



Mizzou Asphalt Pavement and Innovation Laboratory (MAPIL)

Laboratory Grand Opening and Asphalt Research Symposium

Monday, March 27th, 2017
University of Missouri - Columbia

MAPIL Asphalt Research Symposium, Morning Session (details on page 2)

Recent Advances in Asphalt Materials and Pavements

Ketcham Auditorium, W1005 Lafferre Hall

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| 8:30 – 9:00 AM | Name badge pickup and continental breakfast |
| 9:00 – 11:45 AM | 15-20 minute presentations, academic speakers from US and Europe |
| 11:45 – 12:45 PM | Lunch at 'Ingredient' Restaurant, 304 South 9 th Street, Columbia, MO |

MAPIL Grand Opening and Tour, Lafferre Hall Renovation Tour

Please assemble in Ketcham Auditorium, W1005 Lafferre Hall

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| 1:00 – 1:30 PM | MAPIL Opening Ceremony (Ketcham Auditorium, W1005 Lafferre Hall)
<i>Dr. Bill Buttlar, Glen Barton Chair in Flexible Pavements, Presiding</i> <ul style="list-style-type: none">- Welcoming Remarks, Dean Lobo (invited) and Zack Hu (CEE Chair)- Vision for MAPA Asphalt Labs and Programs in Missouri, MAPA- MAPIL Lab Vision and Overview, Bill Buttlar |
| 1:30 – 2:30 PM | Tours of MAPA-sponsored MAPIL Lab, Lafferre Hall Renovation |
| 2:30 – 3:00 PM | Reception/Refreshments Served (Location(s) TBA) |

MAPIL Asphalt Research Symposium, Afternoon Session (details on page 3)

History and Challenges in Asphalt Materials and Flexible Pavements in Missouri/Midwest

Ketcham Auditorium, W1005 Lafferre Hall

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| 3:00 – 5:20 PM | 15-20 minute presentations, speakers from MoDOT, FHWA, Academia, and Industry |
| 5:20 – 5:30 PM | Closure of MAPIL Grand Opening and Asphalt Research Symposium |

RSVP to buttlarw@missouri.edu , and please indicate whether you will be able to attend both the asphalt research symposium and MAPIL grand opening, or just the MAPIL grand opening. Registration is free!



MAPIL Asphalt Research Symposium

Monday, March 27th, 2017

Detailed Program

Morning Session

Recent Advances in Asphalt Materials and Pavements

Ketcham Auditorium, W1005 Lafferre Hall

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|------------------|---|
| 8:30 – 9:00 AM | Name badge pickup and continental breakfast |
| 9:00 – 9:15 AM | Bill Buttlar, Professor and Glen Barton Chair in Flexible Pavements
<i>Welcome and Introduction to Mizzou and Pavements Program</i> |
| 9:15 – 9:35 AM | Herve DiBenedetto, Professor, University of Lyon/ENTPE, France
<i>Advanced Viscoelastic Constitutive Modeling of Bituminous Materials</i> |
| 9:35 – 9:50 AM | Huiming Yin, Professor, Columbia University, New York
<i>Advances in Sustainable Infrastructure Materials</i> |
| 9:50 – 10:05 AM | Eshan Dave, Assistant Professor, University of New Hampshire
<i>Performance Testing and Modeling of Sustainable Asphalt Materials</i> |
| 10:05 – 10:25 AM | Armelle Chabot, Professor and Director, IFSTTAR, France
<i>An Overview of IFSTTAR's Advances in Modeling Pavement Structures</i> |
| 10:25 – 10:40 AM | Behzad Behnia, Assistant Professor, University of Western Massachusetts
<i>Non-destructive Testing of Asphalt using Acoustic Emissions</i> |
| 10:40 – 10:55 AM | Dan Work, Assistant Professor, University of Illinois
<i>Heterogeneous Vehicle Effects on Traffic Flow</i> |
| 10:55 – 11:15 AM | Glaucio Paulino, Raymond Allen Jones Chair, Georgia Tech
<i>Advances in Computational Modeling of Pavements</i> |
| 11:15 – 11:35 AM | Bill Vavrik, Vice-President, Applied Research Associates
<i>Developing a Culture of Innovation in Your Organization</i> |
| 11:35 – 11:40 AM | Symposium Wrap-up |
| 11:45 – 12:45 PM | Lunch at 'Ingredient' Restaurant, 304 South 9 th Street, Columbia, MO |

MAPIL Asphalt Research Symposium, Afternoon Session

History and Challenges in Asphalt Materials and Flexible Pavements in Missouri/Midwest
Ketcham Auditorium, W1005 Lafferre Hall

- 3:00 – 3:10 PM Bill Buttlar, Professor and Glen Barton Chair in Flexible Pavements
Zack Hu, Professor and Chair, MU Department of Civil and Env. Engineering
Department Welcome and Introduction to Afternoon Symposium Session
- 3:10 – 3:20 PM Dale Williams, Executive Director, Missouri Asphalt Pavement Association
MAPA Update and Asphalt Industry Perspective
- 3:20 – 3:35 PM Dave Ahlvers, State Construction and Materials Engineer, MoDOT
MoDOT Update and Perspectives
- 3:35 – 3:50 PM Mike McGee, Pavement and Materials Engineer, FHWA Missouri Division
FHWA Update and Perspectives
- 3:50 – 4:05 PM Amir Alavi, Post-Doctoral Research Fellow, University of Missouri
Advances in Battery-Free, Wireless Sensing in the 'IOT'
- 4:05 – 4:15 PM Michael DeMers, Director, MoDOT Innovative Partnerships & Alternative Funding
Challenges and Opportunities in Transportation Funding and Innovation
- 4:15 – 4:35 PM Marshall Thompson, Professor Emeritus, University of Illinois
M-E Flexible Pavement Design – Challenges and Issues
- 4:35 – 4:55 PM Jay Behnke, President, S.T.A.T.E. Testing, LLC
Industry-Agency-Academic Research Partnership Success Stories
- 4:55 – 5:10 PM Barry Dempsey, Professor Emeritus, University of Illinois
'Skunkworks' Approach to Innovative Research
- 5:10 – 5:15 PM Closure of MAPIL Grand Opening and Asphalt Research Symposium