



# ASCP2021

# 6<sup>TH</sup> CONCRETE PAVEMENTS

# E-CONFERENCE

2020 tested our flexural capacity and at times strained our mental tensile strength to 85% yield. To maintain tradition, ASCP has worked hard to develop a unique line-up of papers and delivery format for its 6<sup>th</sup> Concrete Pavements Conference which will be delivered in August 2021. Like previous biennial conferences, this conference will traverse a range of concrete pavement themes as well as featured keynotes from respected international guests and one home grown colleague. Each of three conference sessions was selected to enable maximum global attendance. We hope to see you there!

## ASCP2021 CONFERENCE WORKING GROUP

JAMIE EGAN  
ACCIONA

ANNA-CARIN BRINK  
ARUP

GREG SIEDERS  
BLUEY

DAVID HOCKING  
BORAL

MARC BOERE  
JK WILLIAMS

BASIL BEN  
TfNSW

HOSSEIN ASADI  
TfNSW

**TUESDAY**  
AUGUST  
17<sup>TH</sup>

3½ HOUR  
E-CONFERENCE  
SESSION WILL COMMENCE AT  
8AM SYDNEY TIME

**WEDNESDAY**  
AUGUST  
18<sup>TH</sup>

3½ HOUR  
E-CONFERENCE  
SESSION WILL COMMENCE AT  
8AM SYDNEY TIME

**THURSDAY**  
AUGUST  
19<sup>TH</sup>

FULL DAY HYBRID  
E-CONFERENCE  
SESSION WILL COMMENCE  
AT 9AM SYDNEY TIME, WITH  
OPTIONAL IN-PERSON\*  
NETWORKING AND LUNCH IN  
SYDNEY

\* Limited to first 50 registrations;  
Subject to government guidelines.

3-DAY E-TICKET  
(ONLINE ATTENDANCE)

**\$250** Non-members  
**\$205** ASCP Member  
(inclusive of GST)

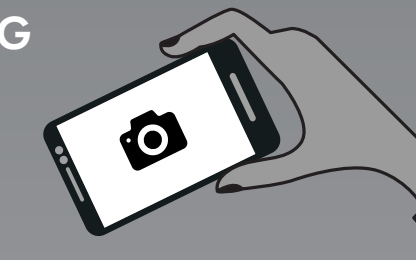
3-DAY E-TICKET  
(ONLINE + DAY 3 HYBRID SEAT)

**\$360** Non-members  
**\$315** ASCP Members (includes lunch)  
(inclusive of GST)

# WANTED YOUR PROJECT UPDATES

WIN A \$100 PRIZE BY SHARING  
A 30-60 SECOND 'SELFIE'  
PROJECT VIDEO

The video should introduce you, your role and a unique constituent of your day pertaining to concrete pavement that you find satisfying, perplexing, amusing or generally worth sharing. Finalist video spots will be presented at the Conference with the \$100 prize offered to the winning submission.



**SUBMIT SELFIES**

## TUESDAY AUGUST 17

### E-CONFERENCE ONLY

<b>WELCOME</b>	CHAIR	8:00	10
<b>OPENING WITH A DOUBLE KEYNOTE</b>			
Pavement Economic, Life Cycle Assessment & Competition Studies at the MIT Concrete Sustainability Hub	JAMES W. MACK	8:10	30
Evaluation of Long-Life Rigid Pavements in Michigan	NEERAJ BUCH	8:40	30
<b>BREAK - Sponsor Update and Selfie video</b>	VARIOUS	9:10	10
<b>BOFFIN TIME</b>			
Review of the Erosion Criteria for Bound Subbases in the Australian Rigid Pavement Design Procedure	IAN VAN WIJK	9:20	30
The First Concrete Freeway in South Africa	ANNA-CARIN BRINK	9:50	30
<b>BREAK - Sponsor Update and Selfie video</b>	VARIOUS	10:20	10
<b>BRINGING IT HOME</b>			
Enhanced Performance of Concrete with use of Carbon Nanotube Enriched Liquid Additive	TASHA EAGLE	10:30	30
WC2G Recycled Crushed Glass Project	ANDREW TINDAL	11:00	30
Day 1 Wrap-up	CHAIR	11:30	10

## WEDNESDAY AUGUST 18

### E-CONFERENCE ONLY

<b>KICK-OFF</b>	CHAIR	8:00	10
<b>DOUBLE INTERNATIONAL KEYNOTE</b>			
Effect of Controlled Vibration Dynamics on Concrete Mixtures	PETER TAYLOR	8:10	30
Comparison of PCC Elastic Modulus for Rigid Pavements - Laboratory versus Field	DR SYED HAIDER	8:40	30
<b>BREAK - Sponsor Update and Selfie video</b>	VARIOUS	9:10	10
<b>FAST CONCRETE</b>			
Use of CSA Cement in more Sustainable Pavement Concrete	GREG CATTERALL	9:20	30
CSA Cement for Concrete Road Slab Replacements - A Review of International Practise and Literature	JAMES WALKER	9:50	30
<b>BREAK - Sponsor Update and Selfie video</b>	VARIOUS	10:20	10
<b>ALMOST THERE</b>			
Basalt Fibre and Rebar in Concrete Pavements	GREG CATTERALL	10:30	30
Grated Drain by the Slipform Method	MARC BOERE	11:00	30
Day 2 Wrap-up	CHAIR	11:30	10

## THURSDAY AUGUST 19

### HYBRID E-CONFERENCE

<b>BIG DAY, LETS GO!</b>	CHAIR	9:00	10
<b>DOUBLE KEYNOTE</b>			
Concrete Overlays - Lessons Learned from Research and Performance Evaluations in the US	TOM BURNHAM	9:10	30
W2B In the Rear View Mirror	MICHAEL HEATHWOOD	9:40	30
<b>BREAK - Sponsor Update and Selfie video</b>	VARIOUS	10:10	10
<b>TIME FOR SOMETHING DIFFERENT</b>			
Impact of GGBFS Cement on the Interfacial Transit Zone (ITZ) and influence on Flexural Strength of CRCP Concrete	JASON CHANDLER	10:20	30
Local Government Path Paving by the Slip Form Method	MARC BOERE	10:50	30
<b>BREAK - Sponsor Update and Selfie video</b>	VARIOUS	11:20	10
<b>TURNING THE CORNER TO LUNCH</b>			
Anthology of Best Practice for Design of Intermodal Heavy Duty Rigid Pavements	JUSTIN MOSS	11:30	30
2021, A Subbase Odyssey	TIM BUCKINGHAM-JONES	12:00	30
<b>LUNCH DOWNSING</b>	VARIOUS	12:30	60
<b>SPECIFICATION TIME</b>			
Specifying Concrete Pavements for Local Government	NANDINI MEHTA	13:30	30
32mm Aggregate Trial	RAVINDRA PRATHAPA	14:00	30
<b>BREAK - Sponsor Update and Selfie video</b>	VARIOUS	14:30	10
<b>CLOSING HARD WITH DOUBLE INTERNATIONAL KEYNOTE</b>			
Investigation of Crack Width Development in CRCP	MILAD MOHAREKPOUR AND STEFAN HOLLER	14:40	30
CRCP for Rural and Urban Applications	LUC RENS	15:10	30
<b>CONFERENCE POWERDOWN INCLUDING AWARDS AND PRIZES</b>	CHAIR	15:40	20

## KEYNOTE SPEAKERS



### JIM MACK

Jim Mack has 30 years of pavement engineering experience in areas such as concrete pavement design, rehabilitation, construction, forensic evaluation, pavement management, materials, and life cycle cost analysis and assessment. He has a Master of Business Administration and Masters of Science in Civil Engineering.

### DR. NEERAJ BUCH

Dr. Neeraj Buch is a Professor and Chair in the Department Civil and Environmental Engineering at Michigan State University. He is the past president of the International Society of Concrete Pavements. His research interests include concrete pavement design, rehabilitation, non-destructive testing of pavements.



### DR PETER TAYLOR

Dr. Peter C. Taylor P.E. (IL) is the Director of the National Concrete Pavement Technology Center at Iowa State University. He spends time helping agencies and contractors make better concrete, and to prove it is what they wanted. In between motorcycling missions, he tirelessly campaigns for rethinking mixture design and innovation.

### DR SYED WAQAR HAIDER

Dr. Haider is an Associate Professor (Civil and Environmental Engineering) at Michigan State University. He has diverse professional, research, and teaching experiences in statistical quality assurance processes, material characterisation, ME pavement analysis, rehabilitation, asset management systems, and preservation.



### TOM BURNHAM

Tom is a motorhead (cars, snowmobiles, motorcycles), musician (horn player), and a senior road research engineer obsessed with improving concrete pavements. He has worked at the Minnesota Department of Transportation for over 30 years, spending much of his time keeping the MnROAD test track interesting and successful for its partners.

### MICHAEL HEATHWOOD

Michael has 18 years' experience in the transportation infrastructure construction sector, specialising in complex road structures. Previously Pavements Manager on several major road upgrades, he is currently Project Engineering Leader & SME for Structural Concrete and Pavements with Laing O'Rourke. His favourite beer is Pale Ale.



### MILAD MOHAREKPOUR M.SC.

Complementing his road construction and management experience (Vössing and Max Bögl), Mr. Moharekpour joined the Institute of Highway Engineering RWTH University in 2017 as Research Engineer and PhD Student where his research focusses on concrete pavements. He has a MSc (CE, Bergische University) and a BSc (CE, Isafahan University of Technology).

### STEFAN HÖLLER

Starting in bridge construction management, Stefan spent the subsequent 20 years at the Federal Highway Research Institute in Berlin, Germany. He has participated in programs in urban planning and transportation, concrete construction methods, noise-reducing textures, intelligent road construction, renewable energy and climate change.



### LUC RENS

Luc Rens is a Brussels-based lover of Belgian beer, horse riding and concrete pavements. In 2001, after an engineering career within the Belgian army, he joined Federation of the Belgian Cement Industry (Febelcem) as an engineering consultant. From 2009, Luc commenced an addition role as Managing Director of EUPAVE (European Concrete Paving Association).