

The Road Ahead: NAPA Update – EH&S Challenges



Howard Marks

NAPA Vice President – EH&S





NAPA
NATIONAL ASPHALT
PAVEMENT ASSOCIATION

OUR MISSION:

To **advance the asphalt pavement industry** through leadership, stewardship, and member engagement.

OUR VISION:

Sustainable transportation infrastructure that paves the way for thriving communities and commerce.

PENNSYLVANIA MEMBERS



Gold Club (50+ Years)



30-Plus Club

- Joseph McCormick Construction
- Meeker Equipment Co. Inc.
- New Enterprise Stone & Lime
- Riverside Materials Inc.
- Russell Standard

State Advisor

Owen McCormick, Joseph McCormick Construction Co.

Members

- Abatech, Inc.
- ABE Materials - Easton
- Allan Myers
- Allegheny Asphalt Manufacturing Inc.
- Architectural Stone
- Bechtelsville Asphalt
- Berks Products Corporation
- Bishop Brothers Construction
- Blaw Knox
- Calvin C. Cole, Inc.
- CertainTeed, LLC
- Charlestown Paving & Exc., Inc.
- Glenn O. Hawbaker Inc.
- Golden Eagle Construction Co. Inc.
- Grannas Bros. Stone & Asphalt Co. Inc.
- H&K Group
- Harsco Environmental
- Heidelberg Materials East
- Highway Materials Co. Inc.

PENNSYLVANIA MEMBERS



Members

- Hillsville Asphalt Plant
- Homer City Asphalt Plant
- HRI Inc. Corporate Office – State College
- IA Construction Corp. – Franklin Region
- Keystone Lime
- Koppel Asphalt Plant
- Liberty Tire Recycling LLC
- Lindy Paving Inc.
- Locust Ridge Quarry
- McMinn's Asphalt Co. Inc., A CRH Co.
- Midland Asphalt Materials Inc. - Clearfield
- Miller Materials LLC
- Multitherm LLC
- Naceville Materials JV
- Nationwide Mechanical, LLC
- Neville Island Asphalt Plant
- New Kensington Asphalt Plant
- Northeast Paving, a Div. of Eurovia Atlantic Coast
- Paratherm a division of Lubrizol
- Pennsy Supply
- Peter J. Caruso & Sons
- Pikes Creek Asphalt & Crushed Stone
- Pine Test Equipment, Inc.
- Pottstown Trap Rock-Sanatoga Quarry/Asphalt

PENNSYLVANIA MEMBERS



Members

- Pottsville Materials LLC
- Quaker Sales Corp.
- Schlouch Inc.
- Second Avenue Asphalt Plant
- Silver Hill Quarry
- South Reading Blacktop
- Silver Hill Quarry
- South Reading Blacktop
- Sterrettania Asphalt Plant
- Superior Tire & Rubber Corp.
- Trumbull Corporation
- United Employment Associates LLC
- Walter R. Earle Corp.
- Wheatland Asphalt Plant
- Wheelertown Asphalt Plant
- Wilkes-Barre Materials LLC
- Windsor Service
- York Building Products Co. Inc.
- Zelienople Asphalt Plant

Industry Pillars of Success

Strategic Plan for 2023-2025



1

LEADERSHIP



Foster increased Federal investment



Advocate for and achieve fair, competitive, science-based legislation and policies



Be the trusted, go-to organization for members, decision makers, and stakeholders

2

STEWARDSHIP



Champion the advantages of asphalt pavements



Shepherd the industry's commitment to net zero carbon emissions pavement



Demonstrate members' commitment to value and excellence

3

MEMBERSHIP



Engage and grow membership

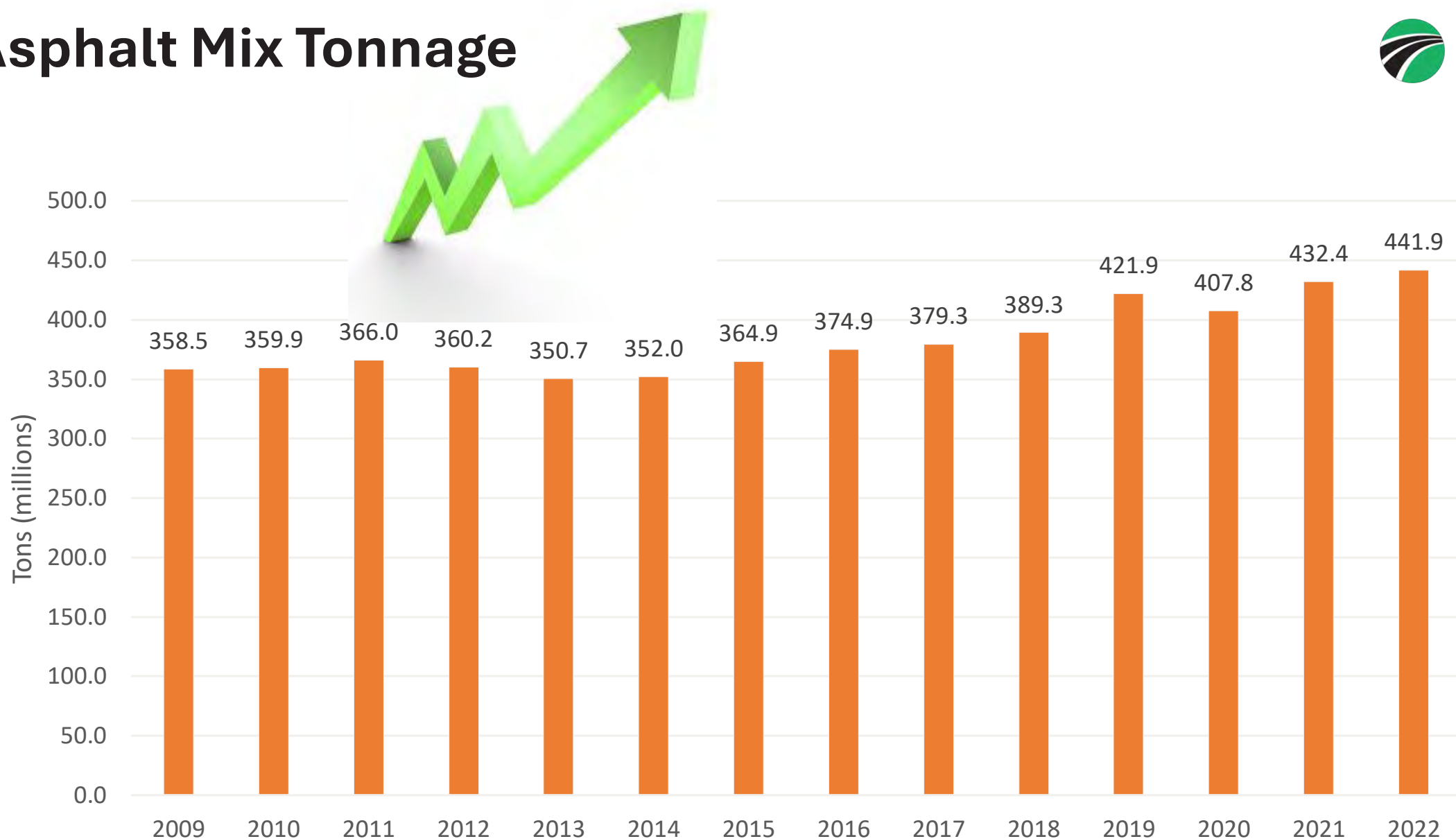


Facilitate member advancement

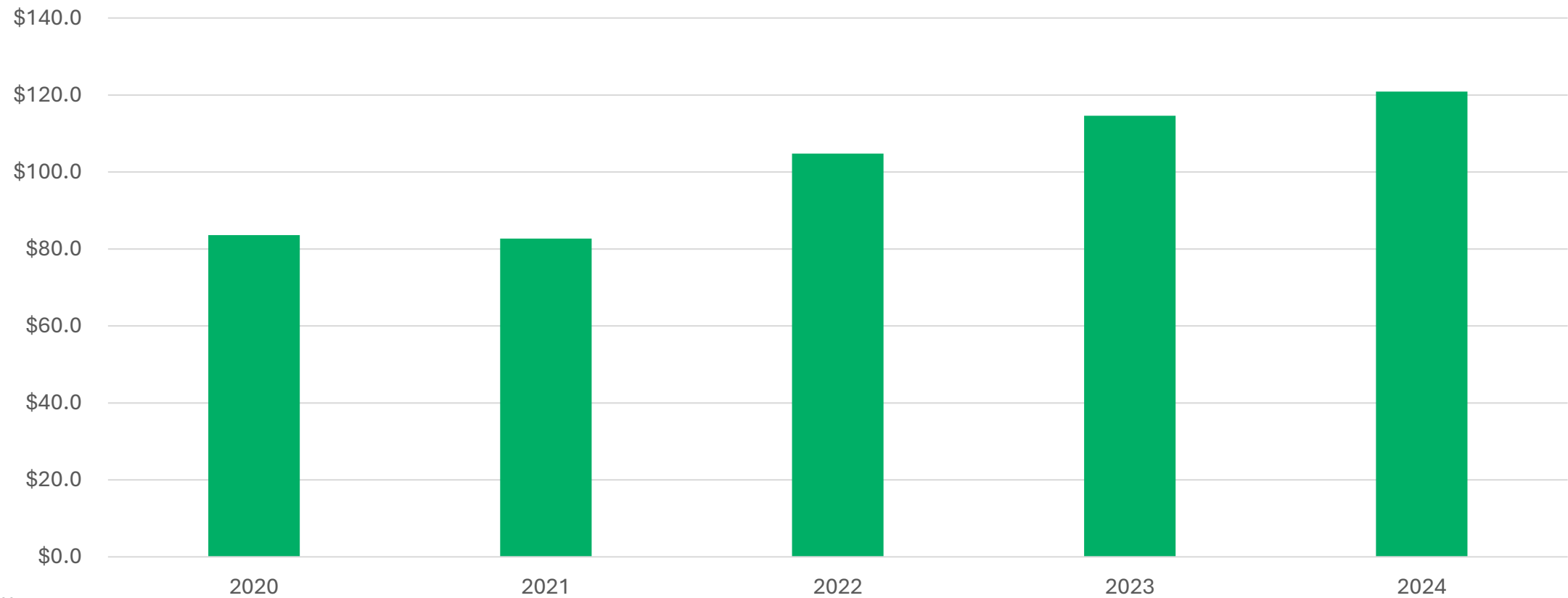


Improve and streamline association governance and operations

Asphalt Mix Tonnage



Value of U.S. State & Local Government Highway & Bridge Contract Awards



In Billions

Source: ARTBA

Legislative Priorities



- ✓ Timely Highway Reauthorization
 - Address Highway Trust Fund Insolvency - \$250 Billion shortfall
- ✓ Buy America and IIJA Implementation (& Tariffs)
- ✓ FAA Reauthorization and Airfield Pavement Technology Program (AFTP)
- ✓ Maintain Sustainability – RAP & The Road Forward
 - Advocate for increased RAP utilization
- ✓ Prioritize and Improve Work Zone Safety
- ✓ Strike PFAS Liability for Pavement Materials



Work Zone Safety Advocacy



- ✓ **Bringing WZS leadership to Capitol Hill**
 - WZS Contingency Fund (WZSCF) **implementation**
 - Appropriations language and Senate Resolution
 - Tours with Congressional Representatives
- ✓ **Kicking off the Coalition**
 - T&I hearings and stakeholder engagement
 - Congr. letter requesting FHWA status on WZSCFs
 - Participating in National Work Zone Awareness Week hosted by NC-DOT, starting Apr. 21



EH&S / Regulatory Affairs



*Protect our people and the environment,
advocate for realistic regulation,
assist with compliance obligations*

- ✓ **Administration changes will help but unlikely a panacea**
- ✓ **EPA released a flurry of regulations Nov. 5 through Jan. 19**
 - Some will be difficult to strike or claw-back
- ✓ **NAPA's EH&S Committee structure is:**
 - Health & Safety | Environmental

Health & Safety Priorities



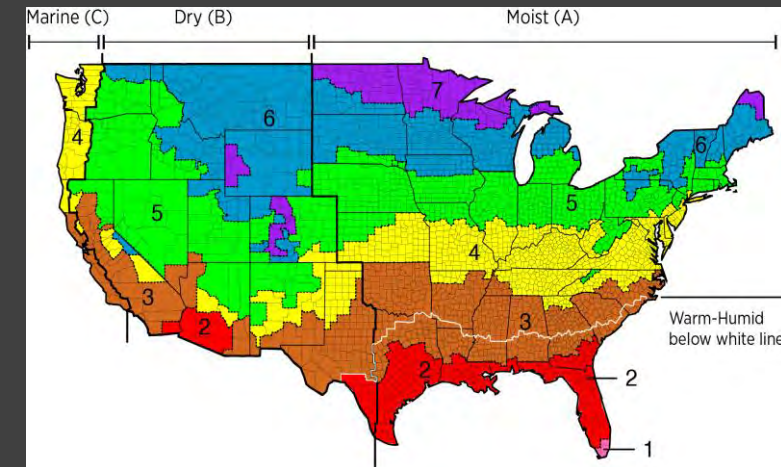
- ✓ **PRIORITIZE Work Zone Safety**
- ✓ **Increase Mental Health Awareness**
- ✓ **Facilitate Heat Illness Prevention**
- ✓ **Address, assist, and comply with Chlorinated Solvents Ban**
 - Less than ~ a dozen state DOTs require binder solvent extraction
 - QA labs will need to identify/control exposure and implement Chemical Hygiene Plan
- ✓ **Manage Vehicle Fleet / Transportation Risk**



Heat Illness Prevention

- Developed road construction worker HIPP
 - Compliant w/ NEP and state standards | practical
 - Temp / HI triggers – water / rest / shade
- NAPA commented on Proposed OSHA Standard
 - Focused on equivalent shade alternatives
- Doubtful rule survives Trump Admin

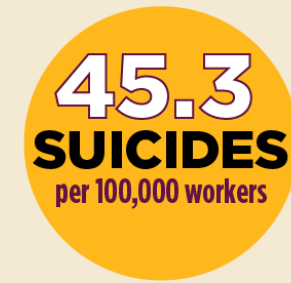
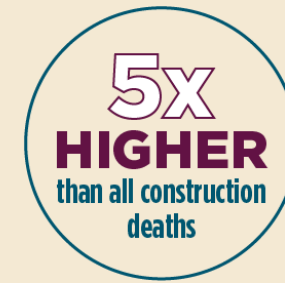
<https://www.asphaltpavement.org/expertise/health-safety/health-safety/heat-illness-prevention-plan-hipp>



Mental Health Awareness

- The construction industry has one of the highest suicide rates of all industries – for a number of reasons
- Empathy, understanding, and acknowledgement
- Understand signs/symptoms and be willing to openly discuss
- We continue to seek strong partners and provide resources

Suicides in Construction



source: CDC



PRIORITIZE: Work Zone Safety

- Provide education, training, and resources
- Participate in NWZAW / coalition activities
- Implement partnerships to overcome barriers
- Promote WZS Contingency Funds / pressure DOT
- Develop national legislative priorities



WATCH
FOR
.US



Crew
SAFETY
Work Zone Training

Chlorinated Solvent Bans – Binder Extraction

- EPA finalizes bans on use of Cl-solvents
- DCM, TCE, and PERC – w/ some exemptions
- EPA setting OELs (and monitoring reqmts)
 - EPA OELs between 10 and 10,000 times lower than OSHA's
- Prelim IH monitoring indicates additional controls needed
- Researching alternative solvents / methods – will take time
- Action: understand lab set-up & controls / monitor / manage



Environmental Regulatory Priorities



- ✓ **Manage Env Justice Impacts on Zoning and Permitting**
 - Enhancing industry community relations toolkit & best practices
- ✓ **Promote Product & Environmental Stewardship**
 - Smog research with Univ. California - Riverside
- ✓ **Path Forward on PFAS Forever Chemicals / Airfield Pavements**
 - Recycling research via FAA's AAPTP
 - Legislative advocacy
 - **Tenuous** litigation landscape



'Environmental Justice': siting (zoning, permitting, operating) mix plants



'Environmental Justice': siting (zoning, permitting, operating) mix plants



“ Judge rejects effort to shut down asphalt plant ... in Flint Mich. ” June 2023

- First time Env Justice litigated for a Minor Source
- The Case: Plaintiffs, Defendants, and Appellants
- Everybody loses & nobody's happy



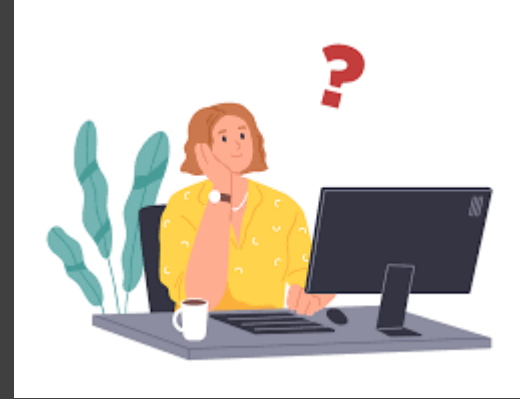
'Environmental Justice': siting (zoning, permitting, operating) mix plants

- *Env burdens / Socio-economic demographics / Ethical questions*



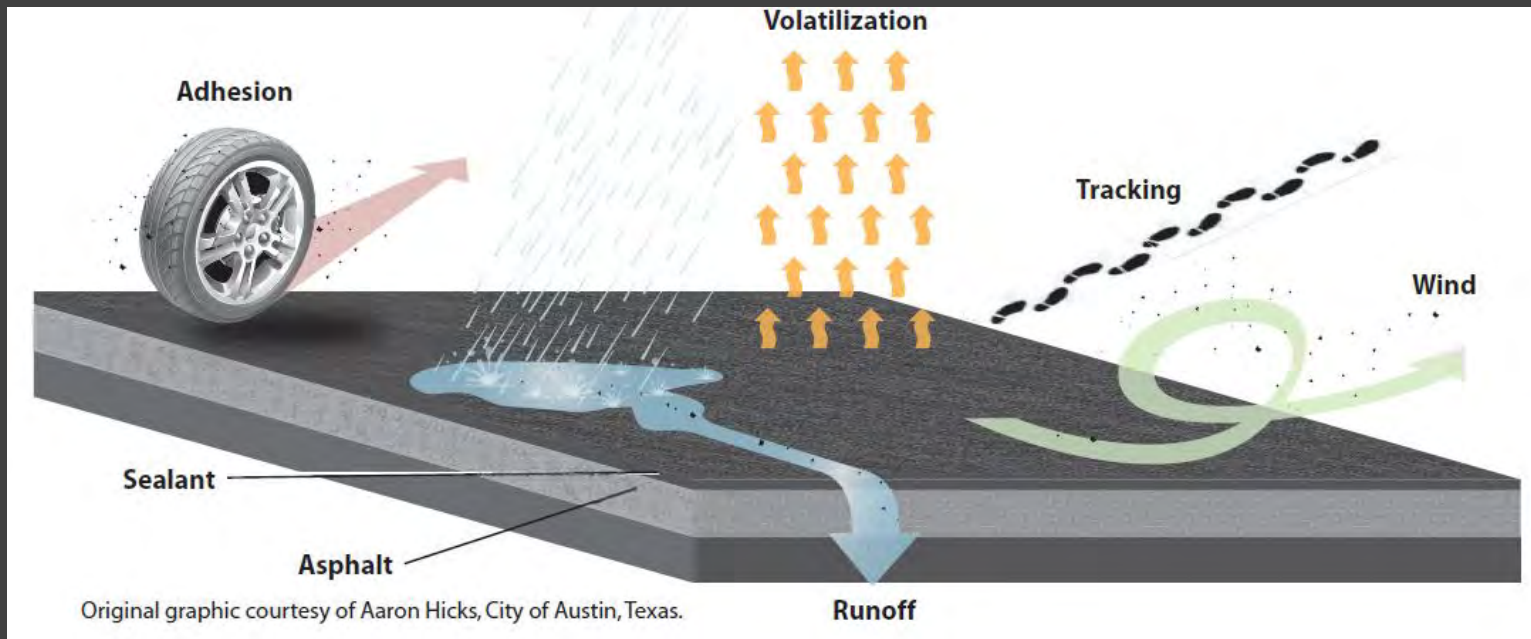
Addressing misperceptions & communicating risk

- Some people rely on the ‘internet’ as authoritative; it’s more complicated than that
- Paving and roofing asphalt are different
- Paving asphalt is classified as ‘non-hazardous’
- Asphalt is a petroleum product and may have some odor and very low emissions at high temperatures
- Mix plant emissions are from the combustion of fuel, extremely well-characterized, and amounts are similar to dry-cleaners, gas stations, restaurants, etc.



Product & Environmental Stewardship

- Leachate (RAP, in-service)
- Tire Rubber Asphalt
- In-Place Emissions



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Product & Environmental Stewardship: Leachate (RAP, in-service)

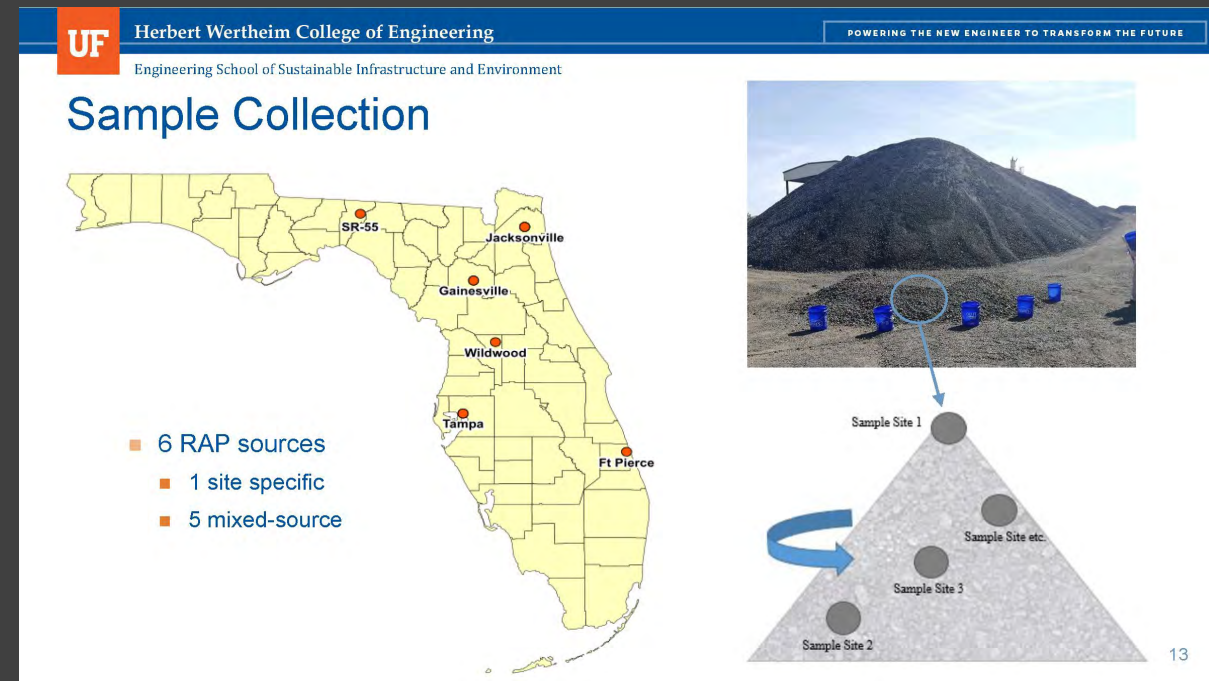
“ We might have a problem with our roads: researchers have discovered that sunlight and rain might be able to turn certain compounds in asphalt into potentially dangerous hydrocarbons, threatening surrounding environment and people ...”



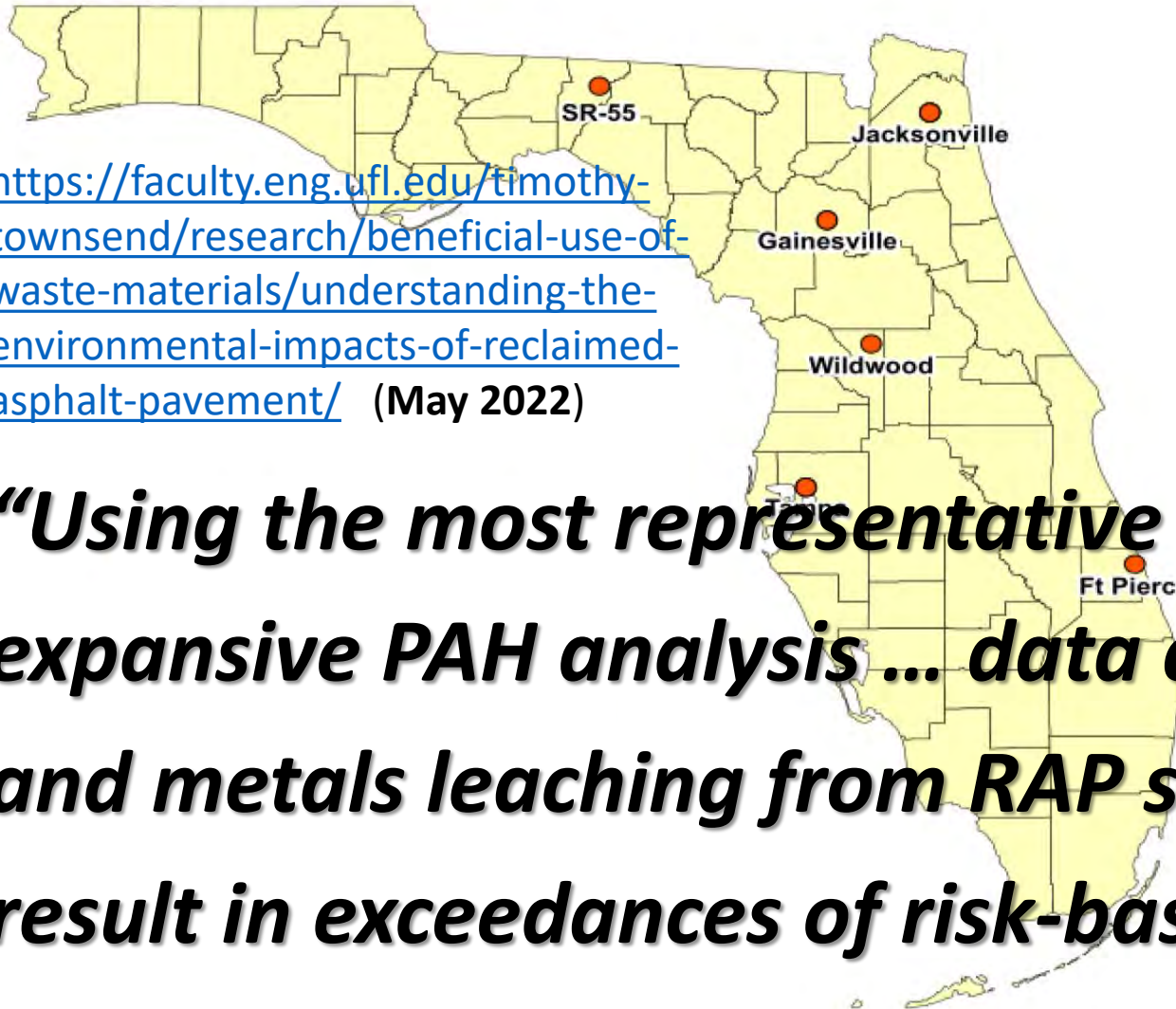
RAP Leachate: safety continues to be validated !

- Ongoing research continues to question inertness of leachate from pavement and RAP
- Asphalt is inert and waterproof
- Vehicle- and tire-wear depositions are increasingly being studied
- Recent study by Fla DOT & DEC will hopefully end uncertainty

Understanding the Environmental Impacts of Reclaimed Asphalt Pavement



Sample Collection

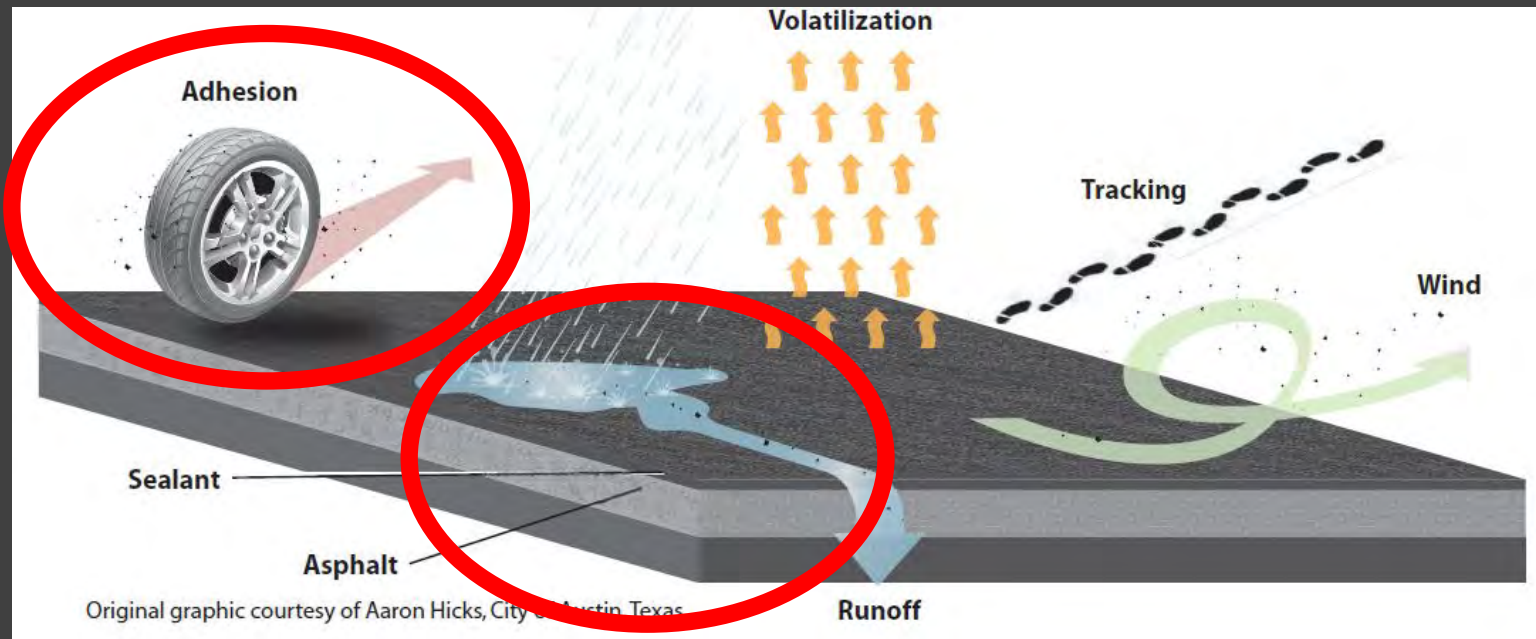


<https://faculty.eng.ufl.edu/timothy-townsend/research/beneficial-use-of-waste-materials/understanding-the-environmental-impacts-of-reclaimed-asphalt-pavement/> (May 2022)



“Using the most representative leaching method ... and most expansive PAH analysis ... data continue to suggest that PAH and metals leaching from RAP stockpiles are unlikely to result in exceedances of risk-based limits in groundwater.”

Product & Environmental Stewardship: Tire Rubber Asphalt



First Avenue South in Normandy Park, Washington. Most coho salmon returning to Miller Creek die before they can spawn.

CREDIT: KUOW PHOTO / JOHN RYAN

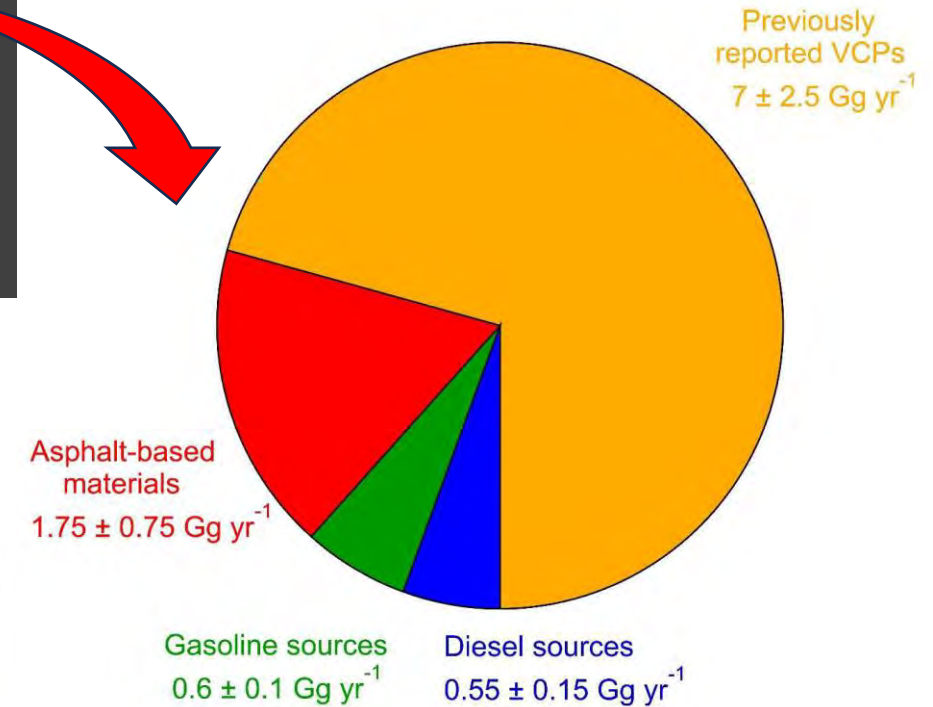
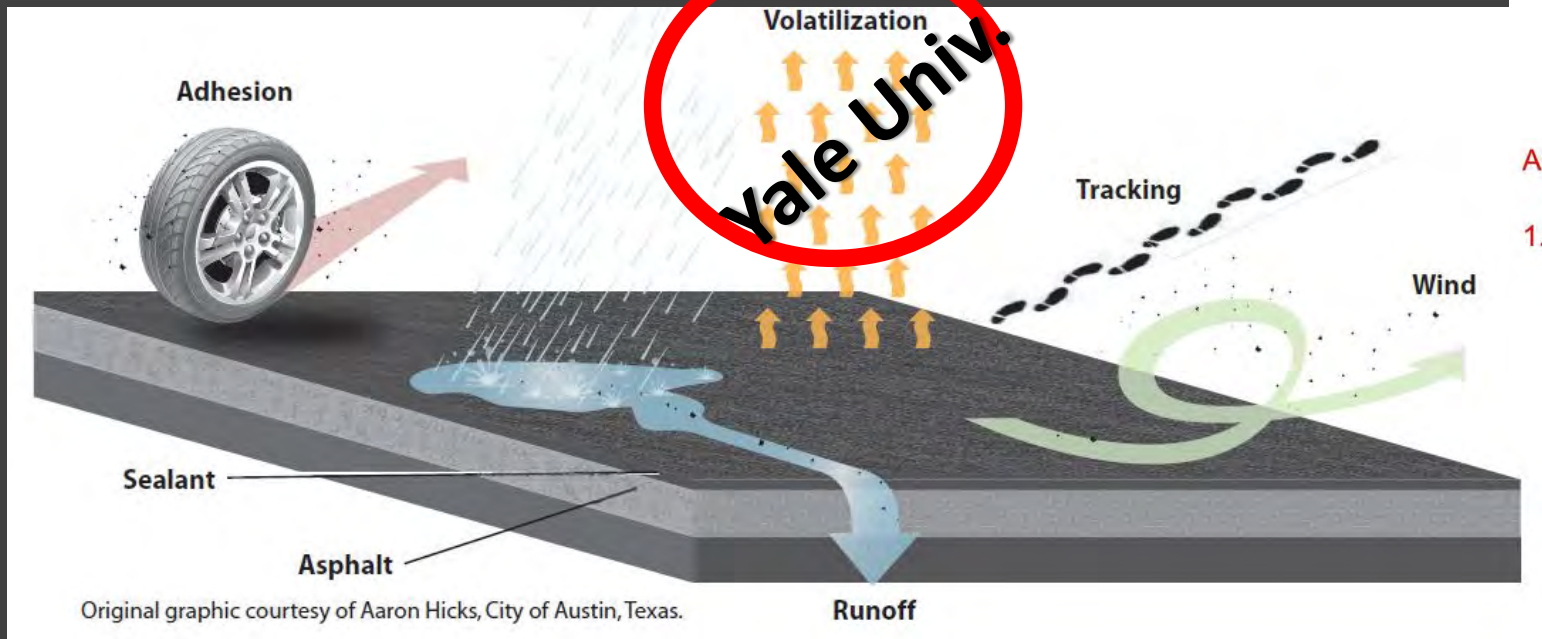
Seattle fish research could shake up global tire industry

Product & Environmental Stewardship: Tire Rubber Asphalt

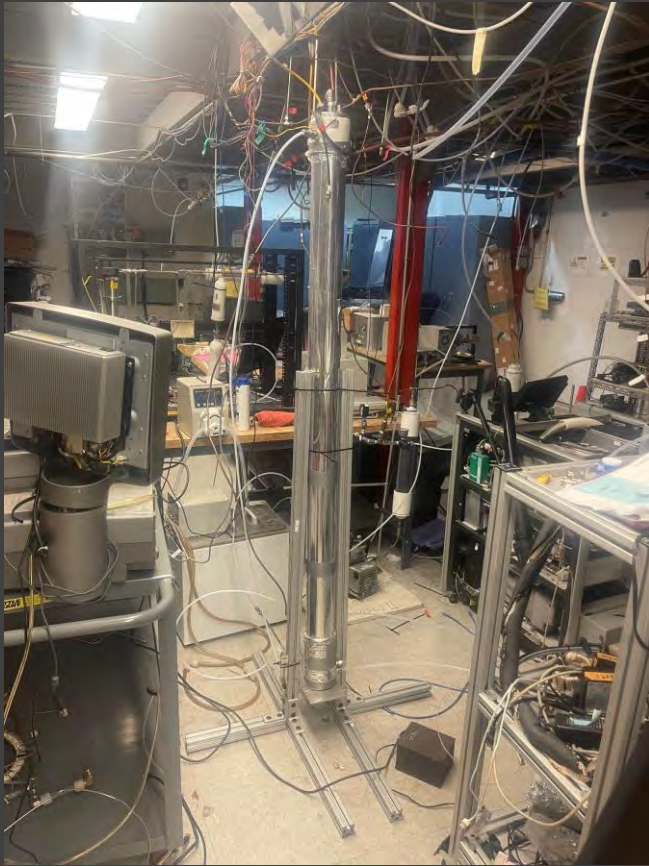
- Ongoing Calif (ban) and USEPA concerns re tire rubber runoff
- But CalTrans now requires GTR-modified asphalt pavements
- American Bar Assoc:
“6PPD-Q is ‘among the most toxic chemicals known for aquatic organisms’ ... in the parts-per-trillion”



Product & Environmental Stewardship: In-Place Emissions



Product & Environmental Stewardship: Research @ Univ Calif – Riverside



Product & Environmental Stewardship: Other / Misc

- The Road Forward
- UHI misperceptions
- (Micro) Plastics
- 'Red List' Asphalt



1

unifying
mission
and vision

19

tactics

78

abstracts

submitted to
#NAPADecarb

4

industry
goals

38

Partners

30

abstracts

submitted to the
2024 Perpetual
Pavement
Conference

51+

sessions

1

federally accepted

EPD
benchmark

21

Climate
Stewardship
Task Force
members

57

glossary
terms



9

research
partners

7+

events



zero

our net carbon
emissions goal

47+

articles
published

The Road
Forward

A Snapshot
2022-2024

16

webinars

21

research
publications

11

podcast
episodes

5

deliverables
designed to launch
the initiative in
January 2022

FIRST
official

The Road Forward
Sabbatical
participant



Jo Sias

6+

external
meetings

5+

ENERGY STAR®
activities

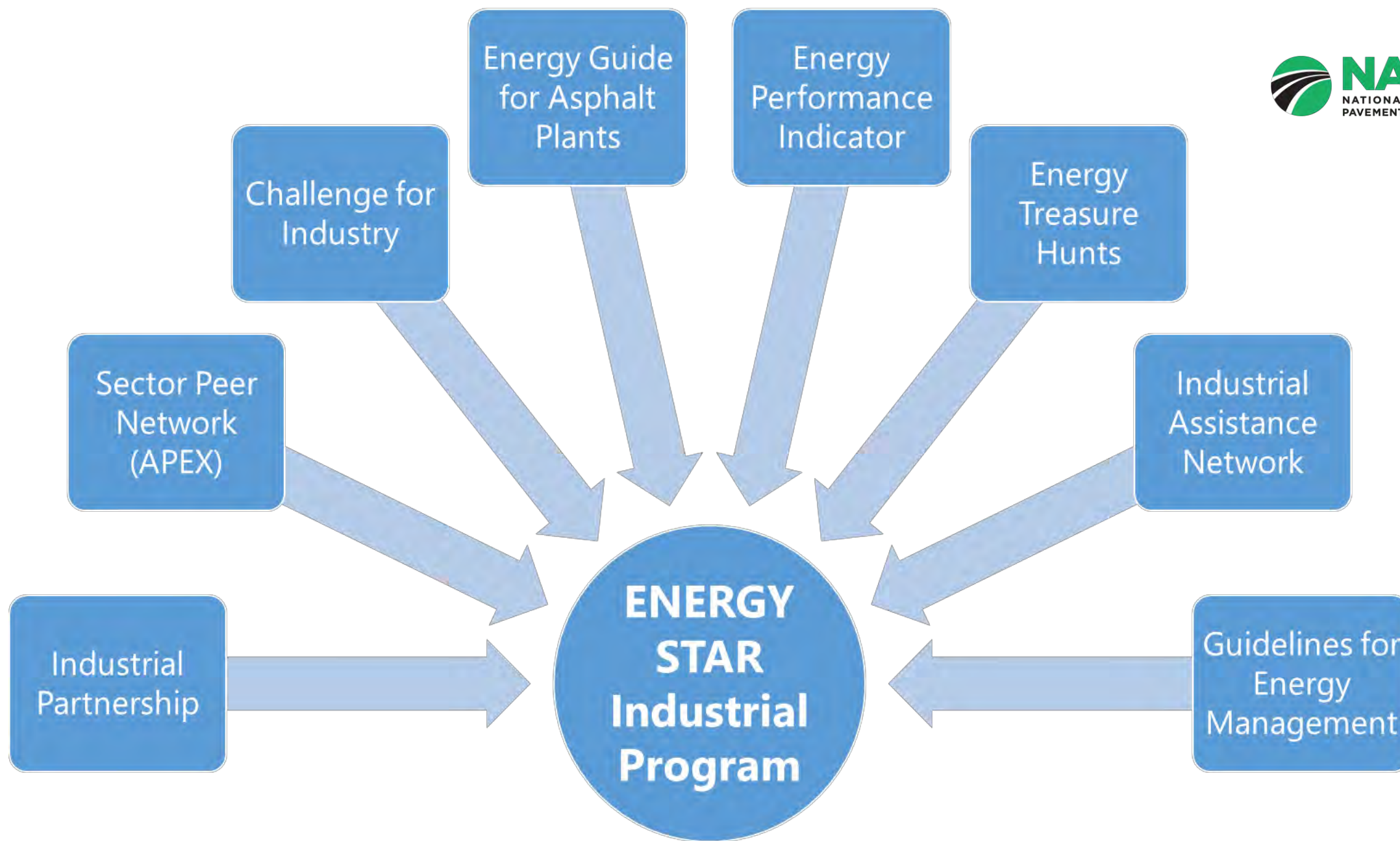


500
hours

the Task Force's
commitment to
develop The Road
Forward

SCAN ME





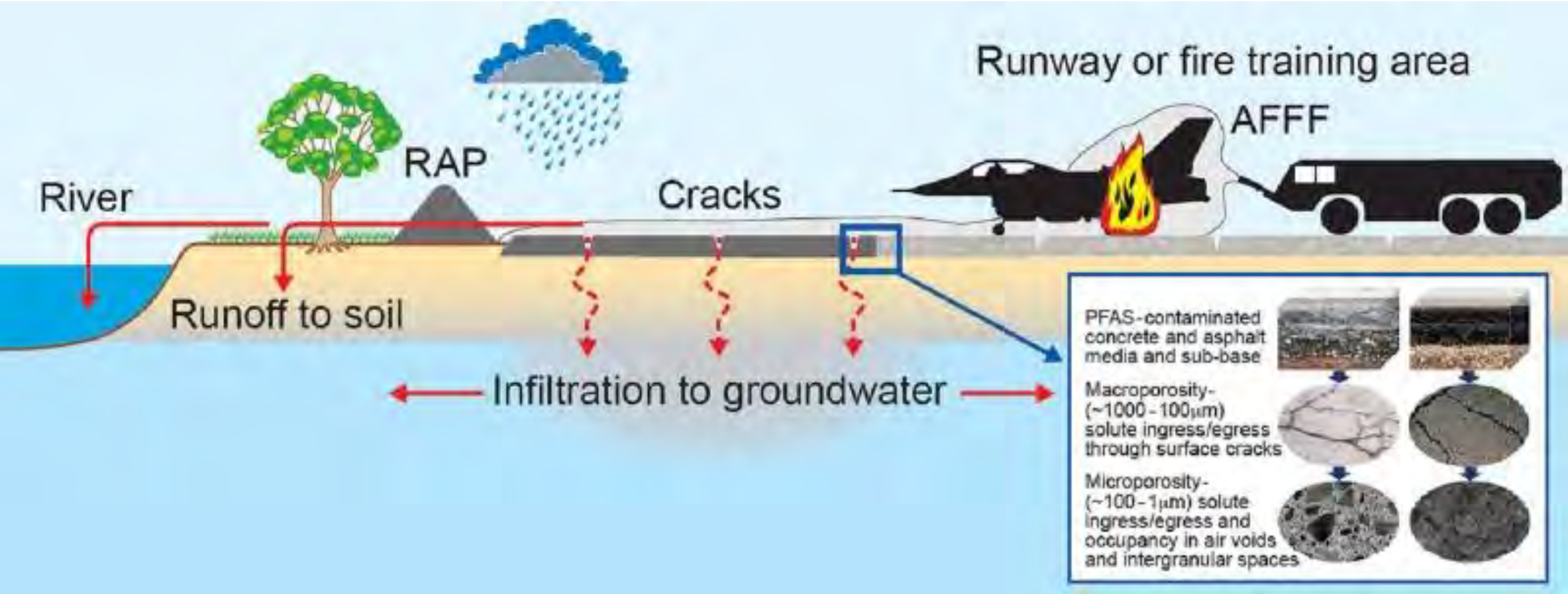
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PFAS and Airfield Pavements



PFAS and Airfield Pavements



EPA Official Indicates PFAS Hazardous Substance Designation Under Superfund May Lead to Reopening Past Cleanup Actions

By Kodi Verhalen on December 5, 2023



PFAS and Airfield Pavements



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Why Belong?



Network with Key Players

- Community of Peers
- New Sales Leads
- Best-in-Class Events
- Supportive and Responsive Staff

Shaping Our Industry

- National Perspective
- Advocacy to Add Your Voice
- Inside Look at Innovation
- Information about Net Zero

Knowledge to Thrive

- Solutions for Challenges
- Intel on Regulations and Specifications
- Opportunities to Grow
- 24/7 Resource Access

Affordable

- Tiered pricing structure: Join at a rate that reflects your business's market share.



Asphalt Paving Awards

- Sheldon G. Hayes
- Larry H. Lemon
- Ray Brown
- Quality in Construction

Operational Excellence Awards

- Asphalt Operations Safety Innovations
- Environmental Leadership
- Community Involvement

Apply August 1 - October 15

AsphaltPavement.org/Awards

Diamond Commendation Program

Elevate Standards, Showcase Excellence



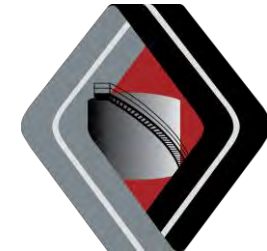
Diamond Achievement
Best practices for plant operations.



Diamond Paving
Best practices for paving operations.



Diamond Quality
Best practices for lab operations.

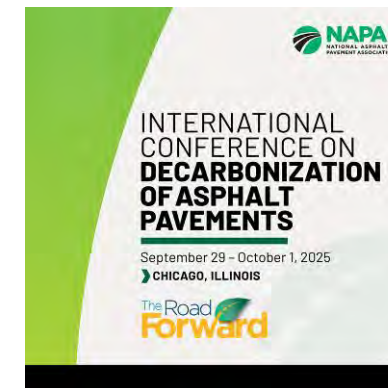


Diamond Terminal
Best practices for asphalt terminal operations.

Apply April 1 - August 15

AsphaltPavement.org/Diamond

2025 Events + Next Annual Meeting





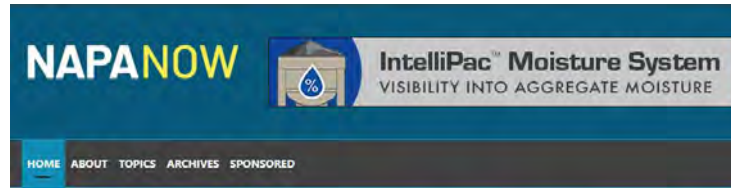
St. Louis, MO
March 25-27, 2025

SCAN ME



Stay Connected

SCAN ME



World of Asphalt set for St. Louis

World of Asphalt, the premier trade show and conference experience for asphalt professionals, heads to the America's Center Convention Complex in St. Louis, Missouri, March 25-27.

Don't miss your chance to browse the latest equipment, technologies, and products spread across more than 230,000 net square feet.

[Browse the latest education offerings from the People, Plants, and Paving Conference](#) and [register to attend](#).

Sixty total education sessions are scheduled, and topics include everything from leveraging social media to asphalt emulsions.



Construction Superintendent

Green Construction Specialists Among Most In-Demand Workers, Says Latest Research

The construction industry is rebounding in 2025, with the output for new projects expected to increase by 8.5%, according to the latest forecasts. As a result, the industry will need to fill an estimated 439,000 jobs this year to meet the increasing demand. With the need for new construction employees growing at a breakneck pace, EPD has revealed the most in-demand construction jobs for 2025 and beyond.

[Read more](#)



Lead the industry by advancing the national legislative, regulatory, and policy interests of the asphalt pavement industry, serving as trusted experts, and increasing participation in NAPA's advocacy strategy.

[VIEW LEADERSHIP →](#)

LEADERSHIP

<https://napaannualreport.org/>

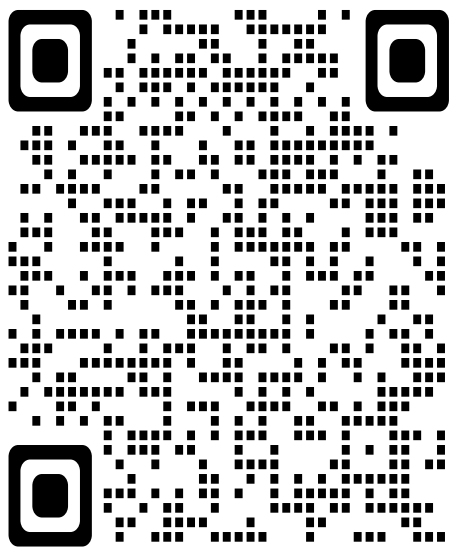
SCAN ME



Advancing the Asphalt Pavement Industry



Join Today!



Thank-you !
Questions ?