National Perspective on the Asphalt Pavement Industry

Dan Gallagher
NAPA Past Chairman 2017
What NAPA Does
OVERVIEW

Protect and Gain Market Share

Represent the Industry Before Congress

Represent the Industry Before Regulatory Agencies

Advance Asphalt Technologies

Provide High Value Member Services
OVERVIEW

Protect and Gain Market Share
Represent the Industry
Before Congress
Represent the Industry
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Advance Asphalt Technologies
Provide High Value Member Services
Research & Technology
Pavement Economics Committee
- Seven Task Groups

Other Research
- Asphalt Institute
- NCAT

Future Research

Market Research & Communications
Go-To-Market Task Group

Deployment Activities
Deployment Task Group

Market Share Efforts

NAPA
State Asphalt Pavement Associations
Asphalt Institute
Financial status
$2.4 million approved
$1.997 million spent
All 39 SAPAs Supported in 2017
16 Already Pledged for 2018

Deliverables status
36 projects in total
19 of the projects are complete;
10 are near completion
PEC Task Group Structure

Mixture Quality & Performance
- Best Quality & Competitiveness
- Pavement Preservation
- Private Sector Markets & Local Roads

Life Cycle Cost Analysis
- Pavement Design
- Pavement Type Selection

Life Cycle Assessment
- Environmental Sustainability

Legislative

NAPA
National Asphalt Pavement Association
Competitive Advantages

- Smoothness
- Noise
- Safety
- Sustainability
- Construction

Drivability Program (Brand Management)
The APA is a partnership of the Asphalt Institute, National Asphalt Pavement Association, and the State Asphalt Pavement Associations.

- Bridges National and State Efforts
- Providing Resources
- Connects With Experts
- Communicates Local Needs

National Director
Amy Miller, P.E.
Five regional councils focused on what works in the field to the benefit of the asphalt pavement industry locally and nationally.
OVERVIEW

- Protect and Gain Market Share
- Represent the Industry Before Congress
- Represent the Industry Before Regulatory Agencies
- Advance Asphalt Technologies
- Provide High Value Member Services
• FY 2018 Highway Funding
• Trump Infrastructure Plan
• Federal Aviation Administration Reauthorization
• Advocate for pavement neutrality and state autonomy on pavement-type selection and pavement design issues
Contribute to the NAPA PAC

The NAPA PAC:

- Is the only political action committee in Washington, D.C., representing the asphalt industry before Congress
- Focuses on electing and re-electing members of Congress who understand and support the asphalt pavement industry
- Maximizes the asphalt industry’s political muscle and strengthens our collective voice
2018 TCC FLY-IN
MAY 15-17, 2018

TCC Legislative Fly-In
OVERVIEW

Protect and Gain Market Share
Represent the Industry Before Congress
Represent the Industry Before Regulatory Agencies
Advance Asphalt Technologies
Provide High Value Member Services
Online Training
• Backovers/Runovers
• Internal/External Traffic Controls
• Differentiated Content
• Launching 2018
OVERVIEW

- Protect and Gain Market
- Represent the Industry
- Share

- Provide High Value Member Services
- Advance Asphalt Technologies
- Represent the Industry Before Congress
- Before Regulatory Agencies
Road Owner’s Top-Three Priorities

- Durability: 67%
- Life-Cycle Costs: 59%
- Performance: 52%
- Maintenance Costs: 31%
- Initial Cost: 29%
- Safety: 18%
- Smoothness: 16%
- Traffic Delay for Installation: 15%

What do Owners Want?
# Pavement Performance

<table>
<thead>
<tr>
<th>The Issues</th>
<th>The Strategy</th>
<th>The Focus</th>
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<tbody>
<tr>
<td>Long-term funding and lack of proper funding for preservation and maintenance</td>
<td>Pavement Performance Task Group</td>
<td>Refocused Engineering Committee</td>
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<tr>
<td>Possible dry mixtures with low asphalt content</td>
<td>Issues and Industry Strategies</td>
<td>Focus on Durability in Partnership with FHWA &amp; SAPAs</td>
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<tr>
<td>Construction practices, lack of inspection, and need for training.</td>
<td>Partnerships</td>
<td>Rethinking Asphalt Mixture Design &amp; Simplifying Specifications</td>
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<tr>
<td></td>
<td>Recommendations for Ensuring Durability</td>
<td>TRB Workshop</td>
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<td>NAPA Workshop</td>
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<td>FHWA Task Group</td>
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A performance-based system based on engineered solutions for the pavement industry, eventually replacing the current recipe or method-based specification system.

But for now, the focus is on “balanced” mix design.
Back to Basics
Asphalt

13 Webinars — 19.5 PDHs
From Materials and Mix Design to Construction and Maintenance
Available for On-Demand Use

www.AsphaltPavement.org/webinar
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Programs at NAPA

Diamond Commendations

Quality in Construction Operational Excellence

Awards & Commendations
## Environmental Facts

**Functional Unit:** 1 metric ton of Asphalt Cement

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
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<tbody>
<tr>
<td>Primary Energy Demand (MJ)</td>
<td>$4.0 \times 10^8$</td>
</tr>
<tr>
<td>Non-Renewable Energy (MJ)</td>
<td>$3.9 \times 10^8$</td>
</tr>
<tr>
<td>Renewable Energy (MJ)</td>
<td>$5.5 \times 10^1$</td>
</tr>
<tr>
<td>Global Warming Potential (kg CO$_2$eq)</td>
<td>79</td>
</tr>
<tr>
<td>Acidification Potential (kg SO$_2$eq)</td>
<td>0.23</td>
</tr>
<tr>
<td>Eutropication Potential (kg Neq)</td>
<td>0.012</td>
</tr>
<tr>
<td>Ozone Depletion Potential (kg CFC-11eq)</td>
<td>$7.3 \times 10^{-9}$</td>
</tr>
<tr>
<td>Smog Potential (kg O$_3$eq)</td>
<td>4.4</td>
</tr>
</tbody>
</table>

**Boundaries:** Cradle-to-Gate  
**Company:** XYZ Asphalt  
**RAP:** 10%

[www.AsphaltPavement.org/EPDs](http://www.AsphaltPavement.org/EPDs)
NAPA Care Benevolent Fund

- Provides an immediate, tax-free benefit of $5,000 to the family of a NAPA member company employee fatally injured on the job.
- Since 2012, 27 families have received the benefit to use on any expenses they incur during this tragic time in their lives.
- In 2017, the generous support of NAPA members permanently endowed the program.
THE 1st INTERNATIONAL CONFERENCE ON STONE MATRIX ASPHALT

Nov. 5 – 7, 2018 • Atlanta

www.AsphaltPavement.org/SMAconference

Stone Matrix Asphalt Conference
STRENGTHEN YOUR COMPANY & THE INDUSTRY

NAPA is the premiere voice for the asphalt pavement industry, exclusively representing pavement material producers and pavement contractors before Congress, government agencies, and other national trade and business organizations.

NAPA supports an active research program designed to answer engineering questions and environmental issues, as well as to improve the quality of asphalt pavements and paving techniques for members.

www.AsphaltPavement.org/JoinNAPA
BY JOINING NAPA, YOU:

- **Expand your staff** with direct access to engineering, environmental, health & safety, legislative, and communications professionals

- **Get ahead of the innovation curve** with advance knowledge of new technologies, techniques, and practices that improve product quality and operational efficiency

- **Protect your investment** in your company from competitive and regulatory threats
LESS THAN 2¢ PER TON

NAPA membership dues should be considered part of your operational costs, not overhead.

It costs less than 2¢ per ton to stay smarter than the competition and to perform at the level you should.
Thank you very much