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They're Back!

2022 Saw a Return of In-person Events

BY JON M. YOUNG, EXECUTIVE DIRECTOR, HAPI

With continued drops in COVID-19 cases came the return of in-person Hawaii Asphalt Paving Industry events in 2022. The three major courses from our HAPI Training Program series were all conducted in person.

In March, our Understanding a Job Mix Formula Submittal presentation was done at the HAPI office.

In April, Instructor Jarrett Welch from HAPI member Quality Paving Consultants was back in town to conduct our Best Practices for Asphalt Pavement workshops on Oahu and Maui.

The Use of Geosynthetics workshops were held in October on Oahu and Kauai. HAPI member Geotech Solutions (Troy Ogasawara) helped with the arrangements. The instructors, Lars Nelson, Dennis Rogers, and Garrett Fountain were from HAPI member Tensar.

We also had our in-person lunch meetings for our members and invited guests. Our two lunch meetings a year are in January and July at the Pearl Country Club.

In-person events are great, however, there are several of our virtual events that are here to stay for the following reasons:

- **More people from more places can attend:** Virtual events save attendees travel time and money. Our virtual events have been attended by people from all of the Islands as well as other states and foreign countries, too.

- **More diversity of topics and speakers:** Bringing in a speaker from outside of Oahu is typically cost-prohibitive, thus limiting our options for speakers and topics.

- **Lower registration fee:** Virtual events cost less to produce, which results in lower registration fees.



Our virtual events include the following:

Our **Annual Paving Conference** is a half-day event held in late March. The event is attended by government agencies, consultants and contractors. Topics are contemporary issues in the local asphalt industry.

Our **HAPI Shorts** sessions are FREE lunch-time webinars covering a wide range of topics presented by me or guest presenters. Sessions are conducted on Wednesdays from 11:30 a.m. to 12:30 p.m. and can be viewed from the comfort of your office.

Our **HAPI Holiday Game** event is typically scheduled for lunch time on the second Monday in December. The event is a quiz game using Kahoot!. The topics of the questions include the asphalt industry, HAPI, and of course, the holiday season.

In 2023, we plan to do our training courses and other events again using the same venues as we did in 2022. We hope that you will join us!

Keep your eyes open for announcements in our monthly newsletter and events in our HAPI website calendar.



Inaugural Asphalt Paving Conference

BY JON M. YOUNG,
EXECUTIVE DIRECTOR, HAPI

Over 120 people from all facets of the industry attended our inaugural virtual asphalt paving conference in March 2022.



Design with Construction in Mind 2022 HAPI Annual Paving Conference

New Materials

- Lightweight foamed expanded glass aggregate
- Trackless tack coat
- Porous asphalt pavements
- HiMA
- Geocomposite drain material
- Plastic asphalt
- High RAP



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Smoothness: Why it Matters & How is it Measured

HAPI Paving Conference
3/23/22



Jon Young opened the conference with a presentation about designing with construction in mind. The session began with two questions to the attendees: “Do engineers design with construction in mind?” and “Should they?” A majority of the attendees said they should. The designer is responsible for taking input from a report, such as a geotechnical engineer’s recommendations, and turning the information into a constructible plan.

The case presented was different surface lift thickness for different pavement repairs recommended by the geotechnical engineer, which needed to be adjusted by the designer, such that there is a uniform thickness for the surface lift. There was also a discussion about considering the width of a milling drum when determining the width and shape of pavements to be removed.

Pavement smoothness is desired by the commuting public and is a recent focus of our HDOT Highways Division. Nick Schaefer, from HAPI member Surface System and Instrument Inc. (SSI), discussed smoothness—why it matters and how it is measured. SSI





is helping HDOT with implementing their recently developed smoothness specification. Schaefer gave an overview of the equipment used to measure smoothness, an explanation of the International Roughness Index used to quantify pavement roughness, and how smoothness is measured.

Ed Sniffen, deputy director of the HDOT Highways Division, presented the State Pavement Preservation: Goals and Innovations. Sniffen discussed funding, pavement goals, field

testing, new materials, technologies and e-Construction. The new materials HDOT is evaluating include lightweight foamed expanded glass aggregate, trackless tack coat, porous asphalt pavements, Highly Modified Asphalt Binder, geocomposite drain material, plastics in asphalt, and high Reclaimed Asphalt Pavement mixes. HDOT has been updating their specification sections that are related to road construction. They are also implementing e-Construction,

including e-Ticketing.

Our last speaker, Jarrett Welch from HAPI member Quality Paving Consultants, led a group discussion on multiple paving lifts and what to do about scabbing. Both of these topics need to be evaluated during design. Scabbing occurs when an existing layer of pavement is not fully removed during the milling operation. If additional milling or a leveling course is not done, there will be a non-uniform pavement thickness, resulting in non-

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uniform compaction of that lift.

Welch next asked how many lifts can be placed and compacted in a paving day. The answer was that it depends on mix design, setup time (i.e., traffic controls), time needed to mill, time to tack, time to place and compact, and cooling time. It is a combination of all of these items that determines how much paving can be accomplished.

The following are points that attendees remembered the most about

the conference:

- Good information put forth by professional experts!
- Designers need to go out in the field prior, during and after construction. Lots of issues can be prevented due to varying field conditions.
- For "Design with Construction in Mind," it was good to have the designers see how to make the design more constructable.
- Interesting programs and links, such as Multicool/Pavecool, smooth-

pavements.com, NCAT's Training In Your Pocket.

- Many were happy that HDOT seems to be open and willing to try new pavement innovations, and willing to try pilot projects.

Thanks to our guest speakers Edwin Sniffen, Nicholas Schaefer, and Jarrett Welch for their time and effort.

We plan to make this virtual conference an annual event and hope that you will join us on March 29 for our 2023 conference.

Active Members are companies that supply asphalt binder and companies whose primary business is the manufacturing of hot mix asphalt.

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List of HAPI members

Lunch-Time Lessons 2022 UPDATE

BY JON M. YOUNG, EXECUTIVE DIRECTOR, HAPI

Our HAPI Shorts program—weekly lunch-time sessions continue to gain momentum. In 2022, more than 200 people attended the 35 sessions we conducted.

Each Wednesday at 11:30 a.m., we conduct a 30- to 40-minute presentation via Zoom meeting. The sessions are FREE, but we ask that you register.

In 2022, we added several new sessions to our library as follows:

- Building Blocks for Financial Success (something different)
- HAPI Jeopardy (educational and entertaining)
- Intro to Oscillatory Compaction
- Intro to Rejuvenators and RAP (completely updated)
- Plastics (fishnets) in Pavements
- Seven Things You Should Understand About Quality Assurance
- Smoothness 101 (completely updated)

The remainder of the sessions presented in 2022 were repeat topics, but that does not mean that they were the same. Presentations for all repeated

sessions are reviewed to ensure they are current and relevant. For example, for our Introduction to High Friction Surface Treatment session, we added excerpts from an actual construction plan and discussed the information that needs to be included on the plans. In general, about a third of the time-repeated presentations are updated.

About two-thirds of the sessions have been presented by Jon Young, executive director of HAPI, and the others are presented by a variety of guest speakers. We appreciate that several of our members volunteered their time during 2022 to be speakers, such as Brad Belvin from Sakai America, Inc.; Chris Lubbers from

Kraton Polymers US LLC; Jarrett Welch from Quality Paving Consultants; Nick Schaefer from Surface Systems and Instruments Inc.; and Todd Mansell from Caterpillar.



Jarrett Welch



Nick Schaefer



Todd Mansell



Brad Belvin



Chris Lubbers

We also thank our friends of HAPI for their time in 2022 to be guest speakers: Dr. Arudi (Raj) Rajagopal from Infrastructure Management and Engineering, Danny Gierhart from the Asphalt Institute, Hassan Tabatabaee from Cargill, Jennifer Lynch from the National Institute of Standards and Technology and Spencer Dung from





Arudi Rajagopal



Danny Gierhart



Hassan Tabatabaee



Jennifer Lynch

WestPac Wealth Partners.

Of course, our program would not be a success without people attending the various sessions. Since the inception of the program in July 2020, the sessions have attracted over 650 attendees. In addition to people from Hawaii, the sessions also attracted people from other states: California, Florida, Idaho, Iowa, Kentucky, Minnesota, New York, Nevada, Oklahoma, Texas, Washington, and Wyoming; and other countries: Canada, China, Egypt, India, Kuwait, Pakistan, Saudi Arabia, Serbia and Ukraine.



Spencer Dung

We thank all the attendees for taking time from their busy schedule to participate in our sessions. We hope that we were able to broaden their understanding of our industry with topics ranging from design and construction to maintenance of asphalt pavements.

The following is what attendees have said about our 2022 HAPI Shorts sessions:

- Thank you for providing these resourceful seminars. I appreciate Jon's enthusiasm!
- Thank you very much for the excellent presentation; it was very informative.
- Well put together and engaging topics/questions.
- I had a much better understanding of the oscillating compaction due to

the videos provided.

- Asphalt is something that interests me, and I learned a lot.

Attendees also thought it was helpful to have some knowledge of the session topic, coupled with a bit of experience. Most of the attendees also felt the sessions either met or exceeded their expectations.

To get 2023 off to an excellent start, on Jan. 25, 2023, we are offering a new session titled, "Improving Asphalt

with True WMA" by HAPI member Ingevity. Other new sessions planned are, "Working Together—Agency and Industry" and "Latest Pavement Technologies (Being Evaluated in Hawaii)." Suggestions for session topics are always welcome.

We hope that you will join us for sessions in 2023!

For additional information, please visit: <http://hawaiiasphalt.org/education/hapi-shorts/>

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There is an abundance of free resources about the asphalt paving industry available online, including design software, webinars/videos, and last but not least, HAPI resources.

DESIGN SOFTWARE

PAVE^xpress



PAVE^xpress is a free web-based pavement design tool available for use by local agencies, engineers, and architects who need a reliable way to quickly determine the necessary pavement thickness for a given section of roadway or project.
driveasphalt.org/resources/pavexpress



The **PAVEInstruct** learning module is a web-based pavement design education system with video instruction by leading industry experts. PAVEInstruct accompanies PAVE^xpress, a web-based software created to design flexible and rigid pavements using AASHTO 93/98.
driveasphalt.org/resources/paveinstruct



MultiCool is a user-friendly application that calculates the rate of cooling in an HMA mat during construction and was developed to help accurately predict asphalt pavement cooling time. The program computes how quickly each lift of HMA will cool and when the next lift may be placed.
eng.auburn.edu/users/timmdav/MultiCool/FinalRelease/Main.html#Disclaimer

WEBINARS



The **National Asphalt Pavement Association (NAPA)** webinars provide an easy way to stay informed of important issues facing the industry, and to expand your technical and industry knowledge.
asphaltpavement.org/programs/napa-webinars



The **Asphalt Pavement Alliance (APA)** and its partners offer webinars throughout the year on a variety of topics related to the asphalt industry. With knowledgeable

presenters from around the county, these webinars are dedicated to teaching best practices for testing, design, and application of asphalt.

driveasphalt.org/events/webinars



The **Asphalt Institute (AI)** offers both live and recorded webinars, such as “Tack Coat Best Practices” and “Carbon Footprint.”

asphaltinstitute.org/training/webinars



The **National Center for Asphalt Technology (NCAT)** has an exciting video series titled Training in Your Pocket. The series introduces asphalt topics and testing methods in a quick, easy to understand format.

youtube.com/c/TrainingInYourPocket



On the **Pavement Preservation & Recycling Alliance (PPRA)** website there are presentation videos from the 2020 virtual meeting of its four regional pavement preservation partnerships—the Southeast PPP, Northeast PPP, Midwestern PPP, and Rocky Mountain West PPP. There is also access to other archived webinars.

fp2.org/webinars



The **Pavement Preservation & Recycling Alliance (PPRA)** partners with FP2.org and the **Federal Highway Administration (FHWA)** to host a variety of webinars on topics crucial to pavement preservation.

roadresource.org/webinars



Connecting the DOTs is a webinar series that provides Department of Transportation (DOT) personnel with a platform to share their experiences and successes with the newest developments in pavement technologies. Agency personnel can collaborate and benefit from the experiences of their peers.
ingevity.com/behind-the-screed/connecting-the-dots



The **Deployment of Asphalt Pavement Technologies (DAPT)** webinar series share current information and implementation aspects on topics including ground tire rubber, quality assurance, reclaimed asphalt shingles and more. The webinars are moderated by FHWA and hosted by University of Nevada, Reno (UNR) with open access.
unr.edu/wrsc/tools/asphalt/webinars



Since 2011, the **University of Arkansas - Fayetteville** has been producing Pavinars: Webinars for the Pavement Community. The standard Pavinars are about 30-40 minutes each and cover a variety of topics related to pavements.
youtube.com/channel/UCbo-D_tfDFDzzn9NUPw0o8g/videos

HAPI RESOURCES

The HAPI website is a wealth of information. The site includes lunch time lessons, an online library, links to outside resources and our own pavement guide.



The **HAPI Shorts** program is a series of weekly lunch time sessions that you can enjoy in the comfort of your office. Each weekly session will be a 30- to 40-minute presentation

followed by questions and answers.
hawaiiasphalt.org/education/hapi-shorts



Our **Online Library** offers a comprehensive collection of articles, reports and videos on the following subjects: Asphalt Industry, Asphalt Pavements, Asphalt Binders, Emulsions, Recycling and Sustainability, Construction, and Pavement Preservation. The library also includes links to online periodicals and key correspondences.
hawaiiasphalt.org/education/library



Our website also provides **links to national and local associations**, organizations and government agencies. Also provided are links to pavement research centers and programs, and pavement test tracks.
hawaiiasphalt.org/education/links



Our **Asphalt Pavement Guide** is an informational resource on asphalt pavement, hot mix asphalt (HMA), and related subjects. It contains a general overview of all HMA aspects and in-depth information on recommendations and practices for Hawaii. It is intended to assist those who work with asphalt pavement and HMA in any way including architects, engineers, contractors, students and homeowners.
hawaiiasphalt.org/guide

We hope that you will utilize these resources to gain a better understanding of our asphalt industry.

MEMBERS' SERVICE CATEGORIES

- | | | |
|---|--|--|
| A a company that has an independent asphalt lab | L a company that does asphalt paving | P a company that produces hot mix asphalt |
| C a company that provides consulting engineering services, including construction management | M a material supplier | Q a company that has a quarry |
| E a construction or lab equipment supplier | O a non-paving or non-pavement treatment contractor | T a company that applies pavement treatments such as crack repair, seal coat, and slurry seal |

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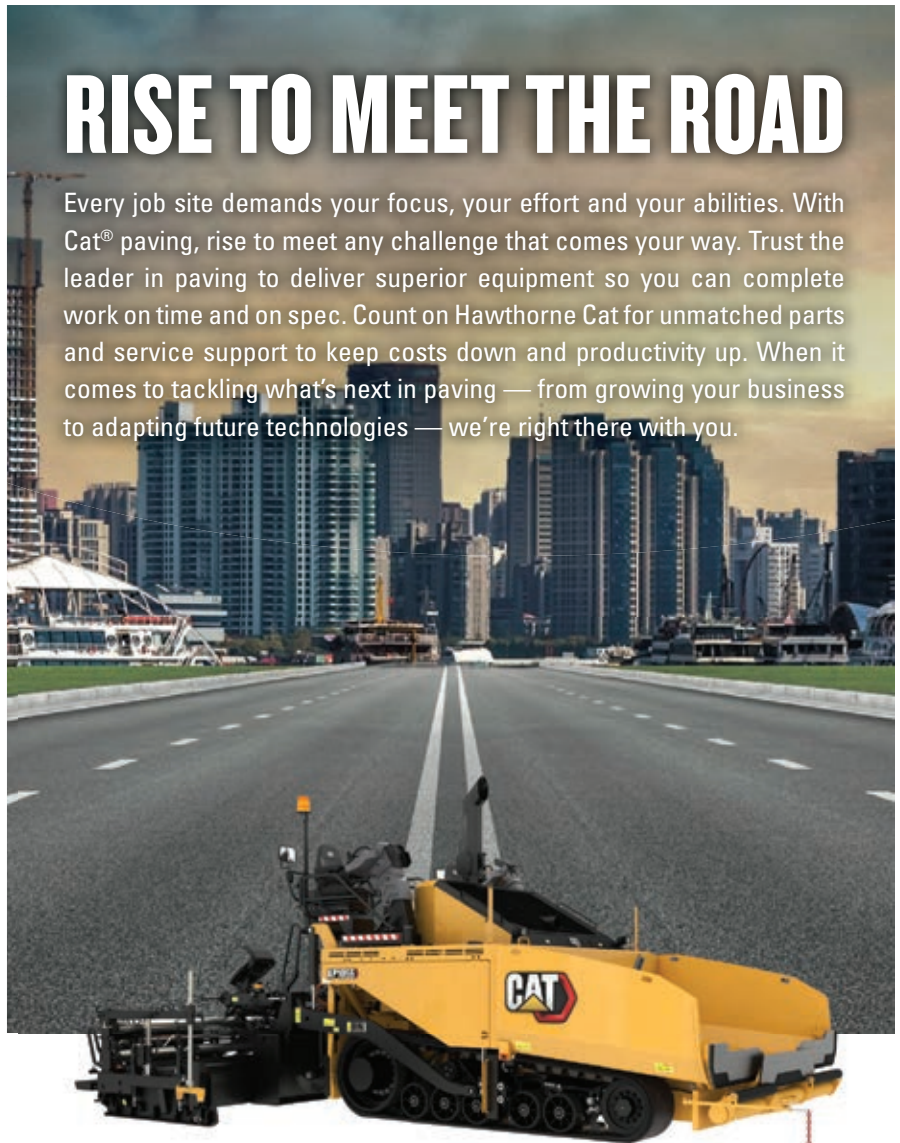
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Be on the lookout for upcoming workshops and events.
Visit our website calendar for the most current listing of events.

January:

- HAPI Lunch Meeting

March:

- Understanding a Job Mix Formula Submittal workshop
- HAPI Annual Paving Conference (Virtual)

April:

- Best Practices for Asphalt Pavements workshops
- Best Practices for Asphalt Pavements-The Next Level workshops

May:

- APWA Annual Meeting

July:

- HAPI Lunch Meeting

September:

- Understanding a Job Mix Formula Submittal workshop

October:

- Use of Geosynthetics for Asphalt pavements workshops
- HAPI Scholarship applications due

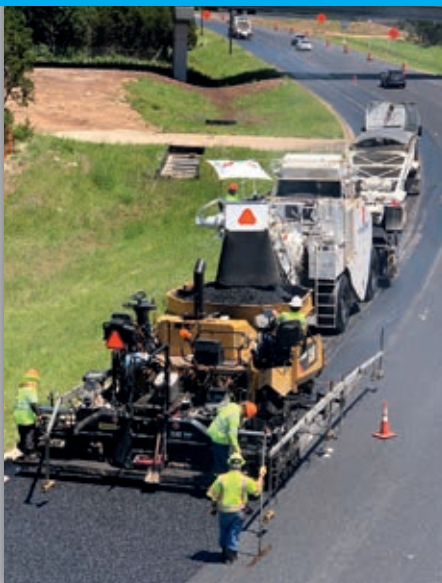
December:

- HAPI Holiday Game



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HAPI EDUCATIONAL RESOURCES

One of the missions of HAPI is to have continual learning for the contracting and design community. Below are resources that can be accessed by scanning the QR codes.

See the full website for more information, hawaiiiasphalt.org

ASPHALT GUIDE

HAPI Asphalt Pavement Guide is an interactive guide to everything about asphalt pavements and pavement treatments.



HAPI SHORTS

Each Wednesday at 11:30 a.m., we conduct a 30- to 40-minute presentation via a Zoom meeting.



TRAINING PROGRAM

The HAPI Training Program provides educational seminars and workshops that are regularly scheduled (i.e., once every year).



ONLINE LIBRARY

A library of articles and references about asphalt pavement and pavement treatments offer information about current developments within the industry.





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