

Asphalt Pavement Alliance

Update

Buzz Powell

Asphalt Pavement Alliance

Seek first assistance, support from your SAPA, then APA...

Deploy effective resources directly to marketplace

Strengthen fact focused relationships between decisionmakers, owners, agencies, and industry

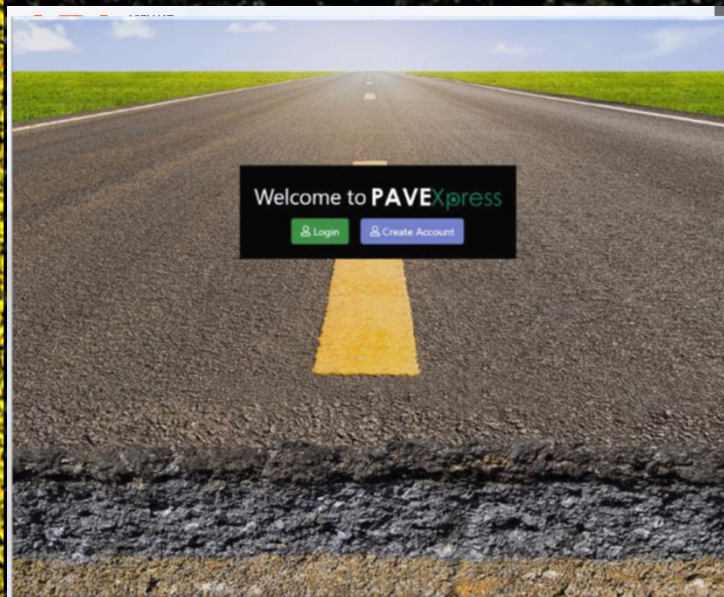
3 pillars = innovation, collaboration, and education

Technical competence and trust with community

Support and promote quality asphalt pavement!



APA Online Resources



RESOURCES

EVENTS & TRAINING

AWARDS

CONTACT US



PAVEEXPRESS

PAVEINSTRUCT

PERPETUAL PAVEMENT

COMMERCIAL APPLICATIONS

LIBRARY

Association, and
Associations.

asphalt as the pavement of
pavement in the areas of
ent.

- Roadways
- Parking Lots
- Airports
- Racetracks



SUSTAINABILITY

Asphalt: *The Sustainable Material*



APA Online Resources

HOME > RESOURCES > LIBRARY > PUBLICATIONS

APA ASPHALT PAVEMENT ALLIANCE

NAPA NATIONAL ASPHALT PAVEMENT ASSOCIATION

XBE

Publications

PUBLICATIONS
PAPERS
INFOGRAPHICS
VIDEOS

Welcome to Hey NAPA

What asphalt pavement questions can I answer for you?

Search input field with search icon

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Search bar

Facility

Record

APA ASPHALT PAVEMENT ALLIANCE

APA Team



Reed Ryan – Executive Director



Buzz Powell – Technical Director



Michelle Kirk – Director, Alliances and Awards



Brittyn Heisler – Deployment Manager



Buzz



12 years Alabama Department of Transportation



2 years in the private sector supporting contractors



24+ years with NCAT at the Pavement Test Tack



APA Technical Director since November 1, 2024.



Practical Research

- Mix/materials – meeting specific needs of each layer
- Thickness design – preventing non-surface cracking
- Preservation – safe, durable, renewable surface.

NCAT Pavement Test Track



APA Technical Director

- Improve the quality of asphalt pavement
- Collaborate with partners and stakeholders
- Support strategic innovation deployment
- Provide technical support to industry, agencies
- Deliver relevant and timely education content
- Promote safe, sustainable, affordable asphalt

“SUPPORT AND PROMOTE QUALITY ASPHALT!”



Quality Improvement



Pavement management systems decade after 2008...



Help states implement the right kind of change



Promote real innovation opportunity for industry



We know how to build long lasting asphalt roads!



Level playing field for competitive bidding, building



Require quality without tying contractors' hands.



Collaboration

- Groups representing industry partners
 - NAPA has the big picture vision, focus on issues
 - SAPAs for local concerns, varied view of market
 - AI for both liquid and emulsified asphalt suppliers
- Agency stakeholders at all levels, all sizes, funding
 - State departments of transportation, highways
 - Federal Highway Administration
 - Local governments in cities, counties.



Innovation Deployment



Facilitate the right kind of change in practice



Focus on mix produced in plant placed on roadway



Mistake to start with mechanistically elegant solution



From QC laboratory to mix design to DOT approval



Concise specification that agency can enforce



Certainty of bidding and building a profitable project.



Technical Support

- Mix/materials, thickness design, preservation
- Design alternatives on the front end of projects
- Forensics if negative outcomes are encountered
- Specification recommendations (construction focus)
- Experiences with innovation, products, technologies
- Cautionary tales to avoid making similar mistakes.

Education



Presentations on select topics at annual meetings



Conventional APA webinars (relevant, timely topics)



Monthly implementation webinars with NCAT



Lunch-and-learn virtual meetings on demand



One-on-one meetings on specific technical topics.



FROM RESEARCH TO IMPLEMENTATION

WEBINAR SERIES













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Mar. 21, 2024
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2024 Implementation Webinars

-  Jan: ~~Expanded Use of Locally Available Virgin & Recycled Aggregates~~
-  Feb: ~~Selecting the Best Mix for Each Layer in a Pavement Structure~~
-  Mar: Performance Potential of Quality Asphalt Thinlays
-  Apr: Asphalt Use for Sports Courts, Trails, Other Non-Traditional Apps
-  May: Practical Forensics for Asphalt Pavements
-  Jun: Significant Findings from the 2021 NCAT Pavement Test Track
-  Jul: Thicklay Paving for Expedited Construction
-  Aug: Asphalt Based Enhanced Friction Surface
-  Sep: Producing 100% RAP Mix Using a Cold Hot-Mix Plant
-  Oct: PaveXPress and PerRoad for Simplified Pavement Thickness Design
-  Nov: BMD Lessons, Tips, and Benchmarking
-  Dec: Interlayers to Prevent Reflective Cracking.



Specifications



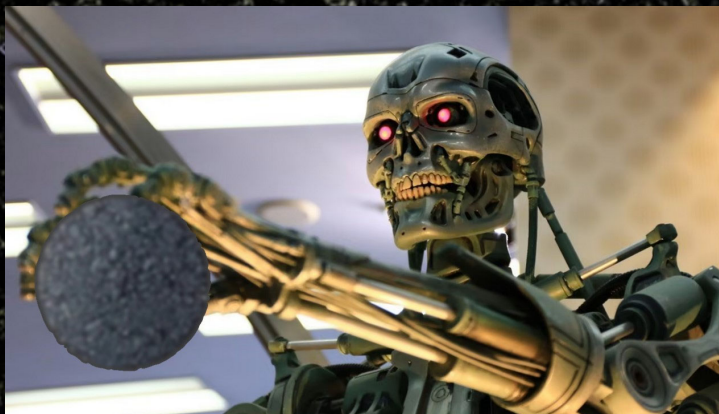
Ensure performance for taxpayers (agencies)



Streamline the testing process (workforce)



Create opportunities for innovation (contractors).



Ensuring Mix Quality

- Legacy volumetrics developed for virgin, neat
- Modern mixes w/ RAP, RAS, polymer, additives, etc.
- Confounding effect of true versus assumed Gsb
- Gsb can be estimated via a Gse mix design offset
- Legacy volumetric tools for mix optimization, but...
- Need for spec compliance rapid BMD index testing
- Monotonic mix brittleness tests tend to correlate
- In other words, low IDEAL-CT \propto low IFIT.

Takeaways



APA exists as a resource for the asphalt community



Buzz is here to support quality asphalt pavement



3 pillars = innovation, collaboration, and education



Safe, sustainable pavement at lowest life cycle cost!



Questions?

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