

OHIO ASPHALT

THE JOURNAL OF OHIO'S ASPHALT PROFESSIONALS

WINTER 2017-18

ISSUE 4 • VOLUME 14



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

OHIO RIDES ON US

Asphalt.



OPERATOR COMFORT & CONVENIENCE MAKE THE JOB EASIER

EACH ROADTEC PAVER IS ERGONOMICALLY DESIGNED FOR BETTER VISIBILITY, REDUCED NOISE, AND COMFORT.

- The New *Clearview FXS*® fume extraction system provides greater visibility to the front of the paver hopper, to the opposite side, and down to the augers.
- Paver controls are mounted to the pivoting seat station, which hydraulically swings out past the side of the machine for excellent visibility.
- All functions are easily accessible, including feed system and flow gate controls.
- Noise levels cut in half and improved visibility allow the operator to stay in constant communication with the rest of their crew.



LET ROADTEC MAKE YOUR JOB EASIER - VISIT ROADTEC.COM

ROADTEC an Astec Industries Company

© 2015 ROADTEC, INC. ALL RIGHTS RESERVED

800 MANUFACTURERS RD • CHATTANOOGA, TN 37405 USA

1.800.272.7100

+1.423.265.0600



Ohio's Dependable Dealer



columbusequipment.com

POWER. PERFORMANCE. PEACE OF MIND.

Columbus Equipment Company and Roadtec Partner to Optimize Uptime and Production Through Industry-Leading Support of Innovative, High-Quality, Dependable Road Building and Asphalt Paving Equipment.

**The biggest benefit of Roadtec equipment is uptime.
We just don't have the downtime we have had with other machines.**

Dean Breese; Vice President, Gerken Paving Inc.



Serving You From Ten Statewide Locations

COLUMBUS
(614) 443-6541

TOLEDO
(419) 872-7101

CINCINNATI
(513) 771-3922

RICHFIELD
(330) 659-6681

CADIZ
(740) 942-8871

DAYTON
(937) 879-3154

MASSILLON
(330) 833-2420

ZANESVILLE
(740) 455-4036

PAINESVILLE
(440) 352-0452

PIKETON
(740) 289-3757

www.columbusequipment.com

OHIO ASPHALT

THE JOURNAL OF OHIO'S ASPHALT PROFESSIONALS

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

- 6 THE PRESIDENT'S PAGE
I BUILD AMERICA – JOIN 'THE MOVEMENT'
- 8 YOUR PARKING LOT – ASSET OR LIABILITY?
- 10 FOOTPATHS TO FREEWAYS, PART IV
AFTER A BUMPY RIDE, NEW OPPORTUNITIES AHEAD
By Emily Foster
- 14 FPO KICKS OFF TRAINING SEASON WITH TECHNICAL SEMINARS
- 16 FPO SCHOLARSHIP PROGRAM: IMPACT REPORT 2017
- 24 MARK YOUR CALENDARS
- 26 INDEX TO ADVERTISERS

CONNECT ON



ON THE COVER: THE GERKEN PAVING INC. CREW ON THE HILLSDALE PAVING PROJECT. GERKEN PAVING IS ONE OF SEVERAL FPO-MEMBER COMPANIES AMONG THE FOUNDING MEMBERS OF I BUILD AMERICA, A PROGRAM THAT IS GETTING THE WORD OUT ABOUT THE BRIGHT OPPORTUNITIES AVAILABLE IN CONSTRUCTION TRADES. SEE PAGE 6.



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

Cole Graham
Shelly and Sands, Inc.

Co-Chair

Bryce Burgett
Olen/Kokosing Materials, Inc.

Treasurer

Brent C. Gerken
Gerken Paving, Inc.

Board of Directors

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

James P. Jurgensen II
Valley Asphalt Corp.

Ty Nofziger
The Shelly Company

Rodney Russell
Barrett Paving Materials, Inc.

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

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](https://twitter.com/ibuildamericaOHIO)



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

Shelly Focuses on Growing Value



For more than 70 years, The Shelly Company continues to promote growth, innovation and infrastructure. We are a local business that's located everywhere. Our focus is growing value for our customers, communities, and employees.

We aren't just fulfilling an order, we are making and delivering the materials that build a better tomorrow.

Visit shellyco.com to learn more!

THE
shelly
COMPANY

THE PRESIDENT'S PAGE



CLIFFORD URSICH, P.E.
PRESIDENT & EXECUTIVE DIRECTOR

“Founding members of the I BUILD AMERICA ‘MOVEMENT’ include Flexible Pavements of Ohio members John R. Jurgensen Co., Gerken Paving Inc. and Ohio CAT. I BUILD AMERICA is gaining momentum and doing something about getting the word out about the bright opportunity in the construction trades. How about you?”

“Join ‘THE MOVEMENT’... and they will come.”

I BUILD AMERICA – JOIN ‘*THE MOVEMENT*’

I build America. Well, not me personally, but I certainly advocate for an industry that makes its livelihood building the types of things this nation needs to prosper and protect our American way of life. With the growing economy the USA is currently experiencing – and the prospects of a mega infrastructure bill yet to come, for which I’m keeping the faith – the need for tradesmen and laborers is becoming all the more a concern.

“Made in the USA”

Recently, President Trump spoke to the nation about the tax reform bill that by the time you will have read this has “likely” been signed into law. The president promises tax reform will grow the economy all the more, and the precious phrase “Made in the USA” will be seen on a growing number of products. That’s encouraging news for all sectors of the economy, especially ours – the construction industry. Stuff has to be built, and since construction is not an import there will be a strong demand for raw materials to build with and a commensurate need for qualified tradesmen to build it.

“Build It and They Will Come”

Some of you will recall the 1989 movie “Field of Dreams.” The phrase: “Build it and they will come,” is an adaptation from that film.

Invoking the phrase has a way of getting an initiative over the hump and making headway toward success – there are no guarantees, however. With all the building that is currently going on – and more construction on the way – there is no guarantee that the labor pool will be adequate with respect to skillsets or number of available workers.

Doing Something About It

In recognition of this labor concern, forces are marshalling around the nation. The Associated General Contractors of America (AGC) has partnered with I BUILD AMERICA to raise awareness of the construction trades to youth around the nation. I BUILD AMERICA aims to educate about the value of construction and recruit new workers to the industry.

Founding members of the I BUILD AMERICA “MOVEMENT” include Flexible Pavements of Ohio members John R. Jurgensen Co., Gerken Paving Inc. and Ohio CAT. I BUILD AMERICA is gaining momentum and doing something about getting the word out about the bright opportunity in the construction trades. How about you?

Join “*THE MOVEMENT*” – and they will come.

ibuildamerica.com



PRESERVING PAVEMENTS SINCE 1959



The Makers of
UPM® Cold Mix.



High performance asphalt and concrete pavement
maintenance, repair and preservation products.



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



**KOKOSING
MATERIALS, INC.**

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



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	Garfield Heights	St. Louisville
Columbia Station	Mansfield	Upper Sandusky
Columbus	Medina	Westerville
East Claridon	Sheffield	Woodville
Fredericktown		Wooster



Liquid AC terminals located in:

Wheelersburg, OH
Mansfield, OH

SBS Polymer manufacturing plant located in:
Mansfield, OH






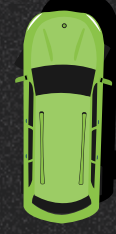






Tradition ♦ Excellence ♦ Quality ♦ Innovation

YOUR PARKING LOT – ASSET OR LIABILITY?

ASPHALT : THE SMOOTHEST WAY TO WELCOME CUSTOMERS

Whether at a business, a shopping center, a school, house of worship, recreation area or apartment building, a **PARKING LOT** is one of the first things a person sees when arriving at their destination. First impressions matter, and a poorly constructed or maintained lot can reflect negatively on an establishment. A well-maintained parking lot is also safer and easier for both pedestrians and drivers to negotiate. Asphalt pavements are the superior choice for parking lots because they are quick to construct, long-lasting, sustainable and easy and cost-effective to maintain. Plus, because asphalt is everywhere, there are qualified and capable asphalt paving companies in every community across the nation.

 <p>SPEED OF CONSTRUCTION Construction and maintenance activities can be done quickly and at night, which eliminates inconvenience for customers and business operations.</p>		 <p>PERFORMANCE Long-life asphalt pavements are designed in layers so that they never need full-depth repair or reconstruction.</p>		 <p>COST The initial construction and long-term ownership costs for asphalt pavements are typically less than other pavement alternatives.</p>
	 <p>AESTHETICS A business's exterior appearance influences the decision of where to shop for 95 percent of consumers.¹</p>		 <p>SUSTAINABILITY Asphalt pavements offer several opportunities to earn credits under green rating systems, including porous asphalt, recycled materials and environmental product declarations.</p>	

1. Morpace (2011). Consumers Are Influenced by the Physical Appearance of a Retailer. Morpace Omnibus Report: April 2011. Morpace Inc., Farmington Hills, Michigan.

APA ASPHALT PAVEMENT ALLIANCE
www.asphaltroads.org

As illustrated above, your parking lot can be an attractive asset to your facility. Coupling that with the durability, economy and sustainability makes asphalt parking lots a good value. A well-designed, well-constructed parking lot can provide long-lasting service to your customers, provide a good appearance to complement your business and be quick, easy and economical to maintain. By contrast, one that is too thin or poorly constructed can suffer early failures and become a liability.

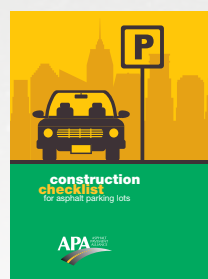
So, how do you ensure that your parking lot becomes an asset and not a liability? Fortunately, there is readily available information to help you through the process.



A great place to start is with the video produced by the Plantmix Asphalt Industry of Kentucky (PAIKY), "Best Practices for Parking Lot Design and Construction," which can be viewed at <https://www.youtube.com/watch?v=qSXXqYyNNxU>. The video is comprehensive and consistent with construction in Ohio. A companion document, "Asphalt Parking Lot Guide," can be downloaded at <http://www.paiky.org/wp-content/uploads/2013/05/Parking-Lot-Guide.pdf>.

A little closer to home, Flexible Pavements of Ohio (FPO) has a wealth of technical guidance available on the FPO website. Under the menu item for the FPO design Guide you can find guidance for design of parking lots at <http://www.flexiblepavements.org/technical-resources/design-guide/design-guide>.

Guidance for selecting and specifying asphalt mix types specific to Ohio can be found in the technical bulletin, "Specifying Asphalt Pavements in Ohio," which is available at http://www.flexiblepavements.org/sites/www.flexiblepavements.org/files/specstb2017_final.pdf.



And lastly, the Asphalt Pavement Alliance, a partnership of the Asphalt Institute, National Asphalt Pavement Association and the State Asphalt Pavement Association, recently published a construction checklist for asphalt parking lots. This checklist provides items to consider throughout the entire construction process, from project planning, soil and climate conditions, material selection and construction best practices. The "Construction Checklist for Parking Lots" is available in its entirety on FPO's webpage at http://www.flexiblepavements.org/sites/www.flexiblepavements.org/files/apa_parking_lot_checklist_computer_printable.pdf.

Time to SERVICE the POI 380

Contact us for Annual Service

TransTech
TRANSTECH SYSTEMS, INC.

1-800-724-6306
transtechsys.com

World Asphalt 2018 Booth 2735

f g+ YouTube twitter in

EC **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'

Mobile App

OHIO ASPHALT
THE JOURNAL OF OHIO'S ASPHALT PROFESSIONALS

Download it on your smartphone today!

Download on the App Store



Photo courtesy of Resource
International Inc.



FOOTPATHS TO FREEWAYS, PART IV

By Emily Foster

AFTER A BUMPY RIDE, NEW OPPORTUNITIES AHEAD

This is the final installment of a four-part series of articles on the history of roadway construction in Ohio, how asphalt pavement became the dominant roadway building material and what challenges the industry may face in the decades to come. The first, second and third parts of the series appeared in the spring, summer and fall 2017 issues of Ohio Asphalt. We hope you enjoy this look at where our industry came from and how together we can use our hard-earned expertise to meet Ohio's future highway needs.

The asphalt paving industry entered the 21st century at a time of optimism, product improvements, increased organizational strength through Flexible Pavements, and a strong commitment to education. The concrete wars receded into the past. The industry was healthy and vigorous. Then the bottom dropped out. America plummeted into the biggest recession since the Great Depression. Few businesses were left unscathed.

In the asphalt paving business “everything is about tonnage,” explains Tim Bell, president, M&B Asphalt Company. When the tonnage fell in 2008, everyone experienced the dip in business and uncertainty for the future. Federal stimulus money allowed the highway contractors to maintain many programs with the “shovel-ready” projects federal funds supported. Commercial and private business, however, took a hit, and cities and townships put off their roadwork for better times.

The companies that did a little of everything felt the pinch most. “You held back on buying equipment. Your inventories of stone and liquid asphalt dropped. You were warier of how much you were going to buy,” Bell said. Competition for jobs was keen with loads of people bidding at the lowest prices they could manage. There were layoffs and several years of anxious uncertainty.

Naturally, the difficult business climate affected the industry organization as well, as Flexible Pavements membership dues were based on tonnage. New hires were put on hold; the Ohio Expo planned for reduced attendance and offered a program addressing how to reduce job costs and raise the appeal of asphalt preservation products.

Bell remembers a “very tough” two years, followed by a gradual growth in commercial and private business as deferred maintenance came due. By the fourth year, the economy and paving industry were normalizing. Also over time, cities and counties passed levies to catch up with road maintenance. “Now everybody seems to be busy,” Bell said.

Brent Gerken, president of Gerken Paving Inc., said that the biggest boost out of the recession resulted from the state’s issuance in 2013 of \$1.5 billion in Ohio Turnpike revenue bonds. Among the jobs funded was the Interstate 75 upgrade to three lanes. “It was the bridge that allowed us to get from almost no commercial work to today, where commercial work has almost come back from before 2008,” he said.



Because the bond funds will be exhausted in 2018, the Ohio Department of Transportation (ODOT) has introduced a belt-tightening asset management program that emphasizes preservation of road surfaces over new builds. Rod Russell, vice president of Operations at Barrett Paving Materials, said, “The industry must meet the demands of the marketplace. ODOT wants the best value possible. Designers want to introduce the best options available. It’s up to the industry to be innovative.”

In other words, it is in the interest of the paving industry to stay viable with high-value products that meet the current ODOT standards and requirements. One of these has been Smoothseal (ODOT’s “Fine-Graded Polymer Asphalt”). According to life-cycle analysis, Smoothseal has been “a very good performer and good value,” said Russell. A newer product, Thinlay, is designed for lighter traffic. Starting in 2016, it has been applied in several test locations.

Dave Slatzer, deputy director of ODOT’s Division of Engineering, estimates that after three to five years of monitoring, ODOT may also include Thinlay in its specifications. Both products are more expensive initially than low-end chip seal and micro-surfacing, but they give higher value



MAX3 DISTRIBUTOR



8616B ASPHALT PAVER



5300 ASPHALT PAVER

LeeBoy



www.themccleancompany.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

www.LeeBoy.com | 704.966.3300

over time and, not incidentally, a smoother ride for the driver. They are just part of the industry's commitment to innovation in a challenging market.

The Great Recession also saw a sea change in asphalt plant technology with the introduction of "WMA" (warm mix asphalt) in 2008. Thanks to the legendary J. Don Brock, who created the technique, equipment is now available that injects a small amount of water into the asphalt, making it foam "like shaving cream," according to Larry Shively, vice president for Quality Control, The Shelly Company. The process increases the volume of the asphalt binder, allowing it to coat the aggregate easily at a lower temperature and produce better pavement density. Warm mix has rapidly become the industry standard. It not only saves energy, it also reduces emissions – a win-win for pavement contractors.



Shively said Shelly was "instrumental" in introducing warm mix into Ohio. Learning of Brock's device, "We installed one in our plant outside Columbus and gave a demo to ODOT with Brock's company, ASTEC Industries. It was seen as a viable process and accepted." Today, according to Shelly's website: "Our warm mix asphalt has been utilized for the U.S. Green Building Council LEED credits." Another environmental bragging right for the most-recycled product in the world.

A couple of chronic issues with laying asphalt pavement have been addressed in recent years. One is the problem of segregation, in which coarse and fine materials separate leading to reduced life of the pavement. ODOT Construction Pavement Engineer Craig Landefeld said the problem may begin at the stockpiles of aggregate, at the plant or the silo or even when loaded into the truck or the paver. In the search for a solution, a test project used existing equipment to re-blend the mix at the jobsite. Based on the results, Landefeld said, "We produced modified specifications to require this remixing machine." The cost benefits are clear, as taking measures to reduce segregation means avoiding repairs later. In addition, ODOT has stepped up education efforts to encourage the use of best practices when paving.

A second nagging issue has been longitudinal joint failure, in which the seam created as lanes are paved presents an opportunity for moisture infiltration to work its damage. Landefeld said that on-average the joints now need repair about two years before the rest of the pavement. If density can be improved at the joint, the savings are significant. The methods contractors use to achieve the optimum joint density is their choice, Landefeld insists. They may slightly overlap the adjacent lane, use non-standard joint configurations or roller patterns, whatever it takes to get better density. They may pave wider, paving two lanes at once, so there is no joint at all. And ODOT is also looking at a void-reducing asphalt membrane, being tested in Illinois, as another tool in the belt.

Landefeld said ODOT also is looking at two new technologies. One is thermal imaging using a paver-mounted thermal imaging device, which provides a temperature map of the freshly paved asphalt. He notes that Flexible Pavements of Ohio has developed a new gradation for the 19-millimeter mixture that mitigates segregation. ODOT plans to evaluate it with the thermal unit, concluding that while the new gradation may cost more than the 19-millimeter mixture now used, its cost benefits may be positive. Stay tuned for more news about this innovation. The second new technology is ground-penetrating radar, which can map the pavement density and thereby show areas of deficient compaction. It would be a much more thorough examination of the pavement than the present practice of testing randomly selected core samples. Look for some determination on this technology in the next five or so years.



Looking ahead at the industry's near future, now that production has recovered from the recession, one big challenge causing a lot of discussion among Flexible Pavements' board members is that of attracting and retaining the next generation of employees.

"Everyone is experiencing this," said Amy Hall, president and treasurer of Ebony Construction Company. "I think we have to expand the aging

workforce into demographic and economic areas that haven't been as appealing to folks in the highway construction industry." That means attracting more diverse applicants by race and gender, which may in turn mean changes in the workplace to accommodate a different set of needs, such as childcare and family responsibilities for single parents and two-worker families.

That also means responding to the different values of the next generation. Hall points out that younger workers are less inclined to work overtime, for instance, because they value their private time away from work. They are also less inclined to regard their job as lifelong. In fact, they are accustomed to working a job for a couple of years, then moving on. These are values that the industry may simply have to accept and adjust to.



While industry leaders get their heads around the need for change, they also have amped up their outreach efforts. Jackie Alf, executive vice president of the John R. Jurgensen Company, said, "Finding young people in the construction industry is a struggle. There are definitely skills gaps that need to be filled."

Alf and Hall agree that waiting to communicate about the job potential in the paving industry until high school age may be too late. More and more they reach out to middle schools and even younger students to showcase the industry and start students thinking of a career path. As Hall puts it, "If you don't want to go to college, here are some opportunities."

The upside of this effort is that the industry has to step-up to the changing times and workplace culture. In Hall's opinion, "It may be good to

have a different perspective. You have to be a little more flexible. You appreciate people for where they are. They matter and are valued. If you tap into those things you will retain employees going forward."

For now, solutions are still around the corner. "The conversation is just beginning," Hall said.

Emily Foster retired as an associate vice president at The Ohio State University. She earlier worked as a public relations specialist and served as editor of Cincinnati Magazine and as senior editor of Columbus Monthly. Foster has published three books about Ohio history.

OA

Crack Pro

CRACK FILLING EQUIPMENT

Crack Pro
Made in
Ohio
Sandusky, OH

PRESERVING THE WORLD'S PAVEMENT

sealmaster.net | 800-395-7325

SealMaster
Pavement Products & Equipment

LOCATIONS NATIONWIDE

SAFETY • INNOVATION • PERFORMANCE

Rentals Available | Zero Down Financing



FPO Kicks Off Training Season with Technical Seminars

Flexible Pavements of Ohio (FPO) started a busy training season with a series of regional technical seminars in northeast, northwest, central and southwest Ohio. Nearly 150 individuals, ranging from asphalt contractors to consultant engineers and public agency staff all interested in learning practical information on the design, construction and maintenance of asphalt pavements, attended these seminars.

FPO's President & Executive Director Cliff Ursich and Director of Engineering Services Bill Fair provided a comprehensive overview of asphalt binder and mix-type selection as well as pavement design using the web-based PavEXpress software. FPO's Pavements, Materials & Field Applications Engineer Jim Marszal offered strategies for composite pavements rehabilitation and a discussion on the suite of asphalt treatments available for pavement preservation. Aidan McDonnell, from BOCA Construction, joined the FPO engineering staff and provided a presentation on the use of fine and micro milling to enhance pavement safety and smoothness.

Training continues this winter with schools for Field Quality Control Technicians, Level 2 Asphalt Quality Control Technicians and Comprehensive Asphalt Mix Design. These training programs allow individuals to achieve approval by the Ohio Department of Transportation for roles in asphalt pavement quality control from technicians in the lab to paving crews on projects. FPO is also facilitating the return of the Roadway Work Zone Safety Training Seminar. This seminar is conducted by the American Road & Transportation Builders Association and is focused on promoting construction worker safety in roadway work zones.

In addition to FPO's training programs are marquee educational events such as the Ohio Asphalt Paving Conference and the Ohio Asphalt Expo. The programs for these must-attend events are in development and promise to feature dynamic presentations on everything asphalt. The Ohio Asphalt Expo will again feature the popular EXPOEXCEL program with day-long sessions dedicated to providing plant and paver personnel with quality education on best practices in asphalt production and placement.

A detailed listing of FPO's upcoming technical training and seminars can be found on page 24.

P.E.s be Aware! New Continuing Education Requirements

New legislation requires all Professional Engineers in the State of Ohio to complete a minimum of two professional development hours each biennium in the subject of professional ethics relevant to the practice of engineering. This new requirement was effective Dec. 31, 2017.

Guidance on this requirement will be issued by the State Board of Registration for Professional Engineers and Surveyors. Go to www.peps.ohio.gov for additional information.

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



Ph. 419-533-7701

www.GerkenCompanies.com

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

JUST PLANE GOOD!



**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



THE ONE STOP SHOP FOR ALL YOUR ASPHALT NEEDS

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





FLEXIBLE PAVEMENTS OF OHIO SCHOLARSHIP PROGRAM: IMPACT REPORT 2017

Who is Flexible Pavements of Ohio?

Flexible Pavements of Ohio (FPO) is an association representing the interests of the asphalt paving industry in the state of Ohio to federal, state and local governments, private industry and other construction organizations. FPO supports active educational, technical and outreach programs designed to improve and advance quality asphalt construction.



An Investment in Our Industry's Future

Over the past two decades the **Flexible Pavements of Ohio (FPO) Asphalt Industry Scholarship Program** has awarded more than a half-million dollars to more than 400 deserving students across many of Ohio's major universities and colleges.

In addition to the significant financial support it provides for our next generation of leaders, the FPO program has helped to increase awareness of asphalt pavement technologies in and around the schools'

civil engineering , construction management and construction engineering curricula.

It has consistently provided both our scholarship recipients and their classmates in Ohio with greater opportunities for gaining exposure to and practical experience with an underrepresented area of study, as well as a means of developing professional contacts to aid in their careers.

598K
DOLLARS

448
STUDENTS

1
VISION



How Does The Program Work?

To be eligible for an FPO Asphalt Pavement Industry Scholarship, sophomore and junior class students must be working toward a civil engineering, construction management or construction engineering degree at a university in Ohio that offers an accepted course in asphalt pavement technology. Graduate students studying and/or researching asphalt pavement technology may also be eligible.

Recipients of the scholarships ranging from \$1,000 to \$1,500 are selected competitively from the applicants and must agree to take the required course in asphalt technology before graduation. Students may be awarded a scholarship for up to two years.

A Unique Educational Experience

In a recent survey of past scholarship recipients conducted by Flexible Pavements, the respondents from throughout the program's history rated the asphalt technology coursework as one of their best college learning experiences.

Unlike many of students' other program requirements, which are heavy on theory, the asphalt courses have offered hands-on experience with materials and techniques – often both in the classroom and in the field.



12
SCHOOLS

+100
COURSES

THE ASPHALT MIX DESIGN COMPETITION

To complement the scholarship program, FPO conducted an annual asphalt mix design competition from 1997 to 2009, with teams sponsored by their universities. The high-point of the competition was achieved in 2005, when the team from Ohio University, consisting of Jonathan Kovach, Brett Mann and Yun Liao (pictured above with Past FPO President Fred Frecker) and mentored by Dr. Sang-Soo Kim, won both the Ohio and national competitions.

**1997-
2009**

It's a dimension of their overall education experience that these students found particularly valuable.

Even for those who intended to work outside of construction management said the coursework rounded out their perspective and provided insight into important areas they hadn't had much previous exposure to.

All of the respondents agreed that more courses like the Asphalt Technology Course are needed and should be offered in these programs.

Access to Internships and Co-op Programs

The practical nature of course content and students' ability to work directly with different mix recipes and techniques has also been a help in searching for and securing internships.

Those respondents who participated in internships that involved pavement construction or rehabilitation felt more prepared and more able to contribute as a result of the coursework. They attributed this directly to the asphalt class content and experience.

A Statewide Partnership That Benefits All Ohio Motorists

A priority of Flexible Pavements of Ohio's long-range strategic planning has always been working with the educational institutions throughout the state to raise awareness for the role that asphalt plays in quality pavement construction and maintenance, and to promote asphalt research.

Over the past two decades, the number of schools in the area offering coursework in asphalt technology and methods has risen steadily and dramatically.

As of 2017, more than 12 Ohio universities and colleges have incorporated asphalt classes in their curricula, helping students gain valuable insight into construction practices and mix designs. Each of these schools has had students receive scholarships from the annual FPO Scholarship Program.

But even beyond these important aspects the work among our collective organizations has led to a strong and growing partnership that continues to provide far-reaching benefits for all Ohio motorists.

Cooperative initiatives – like those with **The Ohio Research Institute for Transportation and the Environment (ORITE)** and **The Advanced Asphalt Research Laboratory (AARL)** in Ohio University's Russ College of Engineering and Technology – have led to bringing together the some of the brightest minds to help solve Ohio's infrastructure challenges and promote more sustainable construction practices.

What Schools Participate?

Awards have been made to qualifying students selected from applicants at the following participating institutions:

- Bowling Green State University
- Case Western Reserve University
- Ohio Northern University
- The Ohio State University
- Ohio University
- University of Akron
- University of Cincinnati
- University of Dayton
- University of Toledo
- Youngstown State University

"The asphalt technology coursework provided a skill set other classes just can't give you."

BENJAMIN JORDAN, M.S., P.E.

Research Engineer, Ohio University
Russ College of Engineering and Technology

FPO Scholarship Recipient, 2011-2012



An Opportunity to Get Involved and Stay Involved in Our Industry

The FPO Scholarship Program offers another key benefit unique to this particular initiative, which is the full support and deep commitment of Ohio's asphalt industry.

Most recipients, as a result of the award, have had opportunities to network with key people in the industry and begin to build contacts that have served them well throughout their careers.

Several of the schools have brought in industry experts as speakers in their courses, as well as organize field trips to area construction jobsites and asphalt plants.

Many of the past recipients stated that they still maintain connections with the Flexible Pavements staff and other industry executives and find it to be a valuable resource in their jobs.

10

**SPONSORING
ORGANIZATIONS**

87

**PARTICIPATING
MEMBERS**

1

PROGRAM

1

EXPERIENCE

Who Are the Industry Sponsors?

The FPO Asphalt Pavement Industry Scholarship is one of the organization's most popular programs, with support coming from all across the industry, including the following companies and individuals:

- Barrett Paving Materials, Inc.*
- Bowers Asphalt
- Burgett Family/Kokosing Construction*
- Columbus Bituminous
- Columbus Equipment
- Cunningham Asphalt Paving, Inc.
- Erie Blacktop*
- Bill Fair
- Fred and Teresa Frecker
- General Insurance Co.
- Gerken Paving, Inc.*
- Hardrives Paving Construction, Inc.
- Hy-Grade
- John R. Jurgensen Company/Valley Asphalt*
- Kenmore Construction Company/Northstar Asphalt, Inc.*
- Koski Construction Co.
- M&B Asphalt
- Martin Marietta Aggregates*
- McLean Equipment
- Meeker Equipment Company, Inc.
- Mid-Ohio Paving & Friends
- Northeastern Road Improvement
- Northern Ohio Paving
- Ohio CAT and Caterpillar, Inc.*
- Osterland
- Schloss Paving
- Shelly and Sands, Inc.*
- The Shelly Company*
- H.P. Streicher
- Thomas Asphalt
- Valley Paving Co.

*Contributed \$50,000 or more.



"There is a lot of opportunity for students in this industry. The FPO program does a good job of building awareness for asphalt pavement construction."

DONALD CASH

General Superintendent, Civil Engineer at Barrett Paving & Materials, Inc.

FPO Scholarship Recipient, 1997-1998

FPO Scholarship Distribution by Ohio Universities and Colleges, 1996-2017

Year	Total	OSU	OU	UC	ONU	UT	UA	UD	YSU	BGSU	CWR	RSC	CSTCC
1996	9	1	2	2		2		2					
1997	13	2	2	2		1		3	2				1
1998	18	2	3	5		1			4	2		1	
1999	12	5	1		2				2	2			
2000	27	7	5	5	4	4				2			
2001	28	7	8	5	1	4	1		1	1			
2002	26	9	4	2		4	3		3	1			
2003	19	3	4	2	2	3		2	1	2			
2004	17	1	8	2	2	1	1			2			
2005	26	3	8	8	5	1	1						
2006	26	5	6	8	2	2	3						
2007	20	3	3		2	2	6	3		1			
2008	26	4	3	3	6	1	9						
2009	20	4	5		3		7			1			
2010	27	4	3	1	7		12						
2011	25	5	4		3	1	11			1			
2012	16	3	2	3	1	1	5			1			
2013	17	2	3	5			6			1			
2014	19	8	3		1	3	2	1		1			
2015	17	6	3			2	3	2			1		
2016	19	5	7	1		1	1	4					
2017	21	4	2	3		1	6	4			1		
Number	448	93	89	57	41	35	77	21	13	18	2	1	1
Amount		\$130,000	\$118,366	\$77,000	\$46,200	\$49,100	\$97,700	\$30,900	\$18,300	\$24,300	\$3,500	\$1,500	\$1,500

OSU The Ohio State University
OU Ohio University
UC University of Cincinnati
ONU Ohio Northern University

UT University of Toledo
UA University of Akron
UD University of Dayton
YSU Youngstown State University

BGSU Bowling Green State University
CWR Case Western Reserve
RSU Rhodes State College
CSTCC Cincinnati State Technical and Community College

✉ info@dinecomply.com
☎ 740.389.2076

DINE COMPLY INC.
ENVIRONMENTAL & SAFETY SPECIALISTS

Contact us today!



OIL



WATER



AIR

The asphalt industry continues to be subject to increasingly stringent environmental regulations. For nearly 20 years Dine Comply Inc. has been providing environmental compliance assistance to your industry. **Air** permitting, storm **water** planning, and **oil** pollution prevention are requirements that Dine Comply can make easy for you. SERC and TRI reporting can be managed and we are proud to train you to do it yourself!

Good Enough is Never Enough



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.

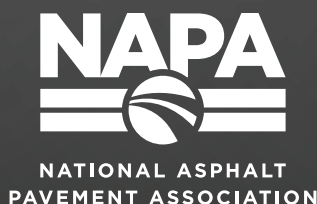


Contact us today to let us know how we can earn the opportunity to assist you in making your project a success.

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

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

Mark Your Calendars

Level 2 Asphalt Quality Control Technician Training January 31 to February 2, 2018

Ohio University Lancaster Campus
1570 Granville Pike
Lancaster, Ohio 43130

Flexible Pavements of Ohio (FPO) offers this training course to prepare individuals having basic lab familiarity to take the ODOT Level 2 Asphalt Technician Exam. After the training, students will have the opportunity to take the ODOT written examination for Level 2 Asphalt Concrete Technician approval.



Ohio Asphalt Paving Conference February 7, 2018

The Fawcett Center
The Ohio State University
2400 Olentangy River Rd.
Columbus, Ohio 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.

Field Quality Control Supervisor Training February 20, 2018

Crowne Plaza Hotel Dublin
600 Metro Place N.
Dublin, Ohio 43017

This seminar provides the training required to become approved to perform the Field Quality Control Supervisor (FQCS) function required under ODOT specifications, and to acquire re-approval after five years since the previous training.

Comprehensive Asphalt Mix Design School February 26 to March 2, 2018

Ohio Department of Transportation
Testing Laboratory, Lower Conference Room
1600 West Broad St.
Columbus, Ohio 43223

This course meets the requirements for ODOT HT.306, Asphalt Level 3 training. It is designed to give the participants a working knowledge of the principles associated with asphalt concrete volumetric mix design. On the final day of the course, students will have the opportunity to take the ODOT examination for Level 3 Asphalt Concrete Technician approval.



Ohio Asphalt Expo March 20-21, 2018

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

The Asphalt Expo is Ohio's premier asphalt pavement event with multiple, concurrent educational sessions and an indoor and outdoor trade show and equipment 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.

Roadway Work Zone Safety Training Seminar April 5, 2018

Crowne Plaza Hotel Dublin
600 Metro Place N.
Dublin, Ohio 43017

This seminar provides the training to help workers, supervisors and inspection personnel develop the awareness needed to implement best practices in safety while working within roadway work zones. It will introduce the Roadway Safety Plus training program and tools for workers, supervisors and managers of roadway construction activities. The program is focused expressly on preventing fatalities and injuries during road construction activities. These courses were produced under grants from the Occupational Safety & Health Administration and/or the Federal Highway Administration, managed by the American Road & Transportation Builders Association (ARTBA). The Roadway Safety Program was developed by a consortium of the Laborers' Health and Safety Fund of North America, ARTBA, National Asphalt Pavement Association, International Union of Operating Engineers, American Association of State Highway and Transportation Officials, Texas A&M Transportation Institute and the Laborers' International Union of North America.

For additional information or to register for these events, go to www.flexiblepavements.org.



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 | HAHNLOW.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



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.



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

ADVERTISERS INDEX

Asphalt Materials Inc.15	John R. Jurgensen Company..... 5	Shelly & Sands Inc. 22
BOCA Construction15	Kokosing Construction Company Inc.7	Southeastern Equipment Company Inc. IBC
Columbus Equipment Company..... 3	The McLean Company..... 11	Transtech Systems Inc. 9
Dine Comply Inc. 22	The McLean Company..... BC	Unique Paving Materials Corporation7
Ebony Construction Company..... 9	Northstar Asphalt Inc. 25	
Hahn Loeser & Parks LLP 25	Ohio CAT 26	
The Gerken Companies15	ROADTECIFC	
JASA Asphalt Materials/ Russell Standard Corp. 26	SealMaster13	
	The Shelly Company 5	



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



YOU HAVE AN OPTION

EXPERIENCE OUR TWO NEWLY
DESIGNED COLD PLANERS

BUILT FOR IT.™

FOR MORE DETAILS CONTACT:
Chuck Barnes — 216-906-5862
Tim Cox — 513-518-8619
Jack Weiskittel — 513-240-1379



www.OhioCat.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