Call for papers for a special issue of E3

on

"Water Security"

in conjunction with the "Our Future Water: Young Water Leaders Berlin Event" (Nov 7, 2018)

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1. Call for papers on "Our Future Water: Young Water Leaders Berlin Event, 2018"

Global demand for water is projected to outstrip supply by 40% in 2030 and 55% in 2050 as a result of climate change, rising population and economic growth, rapid urbanization, and increased water-energy-food nexus pressures. If the world continues on a business-as-usual approach, all water users, both human and natural, will face water insecurity, where water security is defined by the United Nations as the capacity of a population to safeguard sustainable access to adequate quantities of acceptable water for sustaining livelihoods, human well-being and socio-economic development, as well as ensuring protection against water-borne pollution and water-related disasters, and for preserving ecosystems in a climate of peace and political stability (UN-Water, 2013).

As such, water security is central to achieving security, sustainability, development and human well-being. Many factors contribute towards water security, ranging from biophysical to infrastructural, institutional, political, social and financial, most of which lie outside the realm of water. As such, achieving water security requires interdisciplinary collaboration across numerous sectors and communities, even across administrative and political boundaries, to reduce the potential for competition or even conflict over water resources (Brears, 2016).

This special issue 'Water Security' will address interdisciplinary approaches that have been taken in different geographical locations, with varying climates, incomes and lifestyles, to achieve water security. In particular, the special issue will focus on how a variety of approaches, including, but not limited to, demand management to encourage the efficient use of scarce supplies; conflict resolution mechanisms to foresee, prevent and manage conflicts between various water users; best management practices for water quality management; water technologies; and risk and vulnerability assessments to ensure the involvement of all

stakeholders in building resilience to water-related disasters, have been implemented in an attempt to achieve water security.

Cumulatively, the Water Security special edition will provide readers with knowledge on various interdisciplinary approaches being taken to achieve water security that support economic and social development goals while ensuring the protection of ecosystems in an atmosphere of peace and cooperation. The overall outcome of the special edition will be the development of best practices and lessons learnt for other geographical locations around the world seeking to implement actions to achieve water security.

2. Topic areas

In this special issue, we invite submission of review articles and research articles based on quantitative and qualitative methods, theoretical and methodological development, and case studies in all STEM and policy disciplines. Topics of interest include, but are not limited to: water resources management frameworks, water and disaster risk reduction, sustainable water resource management frameworks implemented in developing/developed countries, public health and water security, the water-food nexus, the water-energy nexus, The role of Big Data in achieving water security, water technologies, green infrastructure, climate adaptation technologies and practices, WASH, integrated urban water management, transboundary water resources management.

3. Tentative schedule for this Special Issue

Contributors with proposals for papers are encouraged to communicate with the guest editor by e-mail. The following schedule applies:

• Call for papers: November 1, 2018 – June 30, 2019.

• Authors' submission of their 'peer-review ready' manuscript to Springer via the editorial system: June 30, 2019.

• Peer review/paper revision process: July 1, 2019– October 31, 2019.

• Submission of final version of all revised papers: November 30, 2019.

• Publication of the special issue: January 2020.

4. Contributions

Researchers and practitioners in the field are invited to submit full-length papers within the proposed deadline. Paper submissions should be between 9000 and 11,000 words for comprehensive reviews, between 6000 and 8000 words for original research papers and between 4000 and 5500 words for case studies. All contributions need to be developed based on the

editorial guidelines provided in the instructions for authors of E3, which can be accessed via the website: http://www.springer.com/energy/journal/40974. Upon receipt of the completed documents, a number of independent reviews will be obtained for each document during the first round of the review/revision process. Revised, accepted manuscripts will be published in this Special Issue of E3.

5. Editorial Team

Robert C. Brears, Author of *Urban Water Security* (Wiley), *The Green Economy and the Water-Energy-Food Nexus* (Palgrave Macmilla), and *Natural Resource Management and the Circular Economy* (Palgrave Macmillan), and Editor of Climate Resilient Societies (Palgrave Macmillan). Founder of Our Future Water, Mitidaption, and Mark and Focus (rcb.chc@gmail.com)

6. References

BREARS, R. C. 2016. *Urban Water Security,* Chichester, UK; Hoboken, NJ, John Wiley & Sons.
UN-WATER 2013. Water security and the global water agenda.