



**PROCEEDINGS OF THE 7th
INTERNATIONAL CONFERENCE
OF RECENT TRENDS IN ENVIRONMENTAL
SCIENCE AND ENGINEERING (RTESE 2023)**

June 04 - 06, 2023 | Carleton University, Ottawa, Canada

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ISBN: 978-1-990800-21-4 | ISSN: 2561-1089

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WELCOME MESSAGE FROM THE CONFERENCE CHAIR

On behalf of the International Academy of Science, Engineering and Technology (International ASET Inc.), the organizing committee would like to welcome you to the 7th International Conference of Recent Trends in Environmental Science and Engineering (RTESE 2023).

RTESE 2023 is aimed to become one of the leading international annual conferences in the fields related to environmental science and engineering. This conference will provide excellent opportunities to the scientists, researchers, industrial engineers, and university students to present their research achievements and to develop new collaborations and partnerships with experts in the field.

RTESE is a series of international conferences held yearly. These conferences focus on all aspects of environmental science and engineering. The 7th International Conference of Recent Trends in Environmental Science and Engineering (RTESE 2023) is going to be held in a hybrid format, i.e. in person as well as online.

In the seventh meeting of this conference, two Plenary speakers and three Keynote speakers will share their expertises with the aim of exposing participants to a wide spectrum of applications, and to foster crosspollination of ideas and develop new research interests. In addition, approximately 39 papers will be presented from professors, students, and researchers across the world.

We thank you for your participation and contribution to the 7th International Conference of Recent Trends in Environmental Science and Engineering (RTESE 2023). We wish you a very successful and enjoyable experience.

Dr. Mehrab Mehrvar

*Conference Chair and Proceedings Editor
RTESE 2023*

Dr. Zhi Chen

*Conference Co-Chair and Proceedings Editor
RTESE 2023*

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ABOUT RTESE 2023

The International Conference of Recent Trends in Environmental Science and Engineering (RTESE 2023) aims to become the leading annual conference in fields related to environmental science and engineering. The goal of RTESE 2023 is to gather scholars from all over the world to present advances in the fields related to environmental science and engineering and to foster an environment conducive to exchanging ideas and information. This conference will also provide an ideal environment to develop new collaborations and meet experts on the fundamentals, applications, and products of the mentioned fields.

RTESE is a series of international conferences held annually. These conferences focus on all aspects of environmental science and engineering. After successfully holding RTESE'17 to RTESE'22 in Canada, RTESE 2023 is hosted in **Carleton University, Ottawa, Canada** as well this year. RTESE 2023 is going to be held in a hybrid format, i.e. in person as well as online.

RTESE is an acronym for **Recent Trends in Environmental Science and Engineering**.

- All papers were peer-reviewed
- The conference proceedings are published under an ISSN and ISBN number
- Each paper is assigned a unique DOI number by [Crossref](#)
- The conference proceedings are indexed by [Google Scholar](#)
- The proceedings are permanently archived in [Portico](#) (one of the largest community-supported digital archives in the world)

 Google Scholar

 Crossref


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SCIENTIFIC COMMITTEE

We would like to thank the following for accepting to act as a member of the Scientific Committee for the RTESE 2023 Congress:

Scientific Committee Chairs



Dr. Mehrab Mehrvar

Department of Chemical Engineering, Toronto
Metropolitan University (formerly Ryerson University),
Canada, Canada
Conference Chair



Dr. Zhi Chen

Concordia University, Canada
Conference Co-Chair

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- Dr. Christopher Y H Chao, The Hong Kong Polytechnic University, Hong Kong
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- Dr. Phoebe Koundouri, Athens University of Economics and Business, Greece
- Dr. Danuta Leszczynska, Jackson State University, USA
- Dr. Jianbing Li, University of Northern British Columbia, Canada
- Dr. Youyu Lu, Bedford Institute of Oceanography, Canada
- Dr. Chavalit Ratanatamskul, Chulalongkorn University, Thailand
- Dr. Qiuyan Yuan, University of Manitoba, Canada

KEYNOTE SPEAKERS

We are very happy to announce the following keynote speakers for the 7th International Conference of Recent Trends in Environmental Science and Engineering (RTESE 2023):

Plenary Speakers



Dr. Parisa A. Ariya
McGill University, Canada

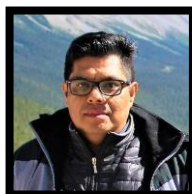


Dr. Jun XIA
Wuhan University, China

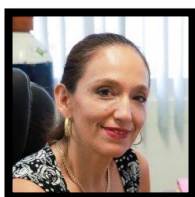
Keynote Speakers



Dr. Ning Lin
Princeton University, USA



Dr. Vicente Rodríguez-González
Institute for Scientific and Technological Research of San Luis Potosi, Mexico



Dr. Iliana Medina-Ramírez
Universidad Autonoma de Aguascalientes, Mexico

RTESE 2023 PLENARY SPEAKER



Titles: On The Importance of Airborne Nano-Size Particles: Air Quality, Health, Sustainability, and Climate Change

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[Dr. Parisa A. Ariya, McGill University, Canada](#)

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Professor Ariya is James McGill Chair in Chemistry, Atmospheric and Oceanic Sciences. Her physical-analytical chemistry laboratories explore particles, bridging chemical, physical and biological-health processes in air, and interfaces with water/snow, soil, and building surfaces. This lab currently designs novel analytical chemistry technologies at McGill University to track individual single and clusters of particles, including airborne virus droplets and aerosols, without needing particle trapping in milliseconds. They also develop ultra-trace chemical detection capabilities and remote-sensed (AI) recyclable nano-sensors. This lab contributes to solving the pollution enigma by developing sustainable remediation-recycling methods and technologies for pollutants (gaseous and particles, including bioaerosols such as airborne viruses, and emerging contaminants) with zero-net energy. It allows understanding of feedback mechanisms between atmospheric, biogeochemical and microphysical processes. Dr. Ariya has published >150 internationally peer-reviewed publications, four patents, a book, and > 300 proceedings. She has presented >140 invited lectures on four continents. Several of her research contributions have been distinguished internationally. She has had the privilege of mentoring over 180 bright, highly qualified personnel in her laboratories who all follow their career of choice; many have become global leaders in academia (26 faculty members), governments, industries (4 CEO), or start-ups. Dr. Ariya has served in several leadership positions, e.g., the principal investigator of major grant applications, leading or acting as a member of grant agencies in Canada, the U.S., the EU, Asia and South America, notably serving as the chairperson of the Joint European Union Panel on Arctic Climate Change. She has served as an Editor and on the Editorial Boards of several international journals, including Analytical Chemistry (ACS), Cambridge Press and the Royal Society for Chemistry- CSR (U.K.). Dr. Ariya has also served as the chairperson of McGill's Department of Atmospheric and Oceanic Sciences. Professor Ariya has served as the lead author of two United Nations Environmental Protection (UN-EP) chapters on metal transformation in the environment. In addition, she has contributed to policy-related scientific reports on toxic contaminants, the Canadian Environmental Protection Act, the Clean Air Regulatory Agenda, an advisor to the House of Commons (CEPA revisions), Arctic assessment reports. Her numerous interviews have been distributed through major international mainstream and web-based media, from Spiegel and Washington times, translating science to the public and stakeholders.

RTESE 2023 PLENARY SPEAKER



Titles: Integrated Water Management & Development of Yangtze River Simulator

[Dr. Jun Xia, Wuhan University, China](#)

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Dr. Jun Xia is an Academician of Chinese Academy of Sciences (CAS), and Chair Professor & Director, The Research Institute for Water Security (RIWS), Wuhan University. He has ample experiences on hydrology, water resources management in China and international since 1987, served as the President of International Water Resources Association (IWRA, 2009-2012), Co-Chair, InterAcademy Council for Water Programme (2004-2010), Bureau Member of International Union of Geodesy and Geophysics (IUGG, 2019-2023) etc. He was awarded “International Hydrological Prize -Volker Medal”, given jointly by IAHS, UNESCO and WMO in 2014, the 2017’s State Natural Science Award in China, 2019’s IUGG Elected Fellow and 2022’s ICWRER Lifetime Achievement Award.

RTESE 2023 KEYNOTE SPEAKER



Titles: Hurricane Hazards and Risk in a Changing Climate

[Dr. Ning Lin, University of Maryaitoba, CAriyaada](#)

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Ning Lin is an Associate Professor of Civil and Environmental Engineering at Princeton University. Lin's research areas include natural hazards and risk analysis, climate change impact and adaptation, wind engineering, and coastal engineering. Her current primary focus is hurricane risk analysis. She integrates science, engineering, and policy to study hurricane-related weather extremes, how they change with changing climate, and how their impact on society can be better mitigated. She has published in high-impact journals including Science, Nature Climate Change, and PNAS on these topics. Lin is a recipient of CAREER award from National Science Foundation (NSF), Natural Hazards Early Career Award and Global Environmental Change Early Career Award from American Geophysical Union (AGU), and Huber Research Prize from American Society of Civil Engineers (ASCE). Lin received her Ph.D. in Civil and Environmental Engineering from Princeton University in 2010. She also received a certificate in Science, Technology and Environmental Policy in 2010 from Princeton. Before rejoining Princeton as an assistant professor in 2012, she conducted research in the Department of Earth, Atmospheric and Planetary Sciences at MIT as a NOAA Climate and Global Change Postdoctoral Fellow.

RTESE 2023 KEYNOTE SPEAKER



Titles: Photocatalytic Materials Immobilized On Recycled Supports as Alternative In the Degradation of Water Contaminants

Dr. Vicente Rodríguez-González, Institute for Scientific and Technological Research of San Luis Potosi, Mexico

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Dr. Vicente is Senior Researcher at IPICYT (Instituto Potosino de Investigación Científica y Tecnológica A.C.). He has published more than 135 papers, cited 2631 times H index 31 scopus (cited 3115 times H index 34 google scholar). Research Interests: New nanostructures for green chemistry: heterogeneous catalysis, AOPs for water treatment; renewable energy and environment; Photocatalysis; nanomaterials for inactivation of pathogens and agricultural applications. He is a member of the editorial board of the Chemical Engineering Journal and was guest editor for journals such as Catalysis Today, Topics in Catalysis, and the Journal of Hazardous Materials.

RTESE 2023 KEYNOTE SPEAKER



Titles: Photocatalysis A Sustainable and Versatile Technique for Indoor Air Purification

Dr. Iliana Medina-Ramírez, Institute for Scientific and Technological Research of San Luis Potosi, Mexico

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Iliana E. Medina-Ramírez got her Ph.D. in chemistry (organometallic and materials chemistry) from Tulane University in 2005. She has more than 10 years of research experience in the field of nanostructured materials (metallic, metal oxides, and metal-chalcogenides), with a particular interest in photocatalytic materials for environmental remediation and biomedical applications. She has published 56 papers in international peer-review journals, 4 book chapters, and is the co-editor of the book “Photocatalytic Semiconductors. Synthesis, characterization, and environmental applications” Springer (Ed), She has participated in more than 40 international conferences. She has supervised 100 BSc students, 10 MSc students, and 6 doctorate students. She was awarded the best junior researcher prize (2007), advanced researcher award (2nd place, 2011) and consolidated researcher award (2019) at her current academic institution. She is a member of the System of National Researchers (Mexico) and co-organizer of the Mexico-China Workshop on Renewable Energy and Environment Remediation.

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A Study on Artificial Intelligence-Based Sand Filtration Backwash Cycle Determination Method for Improving Sand Filtration Process Maintenance Performance

Authors: Seungjae Yeon, Jusuk An, Changseog Oh, Hyun je Oh

Chlorine Demand In Bicarbonated And Ferruginous Hot Springs In The Cundinamarca Region, Colombia

Authors: Yuly Sánchez, Mehrab Mehrvar, Lynda McCarthy, Edgar Quiñones Bolaños , Luis Cheu, Alexander Reuß, Jairo Romero

Macrolitter: Riverine Plastic Pollution at the Mouth of Ishëm River (Albania)

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Authors: Alireza Ranjbari, Ju Ho Kim, Jiyun Kim, Jihee Yu, Philippe M. Heynderickx

Coagulation and Filtration Combined to Treat Paint Factory Wastewater: Empirical Insights from Uganda

Authors: : Gloria Linda Ndagire, Roice Bwambale Kalengyo

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An Investigation into the Effects of Water Quality on Coal Flotation Performance

Authors: Nompumelelo Nkosi, Willie Nheta

The Impact Of Residual Flocculant On Flotation Performance Of Platinum Group Metal Ores

Authors: Lucky Tloubatla, Willie Nheta, Michel Kalenga

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Authors: Isabela Falconi Brandolis Alv, Marcela Baltazar, Jorge Tenório

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Dynamic Sensor Nodes Distribution with Coordinated Autonomous Vehicles for Environment Pollution Monitoring and Modeling

Authors: : Alfa Budiman, Wenbo Wu, Edisson A. Naula-Duchi, Patricia Portillo Jiménez, Hanifeh Imanian, Pierre Payeur, Luis E. GarzaCastañón, Abdolmajid Mohammadian, Eric Lanteigne

Climate Change Impacts on Global Food Security

Author: Charles Lee

An Investigation into the Effects of Water Quality on Coal Flotation Performance

Authors: Nompumelelo Nkosi, Willie Nheta

The Impact Of Residual Flocculant On Flotation Performance Of Platinum Group Metal Ores

Authors: Lucky Tloubatla, Willie Nheta, Michel Kalenga

Use of Hematite Ore as a Source of Iron from the Fenton Reaction for Degrading Amine Ether Collectors Contained in Iron Mining Wastewater

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Authors: Raul Guerrero Torres, Mehrab Mehrvar

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Authors: Izzah Amal, Afroz A Shah, Moad Idrissi, A Taufiq Asyhari, Muhd Firdaus Zaini, Muhd Afnan Alizan, Daphne Lai and Ferry Slik

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Authors: Mohammad Karbalaei Akbari, Nasrin Siraj Lopa, Serge Zhuiykov

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Sustainable and Optimized Black Start in Microgrids

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Synthesis And Characterization Of Cu:Tio2 Photocatalysts With Suitable Optical Properties

Authors: Ariadna A. Morales-Pérez, Daniela D. Suárez-Quiroz, Hugo J. Ávila-Paredes

SPONSORS

International ASET Inc. would like to thank the following sponsors for their support of RTESE 2023:



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JOURNAL PUBLICATION

Selected articles from the conference will be published in the International Journal of Environmental Pollution and Remediation (IJEPR)

This journal has adopted to the open-access model, meaning all free access to the journal's articles and content with no need for subscription. This ensures larger audience and therefore higher citations.

All published papers of IJEPR will be submitted to Google Scholar. Additionally, they will be permanently archived in Portico (one of the largest community-supported digital archives in the world) and will be assigned unique DOIs.

Please visit the following website for the respected journal:
IJEPR: <https://ijepr.avestia.com/>

RTESE 2024

The 8th International Conference of Control, Dynamic Systems, and Robotics (RTESE 2024) will be held on June, 2024 in Canada.



For inquiries and to obtain further information on the congress, please visit the [website](http://www.2024.rtese.com)

You can also email info@rtese.com or call us at: +1-613-834-9999

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ETHICS & MALPRACTICE

At International ASET Inc., we take matters that relate to ethics in publishing very seriously. We believe that the peer-review publication process is a vital building block of academia, and its integrity must be maintained at all costs, which is why every article will be peer-reviewed by several experts in the field. Under peer-review, experts in the related fields are required to provide opinions and comments on the improvements of the submissions.

We are proud of our efforts towards abiding by the guidelines of ethics, integrity, and high standards in publishing.

Following are the ethics guidelines set by the organizers for the authors and the reviewers of the conference:

Scientific Committees

Scientific committees consisting of experts in the fields are established. The committees oversee the peer-review and publication process. To see the scientific committee members, please follow the link: [Scientific Committee](#)

Equality and Decisions

One or more reviewer, scientific committee member, or chair, (internal or external), are responsible for evaluating the relevance of the submitted manuscripts to the proceedings, technical and scientific merit, originally, and impact. These evaluations are to be carried out regardless of ethnicity, religion, gender, sexual orientation, political beliefs, and institutions. Successive to peer-review, the Chair has full authority and is solely responsible for the published content and the process thereof.

Confidentiality

Scientific committee member(s) and publishing staff may not disclose manuscripts or their content, directly or indirectly, to anyone other than individuals invited to review the manuscript (whether they accept or not), other reviewers of the same publications, and publishing staff.

Conflicts of Interest

Scientific committee member(s) and publishing staff may not utilize the contents of submitted manuscripts whether accepted or rejected, directly or indirectly for their own research purposes without prior written consent by the authors.

ETHICS & MALPRACTICE

Reviewers

Contribution to Decisions

In order for final decisions to be made regarding acceptance or rejection of papers, we rely on peer-review. Peer-review is the process of experts in the field reading, understanding, and objectively commenting on submitted papers. Through peer-review, scholars give back to the academic and scientific community by helping the chair(s) make decisions regarding manuscripts.

Promptness

Reviewers should promptly notify the chair(s) if they are unable or unqualified to carry out their reviewing duties. Reviewers should do their best to provide the reviews to the chair(s) as promptly as possible, and within the designated time-frame.

Acknowledgment of Source

The reviewer should notify the chair(s) if they find any similarities in the paper being reviewed and any other work that has been published previously.

Confidentiality

Reviewers must not share the contents of the manuscripts they receive for review, regardless of their decision to review or contents of the review, directly or indirectly, with anyone other than the person who has assigned the review.

Fairness

Reviewers should review manuscripts fairly and objectively, with supporting evidence or arguments, regardless of personal feelings or biases.

Conflicts of Interest:

Invited reviewers should immediately inform the chair(s) in case of a conflict of interest based on competitive, collaborative, personal, family, and other relationships with the authors or people involved in the work.

ETHICS & MALPRACTICE

Authors

Reporting Standards

The paper being submitted for the proceedings should be based on clear objective, discussion, and references. The findings, data, and the arguments being used in the paper should be accurate. It is author's responsibility to guarantee the authenticity of the data in the paper.

Authorship

Only persons who have significantly contributed to the work and the manuscript can be named authors on a paper. These contributions include the idea/concept, design, experiments, evaluation, analysis, drafting or revision of the manuscript, and others. Authors must all have agreed to be named as such and for the manuscript to be submitted. Anyone who has contributed based on the above, but the level of contribution is not significant, may appear in the acknowledgement section of the manuscript.

Acknowledgement of Source

Acknowledgement to other's work being used in the paper must be given at all times. Authors of the paper should give comprehensive credit where it is necessary, by citing the work, they use for supporting their own research.

Accuracy, Originality, and Plagiarism

Authors should describe their work and the results of their work accurately and in full. The level of provided accuracy and detail should be such that a reader can replicate the work independently. Inaccurate, incomplete, fraudulent, and misleading statements are considered unacceptable and unethical. Direct or indirect use of other people's work is not allowed, unless properly cited. Previous works that have influenced the current work should also be cited. Presenting someone else's work as one's own is strictly prohibited and is considered plagiarism.

Data and Material

Authors are encouraged to share their data, software, or other sharable material online, provided copyright and ownership laws surrounding that particular project permit. Authors may also be asked to share such material with the chair(s), and/or reviewers, and must be willing to do so if asked.

ETHICS & MALPRACTICE

Dual Submissions

Submitting a manuscript to more than one venue (conference, journal, etc) simultaneously is not allowed. Presenting previously published work to be considered as a new submission, without a significant new interpretation or analysis, is prohibited.

Conflicts of Interest

Authors must notify the chair(s) at the time of submission, if any factor outside the scope of the research has influenced any step of the work and manuscript writing. Examples of such factors include but are not limited to funding, grants, advisory and consultancy, stock ownership, current or past employment, and memberships, among others. All funding sources should be disclosed in the manuscript.

Animal and Human Subjects

Works involving human and/or animal subjects must ensure that the work has abided by institutional guidelines, and pre-approved by required bodies. Moreover, consent must be acquired from participants, and privacy of subjects must be ensured. All of the above must be specified with clear statements in the manuscript.

Hazardous Material

It should clearly be identified in the manuscripts if the works have involved hazardous chemicals and material, or devices that can be harmful.

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If an author identifies a major error in a published paper, he/she must immediately inform the publisher. Regardless of whether a significant error is reported by the authors of the work or other readers, authors are obligated to take the necessary steps to correct the issue. It is decided on a case-by-case basis whether an erratum will be submitted to notify future readers of the error and correction, or whether the paper will be retracted. Unethical/plagiarism issues mostly result in a retraction, while unintended mistakes will mostly result in the publication of an erratum.

ETHICS & MALPRACTICE

Publisher

Errata and Retractions

The publisher takes the necessary steps to prevent mistakes, academic and scientific misconduct, and unethical behavior, both intended and unintended. When mistakes are reported, the publisher works with chair(s) and authors to publish an erratum clarifying the issue. In cases where the mistakes are severe and significant, the paper might be retracted. If unethical behavior, plagiarism, academic and scientific misconduct, or other such activities are proven to have taken place by an author or authors, the publisher will retract the paper.

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Schedule:

This conference proceeding accompanies the conference, meaning a new proceedings will be published every year for the corresponding annual conference of this series.

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