

Global Water Security Symposium

Celebrating 70 years of water and environmental health research and teaching at Newcastle University

23 - 24 January, 2020

Frederick Douglass Centre, Newcastle University, Newcastle Helix

Programme

Supported by:





Institute of Water

ARUP

	Thursday 23 January
09:00	Registration and refreshments
	Session 1. Chair: Dr Claire Walsh, Newcastle University
10:00	Opening address
	Professor Chris Day, Vice Chancellor and President, Newcastle University
10:10	A drop of local history, from Dr John Snow to today
	Professors Tom Curtis and Richard Dawson, Newcastle University
10:30	Plenary 1
	Water Resource Engineering: 5 things that have changed and 5 things that haven't in the last 30 years Jeremy Benn, JBA Consulting Engineers & Scientists, UK
	<i>Resource Recovery from Wastewater Treatment Plants</i> Professor Mark van Loosdrecht, Delft University of Technology, Netherlands
	Just add water – a platform for the NE to become famous again? Nigel Watson, Northumbrian Water Group, UK
	Discussion
11:50	Session 2. Parallel Sessions. Refreshments available
	Water and the circular economy
	Professor Arnold Tukker, Leiden University, The Netherlands Fiona Townend, Procter and Gamble, UK Martin Shouler, ARUP, UK Dr Majed Khalem, Newcastle University, UK Dr Oliver Heidrich, Newcastle University, UK
	Legacy and emerging contaminants in the water cycle
	Dr Manish Kumar, IIT Gandhinagar, India Dr Adam Jarvis, Newcastle University, UK Dr Anke Neumann, Newcastle University, UK Emmanuel Johnson, Newcastle University, UK
	Water engineering for, and with, nature
	Minni Jain, The Flow Partnership, UK Mike Norbury, Mersey Forest, UK

	Ensuring access to sanitation for all
	Dr Shaaban Mgana, Ardhi University, Tanzania Dr Muhammad Nauman Ahmad, Agricultural University Peshawar, Pakistan Dr Olayinka Osuolale, Elizade University, Nigeria Dr Sara Waring, University of Liverpool, UK Dr Shadrack Sabai, Ardhi University, Tanzania Dr David Werner, Newcastle University, UK
13:20	Lunch
	Session 3. Chair: Dr Anke Neumann, Newcastle University
14:15	Plenary 2
	Triggering Transformational Change on Water Andrew Roby, Department for International Development
	Integrated Water Resources Management in South Africa: applying the adaptive paradigm Professor Tally Palmor, University of Phodos, South Africa
	Professor Tally Palmer, University of Rhodes, South Africa
	Interdisciplinary water research: 30 years of experience on socio-technical innovations in water and sanitation Professor Miguel Peña-Varón, University del Valle, Colombia
	Discussion
15:35	Session 4. Parallel Sessions. Refreshments available
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15:35	Socio-hydrology: water and people Dr Anna Mdee, University of Leeds, UK Dr Cat Button, Newcastle University, UK Dr Eleanor Starkey, Newcastle University, UK Dr Geoff Parkin, Newcastle University, UK Rational engineering of biological treatment Professor Cindy Smith, University of Glasgow, UK Dr Marta Vignola, University of Glasgow, UK Dr Russell Davenport, Newcastle University, UK

Water in a changing climate

Professor Justin Sheffield, University of Southampton, UK Katy Peat, Environment Agency, UK Chris Parker, WSP, UK Professor Hayley Fowler, Newcastle University, UK

Session 5. Chair: Luke Stanbridge (Z-tech)

17:00 *Plenary: Water careers*

Richard Warneford, Northumbrian Water Group Rose Shisler, Anglian Water Jonathon Banks, Northumbrian Water Group Dr Alex Nicholson, ARUP Sue Petch, Drinking Water Quality Regulator for Scotland

17:30 Drinks reception: career tables, posters, exhibition

- 18:30 Dinner: posters, exhibition
- 20:00 Close

Friday 24 January

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	Session 6. Chair: Professor Chris Kilsby, Newcastle University
09:00	Plenary 3
	Towards data-driven water management
	Professor Dragan Savic, KWR Water Research Institute, Netherlands
	The long journey from balancing water supply and demand to resilient water resource systems
	Professor Jim Hall, University of Oxford, UK
	Water Resilience of Cities – Leading Edge Thinking Dr Mark Fletcher, ARUP, UK
	A supply chain view: Industrial-Academic collaboration in the water sector Adam Cartwright, Siemens, UK
	Discussion
	Session 7. Parallel Sessions. Refreshments available
10:40	Big water data + digitisation
	Professor Dragan Savic, KWR Water Research Institute, The Netherlands
	Dr Gemma Coxon, University of Bristol, UK
	Dr Muhammad Shahzad, Northumbria University, UK
	Dr Elizabeth Lewis, Newcastle University, UK
	Dr Luke Smith, Newcastle University, UK
	Water Security risks, challenges and opportunities
	Professor Ashvani Gosain, IIT Delhi, India
	Professor Shuaib Lwasa, Makerere University, Uganda
	Kalyan Pantha, Group for Rural Infrastructure Development, Nepal
	Professor David Hulme, University of Manchester, UK Dr Nathan Forsythe, Newcastle University, UK
	Dr Claire Walsh, Newcastle University, UK
	Leak-free and safe water distribution
	Jo Parker, Pipelines Industries Guild
	Professor Joby Boxall, University of Sheffield, UK
	Professor Pranab Mohapatra, IIT Gandhinagar, UK
	Professor David Werner, Newcastle University, UK
	Professor Catherine Biggs, Newcastle University, UK

	Wastewater as a resource Professor Zhiyong (Jason) Ren, Princeton University, USA Professor John Lloyd, University of Manchester, UK Dr Zeyi Dai, Aqua Enviro, UK Dr Eileen Yu, Newcastle University, UK Dr Elizabeth Heidrich, Newcastle University, UK Dr Matthew Wade, Newcastle University, UK Dr Jan Dolfing, Newcastle University, UK
12:10	Lunch
	Session 8. Chair: Professor Richard Dawson, Newcastle University
13:00	Reports from the parallel sessions (3 minutes, 3 points)
13:40	Closing address and remarks
	Water Journey: From Engineering to Ecosophy
	Professor Zaini Ujang, Former Vice-Chancellor UTM and Secretary General, Ministry of Energy, Green Technology Malaysian, Malaysia
	Closing remarks
	Professor David Werner, Newcastle University, UK
14:15	Close

14.30 National Green Infrastructure Facility Tours (optional)

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