

OHIO ASPHALT

THE JOURNAL OF OHIO'S ASPHALT PROFESSIONALS

SUMMER 2018

ISSUE 2 • VOLUME 15



**QUANTIFYING QUALITY
IS EASY AT QUALITY
ASPHALT LUNCHEON**

 **Flexible
Pavements**
of Ohio


**I BUILD
AMERICA**
OHIO

Asphalt... Defining Value!
Safe, Smooth and Sustainable

OHIO RIDES ON US

Asphalt.

DEDICATED TO SUCCESSSM



ROADTEC
an Astec Industries Company

Dedicated
to Success.SM

A FULL LINE OF **EQUIPMENT &
PRODUCT SUPPORT SOLUTIONS FOR
ALL YOUR ROAD BUILDING NEEDS.**

**PAVERS | MTVS | COLD PLANERS | STABILIZERS
BROOMS | COMPETITIVE PARTS | GUARDIAN®**



(614) 443-6541

WWW.COLUMBUSEQUIPMENT.COM

ROADTEC an Astec Industries Company

800 MANUFACTURERS RD • CHATTANOOGA, TN 37405 USA

© 2018 ROADTEC, INC. ALL RIGHTS RESERVED

roadtec.com +1.423.265.0600

ProSizer® Series



**LOCALLY SOLD AND
SUPPORTED THROUGH**

Columbus Equipment Company
2323 Performance Way, Columbus, OH
(440) 752-0836 | columbusequipment.com
**Additional locations throughout Ohio*

ProSizer® 3600

The **all new** ProSizer® 3600 is a single-load crushing plant for processing virgin aggregate and recycled materials. Its robust 36" x 46" horizontal shaft impactor can be paired with a 5' x 20' conventional screen or a 6' x 18' high frequency screen to meet your application needs. This crushing plant can be powered by diesel, electric or hybrid power.



ASTEC MOBILE SCREENS an Astec Industries Company
2704 WEST LEFEVRE ROAD • STERLING, IL 61081 USA • 800.545.2125 • FAX 815.626.6430 • kpijci.com



OHIO ASPHALT

THE JOURNAL OF OHIO'S ASPHALT PROFESSIONALS

View the digital version at <http://ohioasphaltmagazine.com>.

- 6 THE PRESIDENT'S PAGE
A CASE FOR CRITICAL COMMERCE CORRIDORS IN OHIO
- 10 OHIO ASPHALT EXPO
2018 EVENT WAS EQUINOX OF MEETINGS, LEARNING, AWARDS & FUN
19 QUALITY ASPHALT AWARDS
35 INDIVIDUAL AWARDS
- 38 TECHNICAL SEMINAR TOPICS, PART 2
MILLING STRATEGIES FOR COMPOSITE PAVEMENT REHABILITATION PROJECTS
- 41 INFOGRAPHIC: A MOMENT CAN SAVE A LIFE
- 42 OBITUARY: PETER M. ALEX, OSTERLAND CO.
- 44 MARK YOUR CALENDARS/NEW MEMBERS
- 45 ASPHALT WORD SEARCH
- 46 INDEX TO ADVERTISERS

CONNECT ON



ON THE COVER: SHELLY & SANDS COMPANY, AND ITS WORK IN THE RESURFACING OF INTERSTATE 77 IN ODOT DISTRICT 11, WAS ONE OF 16 COMPANIES AND 70 PROJECTS HONORED AT THE 2018 OHIO ASPHALT EXPO'S QUALITY ASPHALT PAVING AWARDS LUNCHEON. SEE PAGE 19.



Flexible Pavements of Ohio is an association for the development, improvement and advancement of quality asphalt pavement construction.

Ohio Asphalt is the official magazine of Flexible Pavements of Ohio. Published four times a year, advertising deadline is the 1st of the month preceding publication. Ohio Asphalt is not copyrighted and portions may be reprinted with the permission of Flexible Pavements of Ohio, 6205 Emerald Parkway, Suite B, Dublin, OH 43016; telephone: 614.791.3600, 888.446.8649; website: www.flexiblepavements.org

Officers

Chairman

Bryce Burgett
Olen/Kokosing Materials, Inc.

Co-Chair

Brent C. Gerken
Gerken Paving, Inc.

Treasurer

Rodney Russell
Barrett Paving Materials, Inc.

Board of Directors

Frank T. Bell
M & B Asphalt Co., Inc.

Cole Graham
Shelly and Sands, Inc.

James P. Jurgensen II
Valley Asphalt Corp.

Ty Nofziger
The Shelly Company

Howard J. Wenger
Northstar Asphalt Inc.

Dean Wikel
Erie Blacktop, Inc.

Staff

Clifford Ursich
President & Executive Director

William H. Fair
Director of Engineering Services

Andrew Gall
Director of Customer Relations

James Marszal
Pavements, Materials & Field Application Engineer

Florence H. Flowers
Executive Assistant

Contact

Telephone: 614.791.3600;
888.446.8649
Fax: 614.791.4800
www.flexiblepavements.org

Layout & Design

TriAd Marketing & Media

Ad Sales & Editorial Preparation

TriAd Marketing & Media
371 County Line Road West
Westerville, OH 43082
fax: 614.846.8763

Advertising Sales

Mark Wolf
mwolf@triad-inc.com or 866.679.9340

Editorial Staff

Jerry Marks
editorial@triad-inc.com or 800.288.7423

Asphalt Shingle Grinding Service, LLC

***It's More
Than Fine...***



***It's Just
Right!***



Recycled Asphalt Shingles (RAS/RAP)

**Production
Sales**

**Manufacturers Waste
Tear-Offs**

**Nationwide Mobile Grinding
Asphalt & Concrete Crushing**

ONE PASS PROCESSING

100% Passing 3/8

95% Passing #4

90% Passing #8

Average Sieve Analysis

**ODOT Approved Supplier for
Manufacturers Waste Shingles
We Sell Equipment Too!**



**877-679-5708
ShingleGrinding.com**

OVER 60 YEARS OF SUCCESS IN HIGHWAY CONSTRUCTION



- Government, Commercial & Private Contracts
- Asphalt & Aggregate Producer
- Milling & Grinding
- Excavation, Grading, Drainage
- Decorative Asphalt Products Available
- Maintenance of Traffic Specialist

**THE
GERKEN
COMPANIES**

Ph. 419-533-7701

www.GerkenCompanies.com

Corporate Office: Napoleon, OH Regional: Adrian, MI & Gibsonburg, OH

THE PRESIDENT'S PAGE



CLIFFORD URSICH, P.E.
PRESIDENT & EXECUTIVE DIRECTOR

“Ohio’s unique location in the nation’s manufacturing heartland, our extensive transportation system and the extensive amount of freight that moves through our state makes a good case for Critical Commerce Corridors in the Buckeye State.”

A CASE FOR CRITICAL COMMERCE CORRIDORS IN OHIO

Among its many provisions, the ***Fixing America’s Surface Transportation (FAST) Act*** included a “National Highway Freight Program.” The program was established to financially support highway-related freight improvements. The legislation introduces an initiative called “Critical Commerce Corridors.” These would serve as thruways by which freight can be expediently transported. The designation “Critical Commerce Corridor” assigns a priority status given the importance of these facilities in ensuring healthy commerce. Ohio’s unique location in the nation’s manufacturing heartland, our extensive transportation system and the extensive amount of freight that moves through our state makes a good case for Critical Commerce Corridors in the Buckeye State.

WHAT CONSTITUTES COMMERCE?

Before going any further it’s important to understand what commerce is as it relates to transportation.

Borrowing from *Webster’s Dictionary*... com•merce 2 : the exchange of buying and selling of commodities on a large scale involving transportation from place to place

Dissecting this definition helps us to understand the importance of transportation in commerce.

The definition of commerce has five elements.

To have commerce there must be...

- 1) **An exchange** – transactions in the form of buying and selling
- 2) **Commodities** (to exchange) – examples of such are corn, livestock, widgets, automobiles, asphalt, etc.
- 3) **Scale** – this involves the magnitude of

commodity sold, number of transactions and extent of market reach

- 4) **Transportation** – the movement of the commodity from seller to buyer
- 5) **A place** – the origination and destination of the commodity being transported

Considering these five elements of commerce, the following can be deduced:

- *Absent any of the above five elements, commerce cannot exist; all are “critical” components of commerce,*
- To the extent any particular element is deficient, commerce is impaired. For example, consider the impact congested roadways have on freight costs: Congested roads increase delivery time, which in turn raises transportation cost, all due to increased driver time, greater fuel usage and other overhead costs. The shipper recovers this expense by charging the seller a higher shipping rate. The seller recoups the extra transportation cost by marking up the unit price of the freight. The compounding effect is experienced by the buyer in terms of higher prices.
- *Prosperity grows when all elements of commerce are functioning efficiently and completely.*

Commerce plays out on a macro scale as nations compete in global markets. Congested transportation – bottlenecks – raises the costs of goods. Winners are those nations capable of moving freight freely and efficiently.

The importance of transportation in conducting commerce cannot be overstated. The Critical Commerce Corridors initiative and associated National Highway Freight Program is an acknowledgement of this fact.

CRITICAL COMMERCE CORRIDORS IN OHIO?

Critical commerce corridors have merit for Ohio given the magnitude of the state's transportation system as often cited by public officials. It's truly a huge system with diverse modes. Considering stats relative to roadway assets, Ohio has the nation's fourth-largest interstate system at 8,000 miles. Our state is sixth in the nation in vehicles miles traveled (VMT).

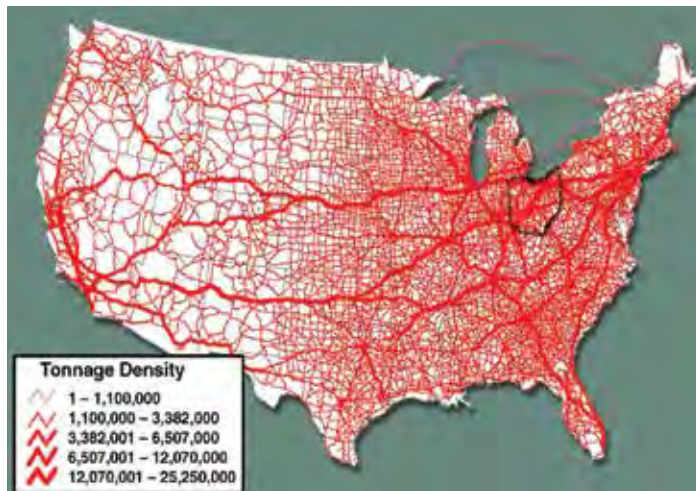


Figure 1: Freight Tonnage Density (Ohio Department of Transportation)

Ohio ranks third in the nation in terms of freight carried on its transportation system, of which 70 percent of the state's freight movements are on the interstate system. Current projections indicate a 67 percent increase of truck traffic by 2040. Currently, 78 percent of the goods shipped annually to and from sites in Ohio are carried by trucks.

Ohio rests at the center of the nation's industrial heartland. Annually, \$1.1 trillion in goods are shipped to and from sites in Ohio – mostly by truck. Telltale of Ohio's future is the recent Amazon announcement

of another fulfillment center being located near Columbus – the company's sixth such facility in the Buckeye State. Ohio is located within a day's drive of 60 percent of the nation's population.

Years ago, state officials got it right when they picked up on Ohio's uniquely beneficial location and seized onto the marketing phrase: ***"The Heart Of It All."***



Figure 2: Ohio Proximity to Nation's Population (ODOT)

Some might argue ... "There's no need!" "Things are 'good enough,'" that comparatively, congestion in Ohio is inconsequential and we can get around pretty well. There is some truth to that, however, being "good enough" is like the student who is satisfied with a "C" average. It's easy to attain, gets you graduated and a diploma

Thank You OHIO!

for

Supporting TransTech Systems Non-Nuclear Technology



20 YEARS
1998-2018
Pavement Quality Indicator
Non-Nuclear Development

TransTech
TRANSTECH SYSTEMS, INC.

1-800-724-6306
transtechsys.com

f t
v i

in-hand; but the knowledge missed handicaps his career and how much better he could have done for himself and family. A “C” grade when it comes to moving freight will be no less of a handicap.

WHAT COULD IT LOOK LIKE?

Critical Commerce Corridors may or may not use existing facilities. They are planned considering logistics of large scale, long-distance movement of freight, getting sellers’ commodities to buyers’ doors in a manner that is expedient, safe and without damage to the freight being transported.

Though it is possible, it would be presumptuous to assume such corridors would require construction of multi-lane highways through

greenfields. My mind’s eye envisions something like the I-271 Express Lanes on Cleveland’s east side. For you less familiar with the route, picture a multi-lane facility divided by barrier wall, two dedicated thru-traffic lanes each direction adjacent to the concrete barrier the full length of the corridor. Outside, or to the right of these, but separated by a grass strip, are the original “local” interstate lanes with controlled access via local interchanges. The express nature of the dedicated lanes is facilitated by virtue of the fact they are generally isolated from the local lanes. A critical commerce corridor might look something like this, except the dedicated lanes would be designated for freight. Under such a system, trucks would run isolated, unmixed with cars and other light-duty vehicles. This creates a safety advantage. Coupled with autonomous technology, freight volume can be optimized without expense to pavement health or level of service.

DO WE REALLY HAVE AN OPTION?

The people that track the economies of nations tell us “no.” If we do not improve freight mobility we will be passed up – they say. China’s investment in roadway infrastructure is often cited.

The question is intended to provoke forethought – a vision. Recall President Eisenhower’s vision of a roadway network the likes of what he saw in Europe during WWII. He charged Frank Turner to design and develop the National Defense Highway System – today’s interstate system. The interstate system has benefited our nation in innumerable ways; wealth creation from strong commerce is certainly one of those benefits. Here locally, another seedling initiative is taking root. **Drive Ohio** seeks to bring reality to a vision of improving motorists’ safety and the efficient use of roadway assets by utilizing autonomous vehicle technology. Were there immediate pressing needs for these visionary initiatives? Only in the minds of the people that had the vision to see the benefit these could bring.

Critical Commerce Corridors have been championed by visionaries who look over our nations’ landscape and see what our roadway network could be; one that is safer, faster, more efficient and more competitive in a world marketplace. The vision is one to be caught. Do we really have an option?



MAX3 DISTRIBUTOR



8520 ASPHALT PAVER



5300 ASPHALT PAVER



www.themcleancompany.com

Three Locations to Serve Our Customers:

HUDSON

6681 Chittenden Road
Hudson, OH 44236
Phone: 330-665-5900
Fax: 330-655-5969

COLUMBUS

3155 E. 17th Avenue
Columbus, OH 43219
Phone: 614-475-2880
Fax: 614-475-0069

CINCINNATI

8131 Regal Lane
West Chester, OH 45069
Phone: 513-777-5556
Fax: 513-777-4494

LeeBoy

www.LeeBoy.com | 704.966.3300



Opportunities to grow YOUR career

Meet Tyler Grant - Quarry Plant Manager for The Shelly Company Northwest Division. Tyler joined the Shelly team in 2016 as an intern. He learned about the many moving parts of the business and advanced to full time where he was hired as a management trainee. In 2018 he was promoted to his current role as quarry plant manager.

"The Shelly Company provides the opportunities, foundation and mentorship to develop great leaders in every aspect of the business."

—Tyler Grant



Dedicated to showing Ohio's future workforce that construction careers are both purposeful and rewarding



WWW.IBUILDAMERICA-OHIO.COM

THE OFFICIAL HOMEPAGE OF OHIO'S
CONSTRUCTION WORKFORCE
DEVELOPMENT MOVEMENT

RESOURCES FOR EMPLOYERS, FAMILIES,
JOB SEEKERS AND STUDENTS

#**ibuildamericaOHIO**



Valley Asphalt Corporation • 11641 Mosteller Road • Cincinnati, Ohio 45241 • 513.771.0820 • jrjnet.com



2018 EVENT WAS EQUINOX OF MEETINGS, LEARNING, AWARDS & **FUN**



It was hats off at the 2018 Ohio Asphalt Expo as more than 70 flexible pavement projects were given a “hats-off” celebration at the Ohio Asphalt Expo’s Quality Asphalt Paving Awards Luncheon on March 20th.

Ohio's asphalt community un-donned their hats on this year's arrival of spring as it coincided not only with the honoring of the top paving projects from 2017, but the Ohio Asphalt Expo equally welcomed industry personnel to 2018's construction season.



Ironically, the unofficial three-day Ohio Asphalt Expo – which includes the day when equipment for the outdoor expo arrives prior to the Expo's opening day – pretty much split its time equally between

spring-like weather and the return of Old Man Winter. Temperatures at this year's Ohio Asphalt Expo ranged from March 19th's (Monday) 61 degrees and mostly sunny weather to March 20th's and 21st's (Tuesday and Wednesday's) 30 degrees and flurries.

Flexible Pavements of Ohio's Ohio Asphalt Expo, is billed as the state's premier asphalt event; this year's March 20-21 event at the Columbus/Polaris Hilton Hotel just happened to coincide with the arrival of spring.

Day 1



Nearly 500 attendees made their way to the north Columbus venue as the start of the opening day's events featured four coinciding events – the all-day Ohio Asphalt Expo Vendor Exhibits and Equipment displays, the Public Agency

Forum, FPO Membership Breakfast & Annual Business Meeting and the opening EXPOEXCEL Sessions.



More than 40 vendors (see listing on page 18) displayed their wares and were on-hand to answer questions about the top materials, technology, services and machinery available for 2018's paving season.



LOCAL GOVERNMENTS AND ASPHALT CONTRACTORS DISCUSS SPECS AND ASPHALT TECHNOLOGY

The Public Agency Forum was presided by Franklin County Engineer Cornell Robertson, P.E., P.S., and featured a roundtable exchange and discussion among public pavement owners and asphalt contractors.

The FPO Membership Breakfast and Annual Business Meeting featured association updates, committee reports, the announcing of 2018-2019 FPO Officers and an Asphalt Pavement Alliance Update by APA Regional Director Dan Staebell.

2018-2019 FPO OFFICERS

Chairman: Bryce Burgett, Olen/Kokosing Materials Inc.

Co-Chair: Brent C. Gerken, Gerken Paving Inc.

Treasurer: Rod Russell, Barrett Paving Materials



DAN STAEHELL, ASPHALT PAVEMENT ALLIANCE, DISCUSSING INITIATIVES TO GROW ASPHALT CONTRACTOR MARKETS

Staebell's appearance at the Ohio Asphalt Expo was one-day shy of his two-year anniversary with APA, when he was introduced as the alliance's first regional director at the 2016 World of Asphalt Expo. Based in Manchester, Iowa, Staebell has more than 38 years of asphalt industry involvement. He oversees APA's activities in its Northcentral Region – which stretches from Ohio to Iowa and Minnesota to Missouri.

The morning's EXPOEXCEL Sessions marked the second year for the full-day education tracks devoted to quality asphalt paving techniques and plant operations. The EXPOEXCEL speakers were familiar faces at the Ohio Asphalt Expo: Wayne Brassell, of Brassell Consultants LLC, and John S. Ball III, of Top Quality Paving & Training. Both have been long-time participants at past Expos as an FPO member, Quality and individual awards recipient or speaker.

Brassell led the EXPOEXCEL's three-part, Asphalt Plant Educational Track. In his "From Rocks to Roads" series, Brassell spoke about the elements



**WAYNE BRASSELL PRESENTS
THE "FROM ROCKS TO ROADS"
ASPHALT PLANT TRACK**

needed for quality asphalt-mix production. Part I dealt with safety, communication, aggregate resource quality, calibration and mix homogeneity (uniform consistency); Part II highlighted elements of quality laydown: safety, loadout and hauling, mix exchange, segregation; and Part III delved into the role that material transfer devices, construction of durable longitudinal and transverse joint construction and commitment to quality and training have on the final product.



In the Asphalt Paver Educational Track, Ball's "A View from the Road" session covered what the best practices are for controlling and ensuring a quality asphalt paving project that has no call-

backs; his "Recognizing Mat Problems" program identified factors in the milling process, mix design, moving of mix to the screed and rolling techniques and how they affect mat quality; and in his section of "Do's and Don'ts," audience members learned from case studies of contractors on how to have paving crews consistently deliver quality parking lot and roadway projects.

Other mid-morning events on Ohio Asphalt Expo's Day One — leading up to the Quality Asphalt Paving Awards Luncheon — were Education Sessions for those not participating in the EXPOEXCEL tracks. National Asphalt Pavement Association's (NAPA) Howard Marks and Kokosing Construction Inc.'s Chuck Mull discussing "Complying with OSHA's Silica Rule at Asphalt Plants and During Road Construction Activities." In the second Education Session, Wirtgen America's Tom Chastain talked about "Milling for Quality."



**HOWARD MARKS, NAPA,
DISCUSSING COMPLIANCE WITH
THE OSHA SILICA RULE**



Noontime's Quality Luncheon recognized the best of the best from Ohio's 2017 asphalt pavement construction season. Celebrated were paving awards in five divisions: Ohio Department

of Transportation (ODOT) & Ohio Turnpike Infrastructure Commission (OTIC) Pavements, Local Roads or Streets, Commercial Parking Facilities, Special-Use Pavement and Airport Pavements. Two additional projects earned Master Craftsman acclaim, as they were recognized for their long-time service and quality.



**BRAD JONES, PE, ODOT DEPUTY DIRECTOR
OF CONSTRUCTION MANAGEMENT**

Helping honor the Quality Award recipients — which included both the project owner and the company providing the work — were FPO 2017-2018 Chairman Cole Graham,

of Shelly & Sands Inc., and ODOT Deputy Director of the Division of Construction Management Brad Jones. Prior to helping celebrate the 2017 Quality Award winners, Jones talked about new technology ODOT will be piloting and studying to make Ohio's asphalt pavements even more durable. "... I'm excited about that, I'm also excited about the first days of spring; we're going to be getting into the paving season shortly; and look forward to working with all of you," he said. (See more information on each of the Quality Awards projects beginning on page 19.)

Following the Quality Asphalt Pavements Luncheon, educational sessions continued. In addition to the final two EXPOEXCEL seminars, attendees had the opportunity to learn about "Safety Best Practices & Work Zone Intrusion Technology — AWARE." The program was led by The Shelly Company's Steve Draper and Oldcastle Materials Inc.'s Curt Davison. Also offered was a session on the "Basics of Segregation, Use of MTV & Thermal Imaging," which was led by Wirtgen America's Laikram Narsingh.



The first day's more than 27 total hours of meetings and events culminated with the evening's Quality Paving Celebration: "**Winning with Asphalt!**" reception.

Wednesday's final day of the Ohio Asphalt Expo included another more than seven hours of activities, with exhibits and equipment displays; a Prayer Breakfast that honored scholarship recipients, individual

Day 2

association and industry honors and featured a keynote address; and an ODOT plenary session.

Bryce Burgett, of Olen/Kokosing Materials Inc., fresh into his 2018-2019 term as FPO chairman, served as the morning's host, introducing two familiar figures at the Ohio Asphalt Expo, Pastor Lloyd Markley, of Christian Bible Fellowship in Johnstown and chaplain for Grace Hospice in Columbus, and ODOT Director Jerry Wray.



PASTOR LLOYD MARKLEY

In his Prayer Breakfast message, Pastor Markley discussed reasons why some people don't feel the need for prayer while others do. "Prayer is simply talking to God," Pastor Markley said, adding that the act of prayer points the mind into a positive direction. "Prayer is thanking

God . . . God calls us to a relationship and communication is a big part of relationship."



**FPO CHAIRMAN BURGETT INTRODUCING
ODOT DIRECTOR JERRY WRAY**



**ODOT DIRECTOR WRAY PRESENTS GOVERNOR'S
TRIBUTE TO THE JURGENSEN FAMILY**

ODOT Director Wray was the morning's next speaker. While he may have stopped Burgett's introduction of him short, it is worth noting that Director Wray has led ODOT during both the Gov. Voinovich and Gov. Kasich administrations and is one of the longest-serving DOT directors in the nation. Director Wray's appearance at this year's Ohio Asphalt Expo — which will be his last in his current position because of Gov. Kasich's term limits — was to present a special tribute for the late-James "Jim" Jurgensen. The former president of John R. Jurgensen Company/Valley Asphalt Corp. in Cincinnati and a former FPO chairman, Jurgensen passed away last June. Director Wray presented a tribute from Gov. Kasich to the Jurgensen Family, honoring Jim Jurgensen's life, career and impact he had on The State of Ohio. The tribute was accepted by Jurgensen's son, James P. Jurgensen II.



**GERKEN PAVING SCHOLARSHIP
AWARD PRESENTATION**



**PRESENTATION OF CHASE NICHOLS
MID-OHIO PAVING SCHOLARSHIP**




THE ONE STOP SHOP FOR ALL YOUR ASPHALT NEEDS

VISIT OUR WEB SITE AT:
WWW.ASPHALT-MATERIALS.COM



Following the proclamation presentation was the announcing and awarding of 2018-2019 FPO Asphalt Pavement Industry Scholarship Awards – which James P. Jurgensen Sr. was a strong advocate of the program.



**FPO program has
awarded 465 scholarships
totaling more than \$633,000.**

Introduced by FPO Director of Engineering Services Bill Fair, 2018 marks the 23rd year of the scholarship program, which this fall will assist 17 students from six Ohio universities. Fair talked about the recent study released by FPO that shares the impact that the scholarship program is making in the state's asphalt pavements industry (see *Ohio Asphalt* Spring 2018). The 2018-2019 class of FPO scholarship recipients will be featured in the fall 2018 issue of *Ohio Asphalt*.

The keynote address by Richard K. Vedder, Ph.D., on the topic of “How America Got Rich – and Can We Remain Exceptional?” was personally perplexing to the speaker on why he was even asked to talk at the Ohio Asphalt Expo. Vedder, the Distinguished Professor of Economics Emeritus at Ohio University, said the reason for his confusion is because there are three generalities that economists – like himself – are known for: being wrong; being boring; and often being insensitive to others. Still, he continued, and as he spoke about why he believes “we are the luckiest group of human beings to ever inhabit the planet,” Vedder did so in a humorous, insightful way.

According to Vedder, the root of the United States' economic exceptionalism is three words: “incentives, institutions and innovations.” However, he sees “clouds on the horizon” when it comes to that



**ECONOMIST RICHARD K.
VEDDER, PH.D.**



NORTHSTAR ASPHALT: PAVING THE WAY TO YOUR NEXT DESTINATION
Experienced asphalt paving contractor serving the Akron-Canton metropolitan area and surrounding counties.
Innovative paving solutions for difficult projects.
Service, quality and commitment.



**NORTHSTAR
ASPHALT INC.**

www.wengercompanies.com

7345 Sunset Strip N.W. | P.O. Box 2646 | North Canton, Ohio 44720-2646 | 330-497-0936



exceptionalism. Vedder mentioned the aging population and decrease in the U.S. birthrate; the government paying vastly more for Americans to not work and not be productive; and the huge government deficit, which he said, “both political parties seem to accept.” Vedder added, “We are living beyond our means; borrowing to pay our debts . . . This is not only not

prudent economically but it is immoral.

“The most sacred obligation of each generation is to transmit the knowledge and the wisdom of the past to the next generation, and give them the foundation needed to live the good life,” Vedder said. “Instead we’re placing new burdens on them, forcing them to increase taxes and reduce benefits for the poor, the sick and the elderly — and sometimes in the not too distant future, to give up our leadership role in the world.” Despite his stormy forecast, The speaker did provide a silver lining, saying he believes when it comes to the state and national economy things are much better than they have been in recent years.

Following Vedder’s address was the announcing of the 2018 Industry Service and William “Bill” Baker awards recipients by FPO President/ Executive Director Cliff Ursich.

Receiving this year’s Industry Service Award, which is given to those who have made significant contributions to the asphalt industry and whose selfless service has advanced FPO’s mission, was presented posthumously to John Daniel “Danny” Beck. Ursich said Beck’s career is noted for his quest toward continuous quality improvement, and that his expedition for quality has benefitted the industry’s “green” construction initiatives.


FPO’s highest-esteemed honor, the William “Bill” Baker Award, was presented jointly to Gary Cobb and Pat Welsh. Cobb and Welsh collaborated on the development of Sand Asphalt with SBR Latex — the predecessor of Smoothseal. Originating as “an asphalt mix that retains the attributes of smoothness and quietness found typically in more expensive, thicker asphalt overlays,” today, Smoothseal is an integral part of the asphalt industry. (See pages 35 and 36 for more information about this year’s honorees.)

Following the Prayer Breakfast, ODOT’s Craig Landefeld, P.E, Tim McDonald and Sara Downs, provided information on various department topics of interest to the asphalt industry. Landefeld, the administrator for the Office of Pavement Engineering, offered an update on Construction Specifications & Field Observations; McDonald, the administrator for the Office of Program Management, gave an ODOT Construction Program Forecast; and Downs, the department’s budget administrator, provided an ODOT Financial Forecast.



Hats off to the 2018 Ohio Asphalt Expo, as it provided a variety of meetings, seminars, camaraderie and enlightened discussion.


O A



MAINTAINING THE WORLD'S PAVEMENT


CRACK PRO MELTER/APPLICATORS HAVE
REVOLUTIONIZED THE CRACK FILLING INDUSTRY

- The Industry's Fastest Material Heating Time
- State-of-the-Art Safety Innovations Including the Industry's Lowest Profile Design - Provides Maximum Operator Safety



Backed by Our Nationwide Dealer Network

Official Pavement Products
& Equipment of



View the full line of Crack Pro equipment
at sealmaster.net

LOCATIONS
NATIONWIDE
(800) 395-7325







FPO would like to thank the more than 60 companies that supported the 2018 Ohio Asphalt Expo as a sponsor or exhibitor. The two-day event was made possible by the following companies and individuals:

SPONSORS

Gold

Astec Inc.
Barrett Paving Materials Inc.
Erie Blacktop
Gerken Paving Inc.
Kokosing Construction Co. Inc.
M&B Asphalt Co. Inc.
The McLean Co.
Marathon Petroleum Co. LP
Rudd Equipment Co.
Shelly & Sands Inc.
The Shelly Co.
Valley Asphalt Corp.

Silver

Columbus Equipment Co.
Ingevity
Northstar Asphalt Inc.
Ontario Trap Rock

Bronze

JASA Russell Standard
Murphy Tractor & Equipment Co.
Reliable Asphalt Products
Southeastern Equipment Co. Inc.

Sustaining

Ohio CAT
Wayne & Debbie Brassell

EXHIBITORS

Outdoor

Columbus Equipment Co.
Highway Equipment Co.
The McLean Co.
Ohio CAT
Rudd Equipment Co.
Sealmaster
Southeastern Equipment Co. Inc.
Swank Construction Co. Inc.
Trout River Industries

Indoor

American Highway Products
Asphalt Materials Inc.
Asphalt Shingle Grinding Services LLC
Astec Inc.
BOCA Construction Inc.
Columbus Equipment Co.

DJL Material & Supply Inc.
Eco Solution Distributing
GeoShack
Heatec Inc.
Highway Equipment Co.
Ingevity
Jack Doheny Companies
Jobsite Technologies Inc.
K-Tech Specialty Coatings Inc.
Lott Industries
The McLean Co.
Meeker Equipment Co. Inc.
Meredith Brothers Inc.
Murphy Tractor & Equipment Co.
Ohio CAT
Ontario Trap Rock
Pine Test Equipment Inc.
Reliable Asphalt Products
Road Builders Supply
Rudd Equipment Co.
Site Supply Inc.
Southeastern Equipment Co. Inc.
Stanseel/Hotmix Parts & Service
Swank Construction Co. Inc.
TransTech Systems Inc.
Troxler Equipment Laboratories Inc.



OHIO ASPHALT EXPO '19



Mark Your Calendar For March 26 & 27, 2019

At the Columbus/Polaris Hilton Hotel
8700 Lyra Dr.
Columbus, Ohio 43240

The 2019 Ohio Asphalt Expo:
Offering educational tracks and sessions, the area's largest collection of asphalt paving equipment, service providers and vendors at the indoor and outdoor trade show and exhibition. Join The Experience at Ohio Asphalt Expo.

Learn more at www.ohioasphaltexpo.org.

ODOT & OTIC Pavements

Quantifying Quality
is Easy at Quality
Asphalt Luncheon



Whether you measure quality asphalt pavement by the materials that were used, by the workmanship that went into it, by the smooth ride that was produced, or by the best value for the money, you found it being showcased at this year's Quality Asphalt Paving Awards Luncheon.

Held the opening day of the 2018 Ohio Asphalt Expo, the March 20th luncheon highlighted the best projects in the state from 2017 in five divisions: Ohio Department of Transportation (ODOT) & Ohio Turnpike Infrastructure Commission (OTIC) Pavements, Local Roads or Streets, Commercial Parking Facilities, Special-Use Pavement and Airport Pavements. Two additional projects were recognized for their long-time service and quality by earning Master Craftsman honors.

In all, 16 companies were showcased for their quality craftsmanship in providing the best quality in materials, workmanship, smoothness in ride and value for the money in 70 projects statewide.

Here is a look at the top asphalt pavement projects in Ohio from the 2017 construction season:

ODOT & OTIC PAVEMENTS

Resurfacing of U.S Route 6 from Township Road P-3 to Wood County & State Route 65 from Wood County to S.R. 110 in Henry County

ODOT District 2

Paving Contractor: Gerken Paving Inc.

Gerken Paving Inc.'s Andrew Hill and ODOT District 2's Jeff Sintobin



Resurfacing of U.S. 20 from Sandusky County to the City of Bellevue in Huron County

ODOT District 3

Paving Contractor: Erie Blacktop Inc.

Erie Blacktop Inc.'s Dean Wikel and ODOT District 3's Brian Balduff



**Resurfacing of S.R. 82 from Niles Cortland Road SE to
S.R. 193 in Trumbull County**
ODOT District 4
Paving Contractor: Shelly & Sands Inc.

*Shelly & Sands Inc.'s Edward Duncan and ODOT District 4's Jim Murray
and Matt Chaney*



**Resurfacing of S.R. 53 from Wyandot County to the City of
Tiffin in Seneca County**
ODOT District 2
Paving Contractor: M&B Asphalt Co. Inc.

*M&B Asphalt Inc.'s Steve Bell and Nick Bell (right) and ODOT
District 2's Zach Hribar (center)*



**Intersection improvement of S.R. 125 & Five Mile Road in
Hamilton County**
ODOT District 8
Paving Contractor: Barrett Paving Materials Inc.

Barrett Paving Materials Inc.'s Mark Barnes and ODOT District 8's Jason Haus



**Construction of interchange on U.S. 33 at Winchester Road &
High Street in Fairfield County**
ODOT District 5
Paving Contractor: Shelly & Sands Inc.

Shelly & Sands Inc.'s Dana Mills and ODOT District 5's Ben Boyer



**Resurfacing of U.S 27 from Butler County S.R. 126 in
Hamilton County**
ODOT District 8
Paving Contractor: John R. Jurgensen Co.

ODOT District 8's Adam Treiber and John R. Jurgensen Co.'s Michael Ruark



**Resurfacing of S.R. 73 from Highland County to Scioto County
in Adams County
ODOT District 9
Paving Contractor: The Shelly Co.**

The Shelly Co.'s Cary Schrader and ODOT District 9's Paul Maravy



**Resurfacing of S.R. 36 from the City of Greenville to the
Village of Covington
ODOT District 7
Paving Contractor: Walls Brothers Asphalt**

*Walls Brothers Asphalt's Michael Bocanegra and Perry Walls and
ODOT District 7's Todd Schafer*



**Resurfacing of S.R. 60 from Holmes County to U.S. 36 in
Coshocton County
ODOT District 5
Paving Contractor: Melway Paving Co.**

*ODOT District 5's Joran Shanks and Melway Paving's David Gaobisk,
Joe Yoder and Phil Schlabach*



**Resurfacing of U.S 27 from Hussey Road to the City of Oxford
in Butler County
ODOT District 8
Paving Contractor: Barrett Paving Materials Inc.**

*ODOT District 8's Adam Treiber and Barrett Paving Materials Inc.'s
Robert D. Klendt Sr.*



**Resurfacing of Interstate 77 from U.S. 22 to S.R. 541 in
Guernsey County
ODOT District 5
Paving Contractor: Shelly & Sands Inc.**

Shelly & Sands Inc.'s Derrick Treadway and ODOT District 5's Ben Boyer



Rehabilitation of I-70 from Clark Road to Bellaire-High Ridge Road in Belmont County
ODOT District 11
Paving Contractor: Lash Paving Co.

Lash Paving Co.'s Tim Poppy, Ryan Schlosser and Ben McManaway and ODOT District 11's Michael Clark



Resurfacing of U.S. 33 in Fairfield County
ODOT District 5
Paving Contractor: The Shelly Co.

ODOT District 5's Jordan Sharb and The Shelly Co.'s Robert St. Clair



Resurfacing of S.R. 350 from S.R. 123 to Middleboro Road in Warren County
ODOT District 8
Paving Contractor: Barrett Paving Materials Inc.

Barrett Paving Materials Inc.'s Dave Latham and ODOT District 8's Jason Haus



Resurfacing of I-77 from the Village of Newcomerstown to Stone Creek in Tuscarawas County
ODOT District 11
Paving Contractor: Shelly & Sands Inc.

Shelly & Sands Inc.'s Shane Novaria and ODOT District 11's Michael Clark



Rehabilitation of I-70 from Taywood Road to Airport Access Road in Montgomery County
ODOT District 7
Paving Contractor: John R. Jurgensen Co.

John R. Jurgensen Co.'s Nick Berry and Michael Ruark and ODOT District 7's Todd Schafer



Resurfacing of S.R. 151 from the Village of New Alexandria to S.R. 7 in Jefferson County

ODOT District 11

Paving Contractor: Shelly & Sands Inc.

ODOT District 11's Preston Kress and Michael Clark and Shelly & Sands Inc.'s Rick Smith and Chad Taylor



Paving of the Jeremiah Morrow Bridge on I-71 in Warren County

ODOT District 8

Paving Contractor: John R. Jurgensen Co.

ODOT District 8's Adam Treiber and John R. Jurgensen Co.'s Tom Taylor



Resurfacing of U.S. Route 250 from Tuscarawas County to Tappan Lake in Harrison County

ODOT District 11

Paving Contractor: Shelly & Sands Inc.

Shelly & Sands Inc.'s Shane Novaria and ODOT District 11's Michael Clark and Preston Kress



Resurfacing of U.S 22 from Stubbs Mill Road to Bigfoot Run & S.R. 48 from the Village of Maineville to the Village of South Lebanon in Warren County

ODOT District 8

Paving Contractor: Barrett Paving Materials Inc.

Barrett Paving Materials Inc.'s Mark Barnes and ODOT District 8's Jason Haus



Reconstruction of the Ohio Turnpike from Mileposts 90.0 to 95.9 in Sandusky County

Ohio Turnpike & Infrastructure Commission

Paving Contractor: Kokosing Construction Co. Inc.

Kokosing Construction Co. Inc.'s Trent Nissen and Ohio Turnpike & Construction Commission's Tony Yacobucci



**Resurfacing of S.R. 62 from Knox County to Stillwell & S.R. 60
from the Village of Killbuck to S.R. 39 in Holmes County
ODOT District 11
Paving Contractor: Melway Paving Co.**

*Melway Paving Co.'s David Gadosik, Joe Yoder and Phil Schlabach
and ODOT District 11's Michael Clark and Preston Kress*



**Resurfacing of S.R. 91 from Miles Road to S.R. 87 in the Village of
Moreland Hills
ODOT District 12
Paving Contractor: Chagrin Valley Paving Inc.**

*ODOT District 12's Luke Martin and Chagrin Valley Paving Inc.'s
Ryan Allen and Curtis Grimes*



**Resurfacing of S.R. 7 from the City of East Liverpool to U.S.
Route 30 in Columbiana County
ODOT District 11
Paving Contractor: Shelly & Sands Inc.**

*ODOT District 11's Preston Kress and Michael Clark (far right) and
Shelly & Sands Inc.'s Brian Medlery and Chad Taylor*



LOCAL ROADS & STREETS

**Resurfacing of Moody Road from Olive Green Road to
Justamere Road
Delaware County Engineer
Paving Contractor: The Shelly Co.**

The Shelly Co.'s John Shonk



**Construction of a Roundabout and Widening of Cheshire Road
Delaware County Engineer/City of Delaware
Paving Contractor: Shelly & Sands Inc.**

Shelly & Sands Inc.'s Dana Mills



Resurfacing of North Ewing Street from Main Street to Pleasantville Road
City of Lancaster
Paving Contractor: Kokosing Construction Co. Inc.

City of Lancaster's Curt Shonk and Kokosing Construction Co. Inc.'s J.C. Sharp



Resurfacing of Stringtown Road and Buckeye Parkway
Grove City
Paving Contractor: Decker Construction Co.

Decker Construction Co.'s Andy Mollenkamp and Jason Crabtree (right) and City of Grove City's Cindi Fitzpatrick



Construction of Roundabouts on Hamilton Road in Franklin County
City of Gahanna/Franklin County
Paving Contractor: Shelly & Sands Inc.

Shelly & Sands Inc.'s Todd Carpenter



Resurfacing of Country Lane from Franklin Street to Chagrin Road
Geauga County Engineer/Bainbridge Twp.
Paving Contractor: Chagrin Valley Paving Inc.

Bainbridge Township's John Brett, Geauga County Engineer's Joe Cattell, P.E., P.S., and Chagrin Valley Paving Inc.'s Josh Fenstermaker and Paul Phillips



Resurfacing of East Franklin Street from North Main Street to Cylo Road
City of Centerville/ODOT District 7
Paving Contractor: Barrett Paving Materials Inc.

Barrett Paving Materials Inc.'s Ralph Jones



Resurfacing of North Perry Street from Maumee River to Clinton Street & East Washington Street from North Perry Street to Monroe Street

City of Napoleon

Paving Contractor: Gerken Paving Inc.

Gerken Paving Inc.'s Kyle Borstelman



Construction of Roundabout at Lovers Lane & Mall Road

City of Steubenville

Paving Contractor: Shelly & Sands Inc.

Shelly & Sands Inc.'s Chad Taylor and Frank Simone and City of Steubenville City Engineer Michael F. Kolak



Resurfacing of Oberlin Road from East College Street to Russia Road in the City of Oberlin

Lorain County Engineer

Paving Contractor: Kokosing Construction Co. Inc.

Kokosing Construction Co. Inc.'s Tom Roland and Lorain County Engineers Shaun Duffala

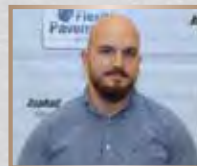


Resurfacing of Chrysler Drive from Expressway Drive to Stickney Avenue

City of Toledo

Paving Contractor: Gerken Paving Inc.

Gerken Paving Inc.'s Andrew Schwab



Morrow County Resurfacing Program of County Roads 14, 15, 24, 110, 115, 121 & 124

Morrow County Engineer

Paving Contractor: Mid-Ohio Paving Inc.

Mid-Ohio Paving Inc.'s Jim Nichols and Skyler Nichols (right) and Morrow County Engineer Bart Dennison



Resurfacing of Walnut Creek Pike from S.R. 752 to Lancaster Road
Pickaway County Engineer
Paving Contractor: The Shelly Co.

The Shelly Co.'s Josh Caldwell



Widening of Trimble Road from Marion Avenue to Cook Road
City of Mansfield
Paving Contractor: Shelly & Sands Inc.

Shelly & Sands Inc.'s Jason Chrastina and City of Mansfield's Bob Bianchi



Resurfacing of Clifton Boulevard from Lexington Avenue to Charwood Road
City of Mansfield
Paving Contractor: Kokosing Construction Co. Inc.

Kokosing Construction Co. Inc.'s Todd Ingram and City of Mansfield's Nathan Long



Resurfacing of Bonham Road (T.R. 2015) from Copp Road (C.R. 308) to Northwest Street (C.R. 312) in Sandusky County
York Township
Paving Contractor: Erie Blacktop Inc.

Erie Blacktop Inc.'s Justin Walters



Resurfacing of C.R. 198 from C.R. 181 to U.S. 20
Sandusky County Engineer
Paving Contractor: M&B Asphalt Co. Inc.

Sandusky County Deputy Engineer Carlos Baez, P.E., M&B Asphalt Co. Inc.'s Steve Bell and Chris Rapp



Resurfacing of Water Street from Campbell Road to South Miami Ave.

City of Sidney

Paving Contractor: Barrett Paving Materials Inc.

Barrett Paving Materials Inc.'s Mike Haney



Resurfacing of S.R. 91, Part I & II from Fishcreek Road to Norton Road

City of Stow/ODOT District 12

Paving Contractor: Barbicas Construction Co. Inc.

Barbicas Construction Co. Inc.'s Eric Olszewski, James Green, Brian Perkins and Jared Giles and City of Stow's Anthony Avolio and Jim McCleary



Resurfacing of Jamaica Road from Montgomery County to S.R. 123

City of Carlisle/ODOT District 8

Paving Contractor: John R. Jurgensen Co.

City of Carlisle's Dan Casson and John R. Jurgensen Co.'s Hutch Rogge



Construction of a Roundabout at Fields-Ertel Road, Columbia Road & Lebanon Road

Warren County Engineer/Hamilton County Engineer

Paving Contractor: Barrett Paving Materials Inc.

Barrett Paving Materials Inc.'s Jackson Shafer



Construction of a Roundabout at Roachton Road & Hull

Prairie Road in the City of Perrysburg

Wood County Engineer

Paving Contractor: Gerken Paving Inc.

Gerken Paving Inc.'s Andrea Weber



COMMERCIAL PAVING FACILITIES

**Construction of Parking Lot, Tennis Courts & Running Track
at West Clermont H.S. in the Village of Batavia
West Clermont School District
Paving Contractor: Southern Ohio Paving**

Southern Ohio Paving's Chris Hughes and Matt Arledge



**Resurfacing of Parking Lot at the Pine Ridge Country Club
in Lake County
Lake Metroparks
Paving Contractor: Kokosing Construction Co. Inc.**

Kokosing Construction Co. Inc.'s Tom Roland and Lake Metroparks' Larry Elswick



**Resurfacing of Barnaby Access Road, Valley View &
Ironwood Parking Lots at Clear Creek Metro Park
Columbus & Franklin County Metro Parks
Paving Contractor: Decker Construction Co.**

Decker Construction Co.'s Jonathan Apple and Mike Crabtree



**Construction of Parking Lot at Kroger Store #838 in the City
of Fairborn
Kroger
Paving Contractor: Southern Ohio Paving**

Southern Ohio Paving's Chris Hughes and Matt Arledge



**Resurfacing of Truck Container Lot at Midwest Express Inc.
in East Liberty
Midwest Express Inc.
Paving Contractor: The Shelly Co.**

The Shelly Co.'s Gary Fisher and Midwest Express Inc.'s Kyle Kuba



Reconstruction of the Economy Parking Lot at Dayton International Airport
City of Dayton Department of Aviation
Paving Contractor: Wagner Paving Inc.

Wagner Paving Inc.'s Brent Kress



Resurfacing of Parking Lots & Access Drives at Knox Community Hospital in the City of Mount Vernon
Knox Community Hospital
Paving Contractor: Kokosing Construction Co. Inc.

Kokosing Construction Co. Inc.'s Todd Kauffman and Alan Kintner



Construction of Parking Lot at Love's Travel Stop in the Village of Bellville
Love's Travel Stop
Paving Contractor: Shelly & Sands Inc.

Shelly & Sands Inc.'s Jason Chrastina



Resurfacing of the Parking Lot at Sam's Club Store 8136 in the City of Dayton
Sam's Club
Paving Contractor: Southern Ohio Paving

Southern Ohio Paving's Chris Hughes and Matt Arledge



Resurfacing of Parking Lot at the Lou & Gib Reese Ice Arena
City of Newark
Paving Contractor: Kokosing Construction Co. Inc.

Kokosing Construction Co. Inc.'s Tom Strasko and City of Newark's Brian Morehead



Construction of Parking Lot at Love's Travel Stop in the City of Circleville

Love's Travel Stop

Paving Contractor: The Shelly Co.

The Shelly Co.'s Adam Prince



SPECIAL-USE PAVEMENTS

Little Miami Trail Improvement Project

Ohio Dept. of Natural Resources

Paving Contractor: Barrett Paving Materials Inc.

Barrett Paving Materials Inc.'s Dennis Brunton



Resurfacing of Access Road & Pathways at Sharon Woods Metro Park

Columbus & Franklin County Metro Parks

Paving Contractor: Kokosing Construction Co. Inc.

Kokosing Construction Co. Inc.'s Kyle Perry



Resurfacing of Track at National Trail Raceway in the Village of Hebron

National Trail Raceway

Paving Contractor: The Shelly Co.

The Shelly Co.'s Kenny Untied and Joe Bice



Resurfacing of Track at Margaretta H.S.

Margaretta Local School District

Paving Contractor: Erie Blacktop Inc.

Erie Blacktop Inc.'s Justin Walters



AIRPORT PAVEMENTS

Rehabilitation of Runway at Port Bucyrus-Crawford County Airport City of Bucyrus

Paving Contractor: Kokosing Construction Co. Inc.

Kokosing Construction Co. Inc.'s Mike Hansford and Kyle Parker



Rehabilitation of Taxiway at Rickenbacker International Airport Columbus Regional Airport Authority

Paving Contractor: Shelly & Sands Inc.

Shelly & Sands Inc.'s Jason Chrastina and Columbus Regional Airport Authority's Paul Ryan



Rehabilitation of Taxiway A at Delaware Municipal Airport City of Delaware

Paving Contractor: Strawser Paving Co. Inc.

Strawser Paving Co. Inc.'s Sam Freas and Marshawn Bridges



Rehabilitation of Runway 10/28 & Taxiway Henry County Airport

Paving Contractor: Gerken Paving Inc.

Gerken Paving Inc.'s Jim Shoemaker and RS&H's Jared Post



Rehabilitation of Runway 4-22 at Bolton Field Columbus Regional Airport Authority

Paving Contractor: Kokosing Construction Co. Inc.

Kokosing Construction Co. Inc.'s Rick Kessler and Columbus Regional Airport Authority's Bart Powell



**Rehabilitation of Runway 18/36 at Findlay Airport
City of Findlay
Paving Contractor: The Shelly Co.**

*The Shelly Co.'s Isaac Krinke and Joel Kiger and City of Findlay
Airport's Matt McVicker*



**Rehabilitation of Taxiway D at Toledo Express Airport
Toledo-Lucas County Port Authority
Paving Contractor: Gerken Paving Inc.**

RS&H's Jared Post and Gerken Paving Inc.'s Andrea Weber



**Rehabilitation of Taxiway Priority 1 & 1A
Lorain County Regional Airport
Paving Contractor: Erie Blacktop Inc.**

Erie Blacktop Inc.'s Justin Walters



NEW CAT PM825 COLD PLANER

- Advanced Milling System
- Heavy-duty Powertrain – 755 hp gross power
- Simplified Service
- Robust Cutting System
- Productive Work Environment
- Optimal Maneuverability and Control
- 8' Cut

BUILT FOR IT.™

FOR MORE DETAILS CONTACT:
Chuck Barnes – 216-906-5862
Tim Cox – 513-518-8619

Ohio CAT

www.OhioCat.com

MASTER CRAFTSMAN AWARDS

Two long-time serving pavements were honored with Master Craftsman Paving Awards. This honor is presented to the contractor whose work has stood the test of time – more than 15 years, in fact – when it comes to quality asphalt pavement construction. Eligible pavement surfaces for a Master Craftsman Paving Award must exhibit a minimum service life of 15 years, remains in service, or has been resurfaced in 2017 and maintains an acceptable level of service.

**S.R. 2 in Ottawa County from S.R. 358 to the City of Port Clinton
Providing 20 years of Exemplary Pavement Performance
ODOT District 2
Paving Contractor: Gerken Paving Inc.**

Gerken Paving Inc.'s Dean Breese and Al Seaburn and ODOT District 2's Rodney A. Crouch



**Emerald Parkway, Phase 7 from Innovation Drive to Perimeter Drive
Providing 16 years of Exemplary Pavement Performance
City of Dublin
Paving Contractor: Northwood Paving (The Shelly Company)**

The Shelly Co.'s Ben Koehler and Larry Shively and City of Dublin's Ken Richardson



JASA High Performance Cold Patch (JASA HP-5)

- Workable in sub-zero temperatures
- Permanently repairs potholes
- Compatible with limestone or gravel (#9)
- Available year round for pick-up or delivery
- Can be manufactured in AC plant (w/no heat) or;
- Can be manufactured on site with our pugmill

JASA Asphalt Materials / Russell Standard Corp.

"A name you can trust since 1989 (ODOT Certified)"
Manufacturing asphalt emulsions, cutbacks and specialty products

990 Hazel Street □ Akron, OH 44305 □ Tel.: 330-733-9400 □ www.jasarussell.com

INDIVIDUAL AWARDS

Among the year's top honors given by the Flexible Pavements of Ohio are awarded during the Ohio Asphalt Expo's Prayer Breakfast. At the 2018 event, held on the second morning of the Ohio Asphalt Expo, FPO President/Executive Director Cliff Ursich announced and awarded this year's recipients of the Industry Service and William W. "Bill" Baker awards.



Sharon Beck accepts the FPO Industry Service Award on behalf of her late husband, John Daniel "Danny" Beck

INDUSTRY SERVICE AWARD

The Industry Service Award, since its 2003 inception, has honored individuals who have made significant contributions to the asphalt industry and through those actions have advanced FPO's mission.

The 2018 recipient is John Daniel "Danny" Beck, whose career is noted for his quest toward continuous quality improvement. His expedition for quality has benefitted the industry's "green" construction initiatives. Speaking of the Porous Asphalt development efforts, Beck is described by Ursich as "the point of effort in developing an asphalt specification that opened the asphalt industry to new opportunity...

"Danny always looked for opportunities to improve quality and expand efficiency," Ursich said, as he noted Beck's experimentation with reclaimed asphalt shingles to improve durability of asphalt pavements in high-stress applications.

Growing up the son of a paving operations supervisor, Beck chose a different path; this one leading him into mix design and

quality control. His career timeline ranged from the beginning of contractor mix design and process control, superpave and through to the current day green asphalt initiatives. These experiences made Beck innovative, knowledgeable and a valuable resource as the quality control manager for The Shelly Company's Northeast Division and for the state's flexible pavements industry.

In presenting the award, Ursich said Beck was more than a technician, he was also a teacher and leader. "He understood that sharing his knowledge would benefit the whole industry. And sharing that which benefits the whole is what leaders press themselves to do."

The 2018 honor was given posthumously to Beck, who died in June 2017 at the age of 56. In accepting the honor for her late husband, Sharon Beck said Danny and his father would be very proud for him to have been selected as the Industry Service Award recipient. "Danny was a humble man, but he had a huge heart," she said.



2018 William W. "Bill" Baker Award co-recipients Pat Welsh (left) and Gary Cobb

WILLIAM W. "BILL" BAKER AWARD

Just as the William W. "Bill" Baker Award has long been synonymous with the height of recognition by Flexible Pavements of Ohio, so has "Smoothseal" pavement been known for the qualities of providing a smooth, safe and quiet asphalt riding surface.

These two synonymous entities intersected in 2018.

This year's recipients of the Baker Award, Gary Cobb and Pat Welsh, developed an asphalt mixture that retains the attributes of smoothness and quietness found typically in more expensive, thicker asphalt overlays. The result of Cobb and Welsh's collaboration – originally known as Sand Asphalt with SBR Latex, then Supplemental Specification 854 Fine Graded Polymer Asphalt and finally the easier to say (and remember) Smoothseal – in 2017, ranked at the top of Ohio's asphalt treatments. Since its development, \$229 million was invested in Smoothseal, which accounted for 3-million tons of product used on 7,800 lane miles.

The development of Smoothseal, and the impact it has had on Ohio's road system – especially since ODOT's renewed commitment for asset management in 2016, which perpetuated use of the asphalt surface – makes Cobb and Welsh worthy of FPO's most-esteemed award.

The Baker Award is named after and honors William Baker, who served as president of FPO's predecessor Flexible Pavements Incorporated from 1976 to 1991. Baker was known nationally for his high character and the impact he made at the state and national level. His qualities of being effective, innovative and committed to high quality are the same attributes sought in Baker Award candidates.

Gary Cobb began in the asphalt industry as an ODOT plant inspector. He joined the private sector in the late 1970s and worked with both the Northern Ohio Paving and Thomas Asphalt companies. With Thomas Asphalt, he pioneered the use of reclaimed asphalt pavement (RAP) into new asphalt mix – saying it was the future of the industry. Cobb's belief in the innovative

material resulted in not only the company's purchase of a 400-ton-per-hour drum mix plant outfitted with a RAP package, but also Thomas Asphalt providing RAP on an Interstate 77 project. Cobb developed and submitted the first RAP-mix formula for an ODOT project. He left Thomas Asphalt in the mid-1980s and returned to work with Northern Ohio Paving. The expertise that Cobb gained in asphalt mix design drew consulting opportunities throughout the U.S. and internationally.

Pat Welsh earned the nickname "Gumby" through his early work selling rubber membrane bridge deck waterproofing systems. He worked with Flex-a-Seal Corporation in the mid-1970s before starting his own company, Highway Rubber Products. His involvement on FPO committees – which included the Technical and Marketing committees – and his impact on helping improve the state's roads and advocacy for strong paving markets helped earn Welsh the association's Industry Service Award in 2008.

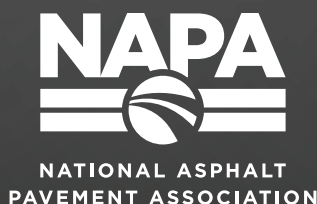
The partnering of Cobb and Welsh came about in the 1990s when both worked on the association's Technical Committee. At the time, Flexible Pavements' board and Technical Committee were seeing the possibility of the industry losing market share due to a proprietary treatment that was attracting interest from specifiers. "... Gary and Pat were tapped to develop a mixture that was competitive in price and would retain the attributes of smoothness and quietness that are typical of thicker asphalt overlays," FPO President/CEO Cliff Ursich said.

Smoothseal (aka Sand Asphalt with SBR Latex) was developed by this year's Baker Award recipients, and proved to provide a smooth, quiet ride at an economic price – as the trial project on State Route 508 in Logan County successfully served the public for 13 years before resurfacing became necessary.

In presenting the award, Ursich said, "Pat, Gary, on behalf of the members of this association – Thank you! Thank you! The brilliance of your innovation and the lasting impact of your work is deeply appreciated."

AT JUST A FRACTION OF AN INCH, IT'S THE BIGGEST THING IN PAVEMENT PRESERVATION.

By any measure, Thinlay™ thin asphalt overlays are the answer to our nation's immediate demand for pavement preservation. Starting at a depth of 3/4", this armor-like suite of asphalt mixes is tailored to local needs to prolong pavement life — making roads stronger, smoother, safer and more drivable. Driver safety is enhanced and fuel consumption and noise are reduced, all while using a process that can also recycle and reuse natural resources. In fact, Thinlays are the most cost-effective pavement preservation option for ensuring the long-lasting performance drivers demand.




LEARN MORE AT WWW.ASPHALTPAVEMENT.ORG/THINISIN



Technical
Seminar Topics,
Part 2

Milling Strategies for Composite Pavement Rehabilitation Projects



This is the second of a series of articles that will address various topics and provide practical tips intended to help determine repair strategy as well as improve the design and construction of your pavement rehabilitation project.

In Part 1, (*Ohio Asphalt* Spring 2018) we discussed the importance of conducting a Pre-Design Pavement Investigation where we emphasized the benefits of implementing a pavement coring program.

We'll next discuss the types of milling methods available when using ODOT Construction and Materials Specifications (C&MS) items of work. We will define when these items are best applied and will provide various recommendations and miscellaneous tips to assist you in making decisions regarding milling on your project.

Milling asphalt concrete when resurfacing or rehabilitating composite pavements can be accomplished using any one of three different ODOT specifications. Which item a designer chooses depends upon project scope, pavement condition, designer intent and other factors.

The first and most commonly used specification is Item 254 – Pavement Planing, Asphalt Concrete. When using Item 254, the designer simply specifies the desired planing depth and the contractor will set his milling equipment to remove the depth indicated in the plans. If designer intent is to remove all asphalt and the existing overlay is not perfectly uniform in depth, undesirable scabbing or thin lifts of old asphalt concrete may be left in place when using this Item.

A uniform cut will produce a surface parallel to the existing profile and cross slope, and may do little to improve the smoothness of the road. If correcting profile or cross slope is desired, planing to a design profile and cross slope should be specified.

Pavement Scabbing



(Courtesy of Craig Landefeld)

KOLD-FL
Pourable Crack Filler

NOW FLOWING

NO HEATING REQUIRED
Works directly out of the container as long as the ambient temperature is above 32° F and below 90° F.

SMALLER CREWS
Only requires someone to pour and one person to squeegee.

SAFER TO USE
No hot, heavy and cumbersome safety clothing.

The makers of UPM[®] mix
Unique
Paving Materials Corp.

UniquePavingMaterials.com
(800) 441-4880 • Cleveland, Ohio

The second ODOT specification is Item 202 – Wearing Course Removed. This item is used to remove all asphalt from the surface to the top of the concrete (or brick) or to remove the specific layer or layers shown on the plans. Over time, as repairs and resurfacing take place, variable thickness overlays are used to smoothen pavements that have faulted or settled or heaved in localized areas. If a designer's intent is to remove the entire overlay without the possibility of scabbing or leaving thin lifts of old asphalt in spots, Item 202 should be used. This Item places responsibility on the contractor to make any adjustments necessary to remove the entire overlay to the top of the concrete. Avoiding scabbing and thin lifts of old asphalt is necessary to avoid delamination during construction and paving operations. Furthermore, it facilitates stronger bonding, decreased segregation and improved density when placing new asphalt courses.

The third milling option is ODOT Supplemental Specification (SS) 897 – Pavement Fine and Micro Planing. Although not typically appropriate for major rehabilitation or multi-course resurfacing projects, Item 897 is highly recommended when placing a one-course overlay. Item 897 – Class A, Fine Planing, is typically specified for milling depths of ½ inch to 1 inch. This operation provides a finely

ground, less aggressive surface texture that is ideally suited for thin lift preservation projects and other one-course resurfacing projects. Item 897 – Class B, Micro Planing is used to restore macrotexture to provide short-term (one to three-year) skid correction.



(Courtesy BOCA Construction)



**Our Quality
and Service
is Unmatched
Since 1978**

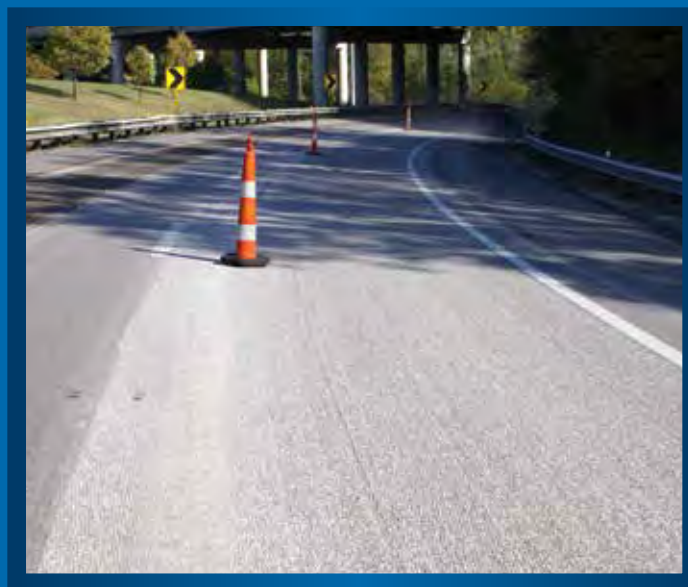
- ✦ Asphalt Planing
- ✦ Micro Milling
- ✦ Fine Milling
- ✦ Excavation – Up to 16.5"
- ✦ Bridge Deck Scarification
- ✦ Type 2 Rumble Strips
- ✦ Diamond Grinding & Grooving



BOCA Construction, Inc.
380 Eastpark Drive, Norwalk, Ohio 44857
Office (419) 668-5575, Fax (419) 663-0377
An Equal Opportunity Employer

Visit www.bocaconstructioninc.com
for more on our services, capabilities, and history

Micro Planing for Skid Correction



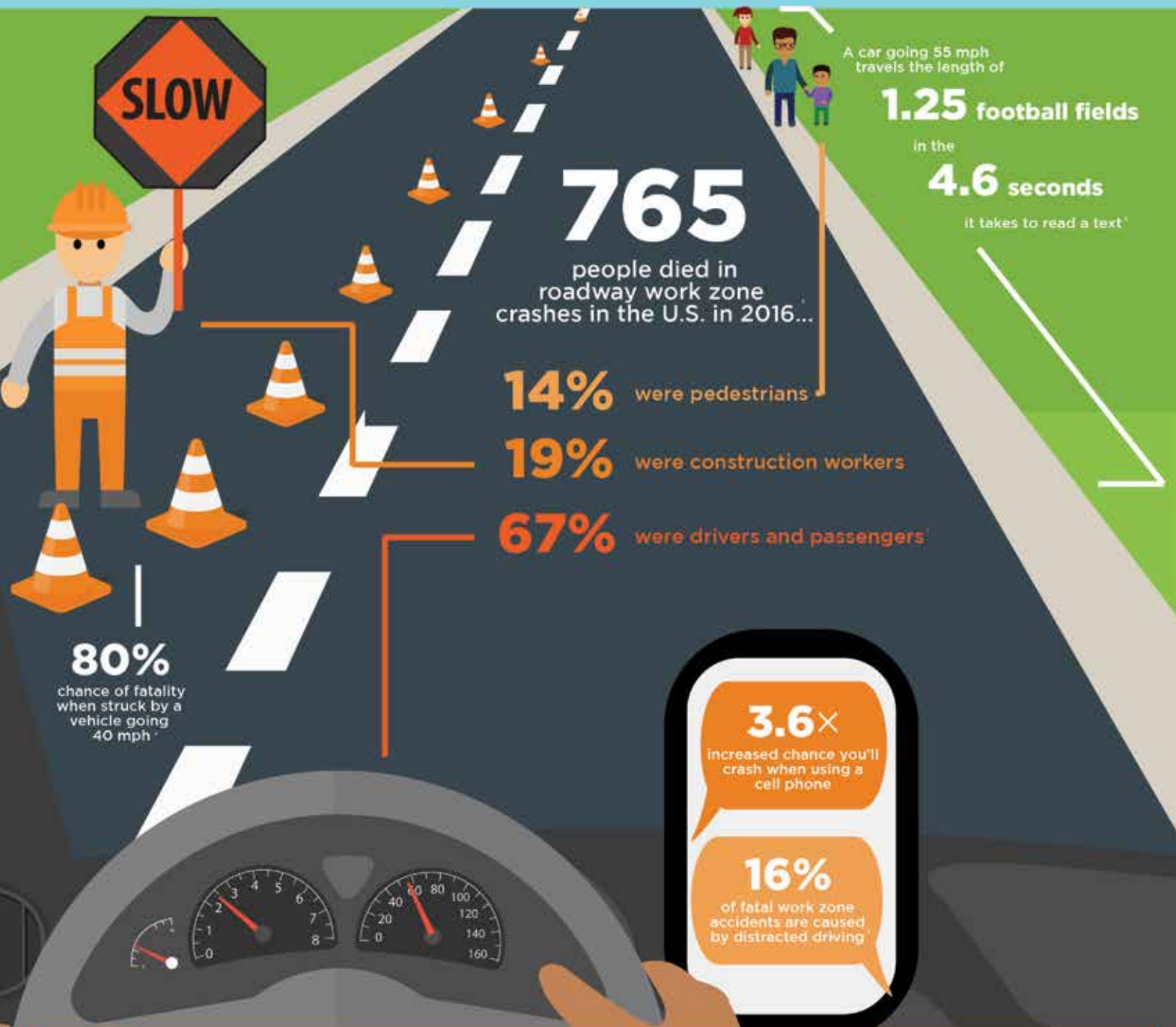
(Courtesy BOCA Construction)

In Part 3 of our Technical Seminar Topics, which is planned for the *Ohio Asphalt* Fall 2018 issue, we will provide various recommendations and miscellaneous tips regarding how to best use these specifications to implement an appropriate milling strategy for your resurfacing or rehabilitation project.

O A

A Moment Can Save a Life

When driving in a work zone, pay attention. Someone's future is in your hands.



Average number of texts sent/received per day: **32**

Texts requiring an answer while you are driving: **0**

Visit www.WatchForUs

*NHTSA Traffic Safety Facts: Roadway Departures, Lane Departures, and Roadway Exits (2013).
†Chen, M. & A. S. (2016). The Impact of Work Zone Speed Limits on the Safety of Heavy Trucks. Transportation Research Board, Washington, DC.
‡Dwyer, T. A. & S. J. (2016). The Impact of Work Zone Speed Limits on the Safety of Heavy Trucks. Transportation Research Board, Washington, DC.
§Chen, M. & A. S. (2016). The Impact of Work Zone Speed Limits on the Safety of Heavy Trucks. Transportation Research Board, Washington, DC.
¶Baker, K. (2016). The Impact of Work Zone Speed Limits on the Safety of Heavy Trucks. Transportation Research Board, Washington, DC.

**WATCH
FOR
.US**

CELEBRATING THE LEGACY OF

Peter M. Alex



Accepting a Flexible Pavements of Ohio award in 1998 for quality asphalt pavement construction were The G.R. Osterland Company's (from left) Pete Alex, Bill Vuk, John Chagin and Scott Clark.

Peter M. "Pete" Alex, retired president & C.O.O. of The G.R. Osterland Company, passed away March 29th. The members of Flexible Pavements of Ohio extend our sympathies to the Alex family. We mourn with you over the loss of Pete.

The G.R. Osterland Company joined Flexible Pavements Inc. in 1990, and in doing such Pete Alex made the company's presence known. Early on, Pete expressed his intentions to participate in the leadership of the association. Within three years of Osterland becoming an FPO member, Pete Alex was on the FPO Board of Directors. He served in that capacity for the next 13 years.

Pete brought a new dynamic to the board. The consummate marketer, he chaired the FPO Marketing & Promotion Committee as well as the Marketing Committee of the National Asphalt Pavement Association. He was innovative and encouraged innovative thinking. "MEGA BASE" was one such initiative. It won the favor of northeast Ohio steel manufacturers and saw exclusive use in those pavement applications.

As a marketing practitioner, Pete Alex understood that the success of a marketing effort depended on delivering consistently high-quality asphalt pavement construction to the industry's customers. Quality trumps all.

Pete had creative expressions for challenging the industry to raise the bar of quality. His credibility was found in the fact that he ran Osterland with a "Total Job Quality" (TJQ) consciousness. TJQ was emblazoned on the minds of Osterland, and Pete led the charge as an FPO director to ensure it was similarly implemented industry-wide. Other companies caught the vision for total quality management and made progress inculcating those principles. Even a new ODOT administration under the direction of Jerry Wray took on - in a serious way - the Deming Principles associated with total-quality management. Pete chaired the FPO Marketing and Promotion Committee until his retirement from the board in 2006.

Pete Alex was fully committed to ensuring that the mission of the association was achieved: the highest quality in asphalt pavement construction. Beyond marketing and promotion, Pete served FPO members as chairman of the board as well as a member of the Legislative, Annual Meeting, Nominating and Executive committees. Always promoting the industry's best interests, he participated in fly-ins to D.C. and walked the halls of Congress speaking with the Ohio delegation to gain support for funding road construction.

The Legacy of Pete Alex lives on. FPO has forever been impacted by the TJQ principles that Pete Alex so vigorously proclaimed. The association continues to build on those truths espoused as we pave to the future. To the Alex Family, the asphalt industry expresses its sincerest condolences for your loss. We pray the Lord's comfort, encouragement and His bringing wonderful memories of joyful times.

Holy Bible, New Testament, 1Thesalonians, Chapter 4, Apostle Paul

Brothers and sisters, we do not want you to be uninformed about those who sleep in death, so that you do not grieve like the rest of mankind, who have no hope. For we believe that Jesus died and rose again, and so we believe that God will bring with Jesus those who have fallen asleep in him. According to the Lord's word, we tell you that we who are still alive, who are left until the coming of the Lord, will certainly not precede those who have fallen asleep. For the Lord himself will come down from heaven, with a loud command, with the voice of the archangel and with the trumpet call of God, and the dead in Christ will rise first. After that, we who are still alive and are left will be caught up together with them in the clouds to meet the Lord in the air. And so we will be with the Lord forever. Therefore encourage one another with these words.

O A

OSTERLAND

Total Job Quality



**KOKOSING
MATERIALS, INC.**

P.O. Box 334, Fredericktown, Ohio 43019
Phone: (740) 694-9585 • Fax: (740) 694-1100
www.kokosingmaterials.com

kokosing



CONSTRUCTION COMPANY, INC.

P.O. Box 226, Fredericktown, Ohio 43019
Phone: (740) 694-6315 • Fax: (740) 694-1481
www.kokosing.biz



Asphalt plants located in the following Ohio cities:

Cleveland
Columbia Station
Columbus
East Claridon
Fredericktown

Garfield Heights
Mansfield
Medina
Sheffield

St. Louisville
Upper Sandusky
Westerville
Woodville
Wooster



Liquid AC terminals located in:

Wheelersburg, OH
Mansfield, OH

SBS Polymer manufacturing plant located in:

Mansfield, OH



Tradition ♦ Excellence ♦ Quality ♦ Innovation



**BARRETT PAVING
MATERIALS INC**

"We Build The Roads You Travel"



3751 Commerce Blvd • Middletown, Ohio 45005
(513) 422-4662 | Fax: (513) 422-3336

Contractors for:

Heavy Highway Commercial Paving



2589 Needmore Road, PO Box 13671 • Dayton, Ohio 45414
(937) 424-9100 | Fax: (937) 424-9105

Suppliers of:

Sand & Gravel • Crushed Limestone • Asphalt Concrete

www.barrettpaving.com

A subsidiary of Barrett Industries Corporation



**Ebony
Construction
Company, Inc.**

Asphalt Paving

Milling

Material Supply

Certified in Ohio & Michigan

8(a), DBE, MBE, SDB, EDGE, NOMBC

419-841-3455 [phone]

419-841-7845 [fax]

ebonyco.com [website]

3510 Centennial Road, Sylvania, Ohio 43560

'Equal Opportunity Employer'

Mark Your Calendars

OHIO ASPHALT INDUSTRY CONFERENCES & TECHNICAL TRAINING



**Ohio Transportation Engineering
Conference**
October 2-3, 2018
Columbus Convention Center
400 North High St.
Columbus, OH 43215

The Ohio Transportation Engineering Conference (OTEC) is a two-day event attended by more than 3,000 transportation professionals from throughout the nation. OTEC is co-sponsored by the Ohio Department of Transportation and The Ohio State University.

Visit the OTEC website at otec.transportation.ohio.gov/ for up-to-date conference information as well as archived material from previous conferences.



Ohio Asphalt Paving Conference
February 6, 2019
The Fawcett Center
The Ohio State University
2400 Olentangy River Rd.
Columbus, OH 43210

The Ohio Asphalt Paving Conference is a collaborative effort of state and local government, academia and the asphalt industry to present practical, usable technologies and strategies for the design and construction of asphalt pavements.

Visit FPO's website at www.flexiblepavements.org for more information regarding this event.



Ohio Asphalt Expo
March 26-27, 2019
Columbus/Polaris Hilton Hotel
8700 Lyra Dr.
Columbus, OH 43240

The Asphalt Expo is Ohio's premier asphalt pavement event with multiple concurrent educational sessions and an indoor and outdoor trade show and exhibition. If you construct, inspect, manage or maintain local or private transportation infrastructure, the Ohio Asphalt Expo has the information you need to ensure a successful, long-lasting asphalt pavement.

Visit the Expo website at www.ohioasphaltexpo.org for more information regarding this event.

New Member Welcome

Flexible Pavements of Ohio would like to welcome the following groups as new members of the association.

Eco Solution Distributing
Jack Doheny Companies
Jobsite Technologies Inc.
K-Tech Specialty Coatings Inc.
Trout River Industries
Troxler Electronic Laboratories Inc.



Please join us in welcoming our new members.



**OUR
CONSTRUCTION
LAW TEAM IS
GROWING**

ANDREW J. NATALE AND AARON S. EVENCHIK
JOIN HAHN LOESER'S CONSTRUCTION LAW TEAM

HAHN LOESER
attorneys at law

Industry knowledge, experience, efficiency and outstanding client service define Hahn Loeser's results-oriented Construction Law Team. We welcome Andy Natale and Aaron Evenchik to our team of more than 20 attorneys dedicated to serving clients in all aspects of construction law and who pride themselves on hard work, responsiveness, and an unyielding commitment to achieving outstanding results for their clients.

HAHN LOESER & PARKS LLP | HAHN.LAW.COM | 216.621.0150
Rob Remington | Construction Group Chair | rrr@hahnlaw.com
Andy Natale | anatale@hahnlaw.com
Aaron Evenchik | aevenchik@hahnlaw.com

CLEVELAND | COLUMBUS | NAPLES | FORT MYERS | SAN DIEGO | CHICAGO

ASPHALT WORD SEARCH

Locate the asphalt terms below, running horizontally, vertically or diagonally. Words may be forward or backwards.

A	J	U	K	F	U	A	D	D	N	L	B	E	R	N
Z	S	O	Z	N	L	F	E	I	O	A	O	M	B	S
W	E	P	I	V	H	P	N	S	I	U	K	U	D	U
D	W	D	H	N	M	F	S	T	T	T	P	L	W	O
R	E	S	U	A	T	P	I	R	C	E	W	S	U	R
I	E	F	E	C	L	S	T	I	A	P	P	I	G	O
Y	T	M	O	T	A	T	Y	B	P	R	A	O	A	P
U	N	N	Y	R	A	T	N	U	M	E	V	N	E	R
G	C	S	C	L	M	G	I	T	O	P	I	S	F	E
P	A	V	E	R	O	A	E	O	C	J	N	S	X	D
G	N	I	N	A	L	P	T	R	N	R	G	O	S	N
M	G	N	I	R	E	E	N	I	G	N	E	I	R	I
K	M	A	R	S	H	A	L	L	O	G	M	O	N	B
C	O	N	S	U	L	T	A	N	T	N	A	I	R	H
E	L	B	A	E	M	R	E	P	C	O	R	I	N	G

AGGREGATES

ASPHALT

BINDER

COMPACTION

CONSULTANT

CORING

DEFORMATION

DENSITY

DISTRIBUTOR

EDUCATION

EMULSIONS

ENGINEERING

JOINTS

MARSHALL

PAVER

PAVING

ADVERTISERS INDEX

Asphalt Materials Inc.13	The Gerken Companies 5	Ohio CAT 33
Asphalt Shingle Grinding Service LLC 5	JASA Asphalt Materials/	SealMaster15
Barrett Paving Materials Inc. 43	Russell Standard Corp. 34	The Shelly Company 9
BOCA Construction 40	John R. Jurgensen Company 9	Shelly & Sands Inc. 46
Columbus Equipment Company IFC	Kokosing Construction Company Inc. 43	Southeastern Equipment Company Inc. IBC
Columbus Equipment Company 3	The McLean Company BC	Transtech Systems Inc.7
Ebony Construction Company 43	The McLean Company 8	Unique Paving Materials Corporation 39
Hahn Loeser & Parks LLP 44	Northstar Asphalt Inc.14	



Shelly & Sands, Inc. Building on a Long History of Quality Construction

Asphalt Materials & Paving • Construction Aggregate
Liquid Asphalt & Emulsions • Construction Management
Site Development • Design Build



Since 1944, from locations throughout the state, Shelly & Sands has been safely and efficiently delivering the highest quality construction materials and projects in Ohio and Ohio's neighbor states.



Contact us today to let us know how we can earn the opportunity to assist you in making your project a success.

Corporate Headquarters
3570 South River Road • P.O. Box 1585 • Zanesville, Ohio 43702-1585
740 453-0721 • www.shellyandsands.com

Built to Keep the World Moving

State-of-the-art road building equipment



- Pavers
- Compaction Equipment
- Cold Milling Machines
- Stabilizers
- Recyclers



- ChipSpreaders
- Asphalt Distributors
- Asphalt Transports and Tanks
- Live Bottom Trailers

Call Today! 800-798-5438

Serving Ohio, Indiana, Kentucky, and Michigan

www.southeasternequip.com



CLOSE TO OUR CUSTOMERS

 **WIRTGEN GROUP**

**CLOSE
TO
OUR
CUSTOMERS**

► Find out more: www.wirtgen-group.com/america



WIRTGEN

/

VÖGELE

/

HAMM

/

KLEEMANN



Hudson, OH 330.655.5900

Columbus, OH 614.475.2880

West Chester, OH 513.777.5556