 - Case Studies and Cross Cutting Issues on Transport Infrastructure

Exhibitor and Sponsorship Information: For information on our sponsorship and exhibition opportunities, please send an e-mail to: icta2014exhibition@gmail.com.

For more information, please go to the conference website: www.transportafrica.org. For questions, please send an e-mail to: icta2014ghana@gmail.com.

3-Day Workshop To Cover Best Practices in Airfield Concrete Pavements



The American Concrete Pavement Association (ACPA) will present a comprehensive, three-day workshop covering best practices in airfield pavement design and construction. Sponsored by ACPA and the Federal Aviation Administration (FAA), the course will be held October 14-16, 2014 at ACPA's headquarters in Rosemont, Illinois, USA.



The workshop is designed as a pilot program for proposed accreditation training that ACPA is co-developing with the U.S. Army Corps of Engineers (USACE) for the Tri-Services (includes USACE, U.S. Naval Facilities Engineering Command and U.S. Air Force Civil Engineer Center). The curriculum is well-suited for contractors; airport owners and owners' representatives; consultants/engineers; inspectors; military engineers; FAA personnel, and others with an interest in designing, constructing, and maintaining quality concrete pavements for commercial airports and military airfield applications.

Program Overview:

Workshop instructors will include leading airport pavement experts from ACPA, the FAA, and industry. In addition to providing comprehensive information about airport pavement design & construction, it will also cover various specifications (i.e., P-501, Unified Facilities Guide Specifications, etc.); advisory circulars; engineering briefs; and other resources. Just a few of the topic areas include:

- foundation support
- jointing
- concrete mixtures
- stockpiling
- concrete plant management
- acceptance criteria
- smoothness
- and more

Professional Development Hours:

Participants will have the opportunity to earn up to 20 professional development hours (PDH's) for the successful completion of the course. ACPA encourages participants to confirm the acceptance of ACPA-issued



Important 2014 Conference Dates:

September 15:
Full Paper with abstract submission due:

November 30:
Acceptance notification

December 17-19:
ICTA 2014 Conference

Paper Publication:
Authors of accepted abstracts should forward full papers with abstract, workshop proposals, and a short biography by **September 15, 2014** by e-mail to: "Conference Paper Submission":
E-mail: icta2014articles@gmail.com



PDH's with licensing organizations in their state/province.

Registration Information:

Registration for this three-day cost is:

\$750 ACPA members | \$900 non-members | \$500 government employees.

For online event registration, to view a digital flyer and for more information, please go to:
<http://www.acpa.org/airportpavementworkshop/>.

INDUSTRY PUBLICATIONS, NEWS & RESOURCES

Recycled Concrete Aggregate (RCA) for Infrastructure Elements

The Missouri, USA Department of Transportation (MoDOT) has released a report that examines the implications of using recycled concrete aggregate (RCA) in the production of new concrete in order to develop guidelines for use in infrastructure elements.

With a growing demand for new construction and the need to replace infrastructure stretched beyond its service life, society faces the problem of an ever-growing production of construction and demolition waste. The Federal Highway Administration (FHWA) estimates that two billion tons of new aggregate are produced each year in the United States. This demand is anticipated to increase to two and a half billion tons each year by 2020. With such a high demand for new aggregates, the concern arises of the depletion of current sources of natural aggregates and the availability of new sources. Similarly, construction waste produced in the United States is expected to increase. From building demolition alone, the annual production of construction waste is estimated to be 123 million tons (FHWA). Currently, this waste is most commonly disposed of in landfills.

To address both the concern of increasing demand for new aggregates and increasing production of waste, many states have begun to recognize that a more sustainable solution exists in recycling waste concrete for use as aggregate in new concrete, or recycled concrete aggregate (RCA). This solution helps address the question of how to sustain modern construction demands for aggregates as well as helps to reduce the amount of waste that enters already over-burdened landfills. Many states have begun to implement RCA in some ways in new construction. For instance, forty-one (41) states have recognized the many uses of RCA as a raw material, such as for rip-rap, soil stabilization, pipe bedding, and even landscape materials. Thirty-eight (38) states have gone a step further in integrating RCA into roadway systems for use as aggregate course base material. However, only eleven (11) states have begun using RCA in Portland cement concrete for pavement construction. Furthermore, at the start of this research project, there were no acceptable standards or guidelines in the U.S. for utilizing RCA in structural concrete.

The objective of this research was to determine the implications of using RCA in the production of new concrete. Specifically, the study evaluated the fresh and hardened properties, durability, and structural behavior of concrete containing RCA and, based on these results, developed guidelines on its use in infrastructure elements for MoDOT.

To download a PDF of the entire report, please go to:

<http://library.modot.mo.gov/RDT/reports/TRyy1317/cmr14-014.pdf>.

For more information, please go to: <http://www.trb.org/main/blurbs/170945.aspx>.

Updated Guide to Concrete Overlays Now Available

The third (3rd) edition of the popular "Guide to Concrete Overlays" is now available from ACPA. This comprehensive guide provides a practical approach to understanding and successfully using concrete overlays, from selection of overlay type through the final opening to traffic.

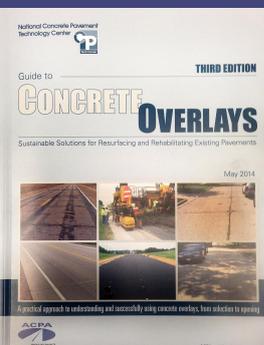
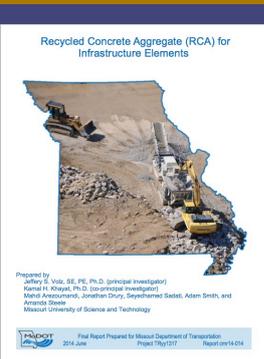
Co-authored by Dale Harrington and Gary Fick for the National Concrete Pavement Technology Center (CPTech), this updated publication is a collaboration of the CP Tech Center, ACPA, other industry representatives, and academia. The 150-page guide features chapters detailing:

- Pavement evaluation & selection solutions
- Concrete overlay design
- Overlay strategies in work zones
- An overview of concrete overlay options
- Concrete materials and mixtures
- Construction

Changes to the 3rd edition include new topics and more details on concrete overlay design, making this a document representative of the current state of the technology. Updates include more details about software programs and web apps, including ACPA's bonded concrete overlays of asphalt (BCOA) procedure; the University of Pittsburgh's BCOA-ME method; the 1993 AASHTO Guide method; AASHTO Pavement ME Design Guide method; ACPA's StreetPave method; and the OptiPave2^(TM) design program for concrete slabs with optimized geometry.

The new guide also includes additional details about existing pavement evaluation; fiber reinforcing and reinforcement materials; fabric interlayers; roadway surface 3-D laser scanning (including mobile scanning and mobile mapping operations); and stringless paving. The guide also features more illustrations and other updates, making this a valuable resource for owners, contractors, engineers, and others with an interest in concrete overlays.

The price of the publication is \$5 for ACPA members and \$20 for non-members. To order a copy of the publication, visit the ACPA bookstore at www.acpa.org/bookstore. Search by title or publication number (TB021.03P).



ACPA Strategic Advisory Committee Explores Short Slab Pavements



At a recent meeting of the American Concrete Pavement Association's (ACPA) Strategic Advisory Committee, the association took another step in a careful evaluation of short-slab concrete pavement design technology. The Strategic Advisory Committee reviewed a proposal outlining how the Association might engage in further education of the pavement community on this new technology.

Short-slab pavement design has been shown to address several challenges with pavement performance, including curling and warping, as well as cost-competitiveness. The engineering behind short-slab designs could represent a major engineering evolution for the industry. Independent pavement design and research experts have validated the technical approach, but some questions remain surrounding proprietary aspects of the designs.

The Strategic Advisory Committee recommended the adoption of the concept of joint spacing to the ACPA Board of Directors as a thickness design variable in June 2013. The concept is for joint spacing as a thickness design input, versus leaving joint spacing as a selected feature after thickness is determined. Also, at question is whether ACPA can aid in overcoming the traditional thinking that sometimes limits technology transfer and implementation among public and private sector agency/owners. No decisions were made at the mid-July meeting, and so, the Strategic Advisory Committee will continue to evaluate how ACPA can include short-slab-design technology in their technical and promotional programs.

WEBINARS

Introduction to Concrete Pavement Analyst (CPA) Software

Wednesday, August 6, 2014
(1 hour)

10:30 am - 11:30 am (EST) | 9:30 am - 10:30 am (CST) | 7:30 am - 8:30 am (PST)

Concrete Pavement Analyst (CPA) software is a flexible, market-specific and comprehensive sales and promotion tool. Using ACI and the Asphalt Institute recommendations, CPA compares total ownership costs, giving specifiers and owners the information they need to make sound parking lot pavement decisions. The Webinar explains how the software works along with strategies for making effective use of this outstanding tool.

Webinar Moderator: Phil Kresge, *Senior Director-National Resources*

- Webinar Outline:**
- In-depth explanation of the differences between concrete and asphalt parking areas, including design, construction and maintenance requirements
 - Step-by-step instruction of how to use CPA to produce detailed life-cycle cost comparisons of concrete and equivalent asphalt pavement designs
 - Strategies for utilizing CPA software to gain access to specifiers and secure concrete parking lot projects
 - Local customizing tips for the software

Pricing: \$35 Members | \$70 Non-members

To register, please go to: http://nrmca.org/Education/Online_Learning/Webinars/Promo_CPA.htm.

Concrete Maturity Protocol-Development & Application

Wednesday, August 13, 2014
(1.5 hours)

2:00 pm - 3:30 pm (EST) | 1:00 pm - 2:30 pm (CST) | 11:00 am - 12:30 pm (PST)

TRB will conduct a webinar that will explore two states' experiences with concrete maturity methods. Webinar presenters will discuss how Iowa Department of Transportation (IOWADOT) has implemented maturity methods in the field and how Minnesota Department of Transportation (MNDOT) has conducted field and laboratory projects to evaluate the applicability of the concrete maturity method for mixes. A certificate for 1.5 Professional Development Hours (PDHs) will be provided to attendees who attend the webinar as an individual. This webinar is also pending approval by the American Institute of Certified Planners for 1.5 Certification Maintenance credits. The first 60 minutes of the webinar will be for presentations and the final 30 minutes will be reserved for audience questions.

Webinar Moderator: Maureen Jensen, P.E., *Research Manager-MNDOT*
"Introduction and Webinar Overview"

Speaker: Todd Hansen, P.E., *Concrete Engineer-IOWADOT*
"Experience of Iowa Dept. of Transportation in using Concrete Maturity"

Speaker: W. James Wilde, PhD, P.E., *Professor and Director-Minnesota State University, Mankato*
"Research Results & Demonstration of the Concrete Maturity Protocol"

- Webinar Outline:**
- PART 1: Experience of a department of transportation implementing a concrete maturity program
 - PART 2: Results and demonstration of the concrete maturity protocol
 - PART 3: Question and answer session

- Learning Objectives:** At the end of this webinar, participants will be able to:
- Describe the fundamental principles behind concrete maturity
 - Discuss the simple technologies associated with concrete maturity
 - Describe the installation and monitoring process involved
 - Summarize the maturity curve-development process
 - Employ this technology in various concrete infrastructures; and
 - Identify the available reports, publications, and resources for this technology



Registration Information:

Participants must register in advance of the webinar.

There is no fee for employees of TRB Sponsors or TRB Sustaining Affiliates who register using their work email address.

To register and for more registration fee information, please go to:

TRB Website for Info & Registration:

<http://www.trb.org/Calendar/Blurbs/170889.aspx>.

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Roller Compacted Concrete: Another Choice for Pavement

TUESDAY, AUGUST 19, 2014

(1 hour)

2:00 pm - 3:00 pm (EST) | 1:00 pm - 2:00 pm (CST) | 11:00 am - 12:00 pm (PST)

This Webinar will introduce specifiers to Roller Compacted Concrete (RCC). Having characteristics of both asphalt and concrete pavements, RCC is best described as a third pavement choice. Attendees will learn the basics of RCC design and construction. Additionally, they will better understand the benefits of RCC in terms of both construction and performance. Frequently asked questions regarding reinforcement, maintenance and freeze-thaw durability will also be addressed.

Webinar Presenter: Phil Kresge, *Senior Director, National Resources*

To register for this webinar, please go to:

http://www.nrmca.org/Education/Online_Learning/Webinars/rcc_webinar.htm.

For questions, please contact NRMCA: Phone: 240-485-1152 | E-mail: meetings@nrmca.org

Ternary Mixtures: Past, Present & Future

Tuesday, August 26, 2014

(1.5 hours)

12:00 Noon - 1:30 pm (EST) | 11:00 am - 12:30 pm (CST) | 9:00 am - 10:30 am (PST)

TRB will conduct a webinar that will cover ternary mixtures, including a broad overview of past and current research results. Webinar presenters will explain ternary specification and discuss current implementation efforts of ternary mixtures. Participants must register in advance of the webinar, and there is a fee for non-TRB Sponsor or non-TRB Sustaining Affiliate employees. A certificate for 1.5 Professional Development Hours (PDHs) will be provided to attendees who register and attend the webinar as an individual.

Webinar Moderator: Heather McLeod, *Kansas Department of Transportation*

Webinar Presenter: Paul Tikalsky, *Oklahoma State University*

Cecil Jones, *Diversified Engineering Services, Inc.*

Tyson Rupnow, *Louisiana Transportation Research Center*

Webinar Outline:

- PART 1: Research work conducted for ternary mixtures
- PART 2: Ongoing work by the Federal Highway Administration and the American Concrete Institute (ACI) on implementing the use of ternary mixtures
- PART 3: Ternary specification in Louisiana
- PART 4: Question and answer session

The first 60 minutes of the webinar will be for presentations and the final 30 minutes will be reserved for audience questions.

Learning Objectives: At the end of this webinar, participants will be able to:

- Identify what a ternary mixture is
- Specify the use of ternary mixtures
- Identify ideal concrete placements that suit themselves to ternary mixtures

To register and for more information, please go to:

<http://www.trb.org/ElectronicSessions/Blurbs/170923.aspx>.

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CALL FOR ABSTRACTS

Call for Abstracts for Australia Concrete 2015 in Conjunction with RILEM

Concrete 2015 invites the submission of abstracts for original work. Abstracts will be considered for oral or poster presentations at the Concrete 2015 historic joint event to be held August 30 - September 2, 2015

in Melbourne, Australia. Concrete 2015 will be the 27th Biennial National Conference of the Concrete Institute of Australia, in conjunction with the 69th RILEM Week conference. (RILEM - The International Union of Laboratories and Experts in Construction Materials, Systems and Structures - from the name in French). It will provide national delegates with valuable exposure to cutting edge research and development exchanges in the international forum of RILEM Week. The conference is dedicated to bringing together global leaders in the concrete industry, covering all aspects of concrete design improvements, research, construction, maintenance and repair of concrete projects.

Abstracts are invited on the general theme of *Research into Practice*. Authors are requested to submit an abstract online by **September 26, 2014**, selecting one of the following themes:

concrete
30 August - 2 September
Melbourne, Australia 2015

construction innovations:
RESEARCH INTO PRACTICE



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JULY 2014



Professor Jay Sanjayan
Swinburne University of
Technology
Conference Chair



Dr Kwesi Sagoe-Crentsil,
The Commonwealth Scientific
and Industrial Research
Organisation (CSIRO)
Technical Committee Chair

Concrete Materials and Performance
Major Projects/Case Studies
Geopolymers and Non-traditional Binder Concrete
Repair and Retrofitting
Admixtures and Polymers
Fire Resistance of Concrete
Fibers/FRP Research and Applications
Life Cycle Analysis (LCA) and Service Life
Failure Mode and Risk Analysis

Durability and Serviceability
Construction Methods
Sustainability
Structures Research and Applications
Early-age Concrete and Cracking
Anchors in Concrete
Structural Monitoring and Assessment
Durability of New Green Products
Self-compacting Concrete

To submit an abstract online, please go to:
<http://concrete2015.com.au/call-for-abstracts/>.
For details and the conference website,
please go to: <http://concrete2015.com.au>.



CALL FOR ABSTRACTS/PAPERS DIGEST

September 15, 2014 Due date for ABSTRACTS for the **2015 AASHTO/TRB Conference on Transportation Infrastructure Maintenance and Operations** to be held July 2015 in Des Moines, Iowa, USA. The 2015 conference will focus on Practical Innovations in Maintenance Operations and Management. Interested practitioners, administrators and researchers are invited to submit abstracts on the subject areas covered by the technical working groups (TWGs) to the Transportation Research Board at MMC@nas.edu. For an article on this Call for Abstracts, please see page 6 of the June Newsletter: <http://www.concretepavements.org/Membership/Newsletter/JUNE2014Newsletter.pdf>.

September 15, 2014 Due date for PAPERS for **2014 International Conference on Transportation in Africa (ICTA 2014)** to be held December 17-19, 2014 in the capital city Accra, Ghana, Africa. Authors of accepted abstracts should forward full papers with abstract, workshop proposals, and a short biography by e-mail to: "Conference Paper Submission": E-mail: icta2014articles@gmail.com. Please see conference article on page 2 above.

September 26, 2014 Due date for ABSTRACTS for the **27th Biennial National Conference of the Concrete Institute of Australia** in conjunction with the 69th RILEM Week conference to be held August 30 - September 2, 2015 in Melbourne, Australia. The conference theme is *Research into Practice*. To submit an abstract online, please go to: <http://concrete2015.com.au/call-for-abstracts/>. For details and the conference website, please go to: <http://concrete2015.com.au>. Please see the article for Call for Abstracts on page 5 above.

UPCOMING EVENTS

**AUGUST
2014**

2014 FAA Worldwide Airport Technology Transfer Conference
August 5-7, 2014 in Galloway (Oceanville), New Jersey, USA
<http://www.airporttech.tc.faa.gov/conference/2014TC/>

2014 World Congress on Advances in Civil, Environmental, and Materials Research (ACEM14)
August 24-28, 2014 in Busan, South Korea
<http://acem.cti3.com/acem14.htm>

ASCP Forum
August 25, 2014 in West Ryde, NSW, Australia
<http://www.concretepavements.com.au/Events/EventDetails.aspx?EventID=108>

8th International DUT-Workshop on Research and Innovations for Design of Sustainable and Durable Concrete Pavements
September 20-21, 2014 in Prague, Czech Republic
<http://www.citg.tudelft.nl/.../road%20and%20railway%20engineering>



12th International Symposium on Concrete Roads "Innovative Solutions – Benefiting Society"
Organized by EUPAVE
September 23-26, 2014 in Prague, Czech Republic
<http://www.concreteroads2014.org>

2014 International Conference on Construction Materials and Structures
November 24-26, 2014, in Johannesburg, South Africa
<http://www.iccmats-wits.co.za/Intro.html>

For events in 2015 and beyond, please go to: <http://www.concretepavements.org/calendar.htm>.



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<http://www.linkedin.com/home>

Questions?
Please contact moderator
Jeff Roesler
jroesler@illinois.edu

**SEPTEMBER
2014**

**NOVEMBER
2014**



The ISCP Newsletter is produced monthly by:
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ISCP would like to thank
Tara Cavalline, PhD, PE, Assistant Professor-UNC Charlotte-The William States Lee College of Engineering;
Bernard Izevbekhai, Research Operation Engineer-Minnesota DOT;
Bill Davenport, VP-Communications-ACPA
Leif Wathne, VP-Highways and Federal Affairs-ACPA;
Nancy Whiting, Research Scientist-Applied Research Initiative-Purdue University;
and **EUPAVE** for contributions to this issue.

ISCP invites members and friends to submit articles and calendar items future issues to:
newsletter@concretepavements.org.

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Please visit the **ISCP Website** at www.concretepavements.org for more information about ISCP.

Maps, globes: National Geographic Family Reference Atlas of the World ©2002 National Geographic Society, Washington, D.C. All additional sources noted on perspective pages.