GOMACO Corporation pioneered the development of the first cylinder finisher nearly 50 years ago when the company manufactured and introduced a bridge deck cylinder finisher to meet the growing needs for bridge markets. Today, GOMACO cylinder finishers are designed for versatility with the C-450 and C-750. The frame widths can range from 12 feet to 160 feet. They are easy to operate and save time and labor costs on all of your concrete finishing projects. Pin-connected sections provide fast setup time and the versatility to fit exact job requirements. GOMACO’s patented three-point finishing system provides the smoothest deck possible with an auger to level the concrete, a cylinder consolidates and finishes the concrete, and a float pan seals and textures the surface. GOMACO finishers are available with several different options to customize them to your exact bridge deck specifications. Join the bridge builders choosing GOMACO for sales, service, and parts support.
No doubt achieving some of these goals... will indeed be 'heavy lifts.' Nevertheless, I remain optimistic.”

ARTBA Chairman Steve McGough, p. 6
“Transportation Builder (TB) is the official publication of the American Road & Transportation Builders Association (ARTBA), a federation whose primary goal is to aggressively grow and protect transportation infrastructure investment to meet the public and business demand for safe and efficient travel. In support of this mission, ARTBA also provides programs and services designed to give its members a global competitive edge. TB is the primary source of business, legislative, regulatory, safety and economic news that matters most to transportation development professionals.

STAFF

PUBLISHER
Dave Bauer

EDITORIAL DIRECTOR
Mark Holan
mholan@artba.org

GRAPHIC DESIGNER
Luiza Carson
lcarson@artba.org

CONTRIBUTORS
Dr. Alison Premo Black
ARTBA Chief Economist

Nick Goldstein
ARTBA Vice President of Regulatory & Safety Issues

Mark Holan
ARTBA Editorial Director

Carolyn Kramer
ARTBA Transportation Investment Advocacy Center Director

John Schneidawind
ARTBA Vice President of Public Affairs

EXECUTIVE COMMITTEE

Chairman: Steve McGough
HCSS, Sugar Land, Texas

Senior Vice Chairman: Ward Nye
Martin Marietta Materials, Inc., Raleigh, N.C.

First Vice Chairman: Tim Duit,
Duit Construction, Edmond, Okla.

Northeastern Region Vice Chairman: David Harwood
Terraco, Glaston, Kan.

Central Region Vice Chairman: Jim Fehsenfeld
Heritage Construction & Materials, Indianapolis, Ind.

Southern Region Vice Chairman: Jeff Nelson

Western Region Vice Chairman: Jeff Clyde
Clyde/Genessee Group, Springville, Utah

Vice Chair At-Large: Don Graul
Parsons Construction Group, Westminster, Colo.

Vice Chair At-Large: Paula Hammond
WSP USA, Seattle, Wash.

Vice Chair At-Large: Randy Lake

Vice Chair At-Large: Susan Martinovich
Cursen City, Nev.

Vice Chair At-Large: Lisa Robert
RS&H, Denver, Colo.

Vice Chair At-Large: Ramin Younessi
Caterpillar Inc., Deerfield, Ill.

Secretary: David Bauer
ARTBA, Washington, D.C.

ARTBA Foundation Board of Trustees Chairman: Paul Yarossi
HNTB Holdings Ltd., New York, N.Y.

ARTBA Foundation Board of Trustees Vice Chairman: David Zachry
Zachary Corporation, San Antonio, Texas

Joint Committee Co-Chair: Tim Creson
American Bridge Company, Corapolis, Pa.

Contractors Division President: Michael Vecellio
Vecellio Group, Inc., West Palm Beach, Fla.

Contractors Division First Vice President: Joe Cutillo
Sterling Construction Company, The Woodlands, Texas

AEM Representative: Stephen Roy
Volvo Construction Equipment, Greensboro, N.C.

Research & Education Division President: Dr. Karen Philbrick
Mineta Transportation Institute, San Jose, Ca.

MBS Division President: Ron Robuck

P&D Division President: Tom O’Grady
HNTB, Kansas City, Mo.

PJ Division President: Joe Wingenter
Kinrat, Omaha, Neb.

TSID President: Laura Huizinga
Lindsay Transportation Solutions, Holland, Mich.

TOD President: Brian Ness
Idaho Transportation Department, Boise

Council of State Executives Chairman: Tom Layfield
Alabama Road Builders Association, Montgomery, Ala.

Immediate Past Chairman: Robert Alger
The Lane Construction Company, Cheshire, Conn.

Past Chairman’s Council Chairman: James R. Madara

Industry Leader Development Council: Ozzy Bravo
Terraco, Lenexa, Kan.

Transportation Builder® (ISSN 1043-4054) is published bi-monthly by the American Road & Transportation Builders Association (ARTBA). Postmaster: Send change of address to Transportation Builder®, c/o ARTBA, 230 E. Street, S.W., Suite 900, Washington, D.C. 20024; Phone: 202.289.4434; Fax: 202-289-4435; arba.org; kott@artba.org. Periodicals postage paid at Washington, D.C., and additional mailing offices. Subscriptions are $105/year for ARTBA members, which is included in the dues; $120/year for non-members; and $200/year non-U.S. mailing addresses. Copyright ©2019 ARTBA. All rights reserved. Material may not be reproduced in any form without written permission from the publisher. Reg. U.S. Patent & Trademark Office. Visit us: transportationbuilder.org

November/December 2019

4 | transportationbuilder.org
ARTBA's 2019 National Convention emphasized how artificial intelligence, robotics, and other smart machines and technological innovations are changing the transportation design and construction industry—and nearly every other aspect of our lives.

“The next five to 10 years are going to be more disruptive than people realize,” said Ross Smith, director of Skype for Good at Microsoft.

Technology also was at the core of this year’s Dr. J. Don Brock TransOvation® Workshop, which explored the “Top 5 Disruptors” transportation industry leaders face in servicing their customers and meeting their firms’ business plans. Attendees generally agreed the industry needs to reach out to develop new alliances with groups outside of its core functions to help with this fast-paced change.

“We don’t have enough broader coalitions; we’re isolated,” said Ted Zoli, an HNTB senior vice president.

Providing multiple platforms to share knowledge, information and best practices about how technology is changing the way we design and build transportation infrastructure is one of the key agenda items in the year ahead for new ARTBA Chairman Steve McGough. The pages of Transportation Builder (TB) will offer one of those platforms.

For 2020, we welcome your suggestions and editorial contributions to get more coverage about these present-day issues. We plan to compile these articles into a special publication.

- Consider writing a guest article on topics such as BIM, drones, and automation; how technology impacts safety, or helps companies operate more effectively, especially regarding workforce issues. It should be 600-750 words in length, not too technical, and not overt marketing of a single product or service.
- TB’s editorial staff can work with you and your team to produce an appropriate article.
- Read a good story someplace else? Please let us know and we’ll see if we can reproduce on TB’s pages for other member subscribers.

We are living through a revolution, Bryan Nicol, managing director of infrastructure and capital projects at Deloitte, said at our national convention.

“The scale, complexity, and speed are enormous,” he said. “It is unlike anything we’ve ever seen.”

Please contact me at mholan@artba.org, of 202.683.1018 with your thoughts.

“With real-time field data we have a direct correlation to profitability.”

QUERINO PACELLA – RJV CONSTRUCTION

B2W SOFTWARE

Break new ground, win more work and complete it more profitably with the unified ONE Platform for heavy construction estimating, operational workflows and business insight.

HEAR QUERINO’S SUCCESS STORY AND MORE AT B2WSOFTWARE.COM/QUERINO
As someone who devoted eight years of high school and college to powerlifting, I learned at least three lessons that I think are relevant to ARTBA’s mission:

• As we compete against others, we also must challenge ourselves to do better;

• To achieve a heavy lift, you must do a lot of advance work; and

• While there are often aches and pains, and adversity along the way, it’s worth it in the end.

Since 1902, ARTBA’s members in many instances have competed against each other to win transportation project work. Yet even as they have challenged each other, most have also been very successful in building their businesses. At the same time, they have been able to set those competitive juices aside when under the ARTBA roof to advocate consensus transportation investment and policy choices that are in the best interests of the American public when it comes to the improved safety, greater mobility, and stronger economic growth.

In the same spirit, in the year ahead, we aim to:

• Keep the political pressure on Congress and the Trump administration to find a sustainable Highway Trust Fund fix with the necessary revenue to provide market stability and growth.

• Pass a successor to 2015’s FAST Act by the end of 2020. The Senate Environment & Public Works Committee’s five-year reauthorization bill, America’s Transportation Infrastructure Act, offers a great road map. The House will have to develop companion legislation. ARTBA has been doing its “advance work” by sharing its 32-page member-developed legislative blueprint for the next bill and has met with nearly 100 House and Senate offices.

• Ensure our industry is on the cutting-edge of integrating new technology, robotics, and artificial intelligence into our operations and how we design and build. This is both a workforce productivity and safety issue; one that’s close to me as ARTBA’s first chairman from a construction software company. The program and content focus of ARTBA’s 2019 National Convention on these topics in Savannah were the first foray in this effort.

• Develop an official business plan to guide our strategic focus for the next 3-5 years. The ARTBA Board and Council of States Executives have already provided their feedback to get the process rolling. The Strategic Planning Committee meets this January in Charlotte. We’ll have more to share with the entire membership next spring.

No doubt achieving some of these goals, particularly a Highway Trust Fund fix and surface transportation reauthorization bill, will indeed be “heavy lifts.” We will face adversity along the way. That’s to be expected in a contentious political environment.

Nevertheless, I remain optimistic because transportation investment remains an area for common ground among President Trump and congressional leaders, and because I also know that ARTBA’s members won’t quit until the job is done right.

It’s my great honor and privilege to have been elected 2020 ARTBA chairman. I look forward to working with all of you to face and meet the challenges ahead.
Safety Training for the Roadway Construction Industry

ARTBA’s OSHA 10-Hour

Guideline Books

Roadway Safety+

All materials can be found at www.workzonesafety.org

This material is based upon work supported by the Federal Highway Administration under agreement 693J31750001. Any opinions, findings, and conclusions or recommendations expressed in this publication are those of the Author(s) and do not necessarily reflect the views or policies of the U.S. Department of Transportation or the Federal Highway Administration.
As a devoted sports fan—and youth sports parent—I often look to that world for lessons in leadership. One of my favorite sources is the late John Wooden, who led the U.C.L.A. Bruins to an incredible 10 NCAA basketball championships, including seven in a row. Throughout his 99 years, Coach Wooden documented his wisdom through countless books, articles and interviews.

As we near the end of 2019, I am thinking about the past year at ARTBA, and looking ahead to what we want to achieve in 2020, a process that begins in January when the ARTBA Strategic Planning Committee convenes in Charlotte. I’ve asked the entire ARTBA staff to do the same by using smart goal-setting as a means of achieving organizational and individual growth. In my case, there is a personal dimension to this exercise, because New Year’s Day 2020 marks the completion of my first year as ARTBA’s president, the greatest honor of my professional career.

A key principle in Coach Wooden’s “Pyramid of Success” ties this all together. Team spirit, as he described, is an “eagerness to sacrifice personal interests of glory for the welfare of all.” At ARTBA, we are indeed blessed by volunteer leaders who devote significant time and resources to benefit the entire industry.

Early in 2019, ARTBA’s Reauthorization Task Force, a diverse and experienced group of 27 members, hammered out a policy blueprint under an accelerated timeline for the next federal surface transportation bill. They built on the work of a similar group who met in 2016 and developed prospective revenue solutions for the Highway Trust Fund. Collectively, these thorough and thoughtful recommendations have been well-received on Capitol Hill.

In July, the Senate Environment & Public Works Committee unanimously approved a bipartisan, five-year highway bill, America’s Transportation Infrastructure Act (ATIA). It represents the largest boost in highway investment through a reauthorization bill in more than 20 years. While this legislation is far from final, ARTBA members are among those urging their representatives in both houses of Congress to make it reality. It will remain ARTBA’s Priority #1 for 2020.

As of this writing, ARTBA has filed nearly two dozen sets of comments on proposed federal rules changes this year. We have achieved notable regulatory victories in areas such as proprietary products, Waters of the United States, and hours of service. ARTBA members have helped lead these efforts by identifying rules to be improved or repealed, and showing decision makers the “real world” ramifications of these regulatory hurdles.

Led by passionate industry leaders, ARTBA’s Safety Certification for Transportation Project Professionals™ (SCTPP) program completed its third year as we move closer to having 500 professionals earn this unique credential.

Throughout 2019, ARTBA leaders have devoted personal time for advocacy, attended events, prioritized safety and provided financial support through dues investment, sponsorships and contributions to the “Transportation Makes America Work!” (TMAW) program. They have also regularly provided the ARTBA staff and me with wise counsel.

In the spirit of Coach Wooden, ARTBA is a true team, a nationwide network of transportation design and construction professionals headed by the most selfless of industry leaders. ARTBA’s accomplishments in 2019—and basis for optimism in 2020—belong to them.
We’ve added 2 new TMA’s to our fleet!

Continuing the Safe-Stop TMA® legacy, Trinity Highway is proud to present the latest in our line of TMA’s - the SS180 M and the SMT. Both are tested to the Manual for Assessing Safety Hardware (MASH) Test Level 3 for use on shadow, barrier and advanced warning vehicles, and feature hinged steel frames and replaceable, energy absorbing cartridges.

The SS180 M, a truck mounted attenuator, can attach to your existing Safe-Stop TMA mounts for standard and tailgate operations. The 180° tilt feature folds the unit at the center for storage mode, keeping the unit short in height, and ideal for garage storage or low overpasses.

The SMT, a trailer mounted attenuator, attaches to a standard pintle hitch and is available with manual or automated tilting arrow or message boards. Easily attached and detached, this trailer system allows for efficient deployment and truck fleet utilization.

www.trinityhighway.com
1.888.323.6374
In July 1985, a group of transportation design and construction industry leaders with vision and determination came together to create a sister organization that aimed to support ARTBA’s overall mission of market development and protection.

With a $10 deposit, they established the Research, Education & Development (RED) Fund. It was to focus on “those issues, skills and activities consistent with the objectives of ARTBA’s constitution and bylaws to improve the education and knowledge of the membership and public.”

Their vision endured and today has blossomed into the Transportation Development Foundation’s (TDF) multi-million-dollar annual program of work. Under the direction and leadership of the Board of Trustees, Foundation initiatives help save lives, enhance professional skill sets, provide a better educational future for the children of fallen highway workers, and develop the next generation of leaders and transportation investment advocates.

TDF counts these among its notable achievements:

• **Delivering** safety training to more than 7,000 industry professionals.

• **Certifying** 450 industry professionals via the American National Standards Institute-accredited Safety Certification for Transportation Project Professionals™ (SCTPP) program since its fall 2016 launch.

• **Fulfilling** 200,000 information requests through the National Work Zone Safety Information Clearinghouse, including a new milestone serving 20,000 in the month of April alone.

• **Hosting** a new Transportation Construction Professional Development Week to provide interactive learning via safety certification preparation and project management academies, and the annual law and regulatory forum. Industry professionals from 22 firms in 13 states participated.

• **Providing** $80,000 in financial aid to worthy students of highway workers killed or permanently disabled on the job through the Lanford Family Highway Worker Memorial Scholarship program.

• **Holding** the 24th Annual Industry Leader Development Program (ILDP) to introduce rising professionals to the transportation policymaking process and prepare them to become grassroots advocates. Nearly 800 have completed the ILDP and many are serving in ARTBA leadership positions.

On behalf of the Foundation’s Vice Chair David Zachry (Zachry Corporation), I want to thank ARTBA’s membership and our generous donors for their support. You all share in these collective achievements.
INNOVATIVE: WIRTGEN’s new generation of large milling machines uses the latest advancements in technology to make milling easier for the operator, and operation of the cold milling machine more cost-effective. In addition, the machine’s production and results are unparalleled and can be documented at the touch of a button. This is made possible by cutting-edge engineering, a passion for genuine advancement, and amazing customers who share their experience with us so that we can develop innovative solutions together.

www.wirtgen-group.com/america
As a high school and Texas A&M University powerlifter, Steve McGough learned about the intense discipline, unrelenting focus, and rigorous attention to detail the sport requires to set, reach, and surpass higher and higher goals and levels of performance.

Today, the 35-year construction industry veteran uses those skills and values to build teams, develop world-class organizations, and do the heavy lifting required of an executive leader in both business and the association management community.

As president and chief financial officer of Sugar Land, Texas-based HCSS, a leading software developer for the construction industry, McGough is at the forefront of the technology revolution reshaping the way projects are designed and built. He has worked with more than 4,000 of the best construction companies in North America.

And as 2020 ARTBA chairman, he is utilizing those alliances and relationships to press for these key transportation design and construction industry goals:

• Keep the political pressure on Congress and the Trump administration to find a sustainable Highway Trust Fund fix with the necessary revenue to provide market stability and growth.

• Help secure passage of a robust multi-year highway and transit reauthorization bill in 2020. The Senate Environment & Public Works Committee’s five-year bill, America’s Transportation Infrastructure Act (ATIA), earned unanimous committee approval in July and offers a credible path forward. The House of Representatives will have to act on companion legislation.

• Ensure the transportation construction industry is on
"The reason I got active in ARTBA, and the reason that I would encourage others to get active in ARTBA, is because we are not afraid to lead."

the cutting-edge of integrating new technology, robotics, and artificial intelligence into business operations. This is both a workforce productivity and safety issue—one that’s especially close to ARTBA’s first chairman from a construction software company.

• Develop an official business plan to guide ARTBA’s strategic focus into the third decade of the 21st century.

“The reason I got active in ARTBA, and the reason that I would encourage others to get active in ARTBA, is because we are not afraid to lead,” McGough says. “Many associations and organizations just fall back on best practices, but not ARTBA. It has always been bold, committed, and not afraid to be out front, leading the way.”

McGough has proven his ability in a half dozen distinguished ARTBA leadership positions, plus similar roles in other groups. He currently serves on the board of directors and executive committee for The Road Information Program (TRIP), a national transportation research group.

Just as importantly, McGough leads a software company at the forefront of changing construction industry operations from top to bottom. HCSS software helps heavy civil, highway, and utility construction companies streamline their business operations, bid for new business, maintain equipment, and manage projects. HCSS software is used to manage everything from small contracts to the largest design-build and P3 projects. Under McGough’s leadership, HCSS has grown from 35 employees to more than 350. It has earned numerous awards – including a ranking as one of Texas’s best places to work for 12 consecutive years.

Leadership Lessons

McGough credits his ability to motivate employees and help build an industry-leading firm to the principles he learned from his father, as well as the core values instilled during his athletic and academic career at Texas A&M University.

“When I was young, my dad had his own supply business. I would travel with him in the summer, and I saw first-hand how he treated people with respect and had genuine interest in others,” McGough recalls. “It didn’t matter if it was the person sweeping the floor or the person leading the company. That really stuck with me.” This same sentiment shapes HCSS today, where employees and customers are valued beyond the typical business relationship. HCSS is known in the community for its unique, employee-centric culture, and known in the industry for its commitment to stellar customer support.

Texas A&M is also where McGough met his wife, Elaine, and began their life together 32 years ago. “She’s hands down the most wonderful person in my life,” he says. The couple has two sons—Ryan and Grant—both of whom also earned their degrees at College Station.

McGough joined HCSS in 2005 as chief operating officer, and became president and chief financial officer in 2017.

“He’s been successful here because he understands business, understands finance,” says company CEO Mike Rydin. Rydin was immediately impressed by McGough’s ability to take on complex customer issues and communicate solutions that truly speak to contractors.

Steve McGough at the 2019 National Convention in Savannah.
Straight Talk

McGough’s leadership, business savvy, and instincts for policy advocacy in the Houston business community and in Washington, D.C. were on display in a wide-ranging interview with Texas Inc., the business tabloid section of the Houston Chronicle. In the Nov. 11 piece, headlined “Steve McGough, new American Road & Transportation Builders Association chairman, is out to save our infrastructure,” McGough drove home the idea that federal transportation policy decisions have major impacts on the private sector and state transportation departments. He stressed the importance of a permanent revenue solution for the Highway Trust Fund and noted that uncertainty about future federal funding levels could cause states to consider delaying new highway improvements.

Relationship building and ongoing engagement between ARTBA members and their elected representatives and other government agency officials is key to passing meaningful infrastructure legislation through Congress, McGough told the paper.

McGough says leaders of both political parties understand the urgency for action on an infrastructure bill.

“Right now, if I were running for re-election, I would be petrified, no matter what side of the aisle, because there hasn’t been anything substantial that has come out of this Congress,” McGough adds. “Congress and the Trump administration ran on a platform and said they would address infrastructure, so let’s do it.”

Workforce Issues

In addition to infrastructure funding, the transportation construction industry is also facing a critical shortage of skilled workers. McGough runs off some key numbers:

- “The percentage of firms having trouble finding craft workers in 2017 was up to 70 percent. By 2018, it was over 80 percent. And we saw the same thing in 2019.”
- “In a USA Today study, the fastest growing construction jobs, based on job postings from 2014 to 2017, were chief estimator, up over 100 percent; superintendent, up 122 percent; pre-construction manager, up 126 percent; and commercial project manager, up 277 percent.”

To combat the labor shortage, McGough champions the “I Build America” program at HCSS, which builds pride in the construction industry, educates the public about its value to our economy and modern lifestyle, and recruits the next generation of workers and professionals.

“We need to work with the talent pool we have because it can’t expand fast enough to keep up with demand,” McGough told the Chronicle. “We need to educate parents and kids, so they know there are great paying jobs and rewarding careers in construction. This is by far our industry’s biggest challenge.”

Steve McGough
ARTBA Volunteer Leadership

- Senior vice chairman, 2019
- First vice chairman, 2018
- Central region vice chairman, 2016-17
- Western region vice chairman, 2013-16
- Materials & Services Division president, 2012
- Membership Development Committee chairman, since 2015
- Transportation Development Foundation trustee, 2019-20
Next Steps

McGough already helped launch the process of developing ARTBA’s business plan for the next 3-5 years as soon as he accepted the chairman’s gavel at September’s National Convention in Savannah, Georgia. The ARTBA Board and Council of States Executives have provided their feedback, and the Strategic Planning Committee is set to meet Jan. 23 in Charlotte, North Carolina.

McGough promises the process will be transparent, and the entire membership will receive more information by spring.

“All of our goals are heavy lifts,” he says. “We will face adversity along the way. That’s to be expected in a contentious political environment. Nevertheless, I remain optimistic because transportation investment remains an area for common ground among President Trump and congressional leaders, and because I also know that ARTBA’s members won’t quit until the job is done right.”

John Schneidawind is ARTBA’s vice president of public affairs.

Certify Your Employees. Save Lives.™ puttingsafetyfirst.org
THE BEST JUST GOT BETTER

Enhancements to the transmission, backhoe, cab and controls make N Series more powerful, more versatile and more productive than ever before.

But don’t take our word for it. Go to CaseCE.com/NSeries to request your N Series demo today. And, while you’re there, check out the available special offers.

NEW! Groundbreaking PowerBoost
NEW! Responsive PowerDrive Transmission
NEW! Enhanced Loader Controls
NEW! Factory-Installed Thumb
NEW! Improved Cab Comfort
Industry-Leading PowerLift
The Exclusive Precision of ProControl

Find N Series specs, videos, special offers and more at CaseCE.com/NSeries

©2019 CNH Industrial America LLC. All rights reserved. CASE is a trademark registered in the United States and many other countries, owned by or licensed to CNH Industrial N.V., its subsidiaries or affiliates.
ARTBA’s National Convention
Pinehurst Resort in North Carolina

Save the Date
Oct. 18-21, 2020

A great opportunity to connect with industry colleagues.

WATCH FOR MORE DETAILS.
TTMA-200
MASH Trailer Truck
Mounted Attenuator

MASH 2016 TESTED

FHWA ELIGIBLE
CC-152
March 5, 2019
States Face 2020 Transportation Investment Challenges

By Carolyn Kramer
ckramer@artba.org

State lawmakers face many transportation investment challenges during their 2020 legislative sessions, including the distraction of their own reelection campaigns. Four states do not have regular sessions in 2020, and six others meet for less than two months.

Several states that began transportation investment campaigns in 2019 are expected to continue the effort in 2020, including:

- **Connecticut**: Gov. Ned Lamont (D) Nov. 7 proposed a 10-year, $21 billion transportation investment plan based primarily on tolling. The state is grappling with $25 billion bonded debt and facing the possibility of being unable to meet its federal match by 2022.

- **Massachusetts**: Gov. Charlie Baker (R) introduced an $18 billion bond to fund transportation projects over the next five years. State House Speaker Robert DeLeo (D) has said he plans to address transportation revenue needs in the 2020 session.

- **Colorado**: A bond issue is expected to be placed on the 2020 ballot in the wake of three transportation investment referendum defeats in two years.

New leadership in two states could also create new opportunities.

- **Kentucky**: As a candidate, Gov.-elect Andy Beshear (D) released an infrastructure plan in August 2019 that identified several key projects, including the I-69 bridge. Already one of the nation’s busiest freight corridors, Kentucky projects such commercial traffic will increase by two thirds by 2045. The state is facing a backlog of more than $1 billion in road projects, plus at least 1,000 bridges that need to be repaired or replaced. State lawmakers have warned new revenue is needed over the next two years to preserve federal transportation funding.

- **Mississippi**: Lt. Gov.-elect Delbert Hosemann (R) during his campaign expressed interest in permitting counties to create a local gas tax with a date-certain expiration to address transportation investment shortfalls. Challenges may arise as Gov.-elect Tate Reeves (R) has consistently stated his opposition to a gas tax increase.

While we expect less legislative action in 2020, presidential election years tend to generate numerous state and local ballot measures for voter consideration.

- One measure already on the ballot is a half-cent sales tax increase renewal in Arkansas. This measure, originally approved by voters 58-42 in 2012, could annually generate $205 million for state highways and $44 million for localities.

- Lawmakers in Missouri have begun prefiling several initiatives to increase transportation investment in 2020, which could be placed on the ballot with legislative approval. The state has struggled to get enough support at the ballot in recent years, a significant challenge due to a constitutional law requiring voter approval on any significant tax or fee increase.

Additionally, Louisiana, Georgia, and other states are already preparing for action beyond 2020.

In 2019, voters in 19 states approved ballot measures expected to generate over $9.6 billion in one-time and recurring revenue. Learn more at our new website: transportationinvestment.org.

Carolyn Kramer is director of ARTBA’s Transportation Investment Advocacy Center.

New TIAC Website Helps Advocates Win Funding Campaigns

The newly redesigned Transportation Investment Advocacy Center™ (TIAC) website—transportationinvestment.org—is a resource-rich platform for state and local transportation funding advocates. It provides information about:

- State legislation
- Election analysis
- Campaign case studies
- Funding methods
- Model legislative language

The redesigned website features an enhanced search function, improved navigation tools, and a new organization structure to help advocates quickly find the resources they need to answer lawmaker and voter questions to help build successful funding campaigns.
THE ONLY
HEAVY METAL SHOW YOU NEED TO SEE

CONEXPO-CON/AGG 2020

SAVE 40% on ADMISSION
REGISTER BEFORE JANUARY 17, 2020

NORTH AMERICA'S LARGEST CONSTRUCTION TRADE SHOW

CONEXPOCONAGG.COM

MARCH 10-14, 2020 | LAS VEGAS, USA
2020 Federal Issues Program
& Transportation Construction Coalition Fly-In

May 12-14
Marriott Metro Center
Washington, D.C.
U.S. transportation construction market activity in 2020 is projected to top the $300 billion threshold for the first time, with growth across all modes driven by increased federal, state and local government investment. ARTBA forecasts 5 percent real growth after adjusting for project costs and inflation.

Total domestic transportation construction and related-market activity in 2020 should reach $300.4 billion, up from 2019’s $286.5 billion, after adjusting for project costs and inflation.

The transportation construction market grew by 8 percent in 2019 compared to 2018, driven largely by gains in highway, street and pavement work, which grew by $9.6 billion to $73.1 billion.

Airport construction work on runways and terminals increased by less than 1 percent in 2019 but was still at record investment levels. Strong growth in the subway, light rail and mass transit sector, as well as private railroad investment helped support a strong year for transportation construction activity.

Potential variables include delays in the reauthorization of the FAST Act and whether Congress finds additional revenues to support the beleaguered Highway Trust Fund (HTF). If states delay projects in response to uncertainty in the federal-aid highway program, that would temper 2020 market growth.

Other market factors include uncertainty over material prices, increased labor costs and potential labor shortages in some regional markets.

Overall, transportation construction market activity is expected to increase or be steady in about half of the states, the ARTBA analysis shows. Some of the largest markets expected to
remain stable or grow include Texas, California, Illinois, New York, Florida, North Carolina, Washington, Minnesota, Michigan, Arizona and Wisconsin.

Among the other key forecast findings:

**Public & Private Highway, Street & Related Construction**

- The real value of public highway, street and related construction investment by state transportation departments and local governments—the largest market sector—is expected to increase by 6 percent to $77.5 billion after growing 15 percent in 2019.
- Construction work on private highways, bridges, parking lots and driveways will increase from $69.1 billion in 2019 to $71.8 billion in 2020 and will continue to grow over the next five years as market activity increases in those sectors.

**Bridges & Tunnels**

- The pace of bridge and tunnel construction work stayed flat in 2019 and is forecast to grow by $800 million, or 3 percent, in 2020. Bridge and tunnel market activity fell slightly from $28.8 billion in 2018 to $28.6 billion in 2019, after adjusting for project costs and inflation.

**Light Rail, Subways, & Railroads**

- Public transit and rail construction are expected to grow from $23 billion in 2019 to $24.2 billion in 2020, a 5 percent increase.
- Subway and light rail investment are expected to reach a new record level, increasing from $10.3 billion this year to $11 billion in 2020.

**Airport Runways & Terminals**

- After growing 34 percent in 2018, airport terminal and related construction work, including structures like parking garages, hangars, air freight terminals and traffic towers, is estimated to increase from $18.5 billion in 2019 to $19.6 billion.
- Runway work is forecasted to increase from $4.7 billion in 2019 to $4.9 billion in 2020.

**Ports & Waterways**

- The value of port and waterway investment should grow to $3.4 billion in 2020. Construction activity in 2019 was $3.3 billion, up from $2.5 billion in 2018.

ARTBA’s forecast is based on a series of proprietary econometric models for each mode and analysis of federal, state and local data and market intelligence.

---

Dr. Alison Premo Black is ARTBA’s chief economist.
Schedule Your Free Class Now!

Preventing Falls in Roadway and Bridge Construction, Inspection and Repair

A comprehensive safety training program for the transportation construction industry, including:

- Horizontal Lifelines
- Anchorage Points
- Personal Fall Arrest Systems
- Self-Retracting Lifelines
- Aerial Work Platforms
- Rescue Plans
- Suspension Trauma

...and much more!

For more information, contact Robinson Vasquez at rvasquez@artba.org, or 202.289.4434.

“This material was produced under the grant SH-05111-SH9 from the Occupational Safety and Health Administration, U.S. Department of Labor. It does not necessarily reflect the views or policies of the U.S. Department of Labor nor does mention of trade names, commercial products, or organizations imply endorsement by the U.S. Government.”
From innovative designs to Caterpillar dealer service and support, Weiler is paving the way to success for contractors across North America. Weiler’s material transfer vehicles, commercial pavers, road wideners, windrow elevators, static split-drum compactors, soil stabilizers, rock drills, tack distributors and front mount screeds are engineered with innovative features to increase productivity while reducing operating costs.

Weiler equipment is sold and serviced exclusively at Caterpillar dealers throughout North America.

www.weilerproducts.com
More Regulatory Changes Expected in Early 2020

By Nick Goldstein
ngoldstein@artba.org

The September repeal of the 103-year-old proprietary products rule was a significant 2019 regulatory win for the transportation construction industry. But it wasn’t the only one.

Nearly as significant was the Trump administration’s September repeal of the “Waters of the United States” (WOTUS) rule, the Obama-era regulation that threatened to make roadside ditches subject to unnecessary federal oversight. It would have delayed transportation improvements, increased project costs, and jeopardized highway safety.

The administration continues to finalize a replacement WOTUS regulatory framework that would not extend federal jurisdiction to roadside ditches. ARTBA supports this effort.

Additional regulatory actions by agency include:

• Occupational Safety and Health Administration asked the regulated community to help clarify various aspects of the crystalline silica rule.

• Federal Motor Carrier Safety Administration released proposed changes to the federal Hours of Service rules, which govern the amount of time truck drivers can spend on the road. The agency also rescinded a 2011 regulation requiring drivers to rest on two consecutive days between 1-5 a.m. in order to qualify for the 34-hour “restart” to their driving week.

• U.S. Department of the Interior issued a series of regulatory changes to the Endangered Species Act, which includes new limits to where the government can block development by declaring land as “critical habitat.”

• U.S. Department of Transportation proposed limiting environmental impact statements to 150 pages (300 pages for especially complex reviews) and environmental assessments to 90 pages. The agency also moved forward with implementing President Trump’s “One Federal Decision” executive order aimed at speeding project delivery.

• Equal Opportunity Employment Commission announced it is reconsidering an Obama administration requirement to increase reporting requirements for many employers, including larger contractors working on federal-aid construction projects after an effort by the Trump administration to stay the rules was defeated in federal court.

• U.S. Department of Labor finalized a new regulation changing how workers qualify for overtime pay. The new rule raises the threshold an employee can be exempted from overtime pay from $23,660 per year to $35,308 per year.

• White House Council on Environmental Quality is expected to issue long-planned revisions to the National Environmental Policy Act. The revisions are aimed at reducing unnecessary delay during the project review and approval process.

ARTBA expects the quick pace of regulatory activity to continue in 2020, since any rules promulgated after May could be repealed by a new administration under the Congressional Review Act (if the Democrats hold the House and capture the Senate). In order to avoid such a possibility, the Trump administration will likely try to do as much as it can on the regulatory front during the first five months of the year.

Nick Goldstein is ARTBA’s vice president of regulatory and legal issues.
National Work Zone Safety Information Clearinghouse

The World’s Largest Online Safety Information Resource

Crash Data
Research Library
Learning Opportunities
Flagger Information
Events & Conferences
Hot Topics

USE IT...SAVE LIVES!

Information provided by the National Workzone Safety Information Clearinghouse, award #693JJ3175009, does not necessarily reflect the views of the U.S. Highway Administration (FHWA) or the American Road & Transportation Builders Association-Transportation Development Foundation. References to specific products and services do not imply endorsement by the Clearinghouse or FHWA.
ZONECONE
Black Base Cone

Introducing our new technologically advanced, superior Black Base Cone. Our Black Base Cone features new grip technology for reduced slippage while handling and interior bands for quick release stacking. This fade resistant cone outperforms others with its Cold and Hot Temperature Formulation, making it the best fit for any climate. The Black Base Cone features a 16-lug base for additional support and reduced base cracking during runover incidents. This unique base improves surface friction to prevent skidding during placement.

The Black Base Cone creates a new class of traffic cones, designed for durability and made crash proof. The addition of the Black Base Cone rounds out the Work Area Protection cone line and gives Hill & Smith Inc. a full-range of diverse cone options. Your safety demands it and Work Area Protection delivers it with highly visible, durable, high-quality traffic cones.

NEW CONES ON THE BLOCK

TRAVEL SAFE.
WORK PROTECTED.
Get Ready for CONEXPO-CON/AGG 2020

CONEXPO-CON/AGG 2020—North America’s largest construction trade show for the asphalt, aggregates, concrete, earthmoving, lifting, mining, utilities and related industries—unfolds March 10-14 in Las Vegas.

The Association of Equipment Manufacturers (AEM) is committed to fostering a show environment where the latest innovations, technologies, best practices, and networking opportunities are readily accessible to industry professionals looking for a competitive edge in our fast-changing world.

CONEXPO-CON/AGG 2020 attendees will have up-close access to the leading manufacturers and suppliers, latest product innovations, and knowledge resources to help their businesses thrive.

Tech Experience Returns

The 2020 show will feature a record 2.6 million-plus net square feet of exhibits. The expanded footprint includes a connected campus of the Las Vegas Convention Center and nearby Festival Grounds. In total, there are 10 areas to explore.

The show’s award-winning Tech Experience returns at two locations—Silver Lot 3 and the Festival Grounds—to showcase the many innovations shaping the future of construction. The Tech Experience will explore three transformational areas for contractors’ future business: modern mobility, sustainability, and smart cities.

CONEXPO-CON/AGG 2020 also will offer new and expanded transportation options, with plenty of hotel and intra-show shuttles to help attendees get around more easily. The show badge includes a free monorail pass.

The show’s comprehensive education program is the leading source for contractors, business owners, construction material producers, and end-users to obtain cutting-edge information for today’s challenging economy and business model.

CONEXPO-CON/AGG 2020 education is grouped into 10 tracks for ease in finding just the topics you need, with the latest trends and best practices focused on: aggregates; asphalt; concrete; cranes, rigging and aerial lifts; earthmoving and site development; equipment management and maintenance; business strategies; safety; technology solutions; and attracting, engaging, and retaining talent.

Tips to Enhance Your Show Visit

To make the most of your time at CONEXPO-CON/AGG 2020, the show offers an interactive online exhibitor directory and mobile app. (The app will launch in January. Search “CONEXPO-CON/AGG” in your app store.) The app continuously synchronizes with the online show planner so you can make last-minute updates to your agenda; stay connected with fellow attendees; and get real-time updates.

Create a plan for each day. See not only the exhibitors and products you want to connect with, but also catch sight of new and unfamiliar vendors.

Through educational programs and personal contact, CONEXPO-CON/AGG is the ultimate networking opportunity to share experiences and create lasting business connections.

It’s never been more important for industry professionals to focus on what the future may bring by attending trade shows, conferences, and other education opportunities. CONEXPO-CONAGG 2020 will help you more effectively navigate today and prepare for tomorrow.

And since this show happens only once every three years, you don’t want to miss it. See all the details and register now at conexpoconagg.com.

AEM CORNER

Black Base Cone

Introducing our new technologically advanced, superior Black Base Cone. Our Black Base Cone features new grip technology for reduced slippage while handling and interior bands for quick release stacking. This fade resistant cone outperforms others with its Cold and Hot Temperature Formulation, making it the best fit for any climate. The Black Base Cone features a 16-lug base for additional support and reduced base cracking during runover incidents. This unique base improves surface friction to prevent skidding during placement.

The Black Base Cone creates a new class of traffic cones, designed for durability and made crash proof. The addition of the Black Base Cone rounds out the Work Area Protection cone line and gives Hill & Smith Inc. a full-range of diverse cone options. Your safety demands it and Work Area Protection delivers it with highly visible, durable, high-quality traffic cones.

WWW.HILLANDSMITH.COM   |   (614) 340-6294

Tips to Enhance Your Show Visit

To make the most of your time at CONEXPO-CON/AGG 2020, the show offers an interactive online exhibitor directory and mobile app. (The app will launch in January. Search “CONEXPO-CON/AGG” in your app store.) The app continuously synchronizes with the online show planner so you can make last-minute updates to your agenda; stay connected with fellow attendees; and get real-time updates.

Create a plan for each day. See not only the exhibitors and products you want to connect with, but also catch sight of new and unfamiliar vendors.

Through educational programs and personal contact, CONEXPO-CON/AGG is the ultimate networking opportunity to share experiences and create lasting business connections.

It’s never been more important for industry professionals to focus on what the future may bring by attending trade shows, conferences, and other education opportunities. CONEXPO-CONAGG 2020 will help you more effectively navigate today and prepare for tomorrow.

And since this show happens only once every three years, you don’t want to miss it. See all the details and register now at conexpoconagg.com.

AEM CORNER

Black Base Cone

Introducing our new technologically advanced, superior Black Base Cone. Our Black Base Cone features new grip technology for reduced slippage while handling and interior bands for quick release stacking. This fade resistant cone outperforms others with its Cold and Hot Temperature Formulation, making it the best fit for any climate. The Black Base Cone features a 16-lug base for additional support and reduced base cracking during runover incidents. This unique base improves surface friction to prevent skidding during placement.

The Black Base Cone creates a new class of traffic cones, designed for durability and made crash proof. The addition of the Black Base Cone rounds out the Work Area Protection cone line and gives Hill & Smith Inc. a full-range of diverse cone options. Your safety demands it and Work Area Protection delivers it with highly visible, durable, high-quality traffic cones.

WWW.HILLANDSMITH.COM   |   (614) 340-6294

AEM CORNER

Black Base Cone

Introducing our new technologically advanced, superior Black Base Cone. Our Black Base Cone features new grip technology for reduced slippage while handling and interior bands for quick release stacking. This fade resistant cone outperforms others with its Cold and Hot Temperature Formulation, making it the best fit for any climate. The Black Base Cone features a 16-lug base for additional support and reduced base cracking during runover incidents. This unique base improves surface friction to prevent skidding during placement.

The Black Base Cone creates a new class of traffic cones, designed for durability and made crash proof. The addition of the Black Base Cone rounds out the Work Area Protection cone line and gives Hill & Smith Inc. a full-range of diverse cone options. Your safety demands it and Work Area Protection delivers it with highly visible, durable, high-quality traffic cones.

WWW.HILLANDSMITH.COM   |   (614) 340-6294

AEM CORNER

Black Base Cone

Introducing our new technologically advanced, superior Black Base Cone. Our Black Base Cone features new grip technology for reduced slippage while handling and interior bands for quick release stacking. This fade resistant cone outperforms others with its Cold and Hot Temperature Formulation, making it the best fit for any climate. The Black Base Cone features a 16-lug base for additional support and reduced base cracking during runover incidents. This unique base improves surface friction to prevent skidding during placement.

The Black Base Cone creates a new class of traffic cones, designed for durability and made crash proof. The addition of the Black Base Cone rounds out the Work Area Protection cone line and gives Hill & Smith Inc. a full-range of diverse cone options. Your safety demands it and Work Area Protection delivers it with highly visible, durable, high-quality traffic cones.

WWW.HILLANDSMITH.COM   |   (614) 340-6294
Welcome to These New Members in 2019

Contractors Division
- Ford Construction Company, Inc.
- Mace Contracting Corp.
- Rietschlin Construction, Inc.
- Skanska
- Technopref Industries
- The IEA Companies

Traffic Safety Industry Division
- Custom Products Corporation
- Evolutionary Markings, Inc. (EMI)
- InfraStripe LLC
- Interstate SignWays
- North America Traffic Inc.

Materials & Services Division
- BFGoodrich Tires
- Cohen Seglias
- Exane SA London Branch
- Relation Insurance Services of North Carolina, Inc.
- RoadBotics, Inc
- W&W AFCO Steel

Transportation Officials Division
- Idaho Transportation Department
- Mississippi Department of Transportation
- Nebraska Department of Transportation
- North Carolina Department of Transportation

P3 Division
- Allen & Overy
- Construction Risk Partners
- Itinera Infrastructure & Concessions

Planning & Design Division
- COWI North America Inc.
- Garver
- Schnabel Engineering

Membership
To learn more about ARTBA membership, please contact:

Senior Vice President of Strategic Engagement
Allison Klein
aklein@artba.org

Senior Program Manager/Member Services
Krystal Taylor
ktaylor@artba.org
TRANSPORTATION
BUILDER® 2020
Editorial Calendar

JANUARY/FEBRUARY
- Legislative & Regulatory Year Ahead
- CONEXPO-CON/AGG Preview
- Workforce Issues Update

Advertising/Editorial deadline: Jan. 17
Publishes late February

MARCH/APRIL
- Bridge Conditions Report
- Professional Development Week
- Transportation Development Hall of Fame at 10

Advertising/Editorial deadline: March 13
Publishes late April

MAY/JUNE
- Transportation Safety Source
- Proprietary Products/MUTCD Update

Advertising/Editorial deadline: May 15
Publishes late June

JULY/AUGUST
- National Convention & Fall Regional Meeting Preview
- Highway & Bridge Projects in Progress
- Technology & Innovation Insights

Advertising/Editorial deadline: July 17
Publishes late August

SEPTEMBER/OCTOBER
- 17th Annual “Through the Lens” photo feature
- Project Spotlight on Airports & Transit
- Pennsylvania Turnpike Turns 80

Advertising/Editorial deadline: Sept. 18

NOVEMBER/DECEMBER
- 2021 Economic Forecast
- 2021 Chairman Profile
- 2020 National Election & Transportation Referendums Analysis

Advertising/Editorial deadline: Nov. 13
Publishes late December

View the 2020 Media Kit in the “News” section of artba.org.

For advertising sales contact Dave Weidner at adsales@artba.org.

transportationbuilder.org
<table>
<thead>
<tr>
<th>Estimating &amp; Bidding</th>
<th>Field Entry &amp; Reporting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Job Costing &amp; Analysis</td>
<td>Project Management</td>
</tr>
<tr>
<td>Safety Management</td>
<td>Fleet Management</td>
</tr>
<tr>
<td>Dispatching &amp; Scheduling</td>
<td>Trucking</td>
</tr>
</tbody>
</table>

**You’ll LOVE doing business with HCSS!**

- **12-month money-back guarantee on all HCSS software**
- **24/7 instant support**
- **Support calls answered in 3 rings or less**
- **A Best Place to Work in Texas 12 years in a row**

To learn more, visit [HCSS.COM](http://HCS.com) or call **1-800-683-3196**.