

## Tuesday, 19 June, 2018

From 14:00	Registration	
From 18:00	<b>WELCOME RECEPTION</b> Welcome word by	IN THE FOYER (GROUND FLOOR), TITANIC CHAUSSEE BERLIN Ulrich Nolting, Managing Director, InformationsZentrum Beton GmbH (IZB) Luc Rens, Managing Director, European Concrete Paving Association (EUPAVE) Jeffery Roesler, President, International Society for Concrete Pavements (ISCP)

## Wednesday, 20 June, 2018

From 07:30	Registration	
09:00 - 10:30	<b>OPENING SESSION</b> Opening speech by	InformationsZentrum Beton GmbH Federal Ministry or City Berlin Stéphane Nicoud, President of EUPAVE Claude Van Rooten, President of the World Road Association (PIARC) Dir.'in Dipl.-Ing. Elfriede Sauerwein-Braksiek, Chair of the Road Transportation Research Association (FGSV)
	Keynote speech by	Michael Darter
10:30 - 11:00	Coffee break	IN THE FOYER (GROUND FLOOR)

11:00 - 12:30

PLENIUM

### SESSION 1

Chairman Dipl.-Ing. Thomas Wolf

#### Overview Lecture and Keynote Speech

##### Welcome Address

Dipl.-Ing. Thomas Wolf STRABAG Großprojekte GmbH, Munich  
Head of the FGSV working group 'Concrete pavements'

##### Presentation of the Otto Graf Foundation's Concrete Infrastructure Young Talents Award

Dir.'in Dipl.-Ing. Elfriede Sauerwein-Braksiek  
Chair of the FGSV

##### Concrete Pavement Construction Outside Germany: Report from the 2015 Award Winner

Dipl.-Ing. Martin Langer  
STRABAG Großprojekte GmbH, Munich

##### Research and Development in the Field of Concrete Pavement Construction 2015–2018

Dipl.-Ing. Thomas Wolf  
Head of the FGSV working group 'Concrete pavements'

##### Keynote Speech: Concrete Roads in Germany - Markets and Possibilities

Ulrich Nolting  
InformationsZentrum Beton GmbH, Ostfildern



ROOM FRANKFURT

### SESSION 2

Chairwoman Anne Beeldens

#### Theme 6: Maintenance Strategies, Assessment of Structural Capacity of Concrete Pavements

##### Decision Support Tool for Road Restraint Systems

SPEAKER Zoran Kenjic  
AUTHORS W. Nijssen, Z. Kenjic  
COUNTRY Netherlands

##### Development of a Test Procedure to Determine the Coefficient of Thermal Expansion of Concrete – Investigation on German Concrete Pavement

SPEAKER Alexandra Spilker  
AUTHOR A. Spilker  
COUNTRY Germany

##### Standardisation of Concrete Pavements in the Netherlands

SPEAKER Wim Kramer  
AUTHORS W. Kramer, G. Jurriaans  
COUNTRY Netherlands

##### Optimum Repair and Rehabilitation Methodologies of CRCP in Texas

SPEAKER Moon Won  
AUTHORS M. Won, PG. Choi, SW. Ryu, JH. Nam, SI. Jeon  
COUNTRY USA

ROOM MÜNCHEN

### SESSION 3

Chairman Ozgur Yaman

#### Theme 4: Materials – Concrete for Various Applications

##### Why Not Concrete – A Quarter of Century Lasting Experience in Promotion of Concrete Pavements in Poland

SPEAKER Jan Deja  
AUTHORS J. Deja, P. Kijowski  
COUNTRY Poland

##### Analysis of the Infiltration Rate Variation Along Time of Pervious Concrete Pavements in Tropical Climate

SPEAKER Rafael Batezini  
AUTHORS F. Curvo, R. Batezini, J. T. Balbo  
COUNTRY Brasil

##### New Developments for Technical and Economic Optimization of Porous Concrete

SPEAKER Paul Vogel  
AUTHORS J. Orben, R. Kem, P. Vogel, V. Bik  
COUNTRY Germany

##### Limits for Freeze-Thaw Resistance in the Presence of De-Icing Salts of Road Concrete: First Results of the GELAVIA Project

SPEAKER Sylvie Smets  
AUTHORS S. Smets, E. Boonen, C. Pierre, G. Vanhamme  
COUNTRY Belgium

##### Use of Waste to Energy Bottom Ash from MSW as Recycled Aggregate in a Roller Compacted Concrete in Mallorca (Spain)

SPEAKER José Maria Merino Thomas  
AUTHOR F. Martinez Cuart  
COUNTRY Spain



## Wednesday, 20 June, 2018

12:30 - 13:30 Lunch break IN THE FOYER (GROUND FLOOR) AND RESTAURANT (FIRST FLOOR)

13:30 - 15:00

PLENUM

### SESSION 4

Chairman Dr. Ulf Zander

#### Theme 7: Surface Characteristics and Modern Methods of Execution

##### Prozesssicherheit im Betonstraßenbau

Dr.-Ing. Marko Wieland  
Federal Highway Research Institute (BAST), Bergisch Gladbach

##### Grinding, the New Technique for Low-Noise and Even Concrete Surfaces

Dipl.-Ing. Ralf Alte-Teigeler  
Otto Alte-Teigeler GmbH, Gaggenau

##### Skid Resistance of Concrete Roads

Dipl.-Ing. Jens Skarabis  
Silentex GmbH, Berlin

##### Charakterisierung von Fugenmassen – Prüfverhalten für die Ermittlung relevanter Kenndaten

Univ.-Prof. Dr.-Ing. Rolf Breitenbücher,  
Ruhr University Bochum, Bochum

##### The New Guideline “M VaB Part 3: Container- and Logistic Pavements”

Univ.-Prof. Dr.-Ing. Stephan Freudenstein  
Technical University of Munich, Munich



ROOM FRANKFURT

### SESSION 5

Chairman Wim Kramer

#### Theme 8: General Reports on Application of Concrete Pavements

##### Modern Cement Concrete Pavements at Construction of Main Roads in Republic of Uzbekistan

SPEAKER Mirzakhid Miralimov  
AUTHORS M. X. Miralimov, K. K. Karen  
COUNTRY Uzbekistan

##### The Physics of Concrete

SPEAKER Anna-Carin Brink  
AUTHOR A.-C. Brink  
COUNTRY Australia

##### Active Crack Control in Continuously Reinforced Concrete Pavements (CRCP)

SPEAKER Pieter De Winne  
AUTHORS P. De Winne, H. De Backer, S. Depuydt  
COUNTRY Belgium

##### Regionalized Life Cycle Assessment Tool for Designing Concrete Pavement Alternatives

SPEAKER Eric Ferrebee  
AUTHORS E. Ferrebee, J. Roesler  
COUNTRY USA

##### Overview of Pavement-Vehicle Interaction Related Research at the MIT Concrete Sustainability Hub

SPEAKER James Mack  
AUTHORS J. Mack, M. Akbarian, F. J. Ulm, A. Loughalam  
COUNTRY USA

ROOM MÜNCHEN

### SESSION 6

Chairman Halil Ceylan

#### Theme 1: High Axle – load Areas

##### Construction of Highly Loaded Concrete Pavements in Industrial Areas

SPEAKER Stephan Freudenstein  
AUTHORS S. Freudenstein, M. Bollin  
COUNTRY Germany

##### Expansion Lelystad Airport

SPEAKER George Jurriaans  
AUTHORS G. Jurriaans, J. van de Vleuten  
COUNTRY Netherlands

##### How to Incorporate Function Criteria in the Design – A Case Study: the CER (Container Exchange Route) in Rotterdam

SPEAKER Anne Beeldens  
AUTHORS A. Beeldens, J. de Vrieze  
COUNTRY Belgium

#### Theme 11: Soil Treatment and Base Layers

##### Environmental and Economic Benefits of FDR with Cement in the Improvement of a 120,000m<sup>2</sup> Empty Containers Platform in Valencia Port (Spain). Comparison with Standard Flexible Solution

SPEAKER Jose Maria Merino Thomas  
AUTHORS C. Tarin, M. Canillas, C. Barat, J. M. Merino, R. Rueda  
COUNTRY Spain

##### Mix Design of Optimized Excavatable Cement Treated Materials Using a New Punching Test Aparatus

SPEAKER Eric Genesseeux  
AUTHORS E. Genesseeux, T. Sedran, J. M. Torrenti, M. Hardy  
COUNTRY France

15:00 - 15:30 Coffee break IN THE FOYER (GROUND FLOOR)



Wednesday, 20 June, 2018

15:30 - 17:00

PLENUM

## SESSION 7

Chairman Dr. Oliver Mielich

### Theme 4: Materials – Concrete for Various Applications

#### Availability of Aggregates for Road Construction

Dr. Olaf Enger  
Bundesverband Mineralische Rohstoffe e. V. (MIRO), Cologne

#### Wiederverwendung von RC-Material aus AKR-geschädigten Betondecken – Erfahrungen aus Brandenburg

Dipl.-Ing. Janette Klee  
Brandenburg State Agency for Roads, Hohen Neuendorf

#### Alkali-Silica-Reaction in the Municipal Road Construction

Dr. Christoph Müller  
Geschäftsführer VDZ gGmbH, Dusseldorf

#### Alkali-Silica-Reaction in Concrete Pavements Considering Traffic and De-Icing Agents

Robin Przondziona, M. Sc.  
Ruhr University Bochum, Chair of building material technics, Bochum

#### Multiscale Modelling of ASR Induced Deterioration in Concrete Pavements

Dipl.-Ing. Andreas Wiedmann  
Karlsruhe Institute of Technology, Karlsruhe



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## SESSION 8

Chairman Martin Peck

### Theme 3: Urban and Rural Roads, Intersections and Roundabouts

#### Concrete Pavements for Bus Stops – Swedish Experiences

SPEAKER Johan Silfwerbrand  
AUTHOR J. Silfwerbrand  
COUNTRY Sweden

#### Construction of a Thin Concrete Overlay for a Very Heavy Traffic Roundabouts

SPEAKER Sergio Carrascón  
AUTHORS S. Carrascón, J. Verdú, F. Cortés, M. Romero, A. Diego  
COUNTRY Spain

#### Economic Feasibility Study of Bus Lane in Asphalt and Concrete Structure

SPEAKER Lena Pauli  
AUTHORS L. Pauli, A. Grossman  
COUNTRY Germany

#### Pavement Construction in Urban Areas

SPEAKER Martin Peyerl  
AUTHORS M. Peyerl, G. Maier, S. Krispel  
COUNTRY Austria

ROOM MÜNCHEN

## SESSION 9

Chairman Gerald Voigt

### Theme 9: Quality Control and Testing

#### Performance Engineered Mixtures (PEM) for Concrete Pavements

SPEAKER Ezgi Yurdakul  
AUTHORS P. Taylor, X. Wang, E. Yurdakul  
COUNTRY USA

#### Ultrasonic Tomography and Ground Penetrating Radar as Non-destructive Measuring Techniques for Concrete Pavement Evaluation

SPEAKER Audrey Van der Wielen  
AUTHORS A. Van der Wielen, C. Grégoire, M. Lybaert, E. Boonen  
COUNTRY Belgium

#### Development of a Dowel Alignment and Location Guide Specification

SPEAKER Mark Snyder  
AUTHORS M. Snyder, G. Voigt, R. Rodden  
COUNTRY USA

### Theme 10: Big Data – Concepts to Optimize the Use of Entire Infrastructure Networks

#### LCA and LCCA Assessment Tool for Pavements

SPEAKER Sergio Carrascón  
AUTHORS S. Carrascón, C. Bartolomé, J. Díaz, R. López, R. Rueda,  
I. Zabala  
COUNTRY Spain

#### Life Cycle Cost Analysis Accounting for the Uncertainties in Pavement Performance and Rehabilitation Costs

SPEAKER James Mack  
AUTHOR F. Mu, J. Mack  
COUNTRY USA

## EVENING EVENT

18:15 Meeting point at Hotel Titanic Chaussee, departure by bus to the boarding area for the boat trip  
18:45 Cruise on the river Spree with views on Berliner Skyline, Reichstag and Government district  
19:45 Arrival of the boat and walk to Kalkscheune  
20:00 Evening event in the Kalkscheune  
From 23:00 Shuttle bus to Hotel Titanic Chaussee



Thursday, 21 June, 2018

09:00 - 10:30

10:00 - 11:15

PLENUM

**POSTERS PRESENTATIONS BY AUTHORS**

10:30 - 11:15

Coffee break IN THE FOYER (GROUND FLOOR)

From 12:00

**TECHNICAL TOURS**

- Technical Excursion n°1 - Excursion to CEMEX Zement GmbH, Rüdersdorf cement works
- Technical Excursion n°2 - Construction of a Bus Stop with Precast Concrete Slabs in Berlin
- Technical Excursion n°3 - Technical Trip Grinding – Federal Motorway A10
- Technical Excursion n°4 - Excursion to the ADAC Driving Safety Centre, Linthe, Berlin/Brandenburg
- Technical Excursion n°5 - Construction of a Shiplift (Niederfinow Boat Lift)

Until 18:00

Back at the hotel

ROOM FRANKFURT

**SESSION 11**

Chairman George Jurriaans

**Theme 2: Highways and Truck Parking Areas**

**Construction Practices and Details in CRCP**

SPEAKER Luc Rens  
AUTHOR L. Rens  
COUNTRY Belgium

**Development of SPS-2 Pavement Preservation Experiment**

SPEAKER Nicole Duffala  
AUTHORS N. Duffala, T. Punnackal, P. Schmalzer, J. Uhlmeyer  
COUNTRY USA

**Measuring the Zero-Stress Temperature in Concrete Carriageways**

SPEAKER Axel Riwe  
AUTHORS A. Riwe, S. Villaret, K. Villaret  
COUNTRY Germany

**Use of MSW Slags in Cement Treated Layers in a Ring Road in Mallorca (Spain)**

SPEAKER Aina Canaleta  
AUTHOR F. Martinez Cuart  
COUNTRY Spain

**Development of Concrete Roads in Nigeria**

SPEAKER Jean Pondy  
AUTHOR J. Pondy  
COUNTRY Cameroon

ROOM MÜNCHEN

**SESSION 12**

Chairman Martin Peyerl

**Theme 4: Materials – Concrete for Various Applications**

**Recycled Concrete Aggregates in Pavement Concrete: Research and Practice in Belgium**

SPEAKER Elia Boonen  
AUTHORS E. Boonen, S. Smets, A. Van der Wielen, A. Beeldens  
COUNTRY Belgium

**Flexbeton: A New Approach to Pavement Materials**

SPEAKER Penny Pipilikaki  
AUTHORS P. Pipilikaki, D. van Vilet, J. Kruithof, J. de Vrieze  
COUNTRY Netherlands

**Internal Curing and Curling for Concrete Pavement Applications**

SPEAKER Jeffery Roesler  
AUTHORS A. Amirkhanian, J. Roesler  
COUNTRY USA

**New Approach to Prevent a Damaging Alkali-Silica Reaction (ASR) in Concrete for Road Pavements**

SPEAKER Patrick Schäffel  
AUTHOR P. Schäffel  
COUNTRY Germany

**Scaled Physical Modelling of Ultra-Thin CRCP**

SPEAKER Phia Smit  
AUTHORS P. Smit, E. Kearsley  
COUNTRY South Africa



Friday, 22 June, 2018

9:00 - 10:30

PLENUM

## SESSION 13

Chairman Jeffery Roesler

### Theme 8: General Reports on Application of Concrete Pavements

#### A Review of Pavement Economic Studies at the MIT Concrete Sustainability Hub

SPEAKER James Mack

AUTHORS J. Mack, O. Swel, M. Akabarian, J. Gregory, R. Kirchain

COUNTRY USA

#### Cracking Pattern and Load-Transfer Efficiency Analysis of a Continuously Reinforced Concrete Pavement Under Tropical Environment

SPEAKER Andréia Cargnin

AUTHORS A. Cargnin, J. T. Balbo

COUNTRY Brasil

#### Recent Advances and Uses of Roller Compacted Concrete for Pavement Construction in the United States

SPEAKER Corey Zollinger

AUTHOR C. Zollinger

COUNTRY USA

#### Field Application of Two-Lift Concrete Pavement with Very High Performance Concrete

SPEAKER Kyong-Ku Yun

AUTHORS K. K. Yun, K. Namkung, S. Y. Han, K. R. Lee

COUNTRY USA

ROOM FRANKFURT

## SESSION 14

Chairman Mark Snyder

### Theme 6: Maintenance Strategies, Assessment of Structural Capacity of Concrete Pavements

#### Electrically Conductive Concrete Heated Pavement System Using Two-Lift Construction Technology

SPEAKER Halil Ceylan

AUTHORS H. Abdualla, H. Ceylan, S. Kim, A. Nahvi, K. S. Cetin,

P. C. Taylor, M. Mina, K. Gopalakrishnan

COUNTRY USA

#### Assessment of Structural Capacity for Systematic Maintenance Planning

SPEAKER Stephan Villaret

AUTHORS M. Wieland, S. Villaret

COUNTRY Germany

#### A 3D Approach for Evaluating the Structural Condition of Jointed Plain Concrete Pavements in a Pavement Management Context

SPEAKER Marko Wieland

AUTHORS M. Wieland, M. Sesselmann

COUNTRY Germany

#### Innovative Road Coating: An Original Solution to Improve Safety and Durability of Concrete Pavement

SPEAKER Duc Tung Dao

AUTHORS D. T. Dao, E. Mohsen, F. De Larrard, M. L. Nhuyen,

T. Sedran, P. Hornych

COUNTRY France

ROOM MÜNCHEN

## SESSION 15

Chairman Rolf Breitenbücher

### Theme 4: Materials – Concrete for Various Applications

#### Comparison of Laboratory Practices for Roller Compacted Concrete Pavements

SPEAKER Emin Sengun

AUTHORS E. Sengun, A. Aykutlu, B. Alam, O. Yaman

COUNTRY Turkey

#### Experience with Pervious Concrete Pavements in Germany

SPEAKER Robert Bachmann

AUTHOR R. Bachmann

COUNTRY Germany

#### Fatigue Behavior of Concrete Including Recycled Concrete Aggregate

SPEAKER Thierry Sedran

AUTHORS T. Sedran, E. Genesseeux

COUNTRY France

#### Erosion-Based Design for PCC Pavements

SPEAKER Dan Zollinger

AUTHORS K. Cunagin, D. Zollinger, B. Birgisson

COUNTRY USA

#### Low Carbon Footprint Pavement: History of Use, Performance and New Opportunities for Belitic Calcium Sulfoaluminate

SPEAKER Eric Bescher

AUTHORS E. Bescher, J. Kim, C. Ramseyer, J.K. Vallens

COUNTRY USA

10:30 - 11:15

Coffee break

IN THE FOYER (GROUND FLOOR)



Friday, 22 June, 2018

11:15 - 12:45

PLENUM

## SESSION 16

Chairman Bryan Perrie

### Theme 8: General Reports on Application of Concrete Pavements

#### Concrete Pavement Joint Sealing & Filling – A U.S. Perspective

SPEAKER Gerald Voigt  
AUTHORS G. Voigt, M. Snyder  
COUNTRY USA

#### Creation and Development of Pavementdesigner.org – A Unified Industry-Wide Pavement Design Tool for Concrete and Cement-Based Solutions

SPEAKER Eric Ferrebee  
AUTHORS E. Ferrebee, A. Gieraltowski, G. Voigt  
COUNTRY USA

#### The Future of Concrete Pavement in North America

SPEAKER Leif Wathne  
AUTHORS L. Wathne, G. Voigt  
COUNTRY USA

#### DUT Workshop Report

ROOM FRANKFURT

## SESSION 17

Chairwoman Anna-Carin Brink

### Theme 2: Highways and Truck Parking Areas

#### Re-Engineering CRCP Design

SPEAKER Jeffery Roesler  
AUTHORS S. Dahal, J. Roesler, S. Gillen, D. Gancarz  
COUNTRY USA

#### Two Case Studies of Two Lift CRCP on Belgian Highways: The Open Tunnel on the E34 and the Ring Road of Couvin (E420)

SPEAKER Anne Beeldens  
AUTHORS A. Beeldens, B. Wynckier, G. Lambert  
COUNTRY Belgium

### Theme 7: Surface Characteristics and Modern Methods of Execution

#### Next Generation Concrete Surface (NGCS). Finally a Silent and Sustainable Pavement?

SPEAKER Pieter De Winne  
AUTHORS B. Vanhoorewe, L. Rens, A. Beeldens  
COUNTRY Belgium

#### Noise Measurements on a New Generation Concrete Surface and an Optimized Exposed Aggregate in the Netherlands

SPEAKER Wim van Keulen  
AUTHORS W. van Keulen, H. J. Vennix  
COUNTRY Netherlands

ROOM MÜNCHEN

## SESSION 18

Chairman Thierry Sedran

### Theme 4: Materials – Concrete for Various Applications

#### Magnetizable Concrete for Wireless Electric Vehicle Charging

SPEAKER Mauricio Esguerra  
AUTHORS M. Esguerra, R. Lucke, E. P. Nielsen, F. Brandt  
COUNTRY Germany

#### Repair of Concrete Pavements in Thin-Layered New Concrete

SPEAKER Rolf Breitenbücher  
AUTHORS R. Breitenbücher, C. Schulte-Schrepping  
COUNTRY Germany

#### Large-Scale Renewals of Concrete Pavement without Disrupting Traffic

SPEAKER Jakob Melchior  
AUTHORS M. Bäuml, J. Melchior  
COUNTRY Switzerland

### Theme 5: Precast Systems

#### Precast Concrete Slabs for Construction and Repairing High Quality in Short Time

SPEAKER Tim Alte-Teigeler  
AUTHORS T. Alte-Teigeler, S. Villaret  
COUNTRY Germany

#### Precast Concrete Pavement for Rapid Replacement of Intersections and Ramps

SPEAKER Shiraz Tayabji  
AUTHORS S. Tyson, S. Tayabji  
COUNTRY USA

13:00 - 14:00

PLENUM

## CLOSING SESSION

**Best Technical Paper Award** by Luc Rens, Managing Director, EUPAVE  
**Best Marketing Paper Award** by André Burger, Vice-President, EUPAVE  
**Conclusion** by Ulrich Nolting, Managing Director, IZB

#### Closing of the Symposium

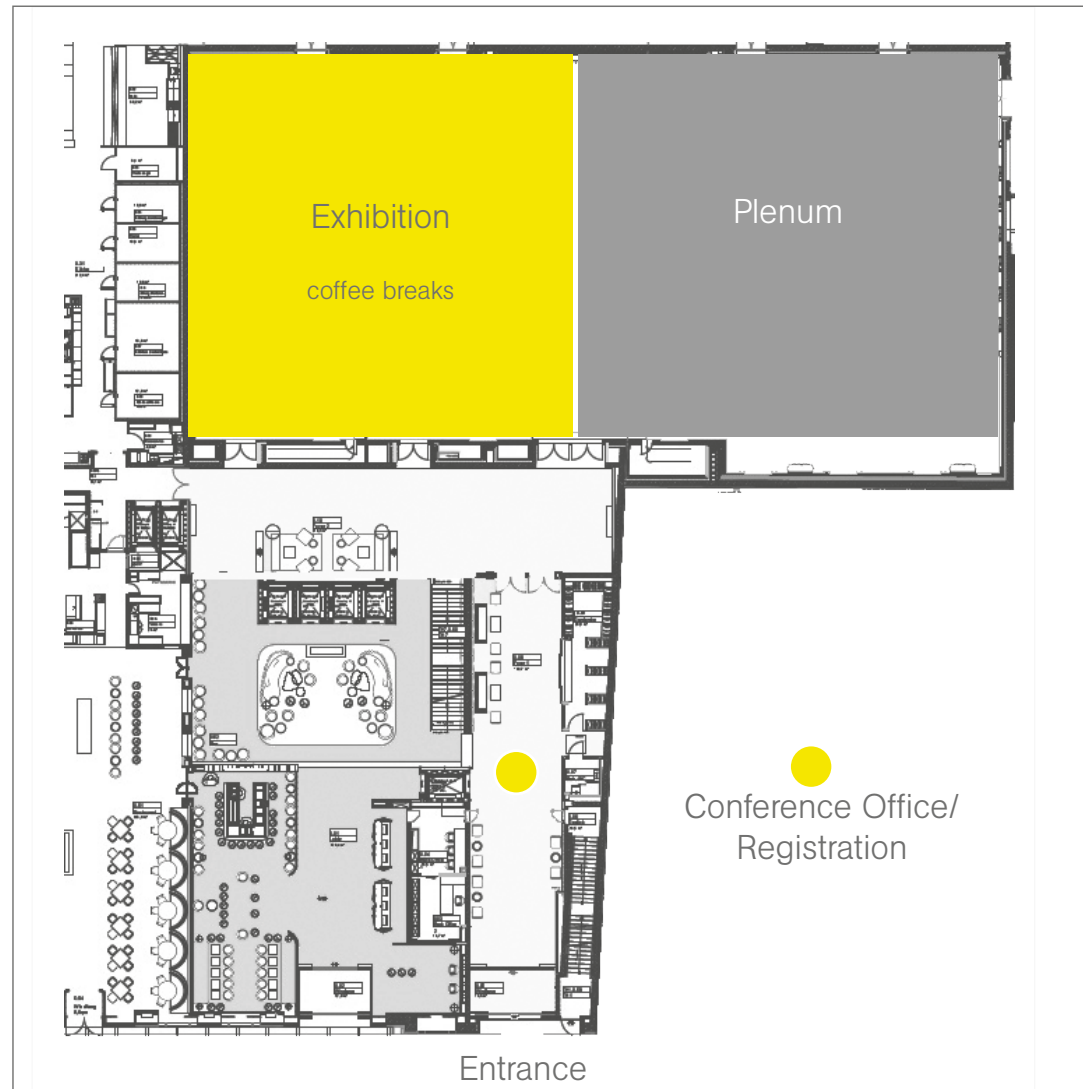


# CONFERENCE VENUE

13<sup>th</sup> International Symposium on Concrete Roads  
19 - 22 JUNE 2018

Hotel Titanic Chaussee | Chausseestraße 30 | 10115 Berlin | Germany

GROUND FLOOR



FIRST FLOOR

