TRB AFD00 Activities

Steven Tritsch, CP Tech Center
South East States Pavement Conference
October 25, 2018
The rumors of her working on her Halloween Costume are false - it is done – she’s going as an HOV lane.... again
The truth is she is masquerading as a Teacher, teaching Engineering Economics to Georgia Tech undergrads.
Overview

• TRB Pavements Section (AFD00)
  – Recent Changes
  – What’s Coming
• AFD50 Design and Rehabilitation of Concrete Pavements
  – Recent Activities
  – What’s Coming
• TRB Annual Meeting
  – SAGE & Editorial Manager
  – 100th Anniversary
Recent Pavement Section Reorg

• Name changed from Pavement Management to “Pavements”
  – New Section Chair: Bouzid Choubane, FLDOT

• Rehabilitation Committee split into Asphalt and Concrete Rehab and added to Design Committees

• New Committee: AFD30: General and Emerging Pavement Design
  – New Committee Chair: Gerardo Flintsch, VT
The Pavements Section is part of the Design and Construction Group. It consists of eight committees that propose research, share research findings, sponsor special activities, and provide a forum for transportation professionals to discuss today's and tomorrow's pavement related transportation issues. The chairs of each of these committees are members of the Pavements Section Executive Board, who along with the section chair, provide general oversight of the activities within the Section.
# Pavements Section Committees

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFD10</td>
<td>Pavement Management Systems</td>
</tr>
<tr>
<td>AFD20</td>
<td>Pavement Condition Evaluation</td>
</tr>
<tr>
<td>AFD30</td>
<td>General and Emerging Pavement Design</td>
</tr>
<tr>
<td>AFD40</td>
<td>Full-Scale Accelerated Pavement Testing</td>
</tr>
<tr>
<td>AFD50</td>
<td>Design and Rehabilitation of Concrete Pavements</td>
</tr>
<tr>
<td>AFD60</td>
<td>Design and Rehabilitation of Asphalt Pavements</td>
</tr>
<tr>
<td>AFD80</td>
<td>Pavement Structural Modeling and Evaluation</td>
</tr>
<tr>
<td>AFD90</td>
<td>Pavement Surface Properties and Vehicle Interaction</td>
</tr>
</tbody>
</table>
Each TRB committee can include the following:

- 25 Main Members (chair included)
- 5 additional slots (above the 25 member cap) for international members (non-U.S.)
- 4 additional slots (above the 25 member cap) for "young" members (35 years or younger)
- 2 additional slots (above the 25 member cap) for employees of state DOTs

- 36 total members possible
New Activities in the Pavements Section (AFD00)

- New Poster Awards

- Potential New Young Members Subcommittee for the Section
New Poster Awards in Pavement Section

The Committees in the Pavement Section will identify a best poster and recognize the winners at the Annual Meeting Committee meetings.
# Poster Judges Form (Draft)

<table>
<thead>
<tr>
<th>Subject Matter &amp; Scientific/Engineering Merit</th>
<th>Score (1 = Poor; 3 = Satisfactory; 5 = Excellent)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Descriptive Title</td>
<td>1  2  3  4  5</td>
</tr>
<tr>
<td>Introduction/Background</td>
<td>1  2  3  4  5</td>
</tr>
<tr>
<td>Objectives</td>
<td>1  2  3  4  5</td>
</tr>
<tr>
<td>Methodology/Approach</td>
<td>1  2  3  4  5</td>
</tr>
<tr>
<td>Results</td>
<td>1  2  3  4  5</td>
</tr>
<tr>
<td>Originality</td>
<td>1  2  3  4  5</td>
</tr>
<tr>
<td>Conclusions &amp; Recommendations</td>
<td>1  2  3  4  5</td>
</tr>
<tr>
<td>Significance of Work</td>
<td>1  2  3  4  5</td>
</tr>
</tbody>
</table>

**Category Subtotal =  / 40**

<table>
<thead>
<tr>
<th>Poster Style, Organization &amp; Visuals</th>
<th>Score (1 = Poor; 3 = Satisfactory; 5 = Excellent)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Organization &amp; Flow</td>
<td>1  2  3  4  5</td>
</tr>
<tr>
<td>Overall Visual Appeal</td>
<td>1  2  3  4  5</td>
</tr>
<tr>
<td>Legibility</td>
<td>1  2  3  4  5</td>
</tr>
<tr>
<td>Figure and Table Usage</td>
<td>1  2  3  4  5</td>
</tr>
<tr>
<td>Message</td>
<td>1  2  3  4  5</td>
</tr>
<tr>
<td>Volume of Material</td>
<td>1  2  3  4  5</td>
</tr>
</tbody>
</table>

**Category Subtotal =  /30**

<table>
<thead>
<tr>
<th>Presentation</th>
<th>Score (1 = Poor; 3 = Satisfactory; 5 = Excellent)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engagement with audience</td>
<td>1  2  3  4  5</td>
</tr>
<tr>
<td>Clear, concise delivery</td>
<td>1  2  3  4  5</td>
</tr>
<tr>
<td>Question/Answer</td>
<td>1  2  3  4  5</td>
</tr>
</tbody>
</table>

**Category Subtotal =  /15 X 2 =  /30**
TRB looking to Younger Members

• New Young Members Council

• New Young Members Subcommittee for the Pavement Section proposed

• Remember- 2 additional slots for young members on each Committee (young < 35)
2019 TRB Annual Meeting Activity in Pavements

– Sunday Workshops
  • Automated Pavement Cracking Data Collection/Analysis
  • Cold Asphalt Recycling
  • Traffic Speed Deflection
  • Pavement Smoothness
  • Porous Pavements

– Thursday Workshops
  • Pavement Performance Data Analysis (old DAWG)
  • Asphalt Mixture Mechanistic Properties
2019 TRB ANNUAL MEETING

TRANSPORTATION FOR A SMART,
SUSTAINABLE, AND EQUITABLE FUTURE

AFD50 Design and Rehabilitation of Concrete Pavements
AFD50 2018/9 Paper Activity

• 15 papers reviewed
• 9 papers presented
• 3 papers recommended for publication

– Finite Element Modeling
– New Faulting Model for Pavement-ME
– Variety of Other issues: RCC (roller compacted concrete), RCA (recycled concrete aggregate), 2-Lift concrete pavements, CRCP
2018 MID-YEAR MEETING
Mid-Year meeting

• Held with Wisconsin DOT
• Included tour of Interstate construction site
• Many Thanks to Wisconsin DOT and Wisconsin ACPA for supporting the meeting!
New Subcommittee Chair:

Dr. Julie Vandenbossche
University of Pittsburgh

AFD50(1)

SUBCOMMITTEE ON ADVANCED CONCRETE PAVEMENT MODELING
FHWA Concrete Updates

• Webinars on TRB website
  – Internal Curing
  – Bases/Subbases for Concrete Pavements
  – Permeable Concrete Pavements
  – Roller Compacted Concrete
  – Rigid Pavement Rehabilitation

• You Tube videos coming!
  – Series of 10 videos (15 to 30 min) on selected topics now in production
FHWA Mobile Testing Trailers –
New Web Pages

• Mobile Concrete Trailer –

• Mobile Asphalt Trailer –
  https://www.fhwa.dot.gov/pavement/asphalt/trailer/index.cfm
TRB will be celebrating it’s 100 Year Anniversary in 2020
TRB/SAGE/Editorial Manager

• SAGE is the new publisher of TRR
  – Expect to improve the usefulness of TRR
• TRB changed the paper review process to Editorial Manager
  – Editorial Manager is used by the major Civil Engineering journals

  – Some hiccups this first year- but it will get better!
Academic Interest- Impact Factors

• 2017 Impact Factors were released by Clarivate Analytics, and TRB is happy to report that the TRR’s has risen to an all-time high of 0.695.

• Especially interesting is the 5-Year Impact Factor, which is 0.954.
See you at TRB 2019!
Jon Epps will be giving the Thomas B. Deen Distinguished Lecture

January 13-17, 2019
Washington, D.C.