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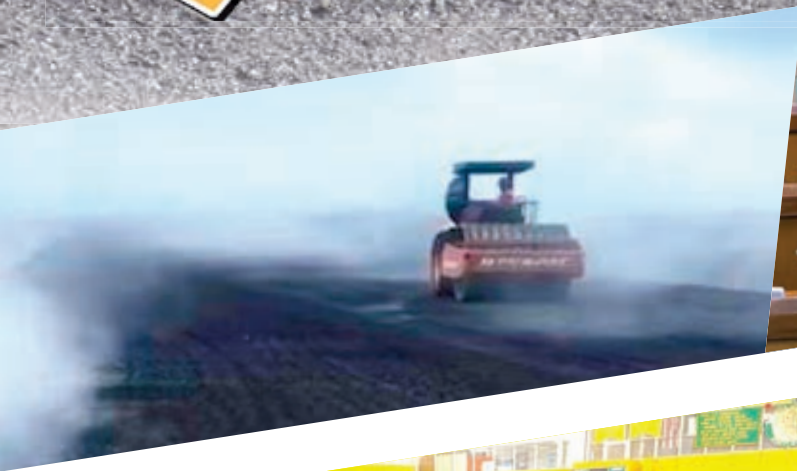
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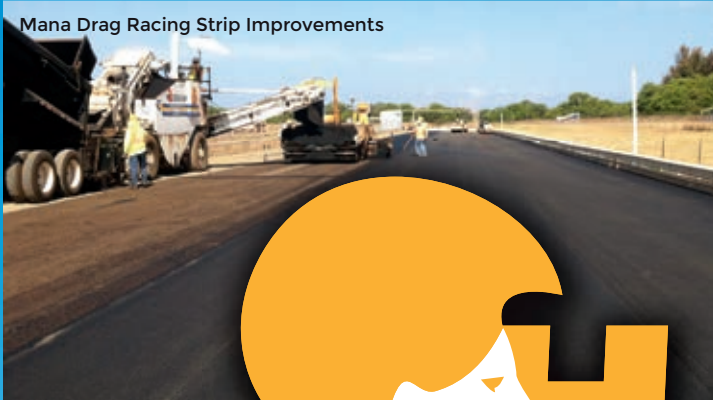
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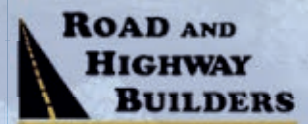


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HAPI Happenings in 2023

BY JON M. YOUNG, EXECUTIVE DIRECTOR

Many positive things happened for HAPI in 2023. LTAP officially became the title sponsor for both our Annual Paving Conference and our Best Practices workshops. A recap of our paving conference is included in the guide. Registration fees for government agency employees were paid for by LTAP. As a result, over 60 agency staff attended the best practices workshops in April on Oahu and Kauai.

The Use of Geosynthetics workshops were held in October on Oahu and Hawaii Island. HAPI member Geotech Solutions (Troy Ogasawara) helped with the arrangements. The instructors, Lars Nelson, Tommy James, and Garrett Fountain were from HAPI member Tensar. On Oahu, a Happy Hour Pau Hana took the place of the traditional breakfast.

We conducted two in-person lunch meetings for our members and invited guests. At the January meeting, we met Hall of Fame inductee Steve Muench and scholarship recipients Donovan Fujii and Mackelan Dax Mitchell. In July, Lori M.K. Kahikina, P.E. Executive Director and CEO of HART provided us with a project update.

Please check out the article titled "A Closer Look at HAPI Shorts." The weekly lunch times lessons program has grown over the years. See what is in store for 2024, but more importantly, learn about the various sources of information about the schedule of the Wednesday sessions.

Lastly, in 2023 we continue to spread the word about HAPI and our asphalt paving industry. Our monthly newsletter is distributed to over 2,600 people. While a majority of the recipients are from Hawaii, there are people in just



about every state that get this monthly publication. Our circulation also includes people from foreign countries such as Canada, Japan, and Serbia.

HAPI also spreads the word to college and high school students. We have a table at the University of Hawaii, College of Engineering Career Expos. This is our opportunity to let engineering students know about our industry and job opportunities.

We participate in the annual Hawaii Construction Career Days (HICCD) events which provide high school students grade 9-12 with an insight into career opportunities available in the multi-faceted construction industry.

We have also been invited to participate in high school events such as:

- Castle High School's Career Exploration Day
- Leilehua High School's College and Career Night
- Mililani High School's Mini College and Career Fair

The events at Leilehua High School and Mililani High School were also attended by parents, providing us with the opportunity to introduce parents to our industry as well.

We are looking forward to what 2024 will bring us!



2nd Annual Paving Conference

BY JON M. YOUNG,
EXECUTIVE DIRECTOR, HAPI

Just over eighty people attended our 2nd Annual LTAP/HAPI Paving Conference on March 29th.



Adriana Vargas-Nordbeck, Associate Research Professor, NCAT presented an “Overview of Slurry Seal and Micro Surfacing.” This was a timely topic as currently, HDOT Highways and DFM are using Slurry Seal as a pavement treatment. And both agencies are evaluating the possible use of Micro Surfacing.

She started by explaining the benefits of sustainability, then follows with a description of the two treatments: 1) What roads are good candidates for these treatments, 2) the required materials, 3) the design of the mixes, and 4) the construction. Next, she shared NCAT’s experience with micro surfacing. Photos of micro surfaced road sections were used to show the performance of the treatment.

She summarized that the two treatments are similar, yet different, but are both cost-effective preservation treatments. Success requires proper project selection, good materials and design, and good construction practices and inspection.



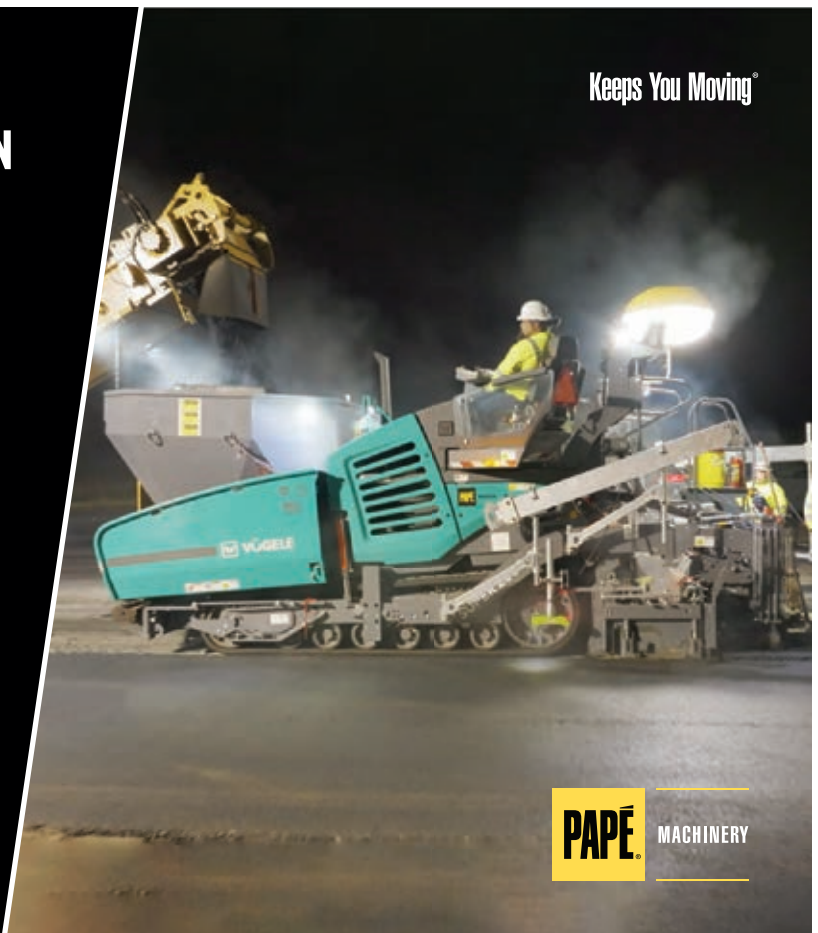
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Bob Humer, Senior Regional Engineer, Asphalt Institute provided an "Introduction to Perpetual Pavements." An asphalt perpetual pavement, properly designed and constructed, lasts longer than 50 years without requiring major structural rehabilitation or reconstruction, and needs only periodic surface renewal in response to distress confined to the top of the pavement. He provided the perpetual pavement design principles including a discussion of maximum pavement thickness, and how perpetual pavements can be cost effective.

Attendees learned about the three perpetual pavement awards: performance, conversion, and design. Case studies of projects receiving awards were reviewed to help attendees understand what makes a pavement perpetual.

Robin Shishido, Deputy Director, Highways Division, HDOT, provided an updated status of their pavement initiatives, which included the following:

- High RAP mixes
- Micro Surfacing
- Permeable Asphalt Pavements
- Trackless Tack Coat

- Pavement Markings Eradication
- Potholes

A lively question and answer session followed Shishido's presentation.

Our last speaker, Todd Mansell, Product Application Specialist, Caterpillar, talked about "Types of Paving Equipment and Their Applications." Non-contractor attendees were the focus audience for this presentation. Mansell described the components of an asphalt paver, including the screed, augers, tunnels, and cut-off shoes.

Having knowledge of how things are constructed will help engineers with their preparation of their construction plans. Mansell discussed special situations such as narrow shoulders and considerations for paving a roundabout. He encouraged a group discussion of what to do when a set of construction plans called for the removal of a 5-foot-wide strip of pavement which is a non-typical width of a milling machine drum.

His presentation concluded with a discussion of several types of rollers – how they work and the role each plays in obtaining compaction. The types of rollers discussed included steel drum vibratory, static steel drum, split drum, offset drum, pneumatic, vibratory pneumatic, oscillation, and combination.

Mansell ended his presentation by sharing the CAT Mat Defect – Trouble Shooting chart. The chart lists problems and their possible causes.

Twelve people participated in the Game Show at the end of the conference and others stayed on to watch the action. The game show had twenty quiz questions about the presentations and questions about HAPI – faster correct answers got more points. The game was 15 minutes of pure excitement and fun!

The following are things that attendees remembered about the conference:

- The speakers were all very professional and experts in their fields.
- I thought the content was good. I liked how there were government agencies, as well as researchers as speakers.
- The first presentation was very good. The speaker (Vargas) was prepared and was able to present with ease. It made listening to the presentation enjoyable.
- Good to hear about HDOT's programs, pavement management system.

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- The tips and stories shared by the speakers.
- The Game Show – Fun! Fun! Fun!

Thanks again to our guest speakers Adriana Vargas Nordbeck, Bob Humer, Robin Shishido, and Todd

Mansell for their time and effort. We would also like to thank our sponsors for their support of the conference. Our title sponsor LTAP Hawaii made it possible for over sixty government agency employees to attend at no cost.

Next year's virtual conference is scheduled for March 27, 2024. It will follow the same format, highlighted by a session on Japanese high RAP technology. Mark your calendars - we hope that you will join us!



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A closer look at HAPI Shorts



BY JON M. YOUNG, EXECUTIVE DIRECTOR, HAPI

Our HAPI Shorts lunch time lessons program was launched in July 2020. Let's review how far the program has come and what's in store for 2024.

HAPI Shorts sessions are conducted on Wednesdays from 11:30 a.m. to 12:30 p.m. (HST). About 40 sessions are conducted each year, with currently just over 35 different sessions covering a wide range of topics both asphalt industry related and for personal development.

Since the beginning, we have conducted about 130 sessions attended by just over 1000 people. While our target audience are people from Hawaii, we appreciate that others have also attended our sessions:

- Other states such as California, Florida, Idaho, Iowa, Kentucky, Minnesota, New York, Oregon, and Nevada.
- Foreign countries such as Canada, China, Egypt, India, Japan, Pakistan, Serbia, Saudi Arabia, and Ukraine.

In 2023, we added several new sessions to our library as follows:

- Improving Asphalt with True WMA
- Milling 101

- Pavement Technologies in Hawaii
- Public Speaking Tips

The remainder of the sessions presented in 2023 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.

We have learned from the responses to our evaluation survey that attendees felt it is helpful to have some knowledge of the session topic, but not necessary to be experienced in the subject. Other comments included:

- Great presentation. Thank you. (Use of Recycled Materials in Pavements)
- Very informative. Apply to our HDOT Harbors pier apron projects. (Intro to Oscillatory Compaction)

- Great level of detail on VRAM material presented for both a first introduction and to someone with some experience. (Intro to Void Reducing Asphalt Membrane)
- Nice job! I don't think there are enough of these types of presentations in the industry. (Public Speaking Tips)
- I did not know what the Envision Rating System was prior to this presentation. (Envision Rating System)
- Very good informative session. (Pavement Distresses)
- Good tips. (Use of Color in Communications)
- Excellent presentation. (Plastics [fishnets] in Pavements)
- Thank you for providing these resourceful seminars. I appreciate



ciate Jon's enthusiasm!
Looking for a session to attend?
The HAPI Shorts sessions schedule is
found in several places:

- In the monthly report to our members
- In our monthly newsletter.
- In our website calendar of events.
- It is included in the Thank You note we send to people that attended a session.
- In Building Industry Hawaii magazine datebook.
- Highlighted sessions are posted on the Asphalt Pavement Alliance website.
- The next session is posted on our Facebook and LinkedIn pages and is the first photo on our website home page.



Bob Siffert

In 2024, we plan to have one highlighted session a month. Highlighted sessions are those conducted by a guest speaker, new sessions, or game sessions). Standing

sessions are:

- March: Annual Virtual Paving Conference
- July: HAPI Jeopardy
- December: HAPI Holiday Game

To get 2024 off to an excellent start, on January 17, 2024, we are offering Building Blocks for Financial Success. Join Spencer Dung, Managing Director/Wealth Management Advisor, WestPac Wealth Partners as he discusses personal financial strategies.

Two new sessions for 2024 are being planned. One session will discuss how density is determined using laboratory testing and/or measured in the field using both nuclear and non-nuclear gauges. The other session will answer the question "is a tack coat and prime coat the same thing?"

We hope that you will join us for sessions in 2024!

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

Looking for a job?

HAPI posts job opportunities with our members on our website. Our member companies include:

- Paving Contractors
- Pavement Treatment Contractors
- Design Consultants
- Construction Managers
- Equipment Manufacturers
- Material Suppliers



HAPI CALENDAR

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

June:

- APWA Annual Meeting

July:

- HAPI Lunch Meeting
- HAPI Jeopardy

September:

- Understanding a Job Mix Formula Submittal workshop

October:

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

December:

- HAPI Holiday Game



Construction Preview - A look back at how our forecasts have fared.

Each year HAPI is invited to contribute an article for the Construction Preview issue of *Building Industry Hawaii* magazine. The goal is to provide their readers with a better sense as to what may lie ahead for their organization, for the construction industry, and for Hawaii.

Let's look back at our articles on Stone Matrix Asphalt and Balance Mix Design to see how far we have come as an industry.

BY JON M. YOUNG, EXECUTIVE DIRECTOR

Stone Matrix Asphalt (SMA)

In 2019, we introduced SMA to a broader audience than just the asphalt industry. SMA is a gap-graded hot mix asphalt (HMA) originally developed in Europe to maximize rutting resistance and durability. The mix design goal is to create stone-on-stone contact within the mixture. Since aggregates do not deform as much as asphalt binder under load, this stone-on-stone contact greatly reduces rutting.

In 2004, the material was tested on a section of the Moanalua Freeway on the town side of Red Hill. That section remains in good condition today. The resurfacing of the H-1 Freeway between Middle Street and Ward Avenue was completed using SMA in 2014. SMA was chosen because it is designed to last 10-15 years, instead of 7 to 10 years for a dense-graded HMA.

In our January 2019 article we noted that the future of SMA in Hawaii is looking bright and that turned out to be true. The following has happened since then.

As part of our effort to promote the use of SMA, in April of 2019, HAPI conducted a two-day SMA Mix Design and Construction training course in Hawaii. It was attended by about 60 people from contractors, consultants, and government agencies.

In June 2020, the Hawaii Department of Transportation, Highways Division (HDOT) is a memorandum intended to provide general guidelines for pavement (SMA) material selection for roadway projects.

Since January 2019, a couple major highway projects have specified SMA pavement: 1) resurfacing of the section of Pali Highway from Waokanaka Street to Kamehameha Highway completed in 2020 and 2) resurfacing of the section of Interstate Route H-1 Rehabilitation from Salt Lake Boulevard to the Airport Viaduct that is in progress.

Most recently, the Department of Transportation Harbors Division has used SMA for some of their port paving projects on Oahu.

We anticipate that SMA will continue to be the material of choice for heavy duty applications such as highways and ports.

Balance Mix Design (BMD)

BMD is an enhanced approach to designing asphalt paving mixtures to achieve a satisfactory balance between rutting resistance and cracking resistance. It promises to result in longer-lasting asphalt pavements.

Hawaii's movement towards BMD began in September 2019. I, along with two HDOT engineers, attended a 1-day Regional Balanced Mix workshop in Taylorsville, Utah conducted by the National Center for Asphalt Technology. The objective of the workshop was to share current information on BMD and encourage state highway agencies and asphalt contractors to move forward with implementation.

The following is a timeline of activity since our January 2020 article:

- April 2020: HDOT and HAPI work together to form an implementation team.
- May 2020: Kick-off implementation team meeting.
- January 2021: BMD performance tests methods webinar arranged by HAPI. Speaker Scott Quire, Bluegrass Testing Lab in Kentucky.
- August 2021: Balanced Mix Design (BMD) Case Studies Virtual Workshop: Moving Forward with Implementation.

HDOT is on the cusp of developing an implementation plan. Once the plan is completed, they may determine that using BMD to its fullest in Hawaii may not be practical.

But what they may determine is that BMD can be used for non-standard mixes. The HDOT standard mix is Mix IV (or V), with 20% RAP, and produced using a neat binder or a polymer modified binder. The standard mix has been performing well.

HDOT could use BMD Approach A method to evaluate

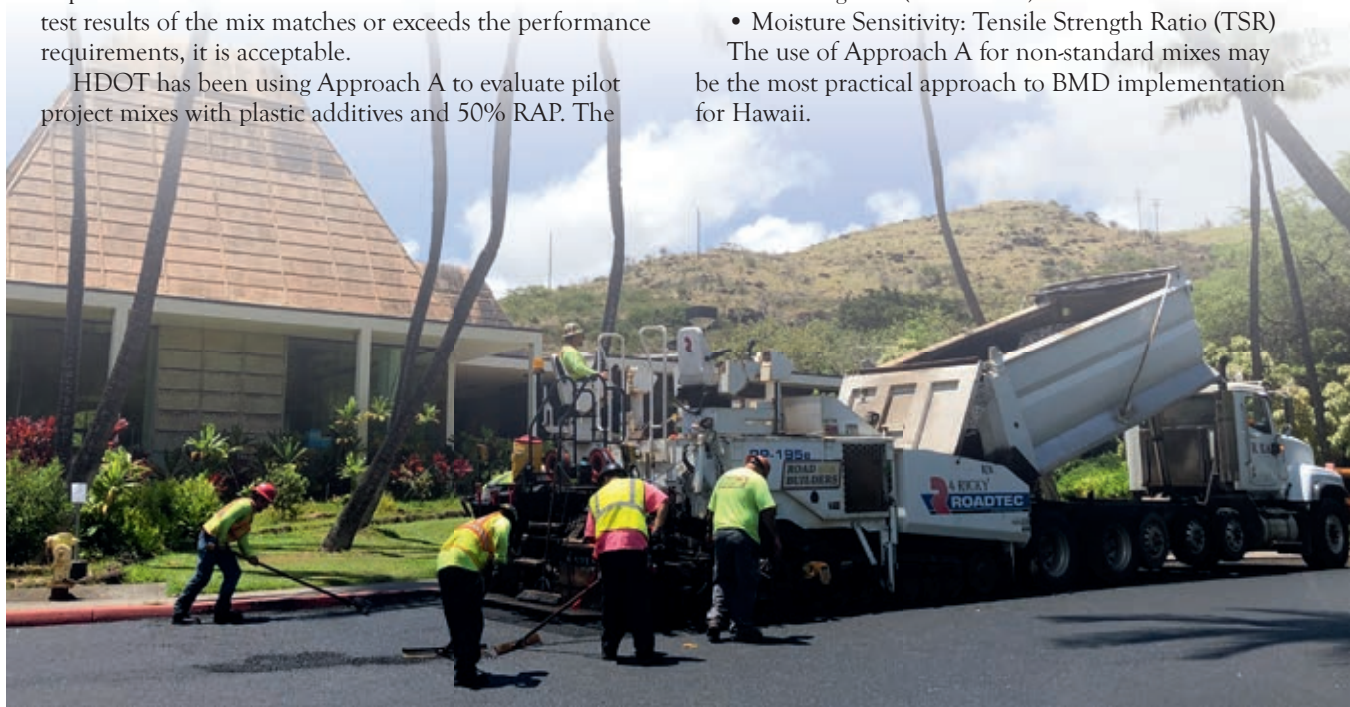
non-standard mixes such as mixes produced with a plastic additive or incorporating more the 20% RAP. Approach A requires full compliance with the existing volumetric requirements. Performance tests are then conducted. If the test results of the mix matches or exceeds the performance requirements, it is acceptable.

HDOT has been using Approach A to evaluate pilot project mixes with plastic additives and 50% RAP. The

performance tests being used are as follows:

- Rutting Potential: Hamburg Wheel-Tracking Test
- Cracking Potential: Indirect Tensile Asphalt Cracking Test (IDEAL-CT)
- Moisture Sensitivity: Tensile Strength Ratio (TSR)

The use of Approach A for non-standard mixes may be the most practical approach to BMD implementation for Hawaii.



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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, hawaiiasphalt.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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