



OF ENVIRONMENTAL ENGINEERS & SCIENTISTS®

### **AAEES PATRONS**

















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Phone: 410-266-3311 https://www.aaees.org

### PRESIDENT'S REPORT



This has been a milestone year for the Academy on many fronts. Foremost among these was the celebration of our 70th anniversary as a professional organization. We have grown from humble beginnings to a leading society in the professions of environmental engineering and environmental science. We excel on two major fronts: board certification of engineering and scientists, and ABET accreditation of environmental engineering, environmental engineering technology, environmental engineering technology, and ecological engineering. We are not resting on our laurels as we continue to introduce new initiatives and reduce emphasis on outdated focal areas.

This year we saw substantial growth in our engagement with students and young professionals, as well as in the publication of advanced technical content on topics within the realm of environmental engineering. For students, the Academy has absorbed the environmental engineering honor society, Tau Chi Alpha (TXA), into its organizational structure, and there are now approximately 20 active chapters of TXA across the United States with many new inductees. In further support of students and young professionals, the Academy committee responsible for engaging with these groups was reinvigorated with new and energetic leadership and committee membership, and there is now much more active outreach to these students and young professionals that will contribute substantially to the growth of the Academy in the coming years.

This year the Academy produced groundbreaking technical content in its 70th anniversary edition of the *Environmental Engineer and Scientist* magazine with a series of articles on air quality by leading professionals in the field; this is to be followed up next year by a series of technical articles on the application of artificial intelligence in environmental engineering.

In support of the environmental engineering profession, the Academy published its decadal edition of the Body of Knowledge for Environmental Engineering which identified the essential knowledge areas and skills required for the practice of environmental engineering in the present and foreseeable future. Pursuant to this publication, the Academy proposed revisions to the ABET program criteria for environmental engineering and similarly named programs. These revisions were approved by ABET on first reading in the summer of 2025 and are now out for public comment; we are anticipating approval on second reading in 2026 and full implementation in 2027.

In support of practicing professionals, the Academy continued its biweekly webinar series on topics of practical interest to environmental engineers which, in my view, is perhaps the single most important benefit of membership in the Academy for practitioners in the broad field of environmental engineering.

Going forward, the Academy continues to be in strong-growth mode with many exciting initiatives



to come in 2026 under the leadership of the next president, Dr. Jeffrey Greenfield. The Academy will continue to promote and build on the initiatives begun this year to enhance our claim of being the professional society of choice for environmental engineers. The future is very bright!



### **TAU CHI ALPHA**

Tau Chi Alpha (TXA) is a national honor society dedicated to advancing the environmental engineering profession by recognizing students who demonstrate exceptional academic achievement and ethical character. Established to honor excellence in environmental engineering and related fields, TXA serves as a mark of distinction for future leaders in environmental stewardship.

### **History and Evolution**

The concept of TXA originated in 1992 at Manhattan College, where faculty envisioned an organization to honor outstanding environmental engineering students. The first inductions occurred in 1995, and by 1998, with support from the American Academy of Environmental Engineers and Scientists (AAEES), TXA became an incorporated national honor society in Maryland. In 2024, the Academy reorganized TXA to reflect the growing importance of environmental science and related disciplines, expanding eligibility beyond engineering to include environmental scientists and similar fields.

### **Structure and Governance**

TXA operates through chapters at academic institutions, overseen by the TXA National

Council, whose members are appointed by the Academy's Board of Trustees. Each chapter is guided by a faculty advisor responsible for coordinating activities and recommending candidates for induction. Faculty advisors must be Academy members, hold professional certifications such as BCEE, BCES, or BCEEM, and be honorary TXA members.

### **Honorary Membership**

Honorary membership is reserved for individuals with significant achievements in environmental engineering, science, or related disciplines. Candidates - faculty, professionals, or community leaders - must demonstrate outstanding scholarship, leadership, and service. Applications are reviewed by the National Council, with appointments communicated to the Academy's Board of Trustees.

### **Student Membership Requirements**

TXA membership is open to juniors, seniors, and graduate students in approved programs. Eligibility criteria include:

 Junior, senior, or graduate student in an academic curriculum or program approved by the National Council



- GPA ≥ 3.5 for undergraduates, or GPA ≥ 3.8 for graduate students
- Be of good moral character
- Be a Student Member of AAEES
- Participates in student organization(s) related to environmental-related professions

### **Induction Process**

Faculty advisors identify qualified students and notify them of their nomination. Candidates must secure three faculty recommendation letters using standard forms. The advisor submits the completed nomination package to the National Council for approval. Upon acceptance, students pay a one-time \$100 membership fee, covering the certificate, lapel pin, and lifetime dues. Inductions occur at the end of fall and spring semesters, with application deadlines on November 1 and March 1. Deadline waivers may be requested by faculty advisors.

### **Benefits of Membership**

TXA membership provides lifetime recognition of academic excellence in environmental engineering or related fields. For AAEES members, TXA honors are included in their official professional profile, enhancing career visibility and credibility.

### **Starting a Chapter**

Institutions wishing to establish or reactivate a TXA chapter must submit a petition form through a qualified faculty advisor. Once approved, the

chapter can begin operations and nominate candidates for induction.

### **TXA National Council**

Lilia Abron, Ph.D., P.E., BCEE, Co-Chair David A. Chin, Ph.D., P.E., BCEE, Co-Chair Jeanette Brown, Ph.D., P.E., BCEE

### **TXA Chapters**

- Bucknell University
- Central State University
- Florida Gulf Coast University
- Florida International University
- George Washington University
- Louisiana State University
- Manhattan University
- Missouri University of Science & Technology
- Morgan State University
- North Carolina Agricultural and Technical State University
- San Diego State University
- Stevens Institute of Technology
- Syracuse University
- University of Houston
- University of Miami
- University of Minnesota, Twin Cities
- University of Notre Dame
- Washington University in St. Louis
- Wilkes University

Go to https://www.aaees.org/txa for more information.



### **AAEES EVENTS**

#### **AAEES Webinars**

Our sponsorship model allows us to continue offering webinars free to Academy members, providing substantial added value to membership. Sponsors receive visibility through their logo and company description at the beginning of each event and are mentioned in all associated social media posts and marketing emails. If you are interested in sponsoring a webinar, visit: AAEES Webinar Sponsorship.

All webinars are available on YouTube approximately one month after recording. Make sure to subscribe to our YouTube Channel in order to stay up to date on the latest recordings at https://www.youtube.com/@AAEESdotORG

#### **PDHs**

All Board Certified Members automatically earn PDHs from attending a live webinar but did you know you can also earn them by watching a recorded webinar when convenient for you? Simply view the webinar and complete a brief quiz to receive your professional development hours—available to both members and non-members." (Not available for every webinar)

### **Introducing AAEES Microcredentials!**

The Academy is proud to launch new microcredentials designed to help professionals to document their expertise with the power of a microcredential offered by the Academy - an organization that has been responsible for documenting leadership and excellence for more than 70 years. These focused, stackable credentials offer practical,





skills-based learning that complements traditional certifications and allows you to demonstrate mastery in specialized areas.

Our first offerings include cutting-edge topics like PFAS management, addressing critical environmental and public health challenges, and Artificial Intelligence applications in environmental engineering, helping you stay ahead in a rapidly evolving field. Microcredentials are ideal for members who want to expand their knowledge, enhance their career prospects, and show measurable expertise to employers and peers.

Explore the new microcredentials and start building your professional credentials today! https://www.aaees.org/aaees-microcredentials.

### **Call for Speakers**

We are always seeking to leverage our network of environmental engineering and science experts to grow our team of outstanding webinar speakers. Curating a well-rounded webinar series that appeals to a variety of interests is no small task, and we would love your help!

Sharon Yin, serving in her capacity as Trustee and representative of Patron Orange County Sanitation District, also holds the position of Chair of the Programs and Webinars Committee. Ms. Yin welcomes additional committee members, particularly individuals who can contribute potential webinar topics or who have an interest in advancing local, in-person programming designed to strengthen connections among Board Certified professionals, young professionals, and students. If you would like to nominate a speaker who is an expert in the environmental engineering and science field, please email Marisa Waterman with your recommendations.

### **List of 2025 AAEES Webinars**

#### Wednesday, January 15, 2025

When Persistence Doesn't Pay Off: Integrative Approaches to Understand and Predict the Hazards of Poorly Studied Per- and Polyfluoroalkyl Substances (PFAS)

Carla A. Ng, PhD

Associate Professor, Civil & Environmental Engineering; Fulton C. Noss Faculty Fellow University of Pittsburgh

#### Wednesday, January 22, 2025

### Multifunctional Membranes Towards PFAS Remediation

Professor D. Bhattacharyya

University Alumni Chair Professor, Director of the Center of Membrane Sciences, Dept. of Chemical and Materials Engineering

University of Kentucky

### Wednesday, January 29, 2025

### Understanding and Solving PFAS Pollution in Our Water and Wastewater Through a Holistic Approach

Nirupam Aich, PhD

University of Nebraska–Lincoln

Shannon Bartelt-Hunt, Ph.D., P.E., BCEE University of Nebraska-Lincoln

Olga V. Tsyusko-Unrine, Ph.D. *University of Kentucky* 

#### Wednesday, March 05, 2025

### Implementing Updated Controls at National Parks

Aaron Szalaj, PE, CSE, PMP, NCEES

Control Systems Group Manager, Stanley

Consultants

#### Thursday, March 20, 2025

### Landfill black goo: What is this stuff and what can we do about it?

Craig H. Benson, PhD, PE, BCEE, NAE
Wisconsin Distinguished Professor Emeritus,
University of Wisconsin-Madison
Hamilton Endowed Professor and Dean of
Engineering Emeritus, University of Virginia

### Wednesday, April 02, 2025

### Water Management in Petroleum Industries

Somnath Basu, Ph.D., PE, MBA, BCEE Jewel Innovations in Energy and Environment

Andrew R. Shaw, Ph.D., PE, BCEE, ENV SP Black & Veatch

#### Wednesday, April 30, 2025

### Enlightening Policy Makers as to Environmental Health

Doug Farquhar, JD

Director of Government Affairs, National
Environmental Health Association (NEHA)

#### Wednesday, May 7, 2025

#### South Pole Station Master Plan

Randy Duzan

Principal Planner, AICP, PLA, Stanley Consultants

#### Wednesday, May 14, 2025

### Drones and Their Role in Revolutionizing Landfill Operations Management

Alex Steuerwald, P.E. Facility Manager, DSWA

#### Wednesday, June 4, 2025

### Generational Perspectives on Generative Artificial Intelligence

Daniel B. Oerther, PhD, PE, BCEE, BCES

American Academy of Environmental

Engineers and Scientists

Daniel B. Oerther, Jr. (Barney) Freshman, Rolla High School

Wednesday, June 18, 2025

WaterGPT: Tailored AI for Water Engineering, Learning & Net-Zero Strategies

Z. Jason Ren, Ph.D. Professor, Princeton University

#### Wednesday, June 25, 2025

San Antonio Water System (SAWS) Non-Revenue Water Program Upgrade

Richard Donat

Director of Non-Revenue Water, SAWS

Jeff Haby, P.E.

Director of Non-Revenue Water, SAWS

Hunter Nolen, P.E., BCEE

President & CEO.

Hunter Nolen Consulting, LLC

### Wednesday, July 2, 2025

Application of AI/ML for Engineering Solutions in the Water Sector

Aryan Emaminejad, Ph.D.

Data Scientist/AI-ML Engineer,
Black & Veatch

#### Wednesday, July 16, 2025

Untangling the Role of AI in Water: From Promise to Practice

Dr. Branko Kerkez

Arthur F. Thurnau Professor, Director, Digital Water Lab @ U-M, University of Michigan

#### Wednesday, August 20, 2025

Driving Innovation and Sustainability Through Asset Management

Robert C. Thompson, P.E. General Manager, OCSAN

#### Wednesday, October 8, 2025

Leadership Development: Essential Skills for Effective Leaders

Arvind Akela, P.E., BCEE, LEED AP DB+C, CEM®

Director of Engineering, Silicon Valley Clean Water

### 20 Organizations with the Highest Event Engagement in 2025 (Alphabetical order)

A2H Engineers

Arcadis

Black & Veatch

Brown and Caldwell

Carnegie Mellon University (CMU)

CDM Smith

Delaware Solid Waste Authority (DSWA)

Geosyntec

HF Sinclair

Kleinfelder

Los Angeles County Sanitation Districts (LACSD)

Merck

Metropolitan Water District of Southern California (MWD / mwdh2o)

Mississippi Department of Environmental Quality (MDEQ)

Morgan State University

RC Wee Solutions

Stantec

Veolia

Waggoner Engineering

WSP

The chart data is from January 2025 through December 3, 2025

#### Wednesday, October 29, 2025

From Flood Zone to Future-Proof: California's First MBR-IPR Mainline Facility

Kaitlin Zusy, P.E., Assoc. DBIA Project Manager, Black & Veatch

Erick Bevington, P.E., DBIA

Director of Design-Build Engineering, Black & Veatch

Wednesday, November 19, 2025

Adapting to the Challenge of PFAS Remediation at Impacted Sites

Charles J. Newell, Ph.D., P.E., BCEE Vice President/Principal Engineer, GSI Environmental Inc.

Randall K. Sillan, Ph.D., P.E., BCEE

Associate Vice President & Principal

Engineer, Environment, AECOM

Jeff McDonough, M.S., P.E., BCEE

Discipline Leader - PFAS Remediation

CDM Smith

Wednesday, December 3, 2025

Engineering Licensure Trends, Legislative Challenges, and New Opportunities

Davy McDowell, P.E.

Chief Executive Officer

NCEES

Wednesday, December 10, 2025

Why Is It So Hard To Protect the Environment? A Long-View Approach in a Short-Sighted Era

Margaret Louise Thompson, Esq.

Senior Lecturer, Department of
Environmental Engineering & Earth
Sciences, Clemson University (retired)

Wednesday, December 17, 2025

A New Frontier in Potable Reuse for Los Angeles: The LAGWR Project

Andrew Han, MS, PE

LAGWR Project Manager: Los Angeles

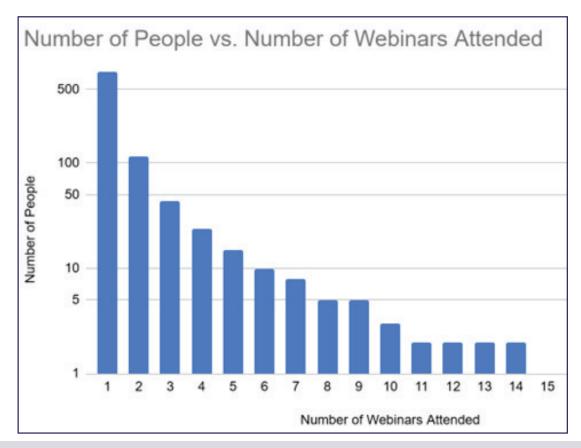
Department of Water and Power

Michael Bustillo-Sakhai, MS, PE LAGWR Project Engineer: Los Angeles Department of Water and Power

Sebastien Rossouw, MS, EIT

LAGWR Project Engineer: Los Angeles

Department of Water and Power



Curious how event registration/attendance engagement score is calculated in our MemberClicks database? For details, go to: https://help.memberclicks.com/hc/en-us/articles/15442874718733-Member-Engagement-Report



### The 2025 AAEES Autumn Summit

On October 9, 2025, the American Academy of Environmental Engineers and Scientists (AAEES) hosted the third annual Autumn Summit. The theme for 2025 was Think Forward which underscored leadership across education, practice, research, policy, and regulation in environmental engineering and science.

AAEES designed this half-day event to energize careers and grow networks among thought leaders, seasoned professionals, emerging experts, and students.

Keynote speeches included:

 Kate Harris (Stanley Consultants CEO) explored "Transforming Tomorrow with People First and Innovation Strategies".

- David Dyjack, DrPH, CIH (NEHA CEO) spoke on "Resilient Professionals Lean On and Benefit From Strong Professional Societies and Shared Professional Identity".
- Karl Rockne, PhD, PE, BCEE (UIC) concluded with "Gazing into the Crystal Ball: The Future of Research and Development in Environmental Engineering and Science"

Other panel discussions included topics including early career journeys and work-life balance and mentorship.

If you missed this, or any of our previous Autumn Summits, visit the Autumn Summit library at https://www.aaees.org/aaees-autumn-summit-library.

### **2025 KAPPE LECTURE SERIES**



Vinio Floris, PhD, PE, BCEE, CSP, is the 2025 AAEES Kappe Lecturer.

Dr. Floris is the Director of Health, Safety, Environment and Quality at AXIOS Industrial

Group in Houston, Texas.

Dr. Floris is a professor of sustainability at the SKEMA Graduate School in Lille, France, and at the GĚRENS Post Graduate School in Lima, Peru, and Colorado (in partnership with Colorado State University and the Colorado School of Mines). He is a proud long-term and active member of the American Academy of Environmental Engineers and Scientists, having been the Academy's treasurer from 2020 to 2023.

Dr. Floris is a renowned international speaker, researcher, visionary, and prolific writer on the topics of water resources management, environment, sustainability, climate change, responsible mining and energy, and occupational safety, and has published extensively on those topics.

Dr. Floris is offering two different lectures:

- The Future of Sustainable Water Management – Innovation, Practices, and Opportunities for Environmental Science and Engineering
- Sustainability in the Supply Chain The Role of Environmental Science and Engineering

Go to https://www.aaees.org/kappelecturer to learn more about the Kappe Lecture Series.

### **MARK YOUR CALENDAR**



Join leaders and innovators in environmental engineering and science at the AAEES 2026 Academy Convocation and Celebration of Excellence - a premier professional event where the winners of the Excellence in Environmental Engineering and Science (E3S) Competition are honored alongside outstanding peers from across the field. Taking place April 16, 2026, in Washington, DC, the daytime program features presentations from E3S winners, recognition of top achievements in

environmental practice, and opportunities to earn professional development hours, followed by an evening celebration highlighting awards, scholarship recognition, and networking with fellow professionals. Don't miss this chance to connect, celebrate breakthrough projects, and advance your impact register now to attend and be part of shaping the future of sustainable engineering!

https://www.aaees.org/aaeesawardsceremony

### **Other Upcoming Dates**

JANUARY 9	Quarterly Board of Trustees Meeting	
FEBRUARY 18	Nationwide Career Networking Fair	
APRIL 16	Academy Convocation and Celebration of Excellence	
APRIL 17	Quarterly Board of Trustees Meeting	
JULY 10	Quarterly Board of Trustees Meeting	
JULY 30	Nationwide Intern Networking Fair	
SEPTEMBER 16	Nationwide Career Networking Fair	
OCTOBER 8	AAEES Autumn Summit	
OCTOBER 9	Quarterly Board of Trustees Meeting	
OCTOBER 9	Installation Ceremony for Incoming Officers	

# 2025 ACADEMY CONVOCATION AND CELEBRATION OF EXCELLENCE

The American Academy of Environmental Engineers and Scientists (AAEES) hosted its 2025 Convocation and Celebration of Excellence on April 10 in Washington, DC, and Arlington, VA. This year's event marked a historic milestone - 70 years of advancing environmental engineering and science - with a full day of awards, student showcases, and thought-provoking discussions.

# **Lunch at George Washington University**

The day began at the historic George Washington University's School of Engineering and Applied Science. AAEES Trustee-at-Large Isreal Hodges, Jr. served as the Master of Ceremonies.

Dr. Danmeng Shuai, Professor in GWU's Department of Civil and Environmental Engineering and a 2023 AAEES 40 Under 40 Award Re-

cipient, welcomed AAEES and all attendees to the prestigious campus.

The keynote address was delivered by Iain G. Shuker, Regional Director for Sustainable Development at the World Bank. Shuker emphasized the importance of climate resilience, food security, and sustainable infrastructure across Africa, where he oversees a \$24.9 billion portfolio.

Academy leadership, represented by Executive Director Dr. Daniel B. Oerther and President Dr. David A. Chin, also addressed the attendees.

Winners of the Environmental Communications Competition Awards and the Excellence in Environmental Engineering and Science Competition Awards were announced during the lunch. The attending award recipients were able to gave brief presentations and participated in Q&A session about their projects.



















### **Student Recognition**

A poster session and PechaKucha by the George Washington University students were featured during the daytime ceremony.

AAEES extends a special thank you to Dr. Yun Shen, Assistant Professor at GWU and a 2025 40 Under 40 Award Recipient, who was instrumental in helping host the ceremony at the university.

# **Dinner at the Renaissance Arlington Capital View Hotel**

Recognition of the 2024/2025 Environmental Engineering and Science Foundation Scholarship recipients, including Tione Grant, who was in attendance.

The 40 Under 40 Recognition Program celebrated young professionals making waves in the

field, many of whom were in attendance. Recognition was also given to the newest class of Board Certified Environmental Engineers, Board Certified Environmental Engineering Members, and Board Certified Environmental Scientists.

The following awardees were unable to attend in person but shared video messages of appreciation:

### **Looking Ahead**

AAEES extends heartfelt thanks to all entrants, honorees, attendees, volunteers, sponsors, and participants who contributed to the success of the 2025 Convocation and Celebration of Excellence.

A special thank you goes to the organizations and corporations represented at the event, as well as our AAEES Patrons.

The individuals recognized are presented on the following pages.



Excellence in Environmental Engineering and Science®

Competition

CALL FOR ENTRIES

https://www.aaees.org/e3scompetition

### **2025 INDIVIDUAL AWARD RECIPIENTS**

#### EDWARD J. CLEARY AWARD



Kevin D. White, Ph.D.

#### GORDON MASKEW FAIR AWARD



Michael K. Stenstrom, Ph.D., P.E., BCEE

#### STANLEY E. KAPPE AWARD



Lisa Woodward, P.E., BCEE

### THE RALPH AND JOE BALES GRABER SCIENCE AWARD



William A. Arnold, Ph.D., P.E., BCEE

#### HONORARY MEMBER



Tissa H. Illangasekare, Ph.D., PE, P.Hyd, BCEE

### INTERNATIONAL HONORARY MEMBER



Professor Cheng-Di Dong, Ph.D.

### EXCELLENCE IN ENVIRONMENTAL ENGINEERING & SCIENCE EDUCATION AWARD



Ramanitharan Kandiah, Ph.D., P.E., BCEE

### BOULOS EXCELLENCE IN COMPUTATIONAL HYDRAULICS/HYDROLOGY AWARD



Mohamed Fathi Said, Ph.D.

### W. WESLEY ECKENFELDER GRADUATE RESEARCH AWARD



Savanna K. Smith, Ph.D.

### THE W. BREWSTER SNOW AWARD



**Bruno Mancini** 

### **2025 40 UNDER 40 RECOGNITION PROGRAM**



Ahmed Abdelmoneim



Ariel Atkinson



Adaline Buerck



Joe Charbonnet



Jiannan Nick Chen



Alex Ho Shing Chik



Rebecca Ciez



Sherri Cook



Timothy D'Agostino



Jeseth Vela Delgado



Sarah Fakhreddine



Bezawit Getachew



Alexander Gorzalski



Emmanuel Obeng Gyasi



Sarah-Jane Haig



Andrea Hicks



Nathanael Jin Ling



Ashley Kent



Hanyang Li



Lu Liu



Xitong Liu



Paniteja Madala



Cresten Mansfeldt



William Peterson



Kelsey Pieper



Brett Poulin



Mim Rahimi



Yuexiao Shen



Yun Shen



Lauren Stadler



Kyle Thompson



Michael Thompson



Arjun Venkatesan



Michael Wandersee



Yuan Yao



Jessica Yeager



Jiachen Zhang

Searching for a new employment opportunity?

Seeking to recruit candidates for a job opening?

Look no further than the AAEES Job Board.

JOB SEEKERS can apply for jobs FREE.

EMPLOYERS can post jobs for as little as \$200.



Visit the AAEES Job Board at https://aaees.mcjobboard.net



# 2025 EXCELLENCE IN ENVIRONMENTAL ENGINEERING AND SCIENCE COMPETITION WINNERS

#### SUPERIOR ACHIEVEMENT

Morro Bay Water Resources Center

Entrant: Black & Veatch

Engineer in Charge: Chad Brown Location: Morro Bay, California

#### **DESIGN**

#### Honor

Bee Ridge Water Reclamation Facility Expansion and Conservation to Advanced Wastewater Treatment

Entrant: Carollo Engineers, Inc.

Engineer in Charge: Joseph Barksdale, P.E.

Location: Sarasota, Florida

#### **ENVIRONMENTAL SUSTAINABILITY**

#### **Grand Prize**

### Los Angeles Groundwater Replenishment Project

Entrant: Los Angeles Department of Water and Power and LA Sanitation & Environment

Engineer in Charge: Gabriel Vargas Location: Los Angeles, California

#### Honor

#### Native Salmonid Conservation Facility

Entrant: HDR

Engineer in Charge: Mark Hassebrock

Location: Usk, Washington

#### UNIVERSITY RESEARCH

#### Honor

### Electrochemical Frontiers in Marine Carbon Dioxide Removal

Entrant: University of Houston

Engineer in Charge: Mim Rahimi, Ph.D.

Location: Houston, Texas

# 2025 ENVIRONMENTAL COMMUNICATIONS AWARDS COMPETITION WINNERS

### **Grand Prize**

#### **PFAS Kitchen**

Entrant: Digital Writing Environments, Location, and Localization (DWELL) Lab/ University of Rhode Island

Person in Charge: Dr. Madison Percy Jones, Assistant Professor of Professional and Public Writing and Natural Resources Science

#### Honor

### New Jersey American Water's Lead Service Line Replacement Communications Campaign

Entrant: New Jersey American Water and CDM Smith

Person in Charge: Veronica Horvath, Environmental Scientist, CDM Smith

Co-Author: Chelsea Kulp, Acting Director of Communications and External Affairs, New

Jersey American Water

# **ENVIRONMENTAL ENGINEERING AND SCIENCE FOUNDATION**

# Record Participation for the 2025/2026 Environmental Engineering and Science Foundation Scholarships

The application cycle for the 2025–2026 Environmental Engineering and Science Foundation (EESF) Scholarships received a record-breaking 56 completed applications.

Each year, the EESF Scholarships attract a growing number of high-quality applicants for this academic-based scholarship, underscoring the program's increasing impact and prestige within the environmental engineering and science community.

Emerging from a highly-competitive process that considered academic achievement, resume, essay, and letters of recommendation, the following individuals are the recipients of \$2,500 scholarships to continue their path of becoming tomorrow's environmental engineers and scientists.

It is our privilege to introduce these outstanding recipients.

Read more about them and recipients of previous years at: https://www.eesfoundation.org/scholarship/.

# **Support Programs through the Environmental Engineering and Science Foundation**

The Environmental Engineering and Science Foundation's primary purpose is to recognize and promote excellence in Environmental Engineer-

ing and Science. As a result, the public will become more aware of the important role Environmental Engineers and Scientists play in managing global, national and regional environmental challenges. To accomplish its goals, the Foundation dedicates its resources to education, research and awards focused on outstanding Environmental Engineering and Science achievement.

The Environmental Engineering and Science Foundation was established in 1998 to serve as a non-profit partner of the American Academy of Environmental Engineers and Scientists (AAEES) and shares many common purposes with that organization.

The Environmental Engineering and Science Foundation is a 501(c)(3) non-profit organization. As such, all contributions donated through this site are eligible to receive a tax-deduction. The Environmental Engineering and Science Foundation supports several educational, awards, and outreach programs and supports a variety of activities and initiatives of the American Academy of Environmental Engineers and Scientists.

Your contributions made it possible for the Foundation to support these exceptional young professionals. For that we are thankful and encouraged by this successful outcome.

These scholarships are just one of many programs supported by donations through the Foundation. Descriptions of the various funds and their charitable objectives can be found at https://www.eesfoundation.org/donate/.



### 2025/2026 EESF Scholarship Recipients

### MASTER'S DEGREE IN ENVIRONMENTAL ENGINEERING



**Erin Boyer** 

### MASTER'S DEGREE IN ENVIRONMENTAL SCIENCE



**Abigail Morgan Fizer** 

### MASTER'S DEGREE IN ENVIRONMENTAL SCIENCE



**Fabian Gomez** 

### MASTER'S DEGREE IN ENVIRONMENTAL ENGINEERING



**Zachary Krause** 

### MASTER'S DEGREE IN ENVIRONMENTAL ENGINEERING



Thando Mawasha

### MASTER'S DEGREE IN ENVIRONMENTAL ENGINEERING



**Kerry Prinsen** 

### MASTER'S DEGREE IN ENVIRONMENTAL ENGINEERING



Mar Balvaneda Rodriguez-Armijo Cecil and Bertha Winingham Lue-Hing Diversity Scholarship

### MASTER'S DEGREE IN ENVIRONMENTAL ENGINEERING



**Chase Royall** 

### MASTER'S DEGREE IN ENVIRONMENTAL SCIENCE



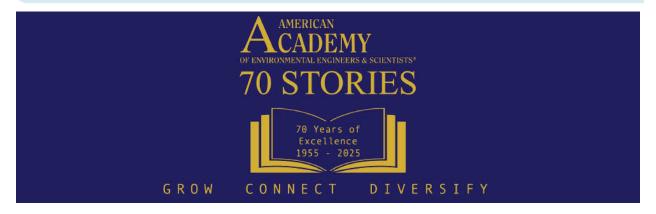
**Catherine Waggoner** 

### MASTER'S DEGREE IN ENVIRONMENTAL ENGINEERING



**Kiersten Wilson** 

### **CELEBRATING 70 YEARS WITH 70 STORIES**



In honor of the Academy's 70th anniversary, we're sharing 70 inspiring stories throughout 2025 and 2026.

The table below includes a list of featured stories contributed by you - from student members to board certified individuals to industry professionals to Academy leadership. To read the full stories or to submit your own, visit https://www.aaees.org/70years70stories.

Story #	Category	Title	
1	Student Chapter	AAEES Student Chapter at University of Miami by Anna Skare, University of Miami Chapter President	
2	Sponsoring Organization	ASCE, AEESP, WEF, and AAEES: An Interconnected Professional Journey by David A. Dzombak, PhD, PE, BCEE, BCWRE, Dist.M.ASCE, NAE	
3	Leadership	What Can AAEES Do For Your Career? by Wendy Wert, P.E., BCEE, AAEES Past President	
4	Public Service	In Service to the American Dream by Dr. Daniel B. Oerther, P.E., BCEE, BCES, AAEES Executive Director	
5	Leadership	It Takes a Village to Lead the Academy by Dr. Daniel B. Oerther, P.E., BCEE, BCES, AAEES Executive Director	
6	Membership	My Professional Journey as an Environmental Engineer by Brian Peake, P.E.	
7	Leadership	AAEES Site Remediation Committee by Bill Butler, P.E., BCEE – Site Remediation Committee Chair	
8	Leadership	Why Give Back to Your Environmental Engineering and Science Profession Through AAEES? by Jeff Greenfield, PhD, PE, BCEE, BCES	
9	Observances	Celebrating Women in STEM as Individuals by Dr. Daniel B. Oerther, P.E., BCEE, BCES, AAEES Executive Director	

10	Membership	Late Blooming: My Journey Into AAEES by Aaron Bivins, PhD, PE, BCEE	
11	Students	Tau Chi Alpha (TXA) by David A. Chin, Ph.D., P.E., BCEE, F.ASCE	
12	Award Winners	An Interview at the 2025 E3S Awards Event by Kaitie Zusy, P.E	
13	Award Winners	2025 Edward J. Cleary Award Recipient: by Dr. Kevin White	
14	Award Winners	2025 Gordon Maskew Fair Award Recipient: by Dr. Michael Stenstrom	
15	Award Winners	AAEES Student Chapter at Universidad Central del Ecuador Recognized with the Chapter Blue Marble Award by Marisa Waterman	
16	Project Posters	Leveraging Recombinant Proteins and Peptides to Recover Rare Earth Elements (REE) from Waste	
17	Award Winners	2025 Excellence in Environmental Engineering and Science Education Recipient: by Dr. Ramanitharan Kandiah, P.E., BCEE, BC.WRE, PH, ENV SP, F.ASCE, F.EWRI	
18	Social Media	Social Media Impact by Frederick Tack, PE, BCEE, BC.WRE, ENV SP, F.ASCE	
19	Student Posters	Studying Kinetic Characterization of Biological Phosphorous Removal Using Different Carbon Sources by Khashayar Aghilinasrollahabadi, Birthe Veno Kjeller	
20	Award Winners	2025 AAEES Honorary Member by Tissa H. Illangasekare, Ph.D., PE, P.Hyd, BCEE, DWR	
21	Scholarships	EESF Scholarship Winners with remarks by Tione Grant in April 2025	
22	Award Winners	2025 AAEES International Honorary Member by Prof. Cheng-Di Dong	
23	Board Certification	AAEES Board Certification: A Member's Advice by Dr. Aaron Bivins, PhD, PE, BCEE	
24	Interns	A Leap of Courage: Finding an Internship Against the Odds by Kshitij Meshram	
25	Interns	AAEES Intern Event by Aljoharah Almanie (jojo)	
26	Awards	Nominate a Leader in Environmental Engineering and Science: Learn about the first Cleary Recipient by Yolanda Moulden	
27	Honorary Members	Stanley E. Kappe - The Academy's First Honorary Member by Yolanda Moulden	
28	Scientists	Imagine a Scientist by Rasha Maal-Bared	

29	Webinars	Tackling Forever Chemicals: The AAEES PFAS Webinar Series	
		by Dr. Nirupam Aich	
30	Members	We Are The Academy	
		by Isreal Hodges, P.E., BCEE	
31	Leadership	My Journey with AAEES	
		by Sharon Yin, PE, BCEE	
32	Observances	World Environmental Health Day: Celebrating Our Shared Vision by Daniel Oerther, PE, BCEE, BCES, CEHS, DLAAS	
33	Leadership	Interfaces and Accidents	
		by Charles N. Haas, PhD, NAE, BCEE	
34	Members	Building the Airplane in a Pandemic	
		by Kyle Bibby	
35	Student Chapters	Bucknell University Team Showcases "Fishing for Success" at	
		Engineering 100 Expo	
		by Tyler Ruddy	
36	Award Winner	An Environmental Engineer's Journey	
		by Mohamed S. Gaballah Awad	
37	Artificial	Picking the Right Persona – Why Your Next AI Prompt Should	
	Intelligence	Feel Like a Marriage	
		by Daniel B. Oerther, PhD, PE, BCEE, BCES	

### **AAEES SECURES TRADEMARKS**

On September 30, 2025, the American Academy of Environmental Engineers and Scientists (AAEES) reached a significant milestone in its mission to uphold the highest standards in environmental engineering and science. The organization officially received the trademarks for the designations "Board Certified Environmental Engineer" and "Board Certified Environmental Engineering Member", titles that have long represented professional excellence, ethical integrity, and technical mastery in the field.

This achievement marks a new chapter in the Academy's legacy, reinforcing its role as the premier certifying body for environmental engineers and scientists. The trademark not only protects the designation legally, but also strengthens its value and recognition across industries, academia, and government agencies. It ensures that professionals who earn this title are distinguished by a rigorous

peer-reviewed certification process that validates their expertise and commitment to environmental stewardship.

The trademarks for "Board Certified Environmental Engineer" and "Board Certified Environmental Engineering Member" are testaments to the Academy's commitment to preserving the integrity of its certification programs. It ensures that these titles remain marks of distinction, reserved for those who meet the highest standards of professional practice. This legal recognition also empowers AAEES to continue advocating for certified professionals and educating stakeholders about the importance of credentialed expertise in solving environmental problems.

With these trademarks secured, AAEES stands stronger than ever - ready to lead, inspire, and innovate for a cleaner, safer, and more sustainable world.

### IT'S TIME TO RENEW YOUR BOARD CERTIFICATION



It's that time of year for Board Certified Environmental Engineers, Board Certified Environmental Engineering

Members, and Board Certified Environmental Scientists to renew specialty certifications. Emails with an attached invoice were sent on November 1, 2025.

If you can't find your email, don't worry - you can renew online at https://www.aaees.org/specialtycertificationupdate:



Or use the following QR code.

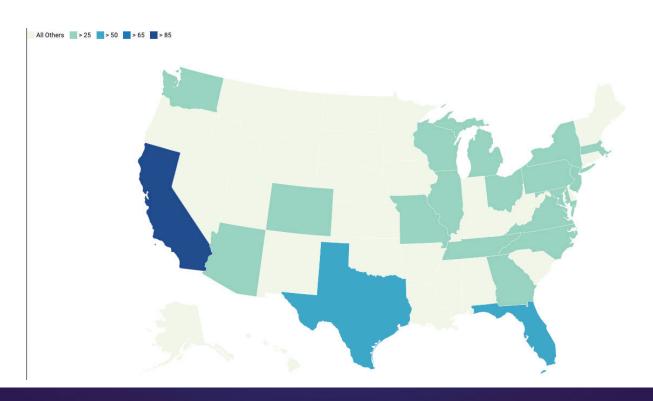
### WHERE ARE OUR ACADEMY MEMBERS LOCATED?

Ever wondered where our Academy members are across the globe? We've created a detailed heat map to illustrate where our membership is most concentrated throughout the United States and beyond. The map represents our entire Academy membership, including Board Certified Individuals, AAEES Members, and Student Members. As of the latest count, we have:

- 3,190 members within the United States
- 654 members outside the U.S., spanning multiple countries

This visualization provides a clear picture of our growing community and highlights regions with the strongest representation. It's a great way to see how our network is expanding and where opportunities for collaboration may be strongest.

The image below only gives a snapshot. To explore the interactive map and dive deeper into the data, visit the link below at: https://datawrapper.dwcdn.net/xpsEf/5/.



### **AAEES PATRONS PROGRAM**

AAEES has been in existence for almost 70 years, credentialing professionals in environmental engineering and science, educating the public about the value of environmental systems, working with ABET (the Accreditation Board for Engineering and Technology) as the Lead Society in the accreditation of more than 100 college and university Environmental Engineering programs, and providing recognition for noteworthy projects and programs in the annual Excellence in Environmental Engineering and Science competition.

To sustain the Academy's programs and enhance their effectiveness, the Patron Program exists for fiscal support. It is the Academy's firm belief that the synergistic impact of individual membership activities, coupled to support from the organizations in which they work, creates a powerful success model that will enable the Academy to better implement its organizational goals and mission.

Launched in 2015, the Patrons Program is far-reaching. Its intent is to have our Patrons cobrand with the Academy for everything that we do in outreach to members, other environmental organizations and practitioners, and the general public.

The following list captures a summary of the AAEES Patrons Program benefits:

### Advertising/Visibility

 Featured recognition/advertisement of Patrons on the AAEES website. AAEES works closely with the Patrons to post its content as an important mechanism to

- publicize accomplishments and serve as a recruiting tool for new talent.
- Prominent advertisement (verbal recognition/signage/logo) at all AAEES sponsored events including virtual.
- Recognition included in all webinar marketing material.

#### **Education**

 Host an AAEES webinar to share your firm's knowledge and include your promotional video

#### **Financial Benefits**

- Issuance of two complimentary registrations to attend the Annual AAEES Awards Luncheon and Conference
- Four complimentary technical entries (value equivalent to \$2,000) for the Excellence in Environmental Engineering and Science competition (E3S)
- Waiver of the AAEES certification application and examination fees for all employees who qualify ((value equivalent to > \$250 per employee)
- Unlimited posting of jobs on the AAEES Job Board at (value of \$200/job posting).

The Patrons Program is much more effective in providing consistent recognition for our Patrons. Wherever the Academy goes and wherever Academy materials appear, those of its Patrons also appear.

### Thank you, Patrons!

















In establishing the Patrons Program the Academy acknowledges and appreciates the past economic support of corporate, agency, and academic entities. Their support for individual events and programs has been beneficial to the Academy. We believe that the Patrons Program outlined here will be more effective in achieving the goals of the Academy in developing its programs, and more effective in providing the recognition that our Patrons seek for their sponsorship of the Academy.

Administratively, the Patrons Program enables Patrons to support the full slate of Academy activities through one annual contribution. We are setting annual Patron contribution commitments of:

- \$8,000 for Corporate/Consulting category
- \$6,000 for Public Agency/Government category

We invite you to consider having your organization become an Academy Patron. Your decision to participate will trigger our sending you a simple 'Patrons Program Participation Agreement' that lists the program features and benefits. This will be followed by contact from the Academy staff to determine your preferred invoicing and form of payment information. We will also need to have Patrons staff contact information to ensure that we have requisite materials -- accurate logos, entity identification, website links, and other items -- to enable us to create the content we will use to maximize your exposure and recognition as an Academy Patron.

Go to https://www.aaees.org/patronsprogram for more information.

### **INCREASE YOUR ENGAGEMENT WITH AAEES**

Part of our five-year outcome statement is to tell the stories of environmental leaders to grow, connect, and diversify the environmental profession and to engage with the Academy. The keys to achieving this goal is through committee engagement and serving on the AAEES Board.

The infrastructure of AAEES relies heavily on volunteers and elected officers. With the support of Academy staff, our officers and members serving on committees work diligently to assure that we are meeting the needs of our members.

Serving on a committee is a great way to become involved in AAEES, interact with a diverse group individuals in the profession, and is also a pathway to AAEES leadership positions. All Board Certified Individuals, AAEES Members, and Students Members are encouraged to become involved.

A list of committees and committee descriptions can be found at: https://www.aaees.org/committees.



### **PROCLAMATION**



### OFFICE OF THE GOVERNOR

### **PROCLAMATION**

Be it hereby known to all that Matthew Meyer, Governor of the State of Delaware, extends sincere congratulations to the

### American Academy of Environmental Engineers and Scientists

on the occasion of its

### 70th Anniversary

On behalf of the State of Delaware, Governor Meyer honors the 70th anniversary of the incorporation of the American Academy of Environmental Engineers and Scientists, a distinguished organization whose legacy of leadership, innovation, and service has profoundly shaped the field of environmental engineering and science. Since its founding, the American Academy of Environmental Engineers and Scientists has stood at the forefront of advancing environmental stewardship, promoting sustainable practices, and upholding the highest standards of professional excellence. For seven decades, its members have worked tirelessly to protect public health, preserve natural resources, and confront the most pressing environmental challenges of our time. As the Academy celebrates this milestone, Delaware honors its enduring contributions to the environment, the profession, and the well-being of communities across the nation and around the world.

Presented on this 21st Day of October, 2025 by order of the Governor.

Matthew Meyer

No. M25-0567

# WORDS OF WISDOM AND WELCOME



I am honored to have been nominated and then elected by the membership to serve as a Trusteeat-Large, which is one of the highlights of my 37 years of experience. I have been engaged in the Academy since the early 1990s and have supported numerous oral examinations since then and am currently serving as the Site Remediation Committee Chair and as an active member of two other committees. The key to success of an organization is its members regardless of experience level, as I have witnessed firsthand on the Site Remediation Committee thanks to a great group of people from diverse backgrounds who all contribute to the committee's efforts including the Committee's first webinar held in November. We all serve an important role as experts in our respective technical areas but also as leaders to contribute to, represent, and promote the Academy and its long history of excellence. Engaging in Academy activities and initiatives is how we all can contribute to and drive the success of the Academy in achieving its vision of being recognized for technical excellence and leadership. We need help from everyone to achieve this success and be the organization that all environmental engineers and scientists want to be a part of to achieve their own professional success. So, I am throwing out the challenge to all members to get more engaged in 2026 and let's achieve success together!

William A. Butler, P.E., BCEE AAEES Trustee-at-Large Consulting Partner ERM

### **STUDENT CHAPTERS**

**Bucknell University** California Polytechnic State University California State University Channel Islands California State University - Fullerton California State University, East Bay California State University, Fresno California State University, Long Beach Central State University Columbia University Cornell University Drexel University Florida International University The Hashemite University Illinois Institute of Technology Johns Hopkins University Juniata College Kennesaw State University King Abdullah University of Science & Technology Lamar University Lehigh University Louisiana State University Montana Technological University New Jersey Institute of Technology Northwestern University Ohio State University Stevens Institute of Technology Suffolk University Temple University Texas A&M University-Kingsville Texas Southern University Texas State University Universidad Central del Ecuador Universidad de Las Americas (UDLA) Universidad San Francisco de Quito Universidad Tecnica de Ambato University of California - Berkley University of California - Davis University of California - Irvine University of Colorado-Boulder University of Connecticut University of Delaware University of Miami University of San Francisco University of South Carolina University of South Florida University of Southern California University of Texas at Austin University of the Incarnate Word University of Wisconsin-Madison Valparaiso University Vanderbilt University

Worcester Polytechnic Institute

### **YEAR TO DATE FINANCIAL STATEMENTS**

### American Academy of Env. Engineers & Scientists

#### Profit and Loss

January - November, 2025

TET OTHER MOORE	\$90,497.70
NET OTHER INCOME	\$4,430.48
43000 Tau Chi Alpha  Total Other Income	\$4,430.48
Other Income	4,430.48
NET OPERATING INCOME	\$86,067.22
Total Expenses	\$316,268.54
60600 Insurance	3,037.00
60500 Audit/Legal	25,587.23
60400 Other Office Expense	28,020.69
60300 Management and General	19,401.66
60200 Payroll Expenses	238,785.83
60100 Officer and Trustee Expenses	1,436.13
Expenses	
GROSS PROFIT	\$402,335.76
Total Cost of Goods Sold	\$57,198.97
51100 Meeting/Webinar Expense	1,632.90
50900 Organization Memberships	33,981.50
50800 Kappe Lecture	2,801.50
50700 Public Education	-527.04
50600 E3 Expenses	16,782.98
50200 Environmental Engineer	763.09
50100 Cert/Membership Expenses	1.764.0
Cost of Goods Sold	Ţ.60,60 III.
Total Income	\$459,534.73
45000 Investment Earnings	16,938.0
41100 Product Sales	1,630.00
40900 Other Income	11,295.59
40850 Patrons Program	77,000.00
40700 Kappe Lectures 40800 Foundation Administrative Fees	3,675.00 3,500.00
40600 Excellence in Enviro Engineerin	5,750.8
40500 Meetings	3,160.0
40300 Member Publication	1,141.0
40200 Environmental Engineering	3,630.0
40100 Membership & Certification Fees	331,814.2
Income	

