



THE CENTRE FOR PAVEMENT AND TRANSPORTATION TECHNOLOGY (CPATT) PRESENTS



# HIGH PERFORMANCE ASPHALT MATERIALS SYMPOSIUM



## FEATURING INTERNATIONAL SPEAKERS

Prof. Orazio Baglieri POLITECNICO DI TORINO, ITALY

Prof. Alan Carter ÉCOLE DE TECHNOLOGIE SUPÉRIEURE (ÉTS), QUEBEC, CANADA

Dr. Armelle Chabot FRENCH INSTITUTE OF SCIENCE & TECHNOLOGY FOR TRANSPORT, DEVELOPMENT & NETWORKS, FRANCE

Dr. Emmanuel Chailleux FRENCH INSTITUTE OF SCIENCE & TECHNOLOGY FOR TRANSPORT, DEVELOPMENT & NETWORKS, FRANCE

Prof. Eshan Dave UNIVERSITY OF NEW HAMPSHIRE, UNITED STATES

Prof. Hervé di Benedetto UNIVERSITY OF LYON/ENTPE, FRANCE

Prof. Bernhard Hofko VIENNA UNIVERSITY OF TECHNOLOGY (TU WIEN), AUSTRIA

Prof. Manfred Partl KTH ROYAL INSTITUTE OF TECHNOLOGY, SWEDEN

Prof. Daniel Perraton ÉCOLE DE TECHNOLOGIE SUPÉRIEURE (ÉTS), QUEBEC, CANADA

Dr. Lily Poulidakos SWISS FEDERAL LABORATORIES FOR MATERIALS SCIENCE AND TECHNOLOGY (EMPA), SWITZERLAND

Prof. Gabriele Tebaldi UNIVERSITY OF PARMA, ITALY

Prof. Susan Tighe UNIVERSITY OF WATERLOO, CANADA

Prof. Michael Wistuba TU BRAUNSCHWEIG INSTITUT FÜR STRABENWESEN, GERMANY



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# HIGH PERFORMANCE ASPHALT MATERIALS SYMPOSIUM

WEDNESDAY, OCTOBER 2ND, 2019, 8:00AM - 3:30PM | FACULTY HALL (E7-7363), UNIVERSITY OF WATERLOO

## TECHNICAL PROGRAM

For registration: <https://forms.gle/QWQB3TeVUMjwNdZcA>

Start	End	Presentation Title
08:00	08:30	<b>Welcome &amp; Registration</b>
08:30	08:45	<b>Welcome Notes</b>
08:45	10:05	<b>Session 1</b>
08:45	09:05	High Performance – What Does that Mean? Prof. Manfred N. Partl - KTH Royal Institute of Technology, Sweden
09:05	09:25	Consequential Life Cycle Assessment-based Pavement Maintenance and Rehabilitation Framework Prof. Eshan Dave - University of New Hampshire, United States
09:25	09:45	Cold Recycled Mixtures and the Effects of the Active Fillers Prof. Gabriele Tebaldi - University of Parma, Italy
09:45	10:05	Bituminous Binder Reinforced with Carbon Nanotubes and Nanoclays Prof. Orazio Baglieri - Politecnico di Torino, Italy
10:05	10:20	<b>Coffee Break</b>

10:20	12:00	<b>Session 2</b>
10:20	10:40	100-Percent Recycled Asphalt for High Modulus Pavements Dr. Lily Poulidakos - Swiss Federal Laboratories for Materials Science and Technology (EMPA), Switzerland
10:40	11:00	Asphalt binders – Shedding some light onto and into a black space Prof. Bernhard Hofko - Vienna University of Technology (TU Wien), Austria
11:00	11:20	<b>Sponsors' Presentations</b>
11:20	11:40	Impact of Equivalent Young's Modulus Ratio Values b/w Material Layers on Pavement Structural Fracture Performance Dr. Armelle Chabot - French Institute of Science & Technology for Transport, Development & Networks, France
11:40	12:00	Development of High-Performance Asphalt Mixes Using Elastomer Pellets Prof. Hassan Baaj - University of Waterloo, Canada
12:00	13:00	<b>Lunch Break</b>
13:00	14:00	<b>Session 3</b>
13:00	13:20	Why Advanced Testing and for What Material Properties? Prof. Hervé di Benedetto - University of Lyon/ENTPE, France
13:20	13:40	Full-Scale Validation of High Performances Bio-Recycled Asphalt Mixtures for Road Pavements Dr. Emmanuel Chailleux - French Institute of Science & Technology for Transport, Development & Networks, France
13:40	14:00	Laboratory Characterization of Cold Recycled Materials: How Closely It Represents Field Performance Prof. Alan Carter - École de Technologie Supérieure (ÉTS), Quebec, Canada
14:00	14:15	<b>Coffee Break</b>



14:00	14:15	Coffee Break
14:15	15:15	Session 4
14:15	14:35	Advancing Asphalt Sustainability: A Canadian Case Study Prof. Susan L. Tighe - University of Waterloo
14:35	14:55	How to Define High Performance Asphalt Concrete (HPAC), called "EME" in France, for Cold Region Prof. Daniel Perraton - Ecole de Technologie Supérieure (ÉTS), Quebec, Canada
14:55	15:15	Asphalt Research in View of RILEM Cluster F (Bituminous Materials & Polymers) Convenor Prof. Michael Wistuba - TU Braunschweig Institut für Straßenwesen, Germany
15:15	15:30	Closing Notes

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