

AIPG Michigan Section Announces the

11th

**Environmental Risk Management Workshop
Best Practices for Groundwater
Remediation and Management**



CALL FOR ABSTRACTS

The American Institute of Professional Geologists (AIPG) Michigan Section is calling for abstracts for the 2022 Environmental Risk Management Workshop to be held **June 14-15, 2022**, at the **Ralph A. MacMullen Conference Center** in Roscommon, Michigan.

The Michigan Section is looking forward to hosting this event in person in 2022! We provide high quality technical training that focuses on practical application and case studies for environmental professionals. We bring together a broad base of topic expertise and perspectives from the consulting, regulatory, academic, and industry sectors. This unique workshop forum promotes collaboration and partnership to solve complex environmental problems in a peer-to-peer learning format.

This year our goal is to start a conversation about the **Best Practices for Groundwater Remediation and Management** at the workshop. Hazardous substances in groundwater pose a vastly complex set of challenges. Questions about the hydrogeologic setting, contaminant properties and characteristics, risks to possible receptors, and remedial and management options are raised. The standard approach more than 30 years ago was to pump and treat contaminated groundwater to remediate and mitigate the risk. Thanks to innovations applied by scientists and engineers at sites worldwide, whether adapted from other industries or original concepts, there are many more approaches being applied today as each site with groundwater contamination poses a unique set of circumstances and challenges.

Groundwater is a vital natural resource, and trillions of dollars and entire careers are spent on tackling issues related to groundwater contamination. We have learned that thoughtful and intentional approaches or strategic remediation and management are needed to address contaminated groundwater. Strategic remediation and management include a holistic consideration of the problem evaluating the aquifer system, its uses, and groundwater governance when determining what the risks are and how best to remedy them. Calculation of the environmental footprint of remedial alternatives, especially with the environmental, social, and corporate governance is an important consideration for organizations.

We are setting out to discuss the innovations in strategic groundwater remediation and management and best practices at the 2022 AIPG Michigan Section's Environmental Risk Management Workshop.

The following are some topical concepts for which we are seeking abstracts:

- **Innovative Groundwater Remediation Approaches:** in-situ/ex-situ methods, complex hydrogeologic settings, treatment trains, tools for calculating environmental footprint
- **Managing Risks due to Groundwater Contamination:** land and resource use restrictions, point of use treatment, alternate water sources
- **Data Collection and Analysis:** data collection tools, groundwater modeling, GIS applications
- **Contaminant Fate and Transport:** hydrogeochemical evaluations, phase separation, receptor identification
- **Groundwater Governance:** groundwater management policies, long-term aquifer use planning, groundwater resource inventory needs
- **Emerging Contaminants:** Per and poly-fluoroalkyl substances (PFAS), identification of new contaminants, remediation with commingled plumes
- **Closure:** Best approaches to closure, risk communication, long term management of contaminants, life cycle cost analysis of remediation alternatives (Cost to Closure of remedial actions)
- **Research Needs:** Accessibility to information, type of data, groundwater research projects

In addition to abstracts for case studies, the Michigan Section is calling for demonstration/short course abstracts that provide in-depth opportunities for learning. The short courses will be two hours, longer than the standard case study presentations. Standard presentations are 30-40 minutes in length. Abstracts for outdoor demonstrations are also welcome.

Submittal Deadline: January 17, 2022

Complimentary registration and accommodations for up to two speakers for selected abstracts.

AIPG Michigan Section Guidelines for Abstract Submittal

Important: The following guidelines provide details on the style and format of abstracts. The AIPG Michigan Section appreciates your interest and submittal of quality abstracts. Thank you.

Abstracts shall be no more than one page in length, and all text shall be 12-pt Times New Roman font with single spacing one-inch margins.

The abstract title shall be centered at the top of the page and be in bold 14-pt Times New Roman font. Directly below the title, list the presenter's names and organization(s) followed by the author's names.

Writing style should NOT be in first person. Rather, please use third person and the correct verb tense (e.g. present, future, past). The abstract should include the nature of the work and its relationship to the workshop theme and Environmental Risk Management, justification for the work, key/data findings and conclusions. Leave one blank line between paragraphs and other headings and text. Use right and left justification of all margins and do not indent paragraphs.

Please do NOT indicate in the abstract that particular information will be discussed during the presentation. The abstract should stand on its own merit and not point to the presentation that will be made at the workshop.

Please add a notation in the header of the abstract indicating topic category selecting from those listed in the text description on the front page of this flyer.

Information on Authors

Please include the following:

Names of Presenter(s):

Last Name, First Name and Initial
Place of Employment, Job Title
Email address and Work/Mobile Phone Number(s)

If there are more than two presenters, please list the two key presenters first.

Names of Other Authors:

(Please include the information below for all key authors. If there are more than four authors, add the additional authors on a separate page.)

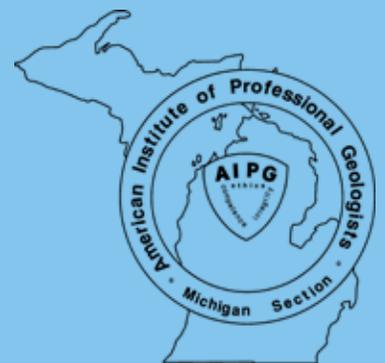
Name of Author(s):

Last Name, First Name and Initial
Place of Employment, Job Title
Email address and Work/Mobile Phone Number(s)

Presenter Biographies

Additionally, please include a brief author biography for each presenter with the abstract submission on separate pages.

Abstracts Due: January 17, 2022
Selection Notification: February 28, 2022
Submit to AIPG.MI.Section@gmail.com



Questions? Contact Co-Chairs: Sara Pearson (pearsons@michigan.gov) or Tammy Rabideau (tammy_rabideau@mascohq.com).
Thank you.

Note: We are planning for this to be an in-person event following appropriate precautions and guidance provided by the CDC that are in place at the time of the event. Our primary goal is to ensure the safety of our attendees. We are looking forward to hosting this event and hope to see you there!