



IN FRONT OF THE PAVER

July 2021 Membership Newsletter

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A Word from the Director of Engineering

EPDs to be required for Asphalt Mixes in 2022

Earlier this month, with the passage of the Buy Clean Colorado Act (HB21-1303), Colorado became the first state in the country to pass a statewide environmental product declaration (EPD) mandate that includes asphalt mixtures. In response, NAPA's Joseph Shacat and Kelly Kanaras presented an introductory webinar about EPDs for asphalt mixtures to the Rocky Mountain Asphalt Education Center.

The Act mandates that the Colorado Department of Transportation (CDOT) require contractors to submit EPDs for road, highway, or bridge projects that are advertised starting July 1, 2022. CDOT will use those EPDs to develop a policy to take effect in 2025 aimed at reducing greenhouse gas (GHG) emissions.

For vertical construction projects – and, presumably, the associated parking lots and driveways – the Office of the State Architect will establish a procurement policy in 2024 that uses EPDs to determine compliance with new GHG emission limits for each material.

Asphalt mix producers can use NAPA's Emerald Eco-Label tool to develop EPDs that meet the requirements of the Buy Clean Colorado Act. NAPA hosted a webinar on June 29 about the tool and its new Optimizer feature. The webinar titled 'How to Reduce Costs and Environmental Impacts with NAPA's Emerald Eco-Label Tool Update' is available on the NAPA website.

Director of Engineering



CAPA AROUND THE STATE

Streets are a hot topic in Holyoke

On June 16, CAPA was invited out to the City of Holyoke in northeast Colorado to meet with a group of concerned citizens to talk with them about the conditions of their local streets. Mike Skinner, CAPA's Director of Engineering was also asked to give a brief presentation to City Council addressing local agency best practices to implement a Street Improvement Program and developing sustainable funding.

The Holyoke Enterprise, the local newspaper, ran a follow-up story on June 23 about the meeting and CAPA's information (www.holyokeenterprise.com).



Local Agencies: Concrete OUT...Asphalt IN

With the summer heat and moisture finally here, that means pop-out season for concrete pavements has arrived. Perpetual expensive maintenance of concrete pavements is an ongoing issue for agencies across the state, including CDOT, and some agencies have had enough. This summer the Town of Parker and the City of Castle Pines are both reconstructing concrete streets that have reached the end of their service life with asphalt. Both agencies recognized that they had to break the expensive maintenance cycle of maintain poorly performing concrete.

2021 Top Asphalt Parking Lots of Colorado



Top Asphalt Parking Lots to be Featured in Colorado Construction & Design Magazine.

CAPA is excited to announce a new partnership with Colorado Construction & Design (CCD) magazine to showcase the 2021 Top Asphalt Parking Lots of Colorado. The feature will be included in the October issue of the magazine that is a primary industry publication for the commercial construction market of Colorado. Are you involved in a significant, unique, innovative, or high quality asphalt parking lot project? Contact CAPA's Mike Skinner to have your project considered as a 2021 Top Asphalt Parking Lot of Colorado.

MEMBER SPOTLIGHT

APC Construction

Founded in 1955, APC continues to operate under third generation leadership from its base in Golden, Colorado. We serve the Denver metropolitan area and the entire state of Colorado, as well as adjacent states. We are equipped with both stationary and portable equipment to meet the needs of any job in the local or outlying areas. APC and its affiliates use only the best materials and maintain the highest standards of workmanship with your needs in mind. APC Construction Co., LLC treats all their employees like family and provides excellent benefits.



APC Southern Construction

APC Southern Construction Co., LLC is our portable paving affiliate, serving Colorado, Kansas, Nebraska, New Mexico, Nevada, Utah and Wyoming. We satisfy your needs by providing quality construction management, excellent service, and superior project management.



The teams at the two divisions of APC Companies have received recognition for their quality production with a pair of state awards. The accolades were announced during the CAPA “Best in Colorado” Asphalt Pavement Awards Feb. 25, 2021. CAPA Executive Director Tom Peterson explained why this is especially noteworthy for the 2020 award cycle. “Year in and year out, both companies rank in the top five in the state, and both have won the award multiple times,” Peterson shared. “This is first time in the 20 years of the program where this has happened—both awards won by two divisions of the same company.”

Great job APC and APC Southern on your desire to produce quality paving materials within the state of Colorado! The full article can be read in the current issue of Asphalt Pro Magazine.

ASSOCIATION NEWS



Diane Hammond Celebrates 20 years at CAPA

Diane has been with CAPA since June 2001, as the Training Coordinator for the Rocky Mountain Asphalt Education Center. She is responsible for the general administration of the RMAEC, including accounts payable/receivable, course registration, and marketing.

Diane is a Colorado native, originally from Fort Collins. She holds a B. A. degree in Communication Disorders and Speech Science from the University of Colorado and is the proud mother of her two four legged children.

Thank you from the CAPA staff for everything you do Diane! If you have a moment, send Diane a message of congratulations, rmaec@co-asphalt.com

CAPA Golf Tournament Registration opens July 5th

Start putting your team together now! Registration will open on July 5th at 10:00am. Our tournament fills up quickly each year, don't hesitate in securing your registration space. The tournament is limited to 216 players. Have items to donate for the swag bags? Want to put together a "Silent Auction package? Looking to sponsor a Hole, Beverage cart or something else, contact Tom Clayton to inquire about these opportunities. If you are not a golfer and would like to attend, we are in need of volunteers, Contact Tom Clayton to be added to the volunteer list. Volunteers will be provided with the same registration gift packets as players and invited to eat lunch with the group. Registration on the CAPA website on or after July 5, 2021 @ 10:00am. Sponsors are needed and welcomed, including, hole sponsors for each of the 27 holes, lunch, photos, beverage carts and contest holes. We will be holding a silent auction during the event and will accept donations of items to be auctioned off.

Holmes Murphy New Title Sponsor



CAPA is excited to welcome Holmes Murphy & Associates as the new Title sponsor for the 30th Annual Golf Tournament, and for many years in the future.

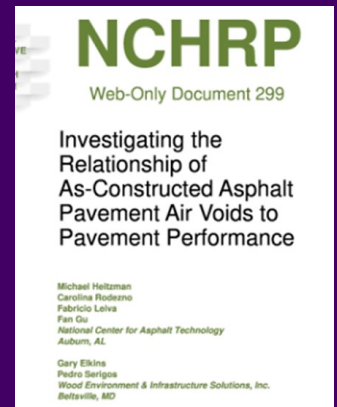
Holmes Murphy is a premier provider of bonds, insurance and risk management for the construction industry.



INDUSTRY UPDATE

REPORT: Air Voids Impact Pavement Performance

Several controlled laboratory studies have shown that air voids (AV) may have a large effect on the performance of asphalt pavements. AVs that are either too high or too low may cause a reduction in pavement life. A new report by the TRB National Cooperative Highway Research Program, *NCHRP Web-Only Document 299: Investigating the Relationship of As-Constructed Asphalt Pavement Air Voids to Pavement Performance*, includes research by the National Center for Asphalt Technology and examines the effect of in-place AVs on the performance of asphalt pavements.



Local Agency Best Practice: Use of Recycled Materials in Mixes

Recycled Asphalt



The asphalt industry reuses and recycles nearly 100 million tons of its own product every year, making it America's number one recycler. It is estimated that recycling of asphalt pavements (RAP) saves the American taxpayer \$1.8 billion per year. It also saves hundreds of acres of landfill space each year. This routine recycling of co-generated material helps to conserve natural resources. Best Practice Local Agency specifications for the use of RAP are provided in Item 20.2B of the Metropolitan Government Pavement Engineers Council Specifications.

Local Agency Best Practice across Colorado allows for the inclusion of RAP up to 25% (up to 35% in bottom layers for SG mixes).

Recycled Asphalt Shingles



Local agencies and CDOT constructed several pilot projects using RAS (3% - 5%) from 2009-2011, including; Boulder County, Denver, Louisville, Aurora, Greeley and US 36 in CDOT Region 4. The primary distress to asphalt pavements in Colorado is environmental impacts (e.g. thermal cracking, etc.), not structural failure. Within a very short period of time (2-3 years), it was discovered that the RAS pilot sections began to exhibit significant premature raveling, thermal cracking and aging. As a result, the inclusion of RAS in asphalt mixes across Colorado was discontinued due to poor performance. Best Practice Local Agency specifications do not allow for the inclusion of RAS in asphalt Mixes per Item 20.2 Materials of the Metropolitan Government Pavement Engineers Council Specifications.

Local Agency Best Practice across Colorado does NOT include RAS in asphalt mixes.

APA's 'Asphalt Performs'

A piece of professional advice: The State of Virginia found that incentivizing the construction of smoother pavements added 7 years of functional life and saved 15% annually on maintenance and rehabilitation costs.

Read how asphalt delivers for your budget at www.driveasphalt.org.



Working in the asphalt industry offers competitive pay and promotion opportunities.

One of the many unsung advantages is time in the Great Outdoors. Learn more about industry jobs at www.asphaltjobs.com.

Subscribe to the Colorado Asphalt Pavement Association YouTube Channel!

You'll notice we share training seminars, education events, and industry involvement on our channel.

Hit "Subscribe" and you'll be alerted via email when future videos are uploaded.



Do you have a question for ASPHALT MAN?



QUESTION: What is an Environmental Product Declaration?

ANSWER: The green construction market is focused on product transparency. As a result, green construction rating systems – such as LEED v4, Greenroads, INVEST, and Envision – are structuring credits that encourage the use of products with life-cycle information communicated through Environmental Product Declarations (EPDs) or that demonstrate through life-cycle assessment (LCA) a reduced environmental impact. V2.0 of the Emerald Eco-Label EPD tool gives a contractor's customer the ability to earn one point for the EPD LEED credit.

Road owners, agencies, and contractors need to share quantifiable metrics of sustainability and environmental impact with stakeholders. This might be as simple as a benchmark of what they are doing right now, or contractors and road owners might be asked to demonstrate a reduction in greenhouse gas emissions..

The Emerald Eco-Label can help asphalt producers benchmark their asphalt mixtures to assist their customers in meeting their environmental goals. Requests for EPDs are already starting, and other paving materials already are using EPDs to win projects.

NAPA's Verified EPD Tool

Emerald Eco-Label, NAPA's verified Environmental Product Declaration (EPD) tool, makes it easy to quantify the environmental impact of an asphalt mix. Created by industry professionals and stakeholders and evaluated by sustainability experts, the Emerald Eco-Label EPD tool was developed in conformance with ISO 14025 and EN 15804, which establish principles and procedures for developing a Type III environmental declaration program and describes the potential environmental impacts of a product.



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Tom Peterson



Tom Clayton



Mike Skinner