

The 7th International Conference on Environment and Disasters
The 9th International Conference on Water Resources
Management and Engineering
(ICED & ICWRME 2023)

第 7 届环境与灾害国际会议
暨第 9 届水资源管理与工程国际会议
会议手册

Conference Program



线上会议

Online Conference

2023 年 10 月 26 日

October 26, 2023

<http://iced.ac.cn/>

<http://icwrme.iamset.org/>

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大会简介/Introduction

旨在汇集领先的学术科学家、研究人员和学者，交流和分享他们在环境与灾害以及水资源管理等各个方面的经验和研究成果。它还为研究人员、从业人员和教育工作者提供了一个重要的跨学科平台，以展示和讨论环境与灾害以及水资源管理领域中的最新创新、趋势和关注点以及遇到的实际挑战和采用的解决方案。“第七届环境与灾害国际会议暨第九届水资源管理与工程国际会议”（The 7th International Conference on Environment and Disasters & The 9th International Conference on Water Resources Management and Engineering, 简称 ICED & ICWRME 2023）由 International Association of Management Science & Engineering Technology (IAMSET 艾慕赛特) 主办，拟定于 2023 年 10 月 26 日线上召开。

本次大会的议题为（包括但不限于）：

- 议题 1：气候变化与自然灾害
- 议题 2：灾害预防与管理
- 议题 3：灾害控制与重建
- 议题 4：环境质量与管理
- 议题 5：环境管理与环境分析
- 议题 6：生态学与生态系统
- 议题 7：水处理工艺工程
- 议题 8：水利用与管理
- 议题 9：过程控制、建模与优化
- 议题 10：水污染及对环境的影响
- 议题 11：水文研究
- 议题 12：水利工程

……

本次会议广泛诚邀国内外高校、科研机构的知名专家、企业界人士及其他相关领域人员参会交流，提供一个扩大业内影响、提高学术认同、促进学术成果转化及科研交流的合作平台。

In order to bring together leading academic scientists, researchers and scholars all around the world to exchange and share their experience and research findings in all aspects of Environment, Disasters and Water Resources Management. It also provides a premier interdisciplinary platform for researchers, practitioners and educators to present and discuss the most recent innovations, trends, and concerns as well as practical challenges encountered and solutions adopted in the fields of Environment, Disasters and Water Resources Management. **The 7th International Conference on Environment and Disasters & The 9th International Conference on Water Resources Management and Engineering (ICED & ICWRME 2023)**, which is organized by International Association of Management Science & Engineering Technology (IAMSET), will be held online on October 26, 2023.

The topics are shown as follows (including but not limited to):

Topic 1: Climate Change and Natural Disasters

Topic 2: Disaster Prevention and Management

Topic 3: Disaster Control and Reconstruction

Topic 4: Environment Quality and Management

Topic 5: Environment Management and Analysis

Topic 6: Ecology and Ecosystems

Topic 7: Water Treatment Processes Engineering

Topic 8: Water Use and Management

Topic 9: Process Control, Modelling and Optimization

Topic 10: Water Pollution and Impacts on Environment

Topic 11: Hydrology Research

Topic 12: Water Resources Engineering

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ICED & ICWRME 2023 cordially invites renowned experts from universities and research institutions at home and abroad to participate in this conference, as well as people from the business community and other related fields, and provides a cooperation platform to expand the influence of the industry, improve academic recognition, promote the transformation of academic achievements and scientific research exchange.

组织机构/Organization

- **主办单位 Host Organizer**

国际管理科学与工程协会

International Association of Management Science & Engineering Technology (IAMSET 艾慕赛特)

- **会议主席 Conference Chairman**



Prof. Zhenling Liu

Henan University of Technology

Prof. Zhenling Liu is the associate professor at the School of Management, Henan University of Technology and is charge of teaching the courses, including “Quantitative Analysis”, “Comprehensive Experiment on Application of Statistical Analysis Software”, “Econometrics”, “Marketing Research and Decision Making”, and “Frontier of Management”, etc. His research interests focus on energy-economy-environment system and sustainable development. Prof. Liu presided or participated in several projects and has published more than 90 papers in national and international journals and 13 books. He also serves as the associate editor of Journal of Sustainable Science and Management, and the editor of Advances in Industrial Engineering and Management. Prof. Liu has won several awards, including 3 provincial and ministerial science and technology progress awards.

国际期刊/International Journals

ICED & ICWRME 组委会鼓励作者通过提交摘要或全文参加会议。会议接收环境与灾害，水资源管理与工程等领域相关的各个方面的高质量研究论文。

会议与知名出版商的国际认证期刊合作，会议参与者有机会在这些期刊上提交他们的完整论文进行在线发表。所有投稿都要进行双盲同行评议，投稿结果将取决于同行评审意见。

建议与会者在决定合适的期刊之前，先阅读期刊的范围和目的。会议遵循普遍接受的出版道德规范。

您所选择的期刊的投稿指南和作者说明将在会后通过电子邮件单独提供。

包括但不限于以下期刊：

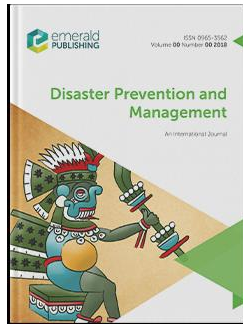
ICED & ICWRME organizing committee encourages authors to participate in the conference by submitting abstracts or full papers. The conference accepts high quality research papers in all fields related to Environment, Disasters, Water Resources Management and Engineering.

We are working with internationally accredited journals from renowned publishers and conference participants are provided with the opportunity to submit their full papers for online (closed access) publication in these journals. All supporting journals are subjecting submissions to the double-blind peer-review process. The decision on publication will depend on the peer-review process.

Participants are advised to read the journal's scope and aim before deciding the suitable journal. We follow universally accepted ethics on publication.

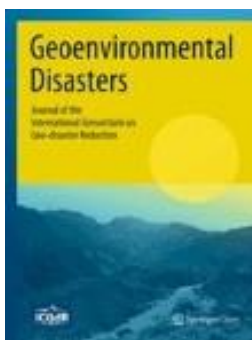
Guides on submission and author instructions of your preferred journal will be provided separately via an email after the conference.

Journals include but are not limited to:



Disaster Prevention and Management

Emerald
IF: 1.9



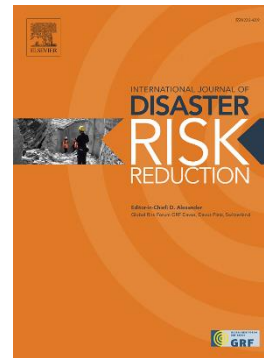
Geoenvironmental Disasters

Springer
IF: 4.8



Journal of Hydrology

Elsevier
IF: 6.4



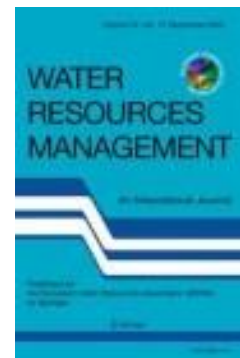
International Journal of Disaster Risk Reduction

Elsevier
IF: 5



International Journal of Disaster Risk Science

Springer
IF: 4.0



Water Resources Management

Springer
IF: 4.3

主讲嘉宾/Keynote Speakers



Zhen Hu, Professor, Vice Dean

School of Environmental Science and Engineering, Shandong University, China

Dr. Hu Zhen is currently a professor of Environmental Engineering and Vice Dean at the School of Environmental Science and Engineering, Shandong University, China. He obtained his Ph.D. degree in 2011, and has been working in the field of wastewater treatment and resource utilization since then. His research interest includes novel biological nitrogen and phosphorus removal technologies, constructed wetland, recycling of chemical energy in sewage, and the greenhouse emission from sewage treatment process. He has published over 50 SCI papers as first/corresponding author in peer reviewed journals, such as Environ. Sci. Technol. and Water Res. He has been authorized 7 Chinese patents and 1 U.S. patent. He also served as Youth Editorial Board Member of Journal of Environmental Science, Committee Member of IWA-YWP, Member of Chinese Society for Environmental Science, and et al.



Jinsong Wu, Associate Professor

Department of Electrical Engineering, University of Chile, Chile

Dr. Jinsong Wu currently works as an associate professor at Department of Electrical Engineering, University of Chile, Chile. He is the Founder and Founding Editor-in-Chief for the new international journal, Green Technologies and Sustainability (GTS). He received 2020 IEEE Green Communications and Computing Technical Committee Distinguished Technical Achievement Recognition Award, for his outstanding technical leadership and achievement in green wireless communications and networking, and received 2017 IEEE Green Communications and Computing Technical Committee Excellent Services Award for his Excellent Technical Leadership and Services in the Green Communications and Computing Community. He was the leading Editor and a co-author of the comprehensive book, entitled “Green Communications: Theoretical Fundamentals, Algorithms, and Applications”, published by CRC Press in September 2012, which has been recognized as the very first comprehensive published book effort on green communications covering broad topics of green wireless communications, green wireline communications, general relevant green topics and applications in one book using a research perspective. Dr. Wu was the Founder (2011) and Founding Chair (2011-2017) of IEEE Technical Committee on Green Communications and Computing (TCGCC), IEEE Communications Society. He is also the Co-Founder (2014) and Founding Vice-Chair (2015-present) of IEEE Technical Committee on Big Data (TCBD), IEEE Communications

Society. He is Steering Committee Member and IEEE Communications Society Representative in IEEE Environmental Engineering Initiative under IEEE Technical Activities Board (TAB), starting in 2016. Dr. Wu has participated in international conferences for many times and invited as the chair of conferences. Besides, he is also the editor of several journals in the related fields. He currently is an IEEE Senior Member.



A. Sundaramanickam, Associate Professor

Center of Advanced Study in Marine Biology, Faculty of Marine Sciences, Annamalai University, India

Dr. A. Sundaramanickam currently works as an associate professor at the Center of Advanced Study in Marine Biology, Faculty of Marine Sciences, Annamalai University, India. His research interests include marine pollution monitoring, impact assessment studies, heavy metals, microplastics, hydrocarbons, bioremediation of pollutants and biosynthesis & application of functionalized nanoparticles. He presided or participated in several research projects funded, such as Impact of aquaculture activities on early life cycle of finfishes in Muthupet mangrove ecosystem, Sea Water Quality Monitoring Under Coastal Research Scheme, Assessment of inland and marine fishery resources of Puducherry state and development of software, etc. He has published more than 80 papers in high-quality international journals, and 8 book chapters. He also won many awards, including Best Researcher Price Award (Publications) (2022-2023, 2017-2019, 2016-2017), and Young Research Award (2017-2018) by Authorities of Annamalai University. Dr. A. Sundaramanickam also attended kinds of conferences or seminars actively and make contributions. He is serving as an Academic Editor of Plos One Journal.



Dr. Md Galal Uddin, Postdoctoral Researcher **University of Galway, Ireland**

Dr. Md Galal Uddin received his PhD degree from University of Galway in 2023. During his PhD project, he took on the role of a teacher assistant and taught several undergraduate and postgraduate modules, and taught courses in water quality, data science applications, waterbody modeling, and water resources. He currently works as postdoctoral researcher at University of Galway, Ireland and is charge of analyzing and reconstructing environmental data, particularly Irish Sea and North Atlantic Ocean water quality data, and developing ML and AI algorithms for various environmental applications, and apply water quality index models and assess water quality in different environments. Dr. Md Galal Uddin is the developer of the Irish Water Quality Index (IEWQI) model, which specifically targets coastal and transitional water quality assessments. His current research focuses on marine, transitional, and coastal water quality, as well as their associated ecosystems. Dr.

Md Galal Uddin also presides and participates in several projects funded, and has published several articles in international journals, more than 10 conference papers or abstracts, and 1 book chapter. He has served as journal editor and reviewer, and has been a lead research investigator in the EcoHydro Informatics Research Group (EHIRG) and has contributed to major international and national projects.

Hamza Ighnih, Research Scholar

Faculty of Science, Ibn Zohr University, Morocco



Dr. Hamza Ighnih is pursuing his Ph.D at the Faculty of Sciences, Ibn Zohr University, Morocco and is in the third year of his doctoral studies. Dr. Hamza Ighnih is expert in the Materials Chemistry and has published 9 articles in the international journals about the related fields. Dr. Hamza Ighnih actively participated in many international conferences, shared his views and played an active role in the conferences, including a conference just concluded----National days for doctoral students and young researchers CNRST-Rabat, Morocco, 21, 22 July 2023. He also participated in several project researches in related fields and accomplished the project tasks excellently. Dr. Hamza Ighnih's research interests include Chemical and physicochemical analysis methods and conducted tutorial sessions for the "Solution Chemistry" module (SMP2) at the Faculty of Applied Sciences in Ait Melloul, Morocco.

Sasan Motaghd, Assistant Professor

Behbahan Khatam Alanbia University of Technology (BKATU), Iran



Dr. Sasan Motaghd works currently as the assistant professor at faculty of the Engineering faculty at Behbahan Khatam Alanbia University of Technology (BKATU). Dr. Sasan's research interest lie in seismic hazard analysis, sensitivity analysis, seismic analysis, and structural analysis. Dr. Sasan has more than 16 years of experience in teaching and managing in university. He presided over or joined in many research projects and made great progress. He had been awarded for his contributions for many times. Dr. Sasan has published 3 books and more than 20 papers in international journals and has actively participated in many conferences in related fields and brought people many excellent papers.

Waheed Ullah, Associate Professor

Rabdan Academy, Abu-Dhabi, U.A.E.



Dr. Waheed Ullah received his PhD degree from Nanjing University of Information Sciences and Technology in 2019. He has rich professional experience, and worked as associate professor or lecturer at Nanjing University of Information Science and Technology, and mentoring undergraduate students in their research synopsis and report and supervised graduate and doctoral candidates with thesis and manuscript assessment. He currently works as associate professor

at Rabdan Academy, Abu-Dhabi U.A.E. His research interests focus on Modelling human thermal stress over the Arabian Peninsula from meteorological data including in-situ observations, satellite retrievals, reanalysis and projections, Artificial Intelligence (Deep/Machine learning) for forecasting/predicting urban heat waves and their local drivers, Modeling the impact of the CO2 emissions in changing the state of the land atmosphere interaction, etc. He has published more than 50 papers in international journals. Prof. Waheed Ullah serves as guest editor of special issues in Atmosphere MDPI, review editor for Frontiers in Environmental Sciences-Climate, and the reviewer of 9 international journals, such as Hydrology and Earth System Sciences, Arabian Journal of Geosciences, Hazards, Natural Hazards, etc. He participated in workshops or conferences many times and gave presentations. He received several fellowships and awards, including Chinese Government Scholarship for PhD studies in China, Outstanding international graduate award in China, An outstanding member of the International Meteorological student association in China.



**Liton Chakraborty, Research Associate
Faculty of Environment, University of Waterloo, Canada**

Dr. Liton Chakraborty is a Research Associate at the University of Waterloo, and his research interests center on assessing social vulnerability, environmental and social inequities, and racial/ethnic disparities in exposure to climate change risks. Through his research initiatives, Liton has created a Social Vulnerability Index (SoVI) for Canada to inform equity and socioeconomic variability for diverse Canadian communities, highlighting factors representing the social construction of climate change risk. For his exceptional contributions to the Canada-wide Flood Hazard Model, Liton received the Creativity and Innovation Award as part of the 2022 Departmental Awards and Recognition Ceremony of Public Safety Canada. Liton published his research work in multiple impactful, internationally recognized peer-reviewed journals, such as Environmental Research, Risk Analysis, International Journal of Disaster Risk Reduction, and International Journal of Disaster Risk Science. Besides, Dr. Liton has more than 16 years of academic experience with teaching, policy-informed research project development, and engagement in interdisciplinary and applied research projects. He is an expert in evaluating the causes and effects of any spatial, economic, and social phenomenon on society. He thoroughly understands social vulnerability, GBA+, systemic inequity, community well-being assessment, and policy development emphasizing an equity-centered, intersectional approach.



Majid Galoie, Assistant Professor
Imam Khomeini International University (IKIU), Iran

Dr. Majid Galoie received his Ph.D. degree from Graz University of Technology (TUG), Graz, Austria. He is currently working as a faculty member at the Civil Engineering Department, Imam Khomeini International University, Iran, and a senior researcher at the Institute of Mountain Hazards and Environment (CAS), Chengdu, China. He also has participated in several projects in the field of climate change and numerical modeling at the Center for Resource Management and Environment Studies (CERMES) at the University of West Indies (as a Post-Doc Fellow), senior researcher and numerical modeler at Water Research Institute (WRI), and senior research associate at the Institute of Mountain Hazards and Environment (CAS), Chengdu, China. He has published several papers, books, and chapter books in different fields of water engineering such as flood engineering, river engineering, numerical methods, technical manuals, etc.



Mojtaba Valibeigi Darvishvand, Assistant Professor
Buein Zahra Technical University (BZTE), Iran

Dr. Mojtaba Valibeigi Darvishvand is dedicated assistant professor of geography and urban planning, Buein Zahra Technical University (BZTE), Iran. with over 8 years of experience in teaching and research. He is keen to leverage environmental & participation approaches for local community development. He is particularly interested in how public participation and peoples' attachment to place could reshape regional and urban area towards social and environmental resilience. He had more than 30 publications in the areas of urban & regional public polices, Environmental Quality, Disaster Risk Management & Environmental Resilience. Besides, he is the Reviewer for three journals of Social Indicator Research, Journal of Geography and Planning, Journal of Studies of Human Settlements and is also the Editorial Member of Green Building & Construction Economics.



Mr. Aditya Sharma, Research Scholar
Department of Atmospheric Science, Central University of Rajasthan, India

Mr. Aditya Sharma is pursuing Ph.D. in Atmospheric Science at Central University of Rajasthan, India. His research interests focus on Weather and Climate Extremes, Hydrological Modelling, Hydrometeorology, and Regional Climate Modelling. Currently, he is working on the hydrometeorological applications and related impacts in a changing climate. He also worked on Weather Research and Forecasting (WRF) Model for simulation and forecasting of extreme weather events. His research attempt to enhance the understanding of the extreme

precipitation events and drought conditions at a regional-basin level. And Mr. Aditya Sharma has peer review research articles of more than 10 International Journals, including International Journal of Climatology, Meteorological Applications, Theoretical and Applied Climatology, etc. He has also research experienced of 5 international and national projects funded by Asia-Pacific Network for Global Change Research (APN), Institute for Global Environmental Strategies (IGES), Department of Science and Technology (DST) and Ministry of Water Resources, Government of India.

**Artemis Motamedi, Assistant Professor
Buein Zahra Technical University (BZTU), Iran**



Dr. Artemis Motamedi received her Ph.D. degree from Isfahan University of Technology, Iran. She is currently working as a faculty member at the Civil Engineering Department, Buein Zahra Technical University, and as a senior researcher at the Institute of Mountain Hazards and Environments (CAS), Chengdu, China. She also has rich professional experiences and presided over or participated in several projects: a guest researcher at the Center for Resource Management and Environment Studies (CERMES) at the University of West Indies, senior researcher at the water and wastewater company of Isfahan (Iran), and as a senior research associate at the Institute of Mountain Hazards and Environment (CAS), Chengdu, China. Dr. Artemis Motamedi has published several papers in international journals, international conferences, and book chapters.

会议信息/Information

● 会议时间和方式

2023 年 10 月 25 日 13:30-17:30 会议测试

2023 年 10 月 26 日 09:00-17:30 线上会议

请下载腾讯会议并提前注册账号；

会议测试期间参会者可随时通过会议测试 ID 和入会密码进入会议室进行测试，以确保能正常进入会议室并熟悉操作流程。

请各位嘉宾在会议当天提前进入会议室，谢谢！

● Conference Time and Way

October 25th, 2023, 13:30-17:30 (Beijing Time): Conference Testing

October 26th, 2023, 9:00-17:30 (Beijing Time): Online Conference

Please download VooV Meeting Application on your PC (The official website of VooV Meeting Application: <https://voovmeeting.com/>) and create an account in advance.

Please participants log in anytime and test whether you can join the VooV Meeting properly and familiarize yourself with the operation process during the conference testing.

Please participants join the VooV Meeting in advance on October 26th, 2023. Thanks.

● 在线会议测试入口

点击链接入会，或添加至会议列表：

✓ <https://meeting.tencent.com/dm/OQMC4iFgpQbm>

会议主题：ICED & ICWRME 2023-Conference Testing

会议时间：2023/10/25 13:30-17:30 (GMT+08:00)北京时间

#腾讯会议：255-689-005

会议密码：2023

● Online Conference Testing Website Entrance

Please download the VOOV Meeting Application and sign up an account.

✓ <https://meeting.tencent.com/dm/OQMC4iFgpQbm>

Meeting Topic: ICED & ICWRME 2023-Conference Testing

Conference Time: 2023/10/25 13:30-17:30 (GMT+08:00) Beijing Time

Conference ID: 255-689-005

Password: 2023

Copy the information, open the VOOV Meeting Application to attend the conference.

● 在线会议入口

点击链接入会，或添加至会议列表

✓ <https://meeting.tencent.com/dm/IhMIGIqapIGk>

会议主题：ICED & ICWRME-2023-Online Conference

会议时间：2023/10/26 09:00-17:30 (GMT+08:00) 北京时间

#腾讯会议：636-946-595

会议密码：2023

复制该信息，打开手机腾讯会议即可参与

● Online Conference Website Entrance

Please download the VOOV Meeting Application and sign up an account.

✓ <https://meeting.tencent.com/dm/IhMIGIqapIGk>

Meeting Topic: ICED & ICWRME 2023-Online Conference

Conference Time: 2023/10/26 09:00-17:30 (GMT+08:00) Beijing Time

Conference ID: 636-946-595

Password: 2023

Copy the information, open the VOOV Meeting Application to attend the conference.

● 会务联系方式 Contact

Email: admin@iced.ac.cn

Email: icwrmeinfo@163.com

Mobile No: +86 19137184507

ICED & ICWRME Organizing Committee

温馨提示/Kindly Reminder

● 温馨提示

各位参会人员

请发言代表注意自己的发言日期和时间，并提前作好准备。演讲时间 30 分钟。提问 5-10 分钟。为防止网络不顺畅，最好录制一份 30 分钟左右的演讲视频备用。

● Kindly Reminder

To all Chairs and Speakers

Please pay attention to the date and time of your speech and make preparation in advance. Restricted speaking time: 30 minutes of Presentation. There will be a Q&A session about 5-10 minutes in the online conference ICED&ICWRME 2023. In case the network is not very good, we would like that you may record a video of your presentation about 30 minutes.

会议日程/Schedule

ICED&ICWRME 2023 SCHEDULE

Date	Project	Beijing Time (GMT+8.00)	Schedule	TITLE	
Oct. 25	Conference Testing	13:30-17:30	Conference Testing		
Oct. 26	Keynote Speech	9:00-11:45	9:00-9:05	Host: Zoey Host: Annie	ICED & ICWRME 2023 Conference Opening Introduction
			9:05-9:10	Prof. Zhenling Liu	Speech from Conference Chairman
			9:10-9:40	Prof. Zhen Hu	Enhanced Water Purification Performance of Constructed Wetland by Using Metal Modified Biochar
			9:40-10:05	Prof. Jinsong Wu	Environmental Sustainability and Intelligence as well as General Green Technologies
			10:05-10:30	Dr. Liton Chakraborty	Environmental Injustices and Seismic Risk in Montreal and Ottawa's Built Environment
			10:30-10:55	Prof. Waheed Ullah	The Effect of Tibetan-Xizang Plateau on Asian Monsoon
			10:55-11:20	Dr. A. Sundaramanickam	Invisible Invaders: Microplastics in Coastal Environments and Marine Organisms
	11:20-11:45	Mr. Aditya Sharma	Extreme Weather Events: A Case Study of the Semi-Arid River Basin of India		
	MEAL TIME		11:45-13:30	Meal Time	

会议日程 Schedule

	Keynote Speech	13:30- 15:50	13:30-13:55	Prof. Artemis Motamedi	The Impacts of Fine Dust and Sand Storm Events on Water Quality (Case Study in Iran)
			13:55-14:10	Prof. Majid Galoie	Dam-Break Flow Modeling Using an Implicit Method
			14:10-14:35	Prof. Sasan Motaghed	Missing Earthquakes, a Missing Part in Modern Seismic Catalog Preparation
			14:35-15:00	Prof. Mojtaba Valibeigi Darvishvand	Iran's Water Crisis and Water Governance
			15:00-15:25	Dr. Md Galal Uddin	
			15:25-15:50	Dr. Hamza Ighnih	Photocatalytic degradation of RhB Dye using Hybrid Nanocomposite BiOCl@Kaolinite under Sunlight Irradiation
	Discussion		15:50--	Participants	ICED & ICWRME Closing Ceremony