



The As2024 Congress is pleased to announce a specialized short course, "**Arsenic and Potentially Toxic Metals in Food and Agroecosystems**" designed for a diverse audience, including master's and PhD students, environmental and agricultural scientists, public health professionals, policymakers and regulators, community activists, people from NGOs, and post-doctoral researchers.

Course Coordinators:

Dr. Jajati Mandal, University of Salford, United Kingdom

Dr. Mohammad Mahmudur Rahman, The University of Newcastle, Australia

Course Overview:

This comprehensive course offers an in-depth understanding of the behavior, impacts, and management strategies for arsenic and potentially toxic metals within agricultural systems and the broader environment. Participants will gain valuable insights into contemporary analytical techniques, speciation methods for metals and metalloids in environmental samples, and the use of machine learning algorithms for prediction and risk assessment.

Key Highlights:

1. **Fundamentals of Toxic Metal Contamination:** Understand the basic principles of toxicology with a focus on As and other toxic metals. Learn about their sources, environmental behaviors, and impacts on ecosystems and human health. This includes studying the pathways through which these contaminants enter the food chain and their accumulation in different environmental matrices.
2. **Impact on Public Health and Food Safety:** Explore the implications of these contaminants on public health and food safety. Emphasize the connection between environmental contamination and health risks, particularly chronic exposure effects. Learn about the standards and guidelines for permissible levels of toxic metals in food products and the environment.
3. **Mitigation Strategies and Policy Frameworks:** Study various mitigation strategies to manage and reduce contamination in agroecosystems and food supplies. This involves understanding soil remediation, water treatment, and safe agricultural practices. Additionally, delves into the national and international regulatory frameworks that govern the management of toxic metal contamination.
4. **Research Techniques and Case Studies:** Develop research skills specific to toxic metal studies, including sampling methods, analytical techniques, and software. Analyze case studies, especially those relevant to the Indian and global contexts, to understand real-world challenges and applications of the learned concepts in managing arsenic and toxic metal contamination.



Who Should Attend?

This course is for individuals committed to making a difference in the fields of environmental pollution, agricultural sustainability, public health, and policy development. Whether you are conducting academic research, involved in community activism, working within an NGO, or contributing to policy and regulation, this course offers essential knowledge and skills to advance your work.

Course Details:

Duration: 3 days (20th, 21st and 22nd of October 2024)

Format: In-person at the KIIT University

Registration Fee:

Those who have registered for the conference, there are no additional fees for attending the short course. **However, anyone wish to attend the short course without registering for the full conference, will be required to pay the short course registration fee. Separate payment links will be sent to those who only wish to attend the short course.**

Registration:

To register for the short course, please [complete the form](#). **Kindly note that if you have already registered for As2024, you are still requested to fill in the form.**

Application Deadline: 15th October 2024

Limited seats are available. To ensure an interactive and engaging learning experience, we encourage interested participants to apply as early as possible. The course materials and course completion certificate will be provided after successful completion of the course.

Join us to equip yourself with the knowledge and tools to address one of the most pressing environmental challenges of our time. Together, we can pave the way for healthier ecosystems and communities.

For any queries and clarifications, please email: as2024india@gmail.com,

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