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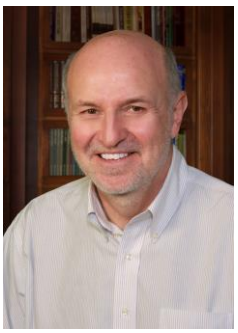

Slobodan P. Simonović, Ph.D., P.Eng.

Education

Ph.D., Engineering, University of California, Davis, USA, 1981

M.Sc., Interdisciplinary Studies, University of Belgrade, Belgrade, Yugoslavia, 1976

B.Sc., Civil Engineering, University of Belgrade, Belgrade, Yugoslavia, 1974

High recognitions

Fellow of the Canadian Academy of Engineering, 2013

Fellow of the Canadian Society of Civil Engineers, 2008

Fellow of the American Society of Civil Engineers, 2005

Fellow of the International Water Resources Association, 2000

Certification

Association of Professional Engineers of Ontario, PEO

Present positions

Professor, Department of Civil and Environmental Engineering, The University of Western Ontario, Ontario, Canada.

Research Chair, Institute for Catastrophic Risk Loss Reduction, Department of Civil and Environmental Engineering, The University of Western Ontario, Ontario, Canada.

Principal, Slobodan P. Simonovic Consulting, Ltd., London, Canada

Expertise

Subject Matter
Systems modeling; Risk and reliability; Water resources and environmental systems analysis; Computer-based decision support systems development; Water resources education and training.
Topical Area
Flood control; Climate change; Reservoirs; Hydropower energy; Operational hydrology.

Consulting

Science Applications International Corporation, USA; International Joint Commission, Canada, USA; Canadian International Development Agency, Canada; S-N-C Lavalin Eng., Montreal, Canada; Golder, Calgary, Canada; Delcan Corporation, Ottawa, Canada; UNESCO, Paris, France; Insurance Bureau of Canada, Toronto, Canada; and many other organizations.

Research

Close to 70 research grants and contracts totaling more than $7.5 million (in Canada since 1986).

Current research

Systems Dynamics Simulation for Integrated Water Resources Management (NSERC discovery grant, 2010-2015)

Coastal Cities at Risk (CCaR): Building Adaptive Capacity for Managing Climate Change in Coastal Megacities (IDRC - International Research Initiative on Adaptation to Climate Change, 2011 – 2016)

Simple proxies for risk analysis and natural hazard estimation (research Grant, MITACS and Property and Casualty Insurance Compensation Corporation, 2013)

Computerized Tool for the Development of Intensity-Duration-Frequency Curves under Climate Change, (Evolving Opportunities for Knowledge Application Grant, the Canadian Water Network, 2013 – 2015)

Integrated Water Resources Management under Global Climate Change, (Collaborative Research Grant, Western University – China Institute of Water Resources and Hydropower Research, 2014 - 2105)

Teaching

Undergraduate courses
Water Resources Systems; Water Resources Management; Management of Natural Disasters.

Graduate courses
Advanced Water Resources Systems; Advanced Civil Engineering Systems.

Training courses
Hydropower Development; Water Resources Management; Expert Systems in Water Resources; Water Resources Multi-Objective Analysis; Systems Approach to Sustainable Water Management; Introduction to System Dynamics.

Research training

	MESc.	Ph.D.	Post.Doc.
Number of graduate degrees conferred	36	17	14
Number of graduate students currently supervised	2	5	2

Professional activities

Member of the editorial board *Water Resources Management Journal; Journal of Flood Risk Management;*

Reviewer of papers for more than 30 professional Journals; Participant in the organization of more than 90 professional conferences.

Selected professional duties (last two years)
Canadian National Representative, International Commission on Water Resources Systems (ICWRS), International Association of Hydrological
Member, Task Group on Disaster Risk Management, World Federation of Engineering Organizations
Chairman, Ad hoc committee of the International Conference on Flood Management
Member, Technical Committee on Modelling and Control of Environmental Systems, International Federation of Automatic Control (IFAC)
Nominated and recognized as the Diplomate, Water Resources Engineer by the American Academy of Water Resources Engineers
Member, Advisory Committee on the Environment, City of London, Ontario
Honorary member of the Milutin Milankovic Society, Belgrade, Serbia
Affiliate Member, The Wind Engineering, Energy and Environment (WindEEE) Research Institute, Faculty of Engineering, The University of Western Ontario.

Major awards

American Society of Civil Engineers (ASCE) award for the most outstanding paper of 1992 published in the Journal of Professional Issues in Engineering Education and Practice, 1993.

Graduate Students' Association award for excellence in graduate teaching, The University of Manitoba, 1995.

Faculty of Engineering award for superior academic performance, The University of Manitoba, 1995.

International Water Resources Association (IWRA) award for the best paper of 1996 published in the Water International Journal, 1997.

Outreach award, The University of Manitoba, 1997.

Japan Society of Hydrology and Water Resources, the International Award for significant contribution to progress in the filed of hydrology and water resources, 2001.

Canadian Consulting Engineering Award of Excellence, Category: International – for 'Sihu Basin Flood Management', 2003.

CSCE Camille A. Dagenais Award for outstanding contribution to the development and practice of hydrotechnical engineering in Canada, 2005.

American Society of Civil Engineers Ven Te Chow Award for lifetime achievements in the field of hydrologic engineering and significant contributions in research, education and practice, 2013.

Selected publications

(From over 450 books, book chapters, monographs, special issues, journal articles, conference proceedings, and technical reports)

Simonovic, S.P., **Managing Water Resources: Methods and Tools for a Systems Approach,** UNESCO, Paris and Earthscan James & James, London, pp.576, ISBN 978-1-84407-554-6, 2009.

Simonovic, S.P., **Systems Approach to Management of Disasters: Methods and Applications,** John Wiley & Sons, New York, in print (November), pp.310, 2011. (Translated and published in Chinese language, Science Press, 2013)

Simonovic, S.P., **Floods in a Changing Climate: Risk Management**, Cambridge University Press, UK, pp.181, ISBN:978-1-107-01874-7, 2012.

Simonovic, S.P., and A. Peck, (2013) "Dynamic Resilience to Climate Change Caused Natural Disasters in Coastal Megacities - Quantification Framework", *British Journal of Environment and Climate Change*, 3(3): 378-401.

Simonovic, S.P., (2010) "A new Methodology for the Assessment of Climate Change Impacts on the Watershed Scale", *Current Science,* 98(8):1047-1055.

Simonovic, S., (2009) "A New Method for Spatial and Temporal Analysis of Risk in Water Resources Management", *Journal of Hydroinformatics*, 11(3-4):320-329.

Simonovic, S.P., and R.Verma (2008) "A New Methodology for Water Resources Multicriteria Decision Making Under Uncertainty", *Physics and Chemistry of the Earth,* 33:322-329.

Simonovic, S.P., and S. Ahmad, (2007) "A New Method for Spatial Fuzzy Reliability Analysis of Risk in Water Resources Engineering Management", *Open Civil Engineering Journal,* 1:1-12, (http://www.bentham.org/open/tociej/openaccess2.htm).

Simonovic, S.P., and E.G.R. Davies (2006), "Are we modeling impacts of climate change properly?", invited commentary, *Hydrological Processes Journal,* 20, pp.431-433.

Simonovic, S.P., and Nirupama, (2005) "A spatial multi-objective decision making under uncertainty for water resources management", *Journal of Hydroinformatics,* 7(2):117-133.

Simonovic, S.P., and V. Rajasekaram, (2004) “Integrated Analyses of Canada’s Water Resources: A System Dynamics Model “, *Canadian Water Resources Journal,* 29(4):223-250.

Simonovic, S.P., (2002) “World Water Dynamics: Global Modeling of Water Resources”, *Journal of Environmental Management,* 66(3):249-267.

Simonovic, S.P., (2000) “Last Resort Algorithms for Optimization of Water Resources Systems”, *CORS - SCRO (Canadian Operational Research Society) Bulletin,* Vol.34, No.1, 9-19.

Simonovic, S.P., and H. Fahmy, (1999) “A New Modeling Approach for Water Resources Policy Analysis”, *Water Resources Research,* Vol.35, No.1, 295-304.

Simonovic, S.P., D.H., Burn, and B.J. Lence, (1997) "Practical Sustainability Criteria for Decision Making", *International Journal of Sustainable Development and World Ecology,* Vol.4, No.4, 231-244.

Simonovic, S.P., (1996) “Decision Support Systems For Sustainable Management Of Water Resources 1. General Principles and 2. Case Studies“, *Water International*, Vol.21, No.4, 223-244 **(award for the best paper in 1996)**.

Simonovic, S.P. (1992), "Reservoir Systems Analysis: Closing Gap between Theory and Practice, *ASCE Water Resources Planning and Management Division*, Vol. 118, No. 3, pp. 262-280.

Simonovic, S.P. (1990), "An Expert System for the Selection of a Suitable Method for Flow Measurement in Open Channels", *Journal of Hydrology*, 112, pp. 237-256.

Simonovic, S.P. and M.A. Marino (1980), "Reliability Programming in Reservoir Management, I. Single Multi-Purpose Reservoir", *Water Resources Research*, Vol. 16, No. 5, pp. 844-848.

February 13, 2014