

WATER, CLIMATE CHANGE, AND SUSTAINABILITY

BOOK LAUNCHING WEBINAR



5 June 2021
 (World Environment Day)



Time: 11:15 – 13:00 hrs (GMT)
[6:15PM Thailand; 5:00 PM Nepal; 7:15 EST]

Zoom Meeting

ID: 921 8689 2104 Passcode: WCAS

Zoom link:

<https://ait-ac-th.zoom.us/j/92186892104?pwd=alFWeDkwV0VPTDNMMDFsZFIBd1A1QT09>

PROGRAM AGENDA

11:00 – 11:15	Registration	Registration open 15 minutes in advance
11:15 – 11:20	Welcome Remarks	Dr. Eden Y. Woon, President, AIT
11:20 – 11:35	Key Note 'The Water-Food-Climate Change Nexus to Support Sustainability'	Prof. Stefan Uhlenbrook, Program Director for CGIAR Research Program WLE; Strategic Program Director (Water, Food & Ecosystems), IWMI
11:35 – 11:45	Book Introduction by Editors	<ul style="list-style-type: none">  Prof. Vishnu Prasad Pandey, TU  Prof. Sangam Shrestha, AIT  Dr. David Wiberg, IWIMI
11:45 – 12:00	Remarks from Special Guests	<ul style="list-style-type: none">  Prof. Shashidhar Ram Joshi, Dean of Institute of Engineering, Tribhuvan University, Nepal  Dr. Benno Boer, Chief of Natural Sciences, UNESCO Bangkok Office  Dr. Chayanis Kittasudthacheewa, Deputy Director, SEI Asia, Programme Director, SUMERNET  Dr. Roshan Raj Shrestha, Deputy Director at Bill & Melinda Gates Foundation  Dr. Linda Anne Stevenson, Head of Knowledge Management & Scientific Affairs and Deputy Head of Development & Institutional Affairs, APN
12:00 – 12:35	Key Messages from Chapters	16 Chapter Lead/Corresponding Authors
12:35 – 13:00	Discussion & Closing	Prof. Vishnu Prasad Pandey, TU

WATER, CLIMATE CHANGE AND SUSTAINABILITY CHAPTER LEAD AUTHORS

Book (online link): <https://onlinelibrary.wiley.com/doi/book/10.1002/9781119564522>

CHAPTER #	CHAPTER TITLE	LEAD/CORRESPONDING AUTHOR
1	Localizing and mainstreaming global initiatives on water, climate change and sustainable development	Dr. Vishnu Prasad Pandey , Professor (Water Resources), Institute of Engineering, Tribhuvan University, Nepal
2	A river basin approach for the coordinated implementation of water-related targets in SDGs	Dr. Binaya Raj Shivakoti, Sr. Water Resources Specialist, Institute for Global Environmental Strategies (IGES), Japan
3	Water-Energy Nexus in bio-based systems	Dr. Ajay Shah, Associate Professor, Ohio State University, USA
4	Safe-Sanitation Adaptive-Integrated Management System (SAIMS): A conceptual process tool for incorporating resilience	Dr. Peter Cookey, Senior Lecturer, UNESCO-IHE
5	Approaches and tools to assess water - climate change - sustainability nexus: A systematic review	Dr. Olusolao Ololade (Shola Ololade), Associate Professor, Center for Environmental Management, University of the Free State, South Africa
6	Rejuvenation of springs in Himalayan Region	Dr. Himanshu Kulkarni, Founder Trustee and Executive Director, ACWADAM, India
7	Enhancing water productivity through on-farm water management	Mohamamad Faiz Alam, Researcher, International Water Management Institute (IWMI), India
8	Climate action and challenges for sustainable ecosystem services: Approaches and application in California case studies	Dr. Qinqin Liu, Senior Environmental Scientist, Integrated Water Management, Department of Water Resources, CA, Canada
9	Monitoring and accountability frameworks for SDGs: The role of CSOs	Dr. Catarina Fonseca, Head of International and Innovation Program, IRC, The Hague, The Netherlands
10	Research to policy and practice: Opportunities and challenges	Dr. Ashim Das Gupta, Emeritus Professor, Water Engineering and Management, AIT (based in Australia)
11	Resilient water infrastructure for poverty reduction: Cases from Asia and Middle East	Lovlesh Sharma , Senior Coordinator for Water and Environment, National Institute of Urban Affairs; New Delhi, India
12	High efficiency irrigation technology as a single solution for multi-challenge: A case of Pakistan	Hafiz Qaisar Yasin, Deputy Director (Headquarters), Government of the Punjab Agriculture Department, Lahore, Pakistan
13	Irrigation scheduling and management for improved water productivity	Dr. Birendra KC, Civil Engineer (Irrigation & Water Resources), Aqualinc Research Ltd., New Zealand
14	Urban water security for sustainable cities in the context of climate change	Dr. Soni M. Pradhanang, Associate Professor, Department of Geosciences, University of Rhode Island, USA
15	Approach towards building climate resilient irrigation systems for food security in Nepal	Dr. Ram Chandra Khanal, Farmer Management Irrigation System Trust (FMIST), Nepal
16	A stakeholder centric tool for implementing water management strategies and enhancing water cooperation (SDG6.5) in the Lower Mekong Region	Manish Shrestha, Research Associate, Stockholm Environment Institute (SEI), Asia Regional Office, Bangkok (Currently, Hydrologist, ICIMOD)

WATER, CLIMATE CHANGE, AND SUSTAINABILITY

VISHNU PRASAD PANDEY | SANGAM SHRESTHA | DAVID WIBERG

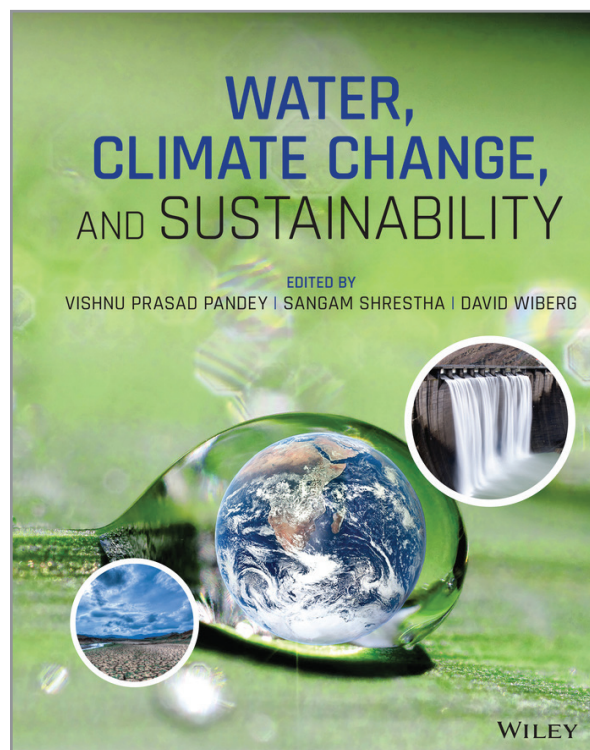
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Climate change continues to intensify existing pressures in water resources management, such as rapid population growth, land use changes, pollution, damming of rivers, and many others. Securing a reliable water supply—critical for achieving Sustainable Development Goals (SDGs)—requires understanding of the relation between finite water resources, climate variability/change, and various elements of sustainability. *Water, Climate Change, and Sustainability* is a timely and in-depth examination of the concept of sustainability as it relates to water resources management in the context of climate change risks.

Featuring contributions by global authors, this edited volume is organized into three sections: Sustainability Concepts; Sustainability Approaches, Tools, and Techniques; and Sustainability in Practice. Detailed chapters describe the linkage between water and sustainable development, highlight the development and use of new measuring and reporting methods, and discuss the implementation of sustainability concepts in various water use sectors. Topics include localizing and mainstreaming global water sustainability initiatives, resilient water infrastructure for poverty reduction, urban water security for sustainable cities, climate actions and challenges for sustainable ecosystem services, and more. This important resource:

- Reviews contemporary scientific research and practical applications in the areas of water, climate change and sustainability in different regions of the world
- Discusses future directions of research and practices in relation to expected patterns of climate changes
- Covers a wide range of concepts, theories, and perspectives of sustainable development of water resources
- Features case studies of field and modelling techniques for analyzing water resources and evaluating vulnerability, security, and associated risks
- Discusses practical applications of water resources in contexts such as food security, global health, clean energy, and climate action

Water, Climate Change, and Sustainability is an invaluable resource for policy makers water managers, researchers, and other professionals in the field, and an ideal text for graduate students in hydrogeology, climate change, geophysics, geochemistry, geography, water resources, and environmental science.



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ABOUT THE AUTHORS

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