

PRELIMINARY PROGRAM



# GeoenvironMeet 2024

Portland, Oregon, September 8–11, 2024

*Sustainability and Resilience of the Geoenvironment in Facing a Changing Climate*



Hilton Portland Downtown

[www.geoenvironmeet.org](http://www.geoenvironmeet.org)

# Registration Opening Soon!

## Schedule at a Glance *(Subject to change)*

<b>Sunday, September 8, 2024</b>	
9:00 AM – 5:00 PM	Dialogue Panels: Emerging Challenges & Funding opportunities
5:00 PM – 6:00 PM	Geoenvironmental Engineering Committee
6:30 PM – 8:00 PM	Exhibit Hall Open/Welcome Reception
<b>Monday, September 9, 2024</b>	
7:45 AM – 9:00 AM	Registration
9:00 AM – 10:30 AM*	Welcome/Keynote Lectures (2 Speakers)
10:30 AM – 11:00 AM	Break in Exhibit Hall
11:00 AM – 12:30 PM*	Session Honoring Legends: Craig Benson
12:30 PM – 2:00 PM	Lunch in Exhibit Hall
2:00 PM – 3:30 PM	Parallel Technical Sessions
3:30 PM – 4:00 PM	Break in Exhibit Hall
4:00 PM – 5:30 PM	State-of-the-Art & State-of-the-Practice Lectures (2 Speakers)
6:00 PM – 9:00 PM	Social Event TBD
<b>Tuesday, September 10, 2024</b>	
7:45 AM – 9:00 AM	Registration
9:00 AM – 10:30 AM*	State-of-the-Art & State-of-the-Practice Lectures (2 Speakers)
10:30 AM – 11:00 AM	Break in Exhibit Hall
11:00 AM – 12:30 PM	Poster Session in Exhibit Hall
12:30 PM – 2:00 PM	Lunch in Exhibit Hall
2:00 PM – 3:30 PM	Session Honoring Legend: Rudy Bonaparte
3:30 PM – 4:00 PM	Break in Exhibit Hall
4:00 PM – 5:30 PM	Parallel Technical Sessions
6:00 PM – 9:00 PM	Social Event TBD
<b>Wednesday, September 11, 2024</b>	
7:45 AM – 9:00 AM	Registration
9:00 AM – 10:30 AM*	Rising Stars Lectures (3 Speakers)
10:30 AM – 11:00 AM	Break in Exhibit Hall
11:00 AM – 12:30 PM	Parallel Technical Sessions
12:30 PM – 2:00 PM	Lunch in Exhibit Hall/Posters
2:00 PM – 3:00 PM	Panel: What is Next for Geoenvironmental Engineering?
3:15 PM – 4:30 PM	Parallel Technical Sessions
4:30 PM – 5:00 PM	Break
5:00 PM – 7:00 PM	Awards & Closing Ceremony and Social Event TBD

## Invitation to Attend

Dear esteemed colleagues and friends,

On behalf of the Geo-Institute of the American Society of Civil Engineers and the Geoenvironmental Engineering Technical Committee, I am delighted to invite you to attend the GeoenvironMeet 2024 conference, to be held on September 8–11, 2024, in Portland, Oregon. We're especially thrilled to celebrate with you two important milestones for this conference series: a new name – GeoenvironMeet – and the near fortieth anniversary of the very first geoenvironmental-themed specialty conference.

The theme of the GeoenvironMeet 2024 conference is "Sustainability and Resilience of the Geoenvironment in Facing a Changing Climate." This timely theme was chosen because the climate's rapid changes beyond historically known margins, the increase in world population and its energy needs, and the inevitable scarcity of resources have led to unprecedented challenges to the geoenvironment.

These challenges call for effective solutions that ensure the resilience of the geoenvironment. As geoenvironmental engineers, we need to take a comprehensive and collective approach to finding these solutions. We also need to collaborate with other fields and professions in new ways; these challenges are unlike any we have known before, and long gone are the days when a single discipline could, by itself, solve the problems confronting its field. We need to take a convergent approach to these grand challenges, taking into account both engineering and scientific aspects and socioeconomical and sociopolitical considerations: to go beyond multi-disciplinarity to become transdisciplinary.

Considering the timing of the conference, we have selected Portland, Oregon, which, in addition to offering mild September weather and breathtaking beauty, has faced wildfire and wildfire-induced smoke challenges in the recent past. Portland and its neighboring city, Vancouver, Washington, are divided by the Columbia

River and therefore face the sociopolitical challenges of cooperation between two diverse states. While the Willamette River provides a beautiful waterfront through downtown Portland, the Superfund site on the riverbanks is a reminder of the long-lasting, pervasive geoenvironmental issues facing the region as well as many parts of the nation and the world.

GeoenvironMeet is not just a technical conference, it is a networking event for our fast-growing geoenvironmental profession. It's a venue to find new friends, forge new and long-lasting networks, and be a part of the transdisciplinary, transformative, and convergent efforts by the brightest minds from around the world to protect our fragile geoenvironment and address the problems caused by changing climate and years of neglect. GeoenvironMeet is the place to gain breadth and depth of knowledge on the latest advances in energy, sustainability, and resilience frameworks and guidelines, and to share insights and innovative ideas among regulators, practitioners, and researchers on cascading climate-change impacts on the geoenvironment.

Let's meet in Portland, network with the best and brightest in our profession from across the globe, brainstorm, and come to a consensus on how to move forward and protect our planet for new generations to come. I would like to extend my deepest appreciation to our sponsors and exhibitors, the Geo-Institute leadership and staff, and last but not least, the members of the organizing committee for volunteering their time to create the best plan possible for this traditional specialty conference launching under its new name. I eagerly look forward to meeting you all in Portland this September. Let's learn together, make new connections and great memories, and start a great tradition with this very first GeoEnvironment.

Sincerely,

**Arvin Farid**

Conference Chair, and Chair of Geoenvironmental Engineering Technical Committee

### Program Committee

*Conference Chair:*

**Arvin Farid, Ph.D., P.E., M.ASCE**

*Conference Co-chair:*

**Nazli Yesiller, Ph.D., A.M.ASCE**

*Technical Chair:*

**Idil Akin, Ph.D., A.M.ASCE**

*Technical Co-Chair:*

**Krishna Reddy, Ph.D., P.Eng, F.ASCE**

*Proceedings Editor:*

**Tugce Baser, Ph.D., P.E., M.ASCE**

*Proceedings Co-Editor:*

**Milind Khire, Ph.D., P.E., M.ASCE**

*Industry Liaisons:*

**Kevin Foye, Ph.D., P.E., M.ASCE**

**Jeff Adams, Ph.D., P.E., M.ASCE**

*Local Chapter Liaison:*

**Diane Moug, Ph.D., P.E., A.M.ASCE**

### Geo-Institute Staff

**Bradley Keelor, Director**

**Lucy King, Senior Manager, Geo-Institute**

**Krystina Scott, Senior Technical Manager and G-I Staff Liaison**

**Tatiana Vlasova, Digital Content and Program Manager**

**Barbara Curtis, Senior Manager, Media and Event Sales**



## About the Conference

GeoenvironMeet is the primary specialty geoenvironmental engineering conference organized by the Geoenvironmental Engineering Technical Committee, held every 8 years to disseminate the latest advancements in geoenvironmental engineering. Previous conferences were Geo-Chicago 2016: Sustainability, Energy, & the Geoenvironment (August 2016); Geo-Congress 2008: Geo-sustainability and Geohazard Mitigation (New Orleans, March 2008); Geoenvironment 2000 Characterization, Containment, Remediation, and Performance in Environmental Geotechnics (New Orleans, February 1995); and Geotechnical Practices for Waste Disposal (Ann Arbor, June 1987). With the 2024 event, the conference series has been permanently named "GeoenvironMeet."

The drastic impacts of the changing climate on the geoenvironment, from drought and wildfires to hurricanes and floods, bring both challenges and opportunities: opportunities for scientific discoveries that can address these great challenges in positive and sustainable ways and even bring additional benefits to society and the economy. Hence, this conference centers around the reciprocal impacts of climate policy, practice, and change on the geoenvironment, with a focus on identifying challenges and solutions.

## Top Reasons to Attend

GeoenvironMeet 2024 offers a comprehensive program of topics and events, including

- Technical oral and poster breakout sessions
- Keynote presentations
- Lectures by rising stars of the profession
- State-of-the-art and state-of-the-practice sessions
- Sessions honoring two legends of our profession, Craig Benson and Rudy Bonaparte
- Panel discussions including leaders in academia and industry and federal and state agency stakeholders
- A two-hour river cruise that includes a guided tour of a significant superfund site, the splendor of the river at sunset, fine local cuisine, and a unique opportunity to network and socialize with your peers

## Sponsor & Exhibitor Opportunities: Why Should You Exhibit or Sponsor at GeoenvironMeet 2024?

You will have access to a much larger number of prospective key clients and business partners at one venue in three days than your sales team can reach in three months across the nation. Several hours of dedicated networking events within the Exhibit Hall during the conference will provide you with exposure to potential key clients and users and build your customer awareness of your products and relations with future customers at one venue. The event can help increase awareness of your brand, products, and services. This is an international event where quality technical programs draw experts and users from academia, industry, and agencies from across the nation and the globe. The products, services, and expertise you exhibit will become part of the conference focus and the center of attention of conference participants. The exhibit will provide an opportunity for customer interviews, first-hand information on customer needs, and competitive intelligence and comparisons.

## Who Should Exhibit?

Geoenvironmental, environmental, geotechnical, hydrology, hydrogeology, and geophysics consulting firms, equipment manufacturers, end users, owners and operators, engineers, and software developers who work in fields such as geoenvironmental and environmental remediation; hazard mitigation; safety organizations; instrumentation; in-situ testing; drainage and dewatering; landfill design, construction, operation, and management; geohazard mitigation; ground improvement, and many more.

## Target Audience

This conference will bring under one roof, professionals such as engineers; consultants; planners; industry representatives; nonprofit and citizen groups; developers; public officials; federal/state/local agency leaders; community and municipality leaders and managers; academicians, military personnel; the private sector; developers and planners for wastewater treatment centers; municipalities; commercial and private property owners; and manufacturers of products for environmental remediation, in-situ testing, and sampling. For more information, visit the conference website at [www.geoenvironmeet.org](http://www.geoenvironmeet.org), or contact Barbara Curtis, Senior Manager, Event and Media Sales at [bcurtis@asce.org](mailto:bcurtis@asce.org) or (703) 295-6286.