Research & Technology

- Pavement Economics Committee
  - 4 Task Groups

- Other Research
  - Asphalt Institute
  - NCAT

Future Research

Market Research & Communications

- Go-To-Market Task Group

Deployment Activities

- Deployment Task Group

ASPHALT PAVEMENT ALLIANCE
A Moment Can Save a Life

Every year more than 600 people are killed in roadway work zones. Construction companies are dedicated to ensuring the safety of their workers and the driving public. Roadway work zones use a variety of warning systems, barriers, and other traffic controls to make certain drivers and work zones stay separated, but it just takes a moment of distraction for an accident to happen and for lives to be changed forever.

This is one such story.
Regional Initiatives

• **Life Cycle Cost Analysis**

• **Rehab Competition**
  – GOAL: Create competitive industry message promoting best HMA practices.

• **Proper Design Thickness**
  – GOAL: Promote initiatives designed to teach designers how to optimize pavement design while ensuring performance.

• **Commercial Market Strategy**
  – GOAL: Implement tools designed to enhance market share in private sector market.
WARNING!

Full Disclosure and Transparency

AMERICA RIDES ON US
It’s All about the Message!

What is OUR Message!!
Action LCCA

Presentations at SAPA Annual Meetings (general sessions) on LCCA

- Deploy Educational PowerPoint on LCCA Recommended Practices
- Prepare and conduct an APA update on the top three national initiatives: LCCA, PaveXpress, and Commercial Markets

Meetings with DOTs, appointees, and owners on LCCA in conjunction with industry partners

Understand the LCCA challenges and opportunities in the Northcentral regional states and develop plan with deliverables
Review of Initial Service Life Determination in LCCA Procedures and In Practice – TRB 2018

Summary of Middle 90% of Pavement Ages at Time of 1st Rehab

<table>
<thead>
<tr>
<th>Pavement Type</th>
<th>No.</th>
<th>Avg</th>
<th>Min</th>
<th>Max</th>
<th>Std Dev</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC</td>
<td>206</td>
<td>17.68</td>
<td>7.09</td>
<td>28.93</td>
<td>5.51</td>
</tr>
<tr>
<td>PCC</td>
<td>121</td>
<td>23.84</td>
<td>12.88</td>
<td>35.44</td>
<td>5.79</td>
</tr>
</tbody>
</table>

Ride Quality (IRI) Prior to Rehabilitation

<table>
<thead>
<tr>
<th>Pavement Type</th>
<th>Very Good**</th>
<th>Good 61 – 95</th>
<th>Fair 96 – 120</th>
<th>Poor 21 – 170</th>
<th>Very Poor &gt; 170</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC Pavements</td>
<td>9.6%</td>
<td>34.3%</td>
<td>24.1%</td>
<td>17.5%</td>
<td>14.5%</td>
</tr>
<tr>
<td>PCC Pavements*</td>
<td>1.1%</td>
<td>23.3%</td>
<td>26.7%</td>
<td>34.4%</td>
<td>14.4%</td>
</tr>
</tbody>
</table>
#2 Rehab Competition
GOAL: Create competitive industry message promoting best HMA practices.

Specific to NC Region Initiative
Action #3 Pavement Design Initiative

STRATEGIC AREA 2 – PAVEXPRESS

Objective: Expand the use of the PaveXpress software by pavement designers.

Means to achieve:
Use PaveXpress to open discussions about structural number and proper design thicknesses in the APA Northcentral, Northeast, and Southeast regions.
PaveXpress Training

Learning Pavement Design with PaveXpress

The PaveInstruct learning module is a web-based pavement design education system with video instruction by leading industry experts. PaveInstruct accompanies Pavexpress, a web-based software created to design flexible and rigid pavements using AASHTO 93/98. The education modules within PaveInstruct correlate with the design modules in Pavexpress and provide technically sound pavement design and instruction.
What does Optimized Design mean?

<table>
<thead>
<tr>
<th>SN Value .52</th>
<th>SN Value .44</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface (AC)</td>
<td>2.00&quot;</td>
</tr>
<tr>
<td>Binder/Intermediate</td>
<td>2.00&quot;</td>
</tr>
<tr>
<td>Base (AC)</td>
<td>1.50&quot;</td>
</tr>
<tr>
<td>Aggregate Base</td>
<td>6.00&quot;</td>
</tr>
<tr>
<td>Subbase</td>
<td></td>
</tr>
</tbody>
</table>

20% Savings

| Surface (AC) | 2.00" |
| Binder/Intermediate | 2.00" |
| Base (AC) | 3.00" |
| Aggregate Base | 6.00" |
| Subbase       |      |
Action #4 Commercial

STRATEGIC AREA 3 – COMMERCIAL

Objective: To work with industry and SAPA members to develop national relationships that create opportunities to advocate for the effective use of asphalt.

- Work with state execs and contractors to implement PEC material geared to the commercial market.
Asphalt: The Smoothest Way to Welcome Customers

Whether at a business, a shopping center, a mall, house of worship, recreation area, or apartment building, a Parking Lot is one of the first things a person sees when arriving at their destination. First impressions matter, and a poorly constructed or maintained lot can reflect negatively on an establishment. A well-maintained parking lot is also safer and easier for both pedestrians and drivers to navigate.

Asphalt pavements are the superior choice for parking lots because they are quick to construct, long-lasting, sustainable and easy and cost-effective to maintain. Plus, because asphalt is everywhere, there are qualified and capable asphalt paving companies in every community across the nation.

SPEED OF CONSTRUCTION

Construction and maintenance activities can be done quickly and at sight, which eliminates inconvenience for customers and business operations.

PERFORMANCE

Long-lasting asphalt pavements are designed in layers so that they never need full-depth repair or reconstruction.

AESTHETICS

A business's exterior appearance influences the decision of where to shop for 95% of consumers.1

Asphalt Welcomes

- An asphalt parking lot allows an owner to keep their “welcome mat” crisp and inviting.
- Long-term serviceability is easily and quickly maintained when utilizing asphalt pavements.
- Asphalt pavements are extremely versatile and can be easily adapted to suit any pavement application.
- Asphalt is the most recycled product in the world.
- Asphalt parking lots are economical and can be used in light and heavy-duty applications.

Contact us today for assistance.

Asphalt: The Right Choice

- Proper Design
- Construction Expertise
- Timely Maintenance
- Cost Effective
- Long-term Durability

Agenda

- 7 Keys to Success
- Critical Pavement Design
- Reconstruction
  - When
  - How
- Porous Asphalt
- LEED and Sustainable Practices
Upcoming Commercial Training

• Professional Instructor’s
  - Tim Murphy PE
  - Mike Groh

• April 17-18th Chicago
  - Future locations:
    • KC and MSP

• Focus: “How To”
  - Build
  - Maintain
  - Rehabilitate
Create an Environment
Dan Staebell
APA
Northcentral Regional Director
dstaebell@asphaltroads.org
608-440-0142 Cell