

13TH INTERNATIONAL CONFERENCE ON CONCRETE PAVEMENTS

PROGRAM

MINNEAPOLIS, MINNESOTA, USA
AUGUST 25-29, 2024

CONCRETEPAVEMENTS.ORG



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Federal Highway Administration










EXHIBITORS



13TH INTERNATIONAL CONFERENCE ON CONCRETE PAVEMENTS
THE DEPOT -- AUGUST 25-29, 2024
MINNEAPOLIS, MINNESOTA, USA

PROGRAM AT A GLANCE

TIME	SUNDAY AUGUST 25	MONDAY AUGUST 26	TUESDAY AUGUST 27	WEDNESDAY AUGUST 28	THURSDAY AUGUST 29
7:00am		BREAKFAST - Depot Pavilion	BREAKFAST - Depot Pavilion	BREAKFAST - Depot Pavilion	
8:00am		PLENARY SESSION 		POSTER SESSIONS 1, 2	FIELD TRIPS/SITE VISITS  or Minneapolis Municipal Pavements 
9:00am			PARALLEL WORKSHOPS 1-5	POSTER SESSIONS 3, 4	
10:00am		PODIUM SESSIONS 1, 2, 3		PODIUM SESSIONS 9, 10 PODIUM SESSIONS 11, 12	
11:00am		LUNCH - Depot Pavilion	LUNCH - Depot Pavilion	LUNCH - Depot Pavilion	
12:00pm	REGISTRATION OPEN THROUGH WEDNESDAY	PODIUM SESSIONS 4, 5, 6	PARALLEL WORKSHOPS 6-10	PODIUM SESSIONS 13, 14 PODIUM SESSIONS 15, 16	
1:00pm		NCC MEETING			
2:00pm		STUDENT POSTERS			
3:00pm		PODIUM SESSIONS 7, 8			
4:00pm		EXHIBITOR SETUP			
5:00pm					
6:00pm	WELCOME RECEPTION  Mill City Museum		★ BBQ RECEPTION American Engineering Testing St. Paul 	★ AWARDS BANQUET AND RIVER CRUISE Stillwater Riverboats 	
7:00pm		MINNESOTA TWINS vs. ATLANTA BRAVES Legends Landing Target Field 			
8:00pm					
9:00pm					★ Transportation Provided

SUNDAY, AUGUST 25

11:30-16:00 REGISTRATION PAVILION FOYER

11:30-16:00 SPOUSE/GUEST HOSPITALITY ROOM
EMPIRE BUILDER

13:00-17:00 EXHIBITOR SET UP DEPOT PAVILION

13:00-16:00 SPEAKER READY ROOM ALEX. MITCHELL
For speakers in Plenary and Podium Sessions

18:00-20:00 WELCOME RECEPTION MILL CITY MUSEUM
(5-minute walk from THE DEPOT)



Sponsored by Otto Alte-Teigeler GmbH

MONDAY, AUGUST 26

7:00-8:00 BREAKFAST DEPOT PAVILION

7:00-16:00 SPEAKER READY ROOM ALEX. MITCHELL

8:00-9:45 PLENARY SESSION GREAT NORTHERN
Sponsored by the Wirtgen Group

Conference Welcome

[Tom Burnham](#), 13th ICCP Chair

Welcome to Minnesota!

[Jean Wallace](#)/ [Michael Beer](#), MnDOT

Remarks on ISCP

[Jake Hiller](#), ISCP President

Remarks from EUPAVE

[Luc Rens](#), EUPAVE

Remarks from ASCP

[Craig Heidrich](#), Australian Society for Concrete Pavements

Remarks from FHWA

[Gina Ahlstrom](#), Federal Highway Administration

Summary of 5th Advanced Workshop on Concrete Pavements

[Julie Vandenbossche](#)/ [Lev Khazanovich](#), Univ. of Pittsburgh

ISCP Honorary Member Inductions:

Dr. Anna-Carin Brink and Dr. Rolf Breitenbücher

[Jake Hiller](#), ISCP President

Keynote Lecture: Innovative Paths Toward Lower Carbon in Concrete Pavements

[Andrew Minson](#), Global Cement and Concrete Association

Closing, Orientation, and Housekeeping

[Tom Burnham](#), 13th ICCP Chair



WIRTGEN
GROUP

9:45-10:15 BREAK DEPOT PAVILION

10:00-17:00 SPOUSE/GUEST HOSPITALITY ROOM
EMPIRE BUILDER

10:15-12:00 SESSION 1: LOWER CARBON
GREAT NORTHERN

Lifecycle Assessment and Sensitivity Analysis of Roller Compacted Concrete, Plain Jointed Concrete, and Hot Mix Asphalt Pavements

[Haoran Li](#)

Barriers Limiting Innovation in Concrete Carbon Reduction

[Sarah Lopez](#)

Examining Effect of Carbon-Enriched Fly Ash on Microstructural Development of Portland-Limestone-Based Cement Mortars

[Erin Stewartson](#)

Sensitivity of Concrete's Embodied Carbon Emissions to Cement Direct Carbon Intensity and Material Transportation

[Michelle Cooper](#)

10:15-12:00 SESSION 2: TESTING AND INSTRUMENTATION 1
HIAWATHA

Quantifying Slab Movements in Concrete Pavements Through Magnetic Induction Sensors

[Michael Wallace](#)

Laboratory and Full-Scale Experiment of A Novel Hybrid System to Harvest Energy Through Concrete Pavement

Eric Genesseeux

Full-Scale Rigid Pavement Traffic Test at the FAA National Airport Pavement Test Facility – Construction Cycle 8

[Dan Offenbacker](#)

Embedded Resistivity Sensor for Concrete Materials and Structures: Vision and Prototype

[Nima Kargah-Ostadi](#)

10:15-12:00 SESSION 3: DESIGN SOUTHERN PACIFIC
Load Transfer and Joint Performance in Whitetopping Pavements: Concrete Overlay

[Dhritee Diksha Baroowa](#)

Theoretical Comparison of Post Tensioned Concrete And Jointed Plain Concrete for Rigid Airport Pavements

[Greg White](#)

Employing Field Energy Attenuation in Portland Cement Concrete Pavements as a Design Parameter

[Carl A. Lenngren](#)

Artificial Neural Networks for Mechanistic-Empirical Concrete Pavement Design: An Efficient Development Approach

[Haoran Li](#)

12:00-13:00 LUNCH DEPOT PAVILION

13:00-14:45 SESSION 4: PERFORMANCE MODELING 1
GREAT NORTHERN

Long-Term Performance of CRCP Over OGDL in Illinois

[Shafkat Alam-Khan](#)

Small-Scale Accelerated Load Test for Doweled Jointed Plain Concrete Pavement

[Charles Donnelly](#)

Dynamic Back-Calculation for Evaluating Structural Degradation of Transverse Joint in Concrete Pavement

[Tatsuo Nishizawa](#)

The Development of Reconfigured Bond Slip Model Coefficients for CRC Pavement Based on Pull-Out Testing

[Myungjin Seong](#)

13:00-14:45 SESSION 5: SURFACE CHARACTERISTICS
HIAWATHA

A Practical Approach to Predict the "In-Situ" Noise Absorption of Porous Pavement Materials

TBD

Sustainable Concrete Highway Pavement Thickness Design: The Role of Diamond Grinding

[James Walker](#)

High Performance Surface Textures for Concrete Pavements Designed According to Requirements

[Tim Alte-Teigeler](#)

New Belgian Guidelines for Pattern Imprinted Concrete Pavements

[Luc Rens](#)

13:00-14:45 SESSION 6: SUSTAINABILITY AND
CLIMATE CHANGE SOUTHERN PACIFIC

Sustainability of Ultra-Thin Concrete Pavements in Low Volume Roads

[Juan Pablo Covarrubias](#)

Development of a Permeable Removable Urban Pavement for a Higher Sustainability

[Thierry Sedran](#)

Concrete Repairs on National Road N1-19&20 Klein Rietspruit to Old Potch, South Africa

[Anna-Carin Brink](#)

An Overview of the Potential of Concrete Pavements in Turkey to Combat Climate Change

[İsmail Özgür Yaman](#)

14:45-15:15 BREAK DEPOT PAVILION

14:45-15:15 STUDENT POSTER SETUP CONSERVATORY

15:15-17:00 SESSION 7: SUSTAINABILITY
GREAT NORTHERN

Opportunities for Further Sustainable Practices in Concrete Pavement Design in Australia

[George Vorobieff](#)

Buried Treasure: Uncovering Concrete Pavement for Extended Performance and Enhanced Sustainability

[Prashant Ram](#)

Life Cycle Assessment of Concrete Overlay Strategies

[Dan King](#)

Pervious (Lean) Concrete for Sustainable Road Pavements: Results of the Belgian Be-Drain Project

[Audrey Van der Wielen](#)

15:15-17:00 SESSION 8: TESTING AND
INSTRUMENTATION 2 HIAWATHA

Effect of Freeze Thaw And Substrate Moisture Condition on the Concrete Repair-Substrate Interface

[Md Hasibul Hasan Rahat](#)

Automated 3D Quantification of Concrete Pavement Joint Damage

[Quang Tran](#)

In-Situ Performance Evaluation of Glass Fiber Reinforced Polymer (GFRP) Dowel Bars

[Mehdi Parvini](#)

Field Moisture Monitoring of Foundation Layers of Innovative Rigid Pavement Systems

[Ceren Aydin](#)

15:15-17:00 STUDENT POSTER SESSION

CONSERVATORY



Cement
Association
of Canada

Sponsored by the Cement Association of Canada



The prestigious **B.F. McCullough Award** will be awarded to the best student poster and is named after Professor B. Frank McCullough, *University of Texas-Austin*. Dr. McCullough was a concrete pavement engineering pioneer in the U.S. and was named an Honorary Member of ISCP in the Charter Class of 2001. During his time at the University, Professor McCullough was responsible for the conduct of more than 100 research projects, teaching, and advising more than 100 graduate students for nearly 50 years.

1 - Parameters for Thin FRC Concrete Pavements

[Etienne Beya Nkongolo](#) - University of Missouri-Kansas City

2 - Performance Engineered Mixtures for Concrete Airfield Pavements

[Isaac Oyawoye](#) - UNC Charlotte

3 - Feasibility of Manufactured Sand in Engineered Cementitious Composites for Rigid Pavement

[Chintada Chandrasekhar](#) - IIT Roorkee

4 - Assessment of thermochromic and reflective UHI mitigation strategies for concrete pavements

[Richa Bhardwaj](#) - University of Illinois at Urbana Champaign

5 - Joint Design Optimization

[Megan Darnell](#) - University of Pittsburgh

6 - Assessing Slab-Base Bond with MIRA (Ultrasonic phase array)

[Jesus Castro Perez](#) - University of Illinois at Urbana Champaign

7 - Field Evaluation of Nontraditional and Natural Pozzolans (NPs) in Concrete for Pavement Applications

[Alberto Castillo](#) - Purdue University

8 - Improving Pavement Sustainability and Resilience: A Pavement Life Cycle Cost Analysis Case Study

[Matthew Sheffield](#) - UNC Charlotte

9 - Evaluation of Steel Depths on the Performance of Continuously Reinforced Concrete Pavement

[Hee Jun Lee](#) - Texas Tech University

10 - Evaluating Expertise of Concrete Pavement Construction in Modern Large Language Models

[Mason Smetana](#) - University of Pittsburgh

11 - Relationship Between Transverse Joint Faulting and Joint Performance Parameters for Thin FRC Concrete Pavements

[Rohith Sabu](#) - University of Minnesota - Duluth

12 - Enhancing Safety in Construction Work Zones Through Concrete Pavement-Embedded Passive Sensing Technologies

[Apidej Sakulneva](#) - University of Illinois at Urbana Champaign

13 - ChatGPT Biases Toward Asphalt Pavements

[Igor Sukharev](#) - University of Pittsburgh

14 - Utilizing Non-Standard Aggregates in Concrete Pavement

[Makorogo Barugahare](#) - University of Alabama

15 - Early Performance Evaluation of CRCP Bonded Overlay on JCPs

[Niwesh Koirala](#) - Texas Tech University

16 - Synergistic Effects of Freeze/Thaw Cycles and Seawater on Chloride Ingress in Concrete

[Md Hasibul Hasan Rahat](#) - Virginia Tech

17 - Mechanistic-Based RCC Pavement Mix Design Framework

[Jordan Ouellet](#) - University of Illinois at Urbana Champaign

18:40-21:00



MINNESOTA TWINS VS. ATLANTA BRAVES
BASEBALL GAME

TARGET FIELD

15-20 min walk from DEPOT (Ticket holders only)

Sponsored by 13th ICCP Exhibitors

TUESDAY, AUGUST 27

7:00-8:00

BREAKFAST

DEPOT PAVILION

8:00-12:00

WORKSHOP 1: RAPID STRENGTH CONCRETE
FOR HIGHWAYS AND AIRPORT PAVEMENTS

Sponsored by CTS Cement

CTS

GREAT NORTHERN

8:00 Welcome and Overview

[Julio Paniagua](#) (CTS Cement Manufacturing Corporation)

8:15 Introduction to Materials Used for RSC Pavement

[Eric Bescher](#) (University of California Los Angeles – UCLA)

8:45 Design, Construction Practices and Specifications

[Matt Ross](#) (CTS Cement Manufacturing Corporation)

9:15 DOT Applications

[Dulce Rufino Feldman](#) (California Department of Transportation – Caltrans)

9:45 Break (30 min)

10:15 Research Case Study, Heavy Vehicle Simulator Testing of Thin Concrete Overlay on Asphalt Made with Belitic Calcium Sulfoaluminate Cement

[Angel Mateos](#) (University of California Berkeley)

10:45 Large-Scale Field Project using Ready Mix Concrete Production

[Julio Paniagua](#) (CTS Cement Manufacturing Corporation)

11:15 Airport Applications

[Christopher Senseney](#) (University of Colorado Boulder)

11:45 Round Table: Discussion on Challenges and Opportunities for RSC Technology

Moderator: [Eric Bescher](#), (UCLA)

8:00-12:00

WORKSHOP 2: ADVANCEMENTS IN OPTIMIZED
CONCRETE PAVEMENT DESIGN



Sponsored by FORTA

SOUTHERN PACIFIC

8:00 Welcome and Overview

Moderator: [Sherry Sullivan](#) (FORTA)

8:15 AM The Evolution of Concrete Pavement Design

[Eric Ferrebee](#) (ACPA)

8:45 Pavement Designer, Web-based Pavement Design Software

[Eric Ferrebee](#) (ACPA)

9:00 Calibrating Pavement ME for High-Reliability Design Using Management Data

[Lev Khazanovich](#) (University of Pittsburgh)

9:30 PittRIGID, Web-based ME Design of Concrete Pavements

[Lev Khazanovich](#) (University of Pittsburgh)

9:45 Break (30 min)

10:15 Overview of Short-Slab Concrete Pavements

[Juan Pablo Covarrubias](#) (TCPavements)

10:45 OptiPave, ME Design for Short-Slab Concrete Pavements

[Juan Pablo Covarrubias](#) (TCPavements)

11:00 Accelerated Performance Testing of Short-Slab Concrete Pavement Systems

[Jeff Roesler](#) (University of Illinois)

11:30 Panel Discussion - Future of Concrete Pavement Design

All Speakers

8:00-12:00 WORKSHOP 3: SUSTAINABILITY AND PERFORMANCE CAN COEXIST: LOW EMBODIED CARBON CONCRETE PAVEMENTS LEADING THE WAY



Sponsored by Federal Highway Administration
ZEPHYR

What does it take to design and place concrete paving mixtures that will help agencies meet their goals for carbon footprint reduction? What are the shared performance benefits? Techniques and strategies are mature and can be picked up now. The fundamentals of the new *Guide for Reducing Cradle-to-Gate Embodied Carbon Emissions Paving Concrete* will be illustrated for practitioners seeking to build their workforce and collaborate with contractors. This workshop will bring industry and agency partners who have begun to practice these principles to share their approaches taken and experience gained. Future directions will be explored for continued development.

8:00 Overview of *Guide for Reducing Cradle-to-Gate Embodied Carbon Emissions Paving Concrete* and applications to concrete specification and mixture design development

9:45 Break (15 min)

10:00 A Partnership Approach: A panel discussion from practitioners

11:00 Working Session

12:00 Adjourn

Facilitators (FHWA)

[Nelson Gibson](#), Mike Praul, [Robert Spragg](#), and [Michelle Cooper](#)



8:00-12:00

**WORKSHOP 4: IMPACT OF NRRA ON
ADVANCING CONCRETE PAVEMENT
TECHNOLOGY**



Sponsored by National Road Research Alliance
HIAWATHA

8:00 Development of NRRA

[Ben Worel](#) (MnDOT)

8:15 History of NRRA Rigid Team Research Projects

[Tom Burnham](#) (MnDOT)

8:45 MnROAD facility operations and role in NRRA projects

[Ben Worel](#) (MnDOT)

**9:00 Highlights from Low Cementitious Content Concrete
Pavement Research Projects**

[Bernard Izevbekhai](#) (MnDOT)

9:30 Fiber-Reinforced Concrete Pavement Research

[Manik Barman](#) (University of Minnesota Duluth – UMD)

10:15 Break (30 min)

10:45 Findings from 2022 MnROAD Alternative Cement Cells

[Prashant Ram](#) (Applied Pavement Technology – APTech)

**11:10 Highlights from Early Opening of Concrete Pavement to
Traffic Research Project**

[Maria Masten](#) (MnDOT)

**11:30 Panel Discussion of Industry Implementation Plans for Low
Carbon Concrete**

Moderator: [Glenn Engstrom](#) (Aggregate and Ready Mix
Association of Minnesota)

8:00-12:00

**WORKSHOP 5: ROLLER-COMPACTED
CONCRETE PAVEMENTS**



Sponsored by RCC Pavement Council

ROCK ISLAND

8:00 AM Welcome and Overview

[Corey Zollinger](#) (CEMEX)

8:10 AM Overview of RCC Growth in USA / World

[Corey Zollinger](#) (CEMEX)

**8:25AM Researcher Panel Discussion: Overview of RCC research
supported by RCC Pavement Council**

8:25 AM Managing Volumetric change of RCC

[Dan Zollinger](#) (Texas A&M University)

8:45 AM Container Pavement Design

[Halil Ceylan](#) (Iowa State University)

9:05 AM RCC Research Conducted at University of Illinois

[Jeff Roesler](#) (University of Illinois)

9:25 AM Researchers Panel Discussion

Moderator: [Fares Abdo](#)

9:45 AM Break (30 min)

10:15 AM Publicly funded / DOT Applications of RCC

[Chris Carwie](#) (AG Peltz)

10:35 AM Local road applications of RCC

[Matt Munsick](#) (Andale)

10:55 AM Overcoming QA/QC challenges at RCC paving projects

[Fares Abdo](#) (Morgan Corp)

11:25 AM Industry Panel Discussion

Moderator: [Corey Zollinger](#) (CEMEX)

11:45 AM Wrap Up and General Discussion

9:45-10:15	BREAK	DEPOT PAVILION
10:00-17:00	SPOUSE/GUEST HOSPITALITY ROOM	EMPIRE BUILDER
12:00-13:00	LUNCH	DEPOT PAVILION
13:00-17:00	WORKSHOP 6: AIRPORT PAVEMENT – ACPTP RESEARCH PROGRAM	
	Sponsored by Airport Concrete Pavement Technology Program	GREAT NORTHERN



13:00 Introduction

Moderator: [Peter Taylor](#) (CP Tech Center)

13:10 Mitigating Potential Alkali-Silica Reaction Expansion in Airfield Concrete Pavements

[Jason Ideker](#) (Oregon State University)

13:30 Performance Engineered Mixtures for Airfield Pavements

[Tyler Ley](#) (Oklahoma State University)

13:50 Best Practices for Rapid Repair, Rehabilitation, and Reconstruction of Concrete Airport Pavements

[Scott Murrell](#) (Applied Research Associates)

14:10 Quality Control and Quality Acceptance of Airport Pavement

[Tara Cavalline](#) (University of North Carolina – Charlotte)

14:30 Break (30 min)

15:00 Best Practices for Runway Rubber Removal

Aaron Pullen (Applied Research Associates)

15:20 Effects of Diamond Grinding on Airfield Pavements

[Jeff Stempihar](#) (Nichols Consulting Engineering)

15:40 Design and Performance of Thin Concrete Airfield Pavement

[Scott Murrell](#) (Applied Research Associates)

16:00 Concrete Airfield Paving Continuity – Best Practices Guide

[Matt Fonte](#) (Fonte & Company)

16:20 Future of the ACPTP Program

FAA Representative

16:30 Discussion

All Speakers

13:00-17:00 WORKSHOP 7: FIBER-REINFORCED CONCRETE



MATERIALS FOR PAVEMENTS

Sponsored by Fiber Reinforced Concrete Association

SOUTHERN PACIFIC

13:00 Welcome / Introduction to FRCA

13:15 Concrete Fiber Overview

14:00 Fiber Test Methods & Performance-Based Specifications

14:30 Break (30 min)

15:00 Case Studies & Other DOT Applications of FRC (Session 1)

15:30 Case Studies & Other DOT Applications of FRC (Session 2)

16:00 Troubleshooting FRC

16:30 Open Panel Discussion with Speakers

16:50 Wrap and Adjourn

13:00-17:00 WORKSHOP 8: CONCRETE PAVEMENT PRESERVATION – SUSTAINABLE SOLUTIONS FOR TOMORROW, TODAY



Sponsored by American Concrete Pavement Association and International Grooving and Grinding Association

ZEPHYR



Welcome and Introductions

Moderator: [John Roberts](#) (IGGA)

Overview of Pavement Evaluation

[Kurt Smith](#) (APTech)

Experience with Knowledge book and Lessons Learned

[Gordon Bruhn](#) (MnDOT)

Pavement Preservation Toolkit

[John Roberts](#) (IGGA)

Concrete Surface Characteristics

[John Roberts](#) (IGGA)

BREAK (30 min)

Sustainability Impacts of Proper Pavement Preservation

[Nick Davis](#) (IGGA)


Concrete Overlays and Overlay Preservation

[Jerry Voigt](#) (Square One Consulting)

Utilizing Concrete Strategies to Improve Competition

[Jim Mack](#) (CEMEX)

13:00-17:00 WORKSHOP 9: PAVEMENT FOUNDATIONS:
REVIEW OF FOUNDATION REQUIREMENTS AND
MEASUREMENTS

 Sponsored by Federal Highway Administration
and the National Concrete Pavement Technology
Center HIAWATHA



13:00 Welcome/Introduction

Moderator: [Leif Wathne](#) (CPTech Center)

13:10 Why is this Important?

Tom Cackler (Ingios Geotechnics)

13:45 Foundation Design 101

[Jeff Roesler](#) (University of Illinois)

14:25 The Ideal Pavement

[Tom Yu](#) (FHWA)

15:05 Break (20 min)

15:25 How to Achieve Engineering Foundations

[David White](#) (Ingios Geotechnics)

16:45 Advancing National Practice

[Tom Yu](#) (FHWA)

13:00-17:00 WORKSHOP 10: MINE/READY-MIX PLANT TOUR

NSSGA Sponsored by National Stone, Sand and Gravel Association BACK ENTRANCE

NATIONAL STONE, SAND & GRAVEL ASSOCIATION

13:00 Board bus for departure from THE DEPOT

13:15 Depart from conference hotel (safety briefing on bus)

14:00 Arrive at Holcim Empire Plant (16251 Biscayne Ave., Farmington)

14:00 Welcome and Overview (PPE provided for those without)

14:10 Guided tour of aggregate production facility

15:10 Guided tour of ready mixed concrete plant

16:00 Board bus for departure to conference hotel

16:45 Arrive at THE DEPOT and adjourn

18:00-21:00 BBQ RECEPTION at AET



ST. PAUL, MN

Sponsored by American Engineering Testing

Buses depart DEPOT at 17:30 and return by 21:00

WEDNESDAY, AUGUST 28

7:00-8:00 BREAKFAST DEPOT PAVILION

7:00-16:00 SPEAKER READY ROOM ALEX. MITCHELL



Developing a Next-Generation Concrete Pavement Analysis Tool

[Kathryn A Kennebeck](#)

10:15-12:00 SESSION 12: CONSTRUCTION 1

HIAWATHA

Enhancing Concrete Pavement Work Zone Safety Through Passive Material Sensing

[Jeffery Roesler](#)

Optimizing Concrete Highway Paving: An Australian Perspective

[James Walker](#)

Concrete Pavements in Roundabout Intersections: Case Studies

[Kurt Smith](#), [Shabbir Hossain](#), and [Andy Naranjo](#)

Performance of Concrete Pavements with Optimized Geometry Panels Tendered By the Ministry of Public Works in Chile

[Juan Pablo Covarrubias](#)

10:15-12:00 POSTER SESSION 2 (NCC) CONSERVATORY

12:00-13:00 LUNCH DEPOT PAVILION

13:00-14:45 SESSION 13: RECYCLED MATERIALS

GREAT NORTHERN

Evaluation of the Beneficial Use of Recycled Concrete Aggregates at the MnROAD Test Cells

[Bernard Izevbekhai](#)

The RAP Addition to Produce Concrete Pavements

[Christian Paglia](#)

Effects of RCA Replacement Level on Concrete Mechanical Properties

Rita Lederle

Case Studies of Problems and Solutions of Construction and Maintenance of Concrete Pavements in India

R.K. Jain and Satbir Singh Puwar

13:00-14:45 SESSION 14: CONSTRUCTION 2

HIAWATHA

Roller-Compacted Concrete Pavement Field Study: Connecting Mixture Volumetrics with Constructability

[Jordan Ouellet](#)

Recent Advances in RCC Roadway Construction in the USA

[Corey Zollinger](#)

Innovative Test Setup for Transforming Singular Joint Deformations into Plural Cracks in Concrete Pavements

[Maximilian Weiß](#)

Leveraging State-of-the-Art Large Language Models for Accident Analysis in the Highway Construction Industry

[Mason Smetana](#)

13:00-14:45 POSTER SESSION 3 CONSERVATORY
Wide-Base Tire Load's Impact on Transverse Cracking of Jointed Plain Concrete Pavement in Michigan

[Jake Hiller](#)

Twenty-Years Experience of Porous Concrete Pavements on Roadways in Japan

[Nakamura Hironori](#)

Research on Rheological Properties to Improve the Quality of Concrete Mixtures for Pavement

Kyong-Ku Yun

Utilization of the Pavement Condition Index for Roller Compacted Concrete Pavements: A Case Study in Türkiye

[İsmail Özgür Yaman](#)

Development of a Framework for Assessing Global Warming Potential Across the Concrete Pavement Life Cycle

[Michelle Cooper](#)

The Maturity Concept for Early Opening of Concrete Pavements – The Underutilized Opportunity

[Jim Grove](#)

Relative Significance of Coefficients and Local Calibration of PMED Rigid Performance Prediction Models

[Faizan A. Lali](#)

Differential Settlement Behavior and Verification of Precast Concrete Pavement and Base Layer

[Mingjing Fang](#)

Enhancing Mechanism of the Chemically Etched Fly Ash Cenosphere on Concrete Performance

Yating Zhang

13:00-14:45 BREAK DEPOT PAVILION

15:15-17:00 SESSION 15: MATERIALS GREAT NORTHERN
Compactability of Fiber-Reinforced Roller-Compacted Concrete

[Jesús Castro Pérez](#)

Concrete Thermal And Optical Property Sensitivities to Mixture Proportions

[Jeffery Roesler](#)

Evaluation of the Suitability for Use of Ternary Cements with Carbonate Fillers Or Calcined Clays: Concrete Compositions Subjected to De-Icing Salts

[Elia Boonen](#)

Engineered Cementitious Composites (ECC) for Asphalt Rehabilitation – Feasibility Stage with Nonlinear Finite Element Modeling

TBD

15:15-17:00 SESSION 16: DURABILITY HIAWATHA

Improving Resistance to Damage from Freeze-Thaw of High-Early-Strength Concrete Mixtures Through the Application of AASHTO R 101 Concepts

[Michelle Cooper](#)

Analytical Study on Durability of Continuous Reinforced Concrete Pavement Mixing Various Admixtures

He Zongyao

Concrete Formation Factor: Experimental and Modeling Methods

[Jussara Tanesi](#)

Performance Engineered Mixtures (PEM) Approach for Improved Concrete Durability And Sustainability - Case Studies

[Jagan Gudimettla](#)

15:15-17:00 POSTER SESSION 4 CONSERVATORY

Maturity-Strength Trends Observed from Carbon Dioxide Test Sections at MnROAD

[Emil G. Bautista](#)

Concrete Pavement Analysis in DOD's JEDI-2D Framework

[Anastasios M. Ioannides](#)

Optimizing Vibration Parameters of Thick Single-Layer Concrete Pavements: Results of the Belgian Monocrete Project

[Audrey Van der Wielen](#)

Future Climatic Temperature Change Effects and Environmental Considerations for South African Concrete Pavements

[Refiloe Mokoena](#)

The Effectiveness and Efficiency of Implementing Fast Set Concrete in Reparation and Reinstatement of Concrete Pavements

Teoh Sze Tean

Crack Survey on a Field Test of Continuously-Reinforced-Concrete Pavement (CRCP) Using Prefabricated Steel-Bar Mesh-Panels

[Isamu Yoshitake](#)

Performance-Based Testing of New Cements for Concrete Pavements

[Bohuslav Slánský](#)


18:00-21:30 AWARDS DINNER - STILLWATER RIVER BOATS



STILLWATER, MN



Buses depart DEPOT @ 17:30 and return @ 21:30
Sponsored by the American Concrete Pavement Association

THURSDAY, AUGUST 29

8:00-12:00 MINNEAPOLIS MUNICIPAL PAVEMENT WALKING TOUR FRONT ENTRANCE
 Tour will leave at 8:00 and return by 11:00
Option to take city bus back to DEPOT
Hosted by the City of Minneapolis

8:00-12:00 MNROAD TOUR BACK ENTRANCE
 Buses leave at 8:00 and return by 12:00
Transportation sponsored by Power Pavers
 Tour hosted by the National Road Research Alliance and the Minnesota DOT

MEALS



Breakfasts (8:00-9:00) on Monday, Tuesday, and Wednesday sponsored by Diamond Surface



Lunches (12:00-13:00) on Monday, Tuesday, and Wednesday sponsored by Ash Grove Cement

CONFERENCE STEERING COMMITTEE

Tom Burnham	Conference Chair and ISCP VP
Manik Barman	Technical Program Co-Director/Editor
Anna-Carin Brink	Technical Program Co-Director/Editor
Jake Hiller	ISCP President
Eric Ferrebee	Sponsorship Co-Coordinator
Leif Wathne	Sponsorship Co-Coordinator
Peter Taylor	Workshop Co-Coordinator
Sherry Sullivan	Workshop Co-Coordinator
Corey Zollinger	Finance Co-Coordinator
Armen Amirkhonian	Finance Co-Coordinator
Tara Cavalline	Student Competition Coordinator
Mike Wallace	Local Events Coordinator
Sushobhan Sen	Intl Participation Co-Coordinator
Hugo Gonzalez	Intl Participation Co-Coordinator
Yating Zhang	Intl Participation Co-Coordinator