



2022
Annual
Report



To conduct strategic research and educational activities that are designed to advance and improve both the liquid asphalt industry and the welfare of the general public.



Twenty-twenty two is a year of numbers for the Asphalt Institute Foundation. These growing and notable numbers tell the story of a successful year for the foundation's education and research programs.

Our second Strategic Asphalt Research (STAR) Symposium, held in Atlanta, GA, last May was attended by 108 professionals from seven countries. The symposium's World Café facilitation process, combined with the use of a collaborative online whiteboard, recorded the results of countless thoughts and conversations. Twenty-five companies contributed \$179,500 in sponsorships for the event with four of the corporate sponsors further contributing \$10,000 to fund production of the final symposium report. A huge success, we commend the effort by all the STAR Symposium attendees in generating the content that is at the heart of the report and its supplement, as it will guide the foundation's research needs for years to come.

In addition, the results of two AIF research projects, created from the ideas generated at the inaugural STAR Symposium in 2017, were presented to a new group of thought partners at the 2022 STAR Symposium. The promising findings of the research culminated in a continuation of the Asphalt Durability project into a Phase II effort worth \$153,200.

At the close of the STAR Symposium, the AI Foundation Research Committee Chair, Tony Kriech of Heritage Research Group, announced that Heritage along with Asphalt Materials, Inc. and Fred M. Fehsenfeld, Jr. would make an additional contribution to the foundation raising the Fred M. Fehsenfeld, Sr. Catalyst for Change Initiative to \$1MM. With this milestone gift, they are now recognized as a *Cornerstone Contributor* on the foundation's donor wall that acknowledges AIF supporters who have donated \$1MM or more.

Following a pause due to the pandemic, we held the fifth AIF Internship Program in early June. A major goal of this program is to raise awareness of the overall industry and highlight potential careers in this space. Eight college students attended the educational event where they gained knowledge and insight into the asphalt industry. One of those students joined us during the Asphalt Institute's summer meeting in San Francisco, CA, as an additional benefit of the program. The Institute's EPIC Class 6 – which graduated in August 2022 – contributed \$2,500 to sponsor a dinner during the 2023 AIF Internship Program – a generous gesture of support to both AIF and a new class of student interns.

In its third year, the Kirk Scholarship program awarded \$20,000 in funds to seven students. Since the inception of this wonderful program, a total of \$70,500 in scholarship funds has assisted 15 students in attaining their educational endeavors. Help us spread the word about this tremendous opportunity for students.

Celebrated on the Tuesday after Thanksgiving, #GivingTuesday is touted as a day to unleash the generosity of people to transform the world. In 2022, \$262,900 was gifted to the foundation from seven donors, by far the largest #GivingTuesday ever for us. These gifts are further proof that our supporters are committed to giving back and enhancing our industry for the next generation of leaders.

We begin 2023 with Susie Tanner, CAE at the helm of the AI Foundation as its Programs and Development Director. Susie possesses a solid vision for our future as we close in on AIF's 10-year anniversary in 2024. We added two additional positions to the Development Committee this year (for a total of 16 positions now), to help us achieve both our financial and program goals. They are among the 55 volunteers we seated from 35 companies, which also included a public volunteer and three Emeritus individuals from the Asphalt Institute. It's a great start to a very promising 2023.

Thank you for your tremendous support as we reach new heights. It is your continuing loyalty and commitment to our industry's future that drives us forward.



John Barrington
AIF Chair



Peter T. Grass, P.E., CAE
AIF President

ASPHALT TECHNOLOGY MODULE

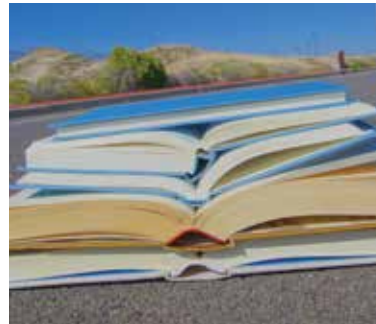
The University Asphalt Technology Module (ATM) Phase I was launched in October 2020 and consisted of six 50-minute lecture modules as an ideal addition to a basic engineering or construction materials course for undergraduate students. Topics included an overview of flexible pavement, materials, laboratory compaction, volumetric properties and analysis, design, and production and construction. The ATM was particularly useful for professors with little to no background in asphalt materials. The syllabus for Phase I references each module's learning objectives and includes a PowerPoint slide deck, teacher notes/tips, practice problems and calculation spreadsheets. By the end of 2022, 88 professors from 73 universities/colleges in the United States and Canada have requested ATM Phase I.

One of the reasons many students choose Civil Engineering is the "hands-on" nature of the discipline. The laboratory component of courses is often the most popular part of a curriculum. In 2022, ATM Phase II was completed, which consists of five laboratory modules for asphalt mixtures that complement the Phase I lecture modules. Each module has learning plans, PowerPoint presentation files, spreadsheets, videos, AI's MS-2 mix design manual, and problem sets. A key component of these modules are videos that the AI engineering staff has produced, clearly showing how tests are conducted in a laboratory setting.

After surveying faculty around the United States, it was decided to offer these lab modules in several configurations, based on the access to lab equipment, as well as how much instructional time can be allocated to cover the material. Before releasing Phase II, an effort is underway to synthesize the modules of both Phase I and II in a manner that will simplify the faculty experience of downloading the material that is best suited for them.

This is expected to be completed by Summer 2023 followed by the official release of the new ATM, which includes the integration of lecture modules along with new laboratory modules.

The Asphalt Technology Module is made possible by a \$40,000 grant from Jebro Inc. and the MDU Resources Foundation awarded in the spring of 2018.



UNIVERSITY TEXTBOOK PROGRAM

Since 2017, more than 3,700 eBook and hardcopy publications have been provided to undergraduate and graduate level

engineering students across the United States through AIF's University Textbook Program. The goal of the textbook program is to assist university professors and students with asphalt industry resource manuals and reference materials that will enhance their classroom studies of asphalt pavement engineering.

The development of the Asphalt Technology Module and the University Textbook Program have provided unique opportunities for students to receive quality asphalt pavement engineering curriculum and publications. Both corporate and individual friends of the AI Foundation sponsored classrooms with hardcopy asphalt publications so that students can build their professional reference libraries. These donors include:

- *Avista Oil & Juan Fritschy*
- *Laurand Lewandowski*
- *Polyco*
- *Jebro Inc.*
- *Harold (Chip) & Beth Ray*

ASPHALT INSTITUTE FOUNDATION INTERNSHIP PROGRAM

After a two-year hiatus due to the pandemic, the Asphalt Institute Foundation's Internship Program hosted its fifth program in 2022. The program goal is to attract new professionals to the asphalt industry by providing real-world experiences and knowledge, along with professional networking opportunities.

Held at the Asphalt Institute Headquarters, a total of eight interns representing four member companies and the Asphalt Institute attended the 2022 program. During their visit, they took part in binder and mix laboratory tours and demonstrations as well as "Asphalt 101" seminar sessions.



The students also learned about the organizational significance of the Asphalt Institute and the Asphalt Institute Foundation.

A key program highlight was an industry career panel discussion, followed by a Q&A session. Panelists shared their unique story, personal and professional experiences and educational path that led to their current position within the asphalt industry.





The session was moderated by current AIF Chair John Barrington (Blue Tide Environmental) and featured industry leaders and AIF supporters including: Austin Miller (Wright Asphalt Products Company LLC), Timothy Pinkelman (Owens Corning Roofing and Asphalt LLC), Lee Schloss (Kokosing Materials, Inc.) and Amma Wakefield (Asphalt Institute). These panelists provided tremendous information and insight for the participants.

As part of the program, student interns are invited to attend the Asphalt Institute's Summer Meeting. William Bushong, intern for Owens Corning Roofing and Asphalt, LLC, attended the 2022 meeting held in San Francisco, CA, where he was able to network with AI member company representatives and take part in various AI committee meetings and seminars.

Looking ahead to 2023, plans are underway to host the AIF Internship Program, June 6-8, at AI Headquarters in Lexington, KY.

Student interns travel and participation is complimentary, courtesy of the AI Foundation and generous donors including members of the Asphalt Institute's EPIC Class 6 who are sponsoring a group dinner for attendees during their time in Lexington.



**AIF
INTERNSHIP
PROGRAM
JUNE 6-8, 2023
AI HEADQUARTERS
LEXINGTON, KY**





BILL AND SHIREEN KIRK SCHOLARSHIP FUND

The AI Foundation announced the 2022 recipients of the Bill and Shireen Kirk Scholarship Fund in late summer.

These scholarships are made possible by the Kirks who endowed \$500,000 to fund the program in December 2019.

The fund annually awards scholarships to third or fourth year undergraduate, masters or doctoral students studying business, chemistry, civil engineering, construction management, marketing or sales. Scholarship funds totaling \$20,000 were awarded to seven Kirk Scholars for the 2022-2023 school year.

2022 KIRK SCHOLARS



Sadie Brockett,
Iowa State University

Brockett studies construction engineering at Iowa State University.

She is from Reinbeck, Iowa. She hopes to work as an engineer, managing heavy civil and highway projects.



Joseph Pontari,
University of Maryland

Pontari studies civil engineering at the University of Maryland.

He is from Absecon, New Jersey. His plans include working as a heavy civil engineering contractor after graduation.



Kelina Evans,
Michigan State University

Evans majors in civil engineering at Michigan State University. She is

from Joliet, Illinois. Her plans include becoming a project manager with her current co-op company.



Allison Stencil,
University of Wisconsin-Platteville
Stencil studies construction

management at the University of Wisconsin-Platteville. She is from Greenville, Wisconsin. She wants to work as a project manager and help others grow as well.



Tyler Kleinsasser,
South Dakota School of Mines & Technology

Kleinsasser is a civil engineering/engineering

management major at South Dakota School of Mines & Technology. He is from Rapid City, South Dakota. He plans to open a consulting firm after gaining experience in the field.



Elizabeth Turochy,
Auburn University

Turochy is a civil and environmental engineering major at

Auburn University. She is from Auburn, Alabama. She plans to earn a Ph.D. and provide asphalt paving solutions to under-resourced communities.



Tyler Morrison,
University of Kentucky

Morrison studies civil engineering at the University of Kentucky.

He is from LaGrange, Kentucky. His goals include graduate school then a career in transportation engineering.

Recipients of the 2023 Bill and Shireen Kirk Scholarship will be announced later this summer. The 2024 scholarship program application will be available via the AIF website in late fall.

Research resulting from ideas generated during the inaugural STAR Symposium in 2017 continued to be the highlight of the AIF Research Program in 2022 with projects at various points in their life cycle – coming to a conclusion, continuing into a second phase, starting a first phase, and being approved for funding.

The **Asphalt Sustainability** research project was developed to define and articulate sustainability as a strategic direction for the asphalt industry such that it would be able to address the issue in a proactive manner resulting in better understanding and thoughtful execution of impactful efforts contributing to the long-term sustainability of the liquid asphalt industry. The research team, led by Dr. Steve Muench at the University of Washington, delivered their draft final report to the AIF Technical Advisory Panel in late 2021 and presented their findings at the second STAR Symposium in May 2022. The research led to a clearer understanding by many in the asphalt industry of the need to engage in a broader effort to develop an EPD (Environmental Product Declaration) for asphalt binders.

The **Asphalt Durability** research project was developed to study methodologies evaluating asphalt durability over a much longer time scale than current specification systems. The expectation is that research findings will lead to a next-generation practical and implementable specification based on physical properties which relates to the long-term performance of asphalt binder in pavements. The research team, led by Dr. Hilde Soenen at Nynas, completed much of their work in 2021 and presented an update on their findings to the AIF Research Committee in early 2022. Phase II of their work was approved by the AIF Board of Directors in the latter half of 2022 and is expected to continue into 2023.

In a departure from the previous two research projects which were the result of a formal request for proposal



(RFP) process, State Farm Mutual Automobile Insurance Company provided funding through a donation to AIF at the end of 2021. They agreed to partner on research entitled **Understanding and Improving the Durability of Asphalt Shingles**. The motivation for the research was an understanding that achieving a sustainable future for asphalt roofing products depends on engaging the principles of sustainable materials management (SMM), which includes long-term performance. Long-term performance of asphalt shingles – particularly with respect to durability – needs to be better understood and quantified. By doing so, asphalt shingles should see an extension of their useful service life and a delay in the onset of end-of-life management activities such as reuse and recycling. Phase I of the research project was initiated in 2022 and will continue through the first half of 2023.

In 2021, AIF advertised an RFP on **Sustainable Materials Management of (Bituminous) Asphalt Roofing**. The objective of this research is to develop sustainable materials management (SMM) practices for asphalt roofing products that will conserve resources, reduce landfill waste, and reduce costs while maintaining the quality performance of asphalt roofing. Proposals were received and evaluated by the Research Committee in 2021 and 2022. The AIF Board approved the award of the research project in late 2022. A contract is expected to be issued in 2023 with Phase I work continuing thereafter.



2022 STRATEGIC ASPHALT RESEARCH (STAR) SYMPOSIUM: INNOVATING ASPHALT – THE ROAD AHEAD

The Asphalt Institute Foundation hosted the Strategic Asphalt Research Symposium (STAR) on May 16-18, 2022, at the Hotel Midtown in Atlanta, GA.

The second Strategic Asphalt Research Symposium continued the AI Foundation's commitment to identifying and building solutions for the betterment of the asphalt binder industry's future. The three-day event focused on identifying strategic research areas and topics in four general areas including:

- Economics (Infrastructure Policy and Funding)
- Environmental Sustainability
- Human Needs (Workforce Development)
- Performance (Durability)

A total of 108 attendees from seven countries attended

the event representing diversity in geography (North America, Europe, Asia), career experience, principal job responsibilities and employment sector relative to the asphalt industry (i.e., agency, industry, association, end-user).

With the use of a collaborative online whiteboard system called MURAL, the symposium's World Café facilitation process enabled countless thoughts and conversations to be recorded through conversations held in six separate breakout sessions.



Led by a professional facilitation team, participants discussed, in order: problems, root causes, goals and strategies in each breakout before moving on to the next discussion space. While the 2022 STAR Symposium Report devotes a one-page synopsis to sub-topics of the four main general topics, all ideas discussed during the symposium breakout sessions are preserved in the MURAL and will be available as a 2022 STAR Symposium Supplement publication in Spring 2023.



The AI Foundation is committed to taking the results of the 2022 STAR Symposium and using them as further catalysts to identify needed research for our industry. This is a critical part of the journey – and we can't wait to get started.

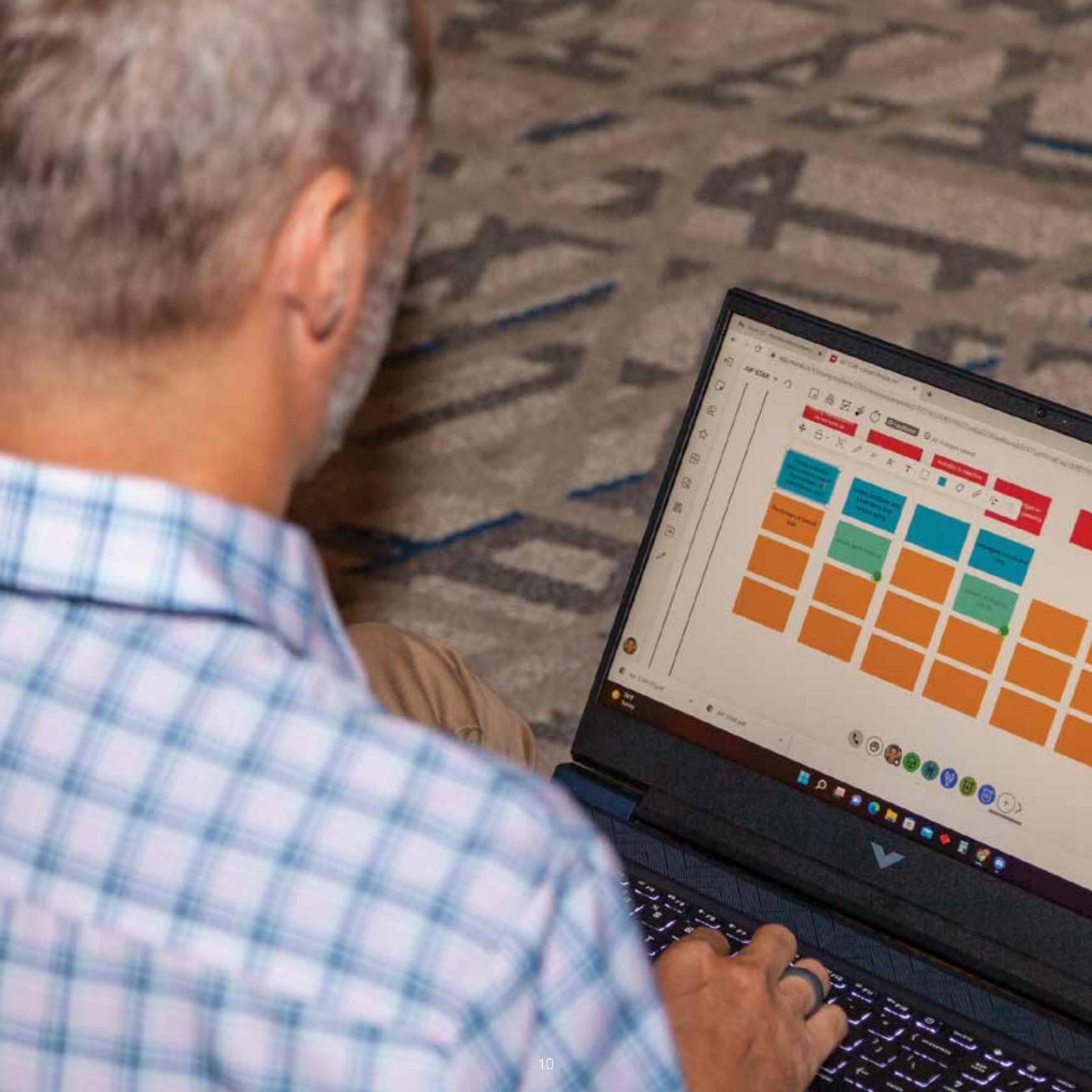


Special thanks go to the 2022 STAR Symposium Chair Ralph Shirts (ExxonMobil-Retired, Asphalt Institute Emeritus) and Steve Buckner (Flint Hills Resources, LP) who served as the STAR Symposium Task Force Chair from 2019-2022. Their leadership was instrumental to ensuring that this event remained focused and unique - like none other in our industry. An additional word of thanks is also extended to our 2022 AIF STAR Symposium Task Force who have worked diligently since 2019 to plan and execute an event of this magnitude.

2022 STAR SYMPOSIUM PLANNING TASK FORCE

- *Steve Buckner, Flint Hills Resources, LP*
- *Joey Bruns, Polyco*
- *Eileen Dutton, Malarkey Roofing Products*
- *Mike O'Leary, Ingevity*
- *Chris Piche*
- *Ralph Shirts, AI Emeritus*
- *John Shutsa, Russell Standard*
- *Hassan Tabatabaee, Cargill Bioindustrial*

Download the STAR Symposium Report by visiting: www.asphaltfoundation.org/2022-star-symposium



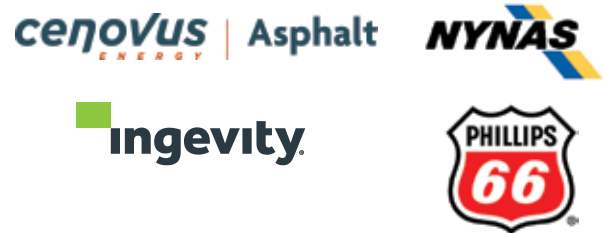
The Asphalt Institute Foundation appreciates the many AI member companies and partner organizations who sponsored the 2022 event, including the creation and publication of the STAR Symposium Report.

2022 STAR SYMPOSIUM SPONSORS

Visionary Sponsors
\$20,000



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\$7,500



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\$5,000



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DEVELOPMENT COMMITTEE INITIATIVES IN 2022

Raised to 14 members at the start of 2022 and by two more again at the start of 2023, the Development Committee has been busy ensuring AIF is in touch with its donor community. These conversations, started in earnest under the leadership of John Janes as Development Committee Chair (2021-2022) have helped us ensure our programs are well funded now and for the future.

The Development Committee's Sustainability Task Force is exploring ways the foundation can address the sustainability needs of our industry – from a strategic standpoint. As can be readily seen, there is a major effort underway through the Asphalt Institute to provide tactical sustainability products – such as their Life Cycle Assessment and Environmental Product Declaration tools. These are in use and needed today.

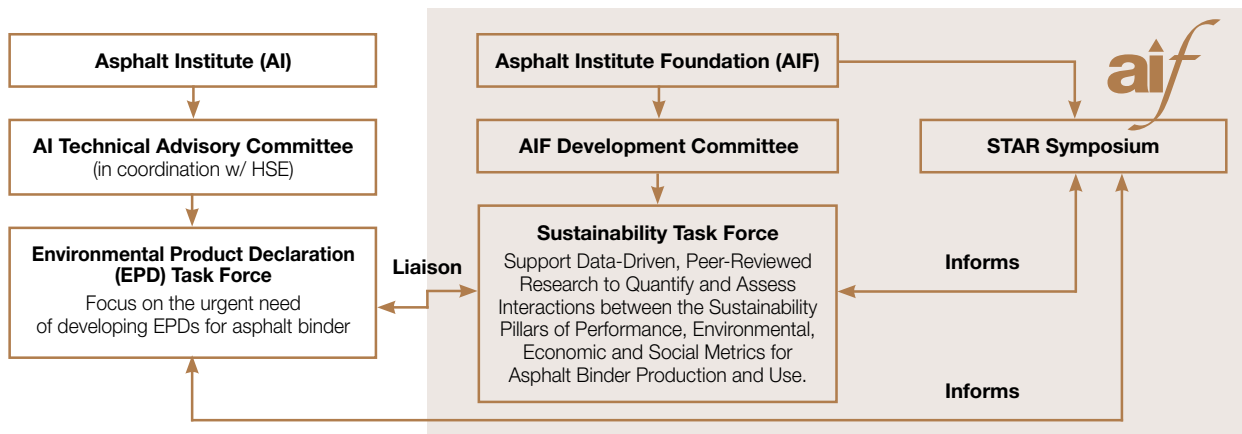
We expect the strategic importance of sustainability to grow. Having resources to tackle these and other related issues are an emerging need for the foundation to address. Let us know if you are interested in this effort. We welcome you to join the conversation.

PARTNERING WITH AIF TO LEAVE A LEGACY

Legacy gifts to the Asphalt Institute Foundation enable donors to create a philanthropic legacy by making an impact in a permanent and prominent way on the foundation's initiatives. Planned giving opportunities, with naming rights, are available. A legacy gift allows corporate or individual donors an opportunity to support education and research programs that reflect their values and desires while making a lasting impact.

If you want to learn more about these opportunities, please reach out to a Development Committee or AIF staff member on how you can assist in helping achieve AIF's mission of advancing and improving the liquid asphalt industry.

SUSTAINABILITY INITIATIVES



**FRED M. FEHSENFELD, SR.
CATALYST FOR CHANGE INITIATIVE
REACHES \$1 MILLION MILESTONE**

With a goal of promoting innovation in the asphalt industry, The Heritage Group launched the **Fred M. Fehsenfeld, Sr. Catalyst for Change Initiative** in August 2019. The initiative honored the late Heritage Group founder who was both a philanthropist and tireless asphalt industry supporter.

During the 2022 Asphalt Institute Annual Meeting Awards Dinner in Key Biscayne, FL, Harold (Chip) Ray (President, Asphalt Materials, Inc.) and Geoff Dillon (President & CEO of Heritage Construction & Materials) announced a gift of \$300,000 to the AI Foundation bringing the total contribution to \$1 million for the Fehsenfeld, Sr. Catalyst for Change Initiative.

Recognized as a Cornerstone Contributor for donations of \$1 million or more, we appreciate the leadership, foresight and support of The Heritage Group, Asphalt Materials, Inc., Fred M. Fehsenfeld, Jr. and Tony & Andrea Kriech to ensure that Fred M. Fehsenfeld's passion for our industry lives on.

John Janes, Associated Asphalt and 2022 AIF Development Committee Chair and Geoff Dillon, President & CEO of Heritage Construction & Materials at the 2022 AI Awards Dinner in Key Biscayne, FL.



**2022 ASPHALT INSTITUTE FOUNDATION
FELLOW AWARD RECIPIENTS**

The following donors were recognized at the AI Awards Dinner on December 7, 2022, in Key Biscayne, FL, as AIF Fellow Award Recipients. These honorees have contributed \$10,000 or more to the foundation's education and research program since 2014.



Delek US



Pete & Dawn Grass



Hunt Refining Company



Mathy Construction Company



Peckham Industries



Harold (Chip) & Beth Ray



Ralph & Sandi Shirts

**Not Pictured:
Fred M. Fehsenfeld, Jr.;
Greg & Mardee Malarkey**

2022 ASPHALT INSTITUTE FOUNDATION GOLF SCRAMBLE

The Asphalt Institute Foundation Golf Scramble was hosted at the Miami Beach Golf Club on December 7, 2022. Held in conjunction with the Asphalt Institute's Annual Meeting, over 150 golfers participated in this charitable event – the largest annual fundraiser for the foundation.

The scramble raised over \$58,000 for the Asphalt Institute Foundation. Charitable funds raised from this annual event now exceed more than \$340,000.



These achievements would not be possible without corporate and individual donors who support the foundation through the purchase of awards dinner reserved tables, auction items, event

sponsorships, golf registrations and mulligans. Your ongoing support is appreciated!

A special word of thanks and appreciation goes to members of the 2022 AIF Golf Task Force who worked diligently to plan and conduct a great event benefiting the foundation's education and research programming.



2022 ASPHALT INSTITUTE FOUNDATION GOLF TASK FORCE

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FINANCE COMMITTEE HIGHLIGHTS

The Finance Committee was active throughout the year given dismal market performance due to many factors including the Russia-Ukraine war, hyperinflation, a continuing pandemic, and a tight labor market. The committee changed to meeting each quarter verses three times per year. This change enables more timely review of the foundation's financial performance in concert with our financial advisors at Gallagher and Central Bank.

The Asphalt Institute Foundation Finance Committee is reporting total assets of \$3.1 million on December 31, 2022 compared to \$3.3 million in the prior year.

The two endowment funds, including the Kirk Scholarship, have grown to \$1.5 million with a 19% loss for the year. The Ergon fund was established in early 2022 and ends the year with a balance of \$376k.

The restricted fund, established in honor of Fred M. Fehsenfeld, Sr., has an additional commitment totaling to a \$1 million gift level as announced both at the 2022 STAR Symposium and again at the Asphalt Institute Annual Awards Dinner in Key Biscayne, FL. The current value of that fund is \$657k as of December 31, 2022.

Total contributions for 2022 amount to \$1.22 million, which include \$406k for in-kind contributions from the Asphalt Institute for administration, fundraising and programs. This annual total also includes \$223k from the STAR Symposium in May 2022 in Atlanta, GA. The net proceeds from this event were \$21k.

Cash donations in 2022 amounted to \$582k reflecting the first donation of \$250k slated for sustainability initiatives. The annual golf scramble brought in net proceeds of \$58k from sponsors and participants.

A Look Ahead

The Finance Committee is modifying the ways in which it presents information to the board by improving the visibility of research funds and their availability given board-approved ongoing research contracts. We also look to standardize the naming of research work to help track their progress. Look for these and other tools as we continue to grow the AI Foundation.

An annual audit of the financial records of the Asphalt Institute Foundation is performed by Dean Dorton, Certified Public Accountants. A copy of the audit report is available for review at the Asphalt Institute Foundation's office in Lexington, KY.



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*The Asphalt Institute Foundation
extends sincere appreciation
and thanks to the following
individuals for their service on
the board of directors:*

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