

AIPG Michigan Section Announces the

12<sup>th</sup>

# Environmental Risk Management Workshop The Basics to the Latest in Contaminant Fate & Transport



## CALL FOR ABSTRACTS

The American Institute of Professional Geologists (AIPG) Michigan Section is calling for abstracts for the 2023 Environmental Risk Management Workshop to be held **June 13-14, 2023**, at the **Ralph A. MacMullen Conference Center** in Roscommon, Michigan.

The Michigan Section is looking forward to hosting this event in person in 2023! 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 look at **The Basics to the Latest in Contaminant Fate and Transport** at the workshop. We have learned over time that the fate and transport of hazardous substances in the environment is variable and not always predictable. There are general rules of thumb that we expect for well-studied contaminants with similar characteristics particularly when one substance is released in homogeneous subsurface conditions. However, this is rarely the case due to the many variables that influence the migration, degradation, phase transformation, and persistence of compounds. Co-mingling of hazardous substances can be beneficial as the rate of degradation can be increased or decreased due to the influence of other contaminants. Emerging contaminants pose an entirely new set of challenges with too many unknowns to easily predict the fate and transport; yet, we must still work to protect receptors from exposure to them.

The public relies on the work we do to identify, investigate and determine where and how far contaminants will migrate, what pathways pose the greatest risk for exposure, and take actions to manage risks. The behaviors of contaminants in the subsurface must be understood to implement effective and efficient remedial approaches. Contaminants that degrade into daughter products that may have greater toxicity must also be considered or perhaps they volatilize and pose a threat via the inhalation pathway.

Typically, we set out to talk about innovations at this workshop. We are at a unique point in the history of our industry with the

turnover in staff across the nation in the public and private sectors, and for the 2023 workshop, we again want to look towards innovation, but also address the basics which are the foundation upon which our understanding of contaminant fate and transport is based. It is a blend of the basics with the latest innovations that we can use to find the key to strategic remedies moving forward with fresh perspectives and tried and true knowledge to solve problems today and into the future.

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

- **Contaminant Characteristics:** chemistry, hydrogeochemical evaluations, phase transformation, co-mingling contaminant behaviors
- **Emerging Contaminants:** Per and poly-fluoroalkyl substances (PFAS), microplastics, pharmaceuticals, viruses
- **Tools for Evaluating Contaminant Fate and Transport:** Monitoring approaches, models, chemical analyses, unknown v. known contaminants
- **Data Collection and Analysis:** data collection tools, groundwater modeling, calculation of the contaminant mass, documentation and CSM development, life cycle analysis and cost-to-closure solutions.
- **Geologic Conditions and Complex Environments:** geologic conditions influence movement, rate of contaminant migration based on soil type and lithology, retardation factors and influences, groundwater/surface water interface
- **Remediation:** Enhance remedial approaches, measuring natural attenuation or source zone depletion, chemical and/or biological in-situ remediation
- **Closure:** Documentation to demonstrate risks are managed based on contaminant fate and transport, models, life cycle analysis and cost-to-closure solutions.

Two part abstracts are welcome for more detailed presentations. Presentations are 30-40 minutes in length. In addition to abstracts for case studies, the Michigan Section is calling for demonstration abstracts that can include outdoor demonstrations.

## Submittal Deadline: January 16, 2023

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 16, 2023**

**Selection Notification: February 28, 2023**

Submit to [AIPG.MI.Section@gmail.com](mailto:AIPG.MI.Section@gmail.com)

Questions? Contact Chair: Sara Pearson ([pearsons@michigan.gov](mailto:pearsons@michigan.gov)) Thank you.

*Note: We are planning for this to be an in-person event. We are looking forward to hosting this event and hope to see you there!*

