

THE ROAD AHEAD



Spring 2017



A supplement to Colorado Public Works Journal
Spring 2017

Meet our Members

**Industry News: Constructability Reviews,
LabCAT Local Agency Street Funding**

**44th Annual Rocky Mountain Asphalt Conference
& Equipment Show**

23rd Annual CAPA "Best in Colorado" Asphalt Awards

Cover Photo: Promenade Shops at Castle Rock

Introduction



Tom Peterson

Welcome to *THE Road Ahead!*

2017 has started off as an exciting year for CAPA and the asphalt industry of Colorado. There is a lot going on and a few exciting new developments. These include the following:

- The economy in the Colorado Front Range continues to boom and there are a few indications of promise in the outlying areas such as Grand Junction and Canon City.
- CAPA and CDOT recently reached agreement to continue the CAPA administered Laboratory for Certified Asphalt Technicians (LabCAT) program another five years and through 2022.
- A capacity crowd of 400 people joined us for our annual Asphalt Awards Dinner and helped us recognize the 13 recipients of the “Best in Colorado” Asphalt Awards in 2016.
- CAPA joined CDOT, FHWA, and DOT representatives from five other states in a 1½ day Warm Mix Asphalt (WMA) Peer Exchange. Key takeaway: WMA is providing equal or better performance and its use should be encouraged.

• A statewide transportation funding bill has been proposed at the State Capital. The bill is supported by leadership in both the Senate and the House and has bipartisan support.

• The 44th Annual Rocky Mt. Asphalt Conference & Equipment Show was held to a record attendance and a SOLD OUT trade show. The focus on technology, talent and quality was well received.

• Two CAPA leaders (Gregg Rippy of Grand River Construction and Dave Lemesany of Martin Marietta) have been chosen to participate in a strategic planning session with other Asphalt industry leaders from all over the country.

More information on each of these topics and several others is included in this issue of CAPA's *The Road Ahead*. We thank our sponsors that helped make this publication possible and the great work of Jo Taylor to put it all together. Thank you for your support and involvement as we work together to advance the use and quality of asphalt pavements in Colorado.

Thomas Peterson, P.E.
Executive Director, Colorado Asphalt Pavement Association

2017 RMAEC Webinar Schedule



2017 RMAEC Webinar Schedule March to December

- April 13 - Hiring and Retaining Employees - Work Force Development
- April 27 - Wide Crack Repair Options: Materials & Processes
- May 11 - Asphalt Pavement Design Software Solutions
- June 22 - Asset Management 101: Best Practices for Maintaining Roadway Solutions CAPA
- July 13 - Managing Commercial & Private Pavements: For HOA's, Property Managers/Owners
- August 17 - Design & Construction of Asphalt Parking Lots
- September 26 - Asphalt Inspection: Top 10 Tips
- October 19 - Cold Weather Paving: Do's and Don'ts
- November 16 - Surface Seals: Slurry, Chip, Cape and others
- November 30 - Maximizing Street Improvement Investments: Top 10 tips to achieve good bids and competition



What: The RMAEC webinars will cover a wide range of diverse training for Contractors, Consultants, Government Agencies, and all those interested in design construction and maintenance for asphalt pavements.
When: The “live” webinar training will run 60 - 90 minutes in duration. Most begin at 11:30 Mountain time. If your schedule prohibits attendance, you won't miss out. All of our webinars are recorded, allowing you to log onto the web and view the training at your convenience.
Cost: The RMAEC Webinars are NO COST to CAPA, APWA, CARSE and CDOT.

Register: by visiting the CAPA web page, www.co-asphalt.com/webinar-sponsors

CEU's are available for all sessions to all paid attendees. Contact the rmaec@co-asphalt.com



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CAPA has an Affiliate-Agency Member List that includes 74 city, county, town and other government agencies (including the E-470 Public Highway Authority and the Northwest Parkway Public Highway Authority) that have joined to benefit from training and education, technical assistance, and specification development.

NEW AGENCY MEMBERS IN 2016

City of Manitou Springs, City of Sheridan, Town of Avon,
Town of Georgetown, City of Englewood

ASPHALT PRODUCER & SUPPLIER MEMBERS



INDUSTRY NEWS

Local Agency Annual Street Programs and Funding highlighted at Rocky Mountain Asphalt Conference & Equipment Show



Contracting Panelists (L to R): Todd Rullo, PE (City of Thornton Street Operations Manager), Scott Brink, PE (City of Wheat Ridge Director of Public Works), Dan Hartman (City of Golden Director of Public Works) and Michael Terry, PE (City of Centennial Capital Improvements Program Manager).

One of the highlights of the 44th Annual Rocky Mountain Asphalt Conference & Equipment Show this year were several technical breakout sessions targeted for Local Agencies to address funding for their Annual Street Maintenance Programs and Contracting Best Practices.

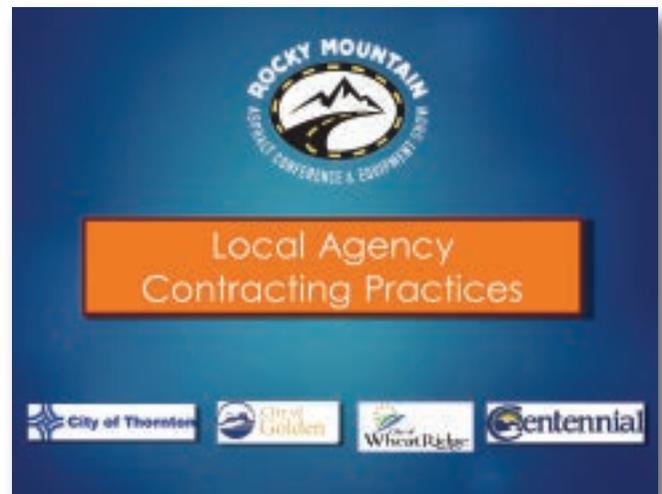
The funding session was a moderated panel titled “Making the Sell for Increased Funding for Streets”. Panelists included; Joel Hemesath, PE (City of Greeley Public Works Director), Corey Farkas (City of Colorado Springs Public Works Operations & Maintenance Manager), Jim Katzer, PE (Arapahoe County Road & Bridge Infrastructure Manager), and Adam Lancaster, PE (Cañon City City Engineer).

The moderated panel addressed:

- Impacts from Underfunded Programs
- Justification for Increased Spending
- Communicating with the Public and Elected Officials
- Success & Failures for Increased Funding
- Potential Funding Mechanisms
- Challenges & Trends across Colorado

The “Local Agency Contracting Practices” session was also a moderated panel discussion and addressed:

- Municipal Partnerships (IGS and the combined purchasing power of MAPO)
- Contract Types (Low Bid vs. Best Value, CMGC with CDOT, Design Build)



- Contract Enhancements (Multiyear contracts, incentive/disincentives)
- Procurement (advertisement, Local Vendors, DBE, IFP for prequalified vendors)
- Maximizing Bidding & Competition (Best Practices)
- Local Agency Projects with CDOT (administration and oversight)
- Unique Challenges

Over 40 agencies from across the state were in attendance for the sessions and commented “*These were the best sessions of the whole conference, thank you for providing such valuable information that we can take back to our Agency, that’s why I come to this conference every year.*” Visit the conference web-site at www.rmaces.org for the presentations.

For more information: Mike Skinner on (303) 741-6155 or mikeskinner@co-asphalt.com

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INDUSTRY NEWS

CDOT Materials and Geotechnical Branch Receives CAPA's 2016 Partnership of the Year Award



LEFT: Bill Schiebel, CDOT Materials and Geotechnical Branch Manager, Right Michael Stanford, CDOT Asphalt Pavement Program Manager

Each year CAPA recognizes an organization that we have partnered with in the previous year. In recent years, we have recognized the following organizations as our Partner of the Year. The Colorado Road Supervisors and Engineers; the American Public Works Association – Colorado Chapter; the Metropolitan Government Pavement Engineers Council.

This year we recognize the Colorado Department of Transportation Staff Materials and Geotechnical Branch. This is probably our closest partner of all.

CAPA partners with the CDOT Materials and Geotechnical Branch on the following:

- The Laboratory for Certified Asphalt Technicians (LabCAT)
 - Technical and specification improvements through the Asphalt Industry Forum (AIF) and related task forces
 - The Rocky Mt. Asphalt Conference & Equipment Show
 - The Rocky Mountain Asphalt User Producer Group.
- And others

Vote Yes on Grand Junction Ballot Measure 2B

We encourage all Grand Junction residents to support Ballot Measure 2B. The measure would add approximately \$3.6 million on to the 2017 Roads Ballot Question that will go before the voters in April. CAPA Members United Companies

and Elam Construction are proudly supporting the measure. Visit the City of Grand Junction webpage at: www.gjcity.org/city-government/public-communications/2017-roads-ballot-question/



Teamwork and Partnering Promoted at Annual ACEC-CDOT-CCA Conference

A focus of the recent ACEC-CDOT-CCA Annual Conference was a featured general session on the principles of project partnering. The CDOT PROJECT FIRST Initiative was discussed and two CDOT Region 4 projects were highlighted through a panel presentation.

The panel discussed the concepts of teamwork, collaboration, and problem resolution. CDOT Region 4 Regional Transportation Director commented, "Joint problem solving and handling and resolving problems at the lowest level are two keys to successful projects."





What's happening at the RMAEC

As we move through the beginning of the 2017 construction season the RMAEC is been very busy. Between the many capacity LabCAT Certification sessions, the Introduction to PC/OA (formerly QC/QA) testing sessions, webinars and the Asphalt Short course which are held in our facility and at member locations.

The Rocky Mountain Asphalt Education Center (RMAEC) administers the LabCAT Program. Additionally, the RMAEC provides education and training for technicians who are preparing for certification, and conducts various Asphalt Construction Seminars throughout the year. Please refer to the RMAEC page on the CAPA website for additional information.

In 1996 CDOT implemented Quality Control (QC) / Quality Assurance (QA) specifications and with it came the requirement of certified technicians. The use of certified technicians is required in the state of Colorado by the FHWA Code of Federal Regulations (CFR). Certification through the LabCAT Program is also required by some local agencies. These include, but are not limited to, The Metropolitan Government Pavement Engineers Council (MGPEC), City of Greeley, and the Pikes Peak Regional Transportation Authority (PPRTA). LabCAT is considered to be a National Institute for Certification in Engineering Technologies (NICET) equivalent for those testing asphalt and related materials at Denver International Airport. The LabCAT Program was developed to increase the proficiency of asphalt technicians, improve the reliability of QC/QA Testing, increase the quality of asphalt paving materials purchased by owner-agencies, and respond to Federal-Aid Projects.

Technicians testing for certification must be proficient in each of the field and laboratory tests required for materials acceptance in conjunction with the CDOT QC/QA specifications. The field and laboratory testing is based on the current references to the CDOT Field Materials Manual (FMM), CDOT Laboratory Manual of Test Procedures (CP-L), and the American Association of State Highway and Transportation Officials (AASHTO) Standard Specifications for Transportation Materials and Methods of Sampling where applicable.

The LabCAT program in 2017 has held 4 standard Certification sessions, 2 Streamlined Re-Certification sessions, and two Aggregate certification session and 3 Inspector certification sessions so far, this year. Of the session held all were filled to more than the regular capacity. The smallest session which was held had only 22 people.

The LabCAT standard certification session for those seeking or re-certifying in levels A, B, C and E are held on a regular basis one or two times per month through may and then one time per month until November.

Inspector certification and re-certification has also been running at capacity in the first quarter of 2017 There have been three session all at or over the regular capacity. Inspector Certification is held 6 times per year and added session will appear if the demand is needed. The inspector Certification session are not only for those

seeking the certificate but for those desiring the knowledge of the certified inspectors. The Inspector training and certification session are held concurrently, the difference is those seeking certification remain after the classroom presentations are completed and a written test is administered. Those in for education leave after the classroom presentations.

We encourage all persons seeking certification to needing to re-certify to book space at least 3 months in advance especially for the January to May time period as the session fill up very quickly.

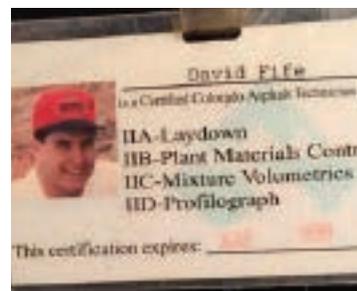


LabCAT Program Extended Another Five Years

CAPA and CDOT have reached agreement on another 5 year extension to the LabCAT Certification Program. A Memorandum of Understanding (MOU) was signed by CAPA's Executive Director Tom Peterson and CDOT Chief Engineer Josh Laipply. The program was established in 1996 and has seen over 500 attendees in each of the past two years. In 2016, over 95% of attendees rated the benefit of the program and overall quality as either good or excellent. CAPA and CDOT jointly guide the program through the LabCAT Board of Directors, the LabCAT Technical Committee, and Supplemental Examiners.

Where have the Years Gone??

Two of the original technicians that were certified through LabCAT were David Fife (currently with United Companies, Grand Junction) and Mike Schreiber (currently with CDOT Region 2 Materials). David is shown with his original certification card that was issued in March, 1996. Mike was back for the 8th time (1996, 1999, 2002, 2005, 2008, 2011, 2014, and 2017) this week and was wearing the original program hat issued in 1996.



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44th Annual Rocky Mountain Asphalt Conference



and Equipment Show



2016 "Best in Colorado" Asphalt Pavement Awards

CATEGORY - City Street New or Reconstruction

The City of Steamboat Springs and local paving contractor Connell Resources have been recognized with a "Best in Colorado" Quality Award in the City Street New or Reconstruction Category for their Central Park Drive Reconstruction project in Steamboat Springs.

This \$1.6M project included reconstruction Central Park Drive and is adjacent to a commercial shopping center that is responsible for 17% of the City of Steamboat Springs' sales tax revenue making it a very high traffic, high pedestrian volume throughout the entire day. The City offered a \$100,000 incentive payment to keep the construction impacts to the public as minimal as possible and to complete all the work by July 15, 2016. Through careful phasing, planning, communication and execution, Connell was able to deliver the project on schedule to meet the incentive.

The project received near perfect to perfect scores in four of the six criteria including; overall appearance, segregation, longitudinal joints and transverse joints.

Accepting the award (L to R): Tyson Waneka (Connell), Ben Beal (Steamboat Springs), Kevin Wilson (Connell), Brett Bowker (Connell), Rick Behring (Baseline), Steve Linton (Connell), Chris Rundall (Baseline).

Central Park Drive, Steamboat Springs



CATEGORY - Preventive Maintenance

The City of Greenwood Village and local paving contractor Foothills Paving & Maintenance have been recognized with a "Best in Colorado" Quality Award in the Preventive Maintenance Category for the City's Annual Preservation Program.

This \$600,000 project included select full depth patching, placing slurry/chip/cape seals, and striping at various locations across Greenwood Village as part of the City's annual Preservation Program. The Award Judges awarded very high scores for all criteria and noted "challenging project with traffic, treatments applied on the road at the right time, good use of both products."

Accepting the award (L to R): Heath Russo (Foothills), Oscar Cortes (Foothills), Ted Putnam (Greenwood Village), Vince Martinez (Foothills).

Greenwood Village



2016 “Best in Colorado” Asphalt Pavement Awards

CATEGORY - Parking Lot

JL Melton Construction and local paving contractor Martin Marietta Metro have been recognized with a “Best in Colorado” Quality Award in the Parking Lot Category for their Martin & Martin Parking Lot project in Lakewood.

The focus of this \$178,000 project was to correct the drainage issues in the existing lot by installing raised islands, corrective milling, placing a leveling coarse and overlay across the entire lot. The end result was a parking lot that drains and a new wear coarse to improve the longevity of the asphalt. Martin & Martin contributed immensely to the success of this project by providing very detailed plans and survey of the lot and Colorado Milling greatly assisted by achieving the strict elevations that needed to be met.

The judge’s commented “Could not see any visible joints or segregation, a simple project but beautifully done.”

Accepting the award (L to R): Mikey Sasina (Colorado Milling), Ryan Soltis (Martin Martin), Arnie Gomez (Martin Marietta), Tom Baird (Martin Marietta), Panfilo Hernandez Ortiz (Martin Marietta), Jesse Gomez (Martin Marietta), Jerry Melton (JL Melton).

Martin & Martin Parking Lot project in Lakewood



CATEGORY - Urban Highway Resurfacing

Colorado Department of Transportation Region 4 and local paving contractor Martin Marietta Northern have been recognized with a “Best in Colorado” Quality Award in the Urban Highway Resurfacing Category for their US 287 Phase II Resurfacing project in Fort Collins.

This project was completed primarily with night paving, involving coordination with both CDOT Region 4 and the City of Fort Collins as all lanes were required to be reopened to traffic the following morning. The existing surface was milled 3” and leveled with 1” SX PG 64-22 and then topped with 2” SX 64-28. 31,000 tons of asphalt material was placed over 171 days.

The judges rated the project near perfect to perfect scores in the segregation and transverse joints criteria and noted the project complexity and difficulty due to night paving and traffic restrictions.

Accepting the award (L to R): Michael Keen (CDOT), Patrick Yeager (CDOT), Corey Stewart (CDOT), Todd Emery (Martin Marietta), Jed Foust (Martin Marietta), Kenny Grass (Martin Marietta), Nashat Sawaged (Parsons), Bill Boltze (Parsons).

U.S. Highway 287, Phase 2, Resurfacing



INDUSTRY NEWS

First-hand View of Asphalt Paving in Action

It's not every day can you look out of your office window and see a major asphalt paving project in action. CAPA Member Brannan Sand & Gravel is the asphalt paving subcontractor to Kraemer North America LLC., on the I-25/Arapahoe Road project.

We had plenty of inspectors watching the action from the CAPA Office in the CCA Building while the placement was occurring in the south bound lanes and south bound on ramp, south of the New Arapahoe Road bridge. The project includes a total of 72,000 tons of HMA and 18,000 tons of stone matrix asphalt (SMA).

The placement of asphalt paving materials (APM) has been occurring through most of the winter months because of the extremely mild temperatures which we have seen in the Denver metro area this year. One of the other big factors which is allowing for placement of asphalt to continue is the new roadways are being construction on a composite section. Kraemer subcontractor Horn Construction is preparing the subgrade and placing aggregate base course typically just a day ahead off Brannan Sand and Gravel placing the initial layers of APM. The mild weather has put this project well ahead of the anticipated schedule. It has been reported the final alignment of the Interstate 25 portion will be done near the end of March. This is several



months ahead of the plan which was given to the community prior to the start of the project.

This project not only includes construction on the Interstate but on Arapahoe Road from about a half mile east and west of I-25. The work on Arapahoe was scheduled to be in full swing later this year with a mid 2018 completion. It appears this work will be mostly completed in calendar 2017 by the progress made to this point.

CAPA Board of Directors and Special Guests

February 22, 2017 CAPA *Best in Colorado* Asphalt Awards Dinner & Program



(left to right) Row 1: Mike McVaugh, CDOT Region 5; Dave Eller, CDOT Region 3; Scott Davis, Schmidt Construction; Josh Laipply, CDOT Chief Engineer; Kyle Alpha, United Companies; Johnny Olson, CDOT Region 4; Paul Jesaitis, CDOT Region 1; (back rows) Tom Peterson, CAPA; Ken Coulson, Coulson Excavating Co. Inc.; Jeff Keller, APC Construction Co.; Russ Larsen, Elam Construction; Ron Feltz, Jebro Inc.; John Paul Ary, A&S Construction Co.; Ed Wells, Connell Resources; Eric West, Westest; John Cater, FHWA; Randy Jenses, FHWA; Jason Dietz, FHWA; Norb Schreiber- Suncor Energy; Darren Gebhart, McAtee Construction; Gregg Rippy, Grand River Construction.

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WEIGHTS

| | |
|------------------|-------------|
| Operating Weight | 74,580.0 lb |
| Transport Weight | 66,140.0 lb |

DIMENSIONS

| | |
|-------------------------------|------------------------|
| Operating Width | 9.15 ft |
| Maximum Truck Clearance | 15.95 ft |
| Operating Length, Conveyor Up | 47.62 ft |
| Height to Canopy | 13.29 ft |
| Transport Length | 40.79 ft |
| Transport Width | 8.83 ft |
| Transport Height | 9.84 ft |
| Conveyor Swing | 60 degrees from center |
| Minimum Left Cutting Radius | 6.56 ft |
| Minimum Right Cutting Radius | 5.91 ft |

POWERTRAIN

| | |
|-----------------------|-----------------------|
| Engine | Cat C18 ACERT |
| Rated Power | 630.0 hp |
| Global Emissions | Tier 4 Final/Stage IV |
| Maximum Milling Speed | 328.0 ft/min |
| Maximum Travel Speed | 3.7 mph |

CUTTING SYSTEM

| | |
|-----------------------|-----------------|
| Milling Width | 88.0 in |
| Maximum Milling Depth | 13.0 in |
| Number of Bits | 193 |
| Rotor Speeds | 100/109/118 rpm |

SERVICE REFILL CAPACITIES

| | |
|---------------------------------|-----------|
| Fuel Tank | 288.1 gal |
| Diesel Exhaust Fluid (DEF) Tank | 12.2 gal |
| Cooling System | 22.1 gal |
| Engine Oil | 16.9 gal |
| Hydraulic Tank | 29.4 gal |
| Water Spray System Tank | 898.0 gal |

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2016 "Best in Colorado" Asphalt Pavement Awards

CATEGORY - Quality in Asphalt Production over 100K tons

Asphalt Specialties Company Inc. of Henderson has been recognized with a Colorado Department of Transportation state wide Quality in Asphalt Production Award in the Greater than 100,000 ton Category.

In 2002, CDOT began to monitor the quality of plant-produced asphalt paving mix from each supplier to their construction program. The goal with this effort was to identify and acknowledge the asphalt producer who most consistently meets CDOT's specification requirements. In 2016, there was approximately 1.3 million tons of asphalt materials placed by contractors on state highways. Asphalt Specialties was recognized for testing 150,000 tons of asphalt materials in 2016.

Accepting the award (L to R): Scott Conner (Asphalt Specialties), Greg Simmons (Asphalt Specialties), Sam Kingsfield (Asphalt Specialties), Jarrett Welch (Quality Paving Consultants).

Asphalt Specialties Company Inc., Henderson



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2016 “Best in Colorado” Asphalt Pavement Awards

CATEGORY - Rural Highway Resurfacing

SH145 North of Rico Project near Telluride

Colorado Department of Transportation Region 5 and local paving contractor Elam Construction have been recognized with a “Best in Colorado” Quality Award in the Rural Highway Resurfacing Category for their SH145 North of Rico Project near Telluride.

This \$4.6M project consisted of 1 in ST leveling coarse plus 1½ in SX overlay for approximately 12 miles along SH 145. 31,000 tons of material was placed over 125 working days.

SH 145 is a two lane highway, in a narrow valley at an elevation of 8,000 to 10,000 feet approaching Lizard Head Pass. This project produced a variety of challenges ranging from weather and temperature concerns to the remoteness of the project in relation to material sources, hauling and communication.

The Award Judges awarded near perfect scores in overall appearance, longitudinal joints and transverse joints and commented “excellent ride quality and joints are near perfect.”

Accepting the award (L to R): Russ Larsen (Elam), Chad Saunders (Elam), Jim Cox (Elam), Brad McCracken (Elam), Tim Webb (CDOT).



CATEGORY - Special Use/Commercial Pavement

SMA at BNSF’s Intermodal Facility, Denver

BNSF Railway Company and local paving contractor Brannan Sand & Gravel have been recognized with a “Best in Colorado” Quality Award in the Commercial Special Use Category for their BNSF Intermodal Facility project in Denver.

This \$520,000 project included replacing the failed roller compacted concrete SMA at BNSF’s Intermodal Facility in Denver. The facility is used to transfer rail cargo to trucks for final delivery using forklifts to move the containers from rail to truck. The project was completed in 90 working days.

The judges scored very high in the complexity and difficulty criteria, noting “very nice project in a very busy rail yard. Wearing well despite heavy, heavy truck and construction traffic.”

Accepting the award (L to R): Benjamin Thomas (BNSF), Grant Cruseturner (Brannan), Thomas Warner (Flatiron), Steve Cordts (Flatiron).



2016 "Best in Colorado" Asphalt Pavement Awards

CATEGORY - Quality in Asphalt Production 50K to 100K tons

APC Southern Construction Company of Golden has been recognized with a Colorado Department of Transportation state wide Quality in Asphalt Production Award in the 50,000 to 100,000 ton Category.

In 2002, CDOT began to monitor the quality of plant-produced asphalt paving mix from each supplier to their construction program. The goal with this effort was to identify and acknowledge the asphalt producer who most consistently meets CDOT's specification requirements. In 2016, there was approximately 1.3 million tons of asphalt materials placed by contractors on state highways. APC Southern was recognized for testing just under 100,000 tons of asphalt materials in 2016 and was the first runner up in the greater than 100,000 tons Category in both 2015 and 2014.

Accepting the award (L to R): Kurt Wasinger (Crusher Superintendent), Steve Hammond (Plant Superintendent), Dominick Gonzales (Plant Operator).

APC Southern Construction Company, Golden



CATEGORY - Rural Highway New or Reconstruction

Colorado Department of Transportation Region 4 and local paving contractor Connell Resources have been recognized with a "Best in Colorado" Quality Award in the Rural Highway New or Reconstruction Category for their US85 (Ault to Wyoming state line) Project in Northern Colorado.

This \$19.1M project included Full Depth Reclamation, paving and shoulder widening of 29 miles along US 85 from Ault to the Wyoming border. It was a phased 2-year project in 2015 and 2016. CDOT Region 4 performed the in-house engineering design with ARS Companies providing FDR services and King Surveyors completing the surveying. Last year, the Phase I portion of the project won an honorable mention for the "Best in Colorado" awards. In 2016, the project team upped their game and delivered the best of the best, placing approximately 151,000 tons of asphalt.

The judges rated a perfect 10 score in three criteria including segregation, longitudinal joints and ride quality and noted "Very, very smooth ride. Longitudinal joints barely visible, awesome project!"

This project scored 331 of 350 points possible and is the highest scoring project

US85, Project in Northern Colorado



in the history of this award program. It has sets a new benchmark for quality construction in Colorado.

Accepting the award (L to R): Bill Anderson (Connell), Rob Lange (RockSol), Ed Wells (Connell), Aaron Pacholek (Connell), Loel Hoyle (Connell), Mark Roberts (Connell), Nicki Upright (CDOT), Keith Smith (RockSol).

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2016 "Best in Colorado" Asphalt Pavement Awards

CATEGORY - Project Delivery

Fillmore Diverging Diamond Project, Colorado Springs



Colorado Department of Transportation Region 2 and local paving contractor Martin Marietta Southern have been recognized with a "Best in Colorado" Quality Award in the Project Delivery Category for their Fillmore Diverging Diamond Project in Colorado Springs.

The \$1.7M Fillmore Diverging Diamond Interchange project was a phased asphalt patch-

ing project with a 2" PG 70-28 overlay before opening the project. No lane closures were allowed during the day through the entire project on either I-25 or Fillmore Street. SEMA Construction developed a plan to close the intersection on consecutive week-ends while Martin Marietta completed phased paving. Major stakeholders and businesses impacted by the project all provided

supporting letters praising the success, delivery and reduced impacts to the public.

Accepting the award (L to R): Scott Kenley (Martin Marietta), Javier Cornejo (Martin Marietta), Leopoldo Alzate (Martin Marietta), Misel Alvarez-Soto (Martin Marietta), Kyle Deminck (SEMA), Jud Barlow (SEMA), Chris Vaughn (Wilson & Co.), Davis Smith (CDOT).

2016 "Best in Colorado" Asphalt Pavement Awards

CATEGORY - Airport

The City of Yuma, local paving contractor McAttee Construction and Engineer Armstrong Constants have been recognized with a "Best in Colorado" Quality Award in the Airport Category for their Yuma Municipal Airport project.

This \$4.9 Million project consisted of reconstructing runway 16/34, installation of new runway lighting and constructing a new turnaround at the end of runway 34. The existing concrete was crushed and re-blended with native material to make a structurally sound base. eight inches of P-208 and three inches of P-401 asphalt paving were then placed. Work began in March 2016 and was completed in July 2016. The total contract time was 116 days and was completed 15 days ahead of schedule.

The judges noted the overall appearance of the runway was very good and exceeded expectations making it difficult to find the smallest imperfections. They also commented "Although the project performed above expectations, the most impressive portions of the project related to the perfection of the longitudinal joints, the project size, complexity and difficulty."

Accepting the award (L to R): John Ellis (McAttee), Jeff Harms (McAttee), Karma Wells (City of Yuma), Scott Moore (City of Yuma), Jake Hoban (Armstrong Consultants)

Yuma Municipal Airport



CATEGORY - Small Contractor Paving

Veterans Affairs Administration and local paving contractor Mile High Paving have been recognized with a "Best in Colorado" Quality Award in the Small Contractor Paving Category for their Fort Logan National Cemetery project in Denver.

This \$47,000 project consisted of construction of the parking lot for the maintenance facility and was completed in partnership with DCP Civil and JE Hurley who represented the Veterans Affairs Association. The judges noted nice longitudinal and transverse joints and awarded a perfect score in both of those criteria.

Accepting the award (L to R): Hector Rodriguez (Mile High), Mark Sandefer (Mile High), Scott Goodall (JE Hurley), Rick Bevarick (DCP)

Fort Logan National Cemetery



2016 "Best in Colorado" Asphalt Pavement Awards



CATEGORY - Smoothest Pavement

Four Corners Materials of Durango has been recognized with a Colorado Department of Transportation state wide Smoothness Award Pavement Category I for their US 550 Project north of Durango.

CDOT recognizes the smoothest paving project in each of their three roadway smoothness specification categories. The awards are based on CDOT's measured roadway smoothness profile using HRI specification requirements. Smoothness Pavement Category I is for Urban Reconstruction with or without curb and gutter and one layer overlays over an intermediate treatment.

This project was located along US Highway 550 north of Durango in San Juan County heading towards Silverton from Mile Post 49 to 56. The work consisted primarily of a 1 in ST leveling course followed by a 1 1/2 in SX top lift. 18,522 tons of asphalt materials were placed. Other work included guardrail, shouldering, signing, and pavement marking.

This was a very difficult project over a mountain pass with steep grades and turns. The crew followed best practices and delivered a high quality project with an average HRI of 31.0. Four Corners Materials received an astounding 98.9% of available smoothness incentive for 12.26 lane miles of paving. This amounted to \$109,206

Category I U.S. Highway 550 North of Durango to Silverton



of an available \$110,432.

Accepting the award (L to R): Myron Chee (Four Corners), Emmett Bighumb (Four Corners), Ernest Poyer (Four Corners), Timm Webb (CDOT).

Kirkland Construction of Rye has been recognized with a Colorado Department of Transportation state wide Smoothness Award Pavement Category II for their SH9 project south of Kremmling.

CDOT recognizes the smoothest paving project in each of their three roadway smoothness specification categories. The awards are based on CDOT's measured roadway smoothness profile using HRI specification requirements. Smoothness Pavement Category II is for new construction with or without curb and gutter for more than one layer.

This \$39 million-dollar project consisted of total roadway reconstruction of 11 miles along SH9 between Green Mountain Reservoir and Kremmling, north of Silverthorne. The scope of work included culvert replacements, full depth reclamation, roadway improvements to the horizontal and vertical alignments, adding 8 foot outside shoulders, guardrail, signage, stormwater management, traffic control, deer fences, and wildlife crossings. The project was completed with only three must grinds in over 36 lanes miles of paving. The project had an average HRI of 34.9 for 10.08 lane miles, achieving 91.4% of the available smoothness incentive, a total of \$90,788.

Accepting the award (L to R): Justin Kuhn (CDOT), Marcos Quintana (Kirkland), Ramiro Loya (Kirkland), Victor Quintana

Category II SH9 project South of Kremmling



(Kirkland), Adrian Rodriguez (Kirkland), John Stites (RockSol), Jesus Venegas (Kirkland), Kurt Callenhecker (RockSol), John Pawlik (RockSol).

2016 "Best in Colorado" Asphalt Pavement Awards

CATEGORY - Residential Subdivision

Kissing Camels POA and local paving contractor Martin Marietta Southern have been recognized with a "Best in Colorado" Quality Award in the Residential Subdivision Category for their Kissing Camels Estates project in Colorado Springs.

This \$243,000 project consisted of a 2in mill and overlay in the Kissing Camels Estates, adjacent to the Garden of the Gods Park in Colorado Springs. The community HOA organizes an annual mill & overlay program to maintain their streets in serviceable condition. Expectations are high in this upscale gated community and Martin Marietta Southern has been successful in meeting their needs.

The judges noted "Nice looking project and understanding the needs and challenges in working in this gated community."

Accepting the award (L to R): Scott Porter (Martin Marietta), Paul Kemp (Martin Marietta), James Wallace (Martin Marietta), Bruce Barbarick (Barbarick, LLC).

Kissing Camels Estates, Colorado Springs



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2016 "Best in Colorado" Asphalt Pavement Awards

CATEGORY - City Street Resurfacing

The City of Westminster and local paving contractor Cutler Repaving have been recognized with a "Best in Colorado" Quality Award in the City Street Resurfacing Category for the City's Annual Hot-in-Place Recycling Program.

This \$516,000 project included edge milling and heater repaving (1in in-place recycling plus a 1.5in inch overlay) along select city streets in Westminster as part of the City's annual Hot In-Place Recycling & Repaving Program. The judges noted high quality for segregation and overall appearance.

Accepting the award (L to R): Rick Dietz (Westminster), Doug Jones (Alpha Milling), Miguel Chacon (Chacon Trucking), Todd Gonser (Cutler Repaving), Rosa Terrazas (Chacon Trucking).

City of Westminster, co-winner



The City of Aurora and local paving contractor Brannan Sand & Gravel have been recognized with a "Best in Colorado" Quality Award in the City Street Resurfacing Category for their Montview Boulevard Project (Peoria to Havana) in Aurora.

This \$9.5 M project consisted of a full width 3in mill and SMA overlay along Montview Blvd (between Peoria Street to Havana Street) in Aurora as part of the City of Aurora's Annual Street Improvement Program. Aurora has been overlaying their arterial network with SMA since 2001 with exceptional results and seeing 15+ years' service life on their SMA overlays. The judges scored the project superior quality for segregation and transverse joints, noting "Nice project, no visible transverse joints, very smooth ride."

Accepting the award (L to R): Rod Phillips (Brannan), Andrew Cook (Brannan), Neomia Roach (Brannan), Gary Carroll (Aurora).

City of Aurora, co-winner





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INDUSTRY NEWS

Colorado Roads in Tough Shape



A recent TRIP Report says Colorado residents pay over \$2,000 per year for potholes and congestion.

COST TO COLORADO MOTORISTS OF DEFICIENT ROADS

An inadequate transportation system costs Colorado motorists a total of \$6.8 billion every year in the form of additional vehicle operating costs (VOC), congestion-related delays and traffic crashes.

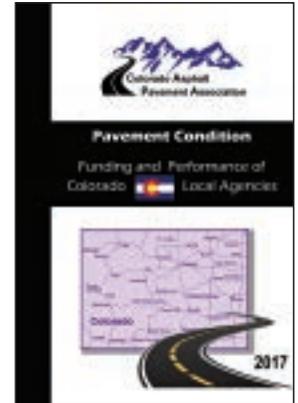
- Driving on rough roads costs Colorado motorists a total of \$2.3 billion annually in extra vehicle operating costs. Costs include accelerated vehicle depreciation, additional repair costs, and increased fuel consumption and tire wear.
- Traffic crashes in which roadway design was likely a contributing factor costs Colorado motorists a total of \$1.6 billion each year in the form of lost household and workplace productivity, insurance and other financial costs.
- Traffic congestion costs Colorado motorists a total of \$2.9 billion each year in the form of lost time and wasted fuel.



“Learn more by following the conversation on Twitter #FixItCO and follow us @TeamFixItCO”

Pavement Condition Report

Pavement Condition: Funding & Performance of Colorado Local Agencies The CAPA developed 2017 Local Agency Pavement Condition Report is available. There are 67 agencies (cities, counties, towns) from throughout Colorado included. The report captures 49,000 lane miles of roadway and 83% of local agency asphalt paved roads statewide. The weighted average funding level is \$4,300/lane mile/yr. and the weighted average PCI is 69. Over \$230 M is budgeted in 2017 for Annual Street Improvement Programs and \$155 for Public Works CIP. Please go to this webpage for more info: <http://co-asphalt.com/resources/local-agency-information/>



CAPA Board Members Recognized as Asphalt STARS!!

Congratulations to CAPA Board of Directors Dave Lemesany of Martin Marietta and Gregg Rippey of Grand River Construction for being chosen to represent the asphalt industry of Colorado at the Asphalt Institute Foundation (AIF) sponsored Strategic Asphalt Research (STAR) Symposium to be held May 10-12, 2017, in Colorado Springs. Attendance at this prestigious event is by invitation only and is limited to approximately 100 experts from across the country and various facets of the asphalt industry – the STAR 100” who will participate in the symposium. The goal of the event is to develop strategic research directions for the AIF to pursue that will ensure the long-term viability of asphalt in response to broader market trends. The outcome of this interactive program will be recommendations offered to the AIF Board as well as to members of our industry and academia with the intent of steering future research efforts.

CAPA & Federal Aviation Administration (FAA) Meet to Talk ASPHALT!!



Chris Schaffer, Assistant Manager Denver of FAA provides an overview during the March 15 meeting.



(l to r) Jake Hoban, Armstrong Consultants; Tyler Francis, Ingevity; Cindy Hirsch, FAA; Chris Schaffer, FAA; Mike Skinner, CAPA; Mike O’Leary, Ingevity.

Upcoming projects, specifications, and construction lessons learned were a few of the key topics discussed and presented at the Annual CAPA/FAA/CAOA Asphalt & Airport Meeting held on March 15. Cindy Hirsch, FAA Northwest Mountain Region, Safety & Standards Branch provided an update on specifications and Marc Miller of the FAA Denver ADO led a briefing on upcoming projects. Jake Hoban of Armstrong Consultants shared his insights on the 2016 “Best in Colorado” Asphalt Pavement –

Airport Category the Yuma Airport. Two key construction topics discussed were the use of recycled asphalt pavement (RAP) and warm mix asphalt (WMA). Research and performance data continues to be reviewed on both topics and use is being evaluated on different projects across the country. The meeting was sponsored by CAPA Affiliate Member Ingevity and hosted by the City of Centennial.

23rd Annual "Best in Colorado" Asphalt Awards Dinner & Program

CAPA AWARDS DINNER

Crowne Plaza Hotel - Denver. February 22nd 2017



CAPA President Kyle Alpha listening to a report on the Colorado legislative session being presented to the attendee's of "The Best in Colorado" dinner



"Best in Colorado" Award judges



Tom Clayton presenting the "Best in Colorado" awards



Kyle Alpha, CAPA Board of Directors President



L to R: Josh Laipply - CDOT, Paul Jesaitis - CDOT, Kyle Alpha - United Companies of Mesa County, Mike McVaugh - CDOT



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\$160B

in fuel, time and productivity is lost nationwide due to congestion.²



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The Asphalt Pavement Alliance is a partnership of the Asphalt Institute, National Asphalt Pavement Association, and the State Asphalt Pavement Associations.

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