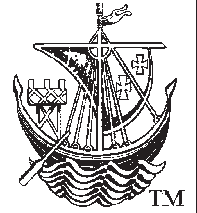
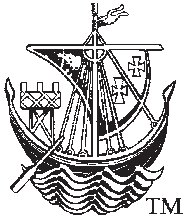


CONFERENCE PROGRAMME



NOTES TO CHAIRS AND PRESENTERS

Chairs must be in their respective rooms 10 minutes before the start of their session to meet with the presenting authors.

Authors must meet with the Chair of their session 10 minutes before the start of the session.

Authors must keep strictly to the time allocated for their presentation to ensure the smooth running of the programme.

This programme is subject to last-minute alterations, please refer to the conference noticeboard for the most up-to-date information.

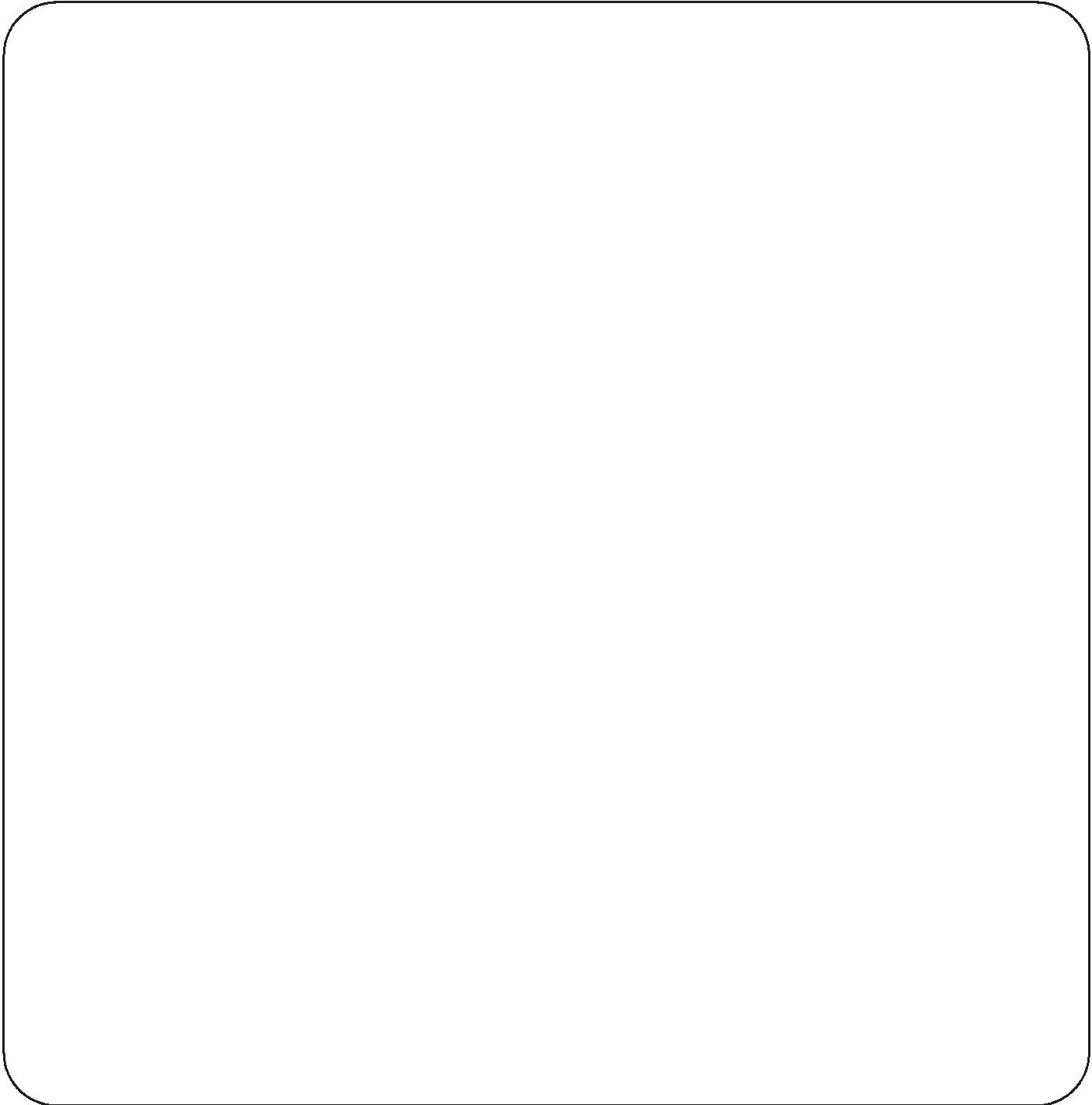
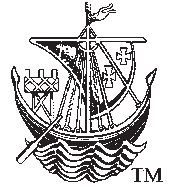
7–9 May 2019
Alicante, Spain

Organised by:
Wessex Institute, UK
University of Alicante, Spain

Supported by:
WIT Transactions on Ecology and the Environment
International Journal of Sustainable Development and Planning



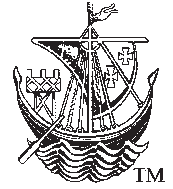
Water Resources Management 2019
7–9 May 2019, Alicante, Spain



CONFERENCE PROGRAMME



Water Resources Management 2019
7–9 May 2019, Alicante, Spain



Tuesday, 7th May 2019

08.00 Registration

09.00 Opening Address by Conference Chairs

Session 1

Session Chair: S. Mambretti

09.30 **Invited:**
Priority water uses from 1998 to 2017 for urban, suburban and rural residents of the Pacific Northwest, USA
R.L. Mahler

10.00 Comparison of one- and two- dimensional flood modeling in urban environments
S. Dhungel, M.E. Barber & R.L. Mahler

Session 2: Water Management and Planning

Session Chair: R.L. Mahler

10.55 **Invited:**
An integrated model to manage water scarcity in highly complex systems of South-East Spain
A. Jodar-Abellan, P. Fernandez-Aracil & J. Melgarejo Moreno

11.25 Internalization analysis of environmental costs of wastewater treatment in the Valencian community
M. Garcia Lopez, B. Montano Sanz & J. Melgarejo Moreno

12.00 Rights and accessibility of water applicable to territory governance in Brazil
D.F. Cansi & J. Melgarejo Moreno

LUNCH

Tuesday, 7th May 2019

Session 3: Water Quality and Pollutant Control

Session Chair: Z. Boukalova

- 14.00 Cost effective nitrogen removal - Novel control strategy
A. Nawaz, A. Singh Arora, C. Mun Yun, H. Cho & M. Lee
- 14.25 Treatment of pesticides present in water by powder activated carbon
A. Aldeguer, D. Prats, P.J. Varo & I. Sentana
- 14.50 Bioadsorption of Cr (VI) in aqueous solutions by Pseudomonas koreensis immobilized in alginate beads
S.G. Garcia Torres, S.C. Hernandez & L. Diaz Jimenez

Session 4: Water Management and Planning

Session Chair: P. Fernandez-Aracil

- 15.45 Development of activated hydrochar from paddy straw for nutrient adsorption and crop water management
G.A. Ganga Kavindi & Z. Lei
- 16.10 Sensor placement strategies for contamination identification in water distribution networks: a review
O.S. Adedaja, Y. Hamam, K. Baset & R. Sadiku
- 16.35 Understanding the role of environmental governance networks in watershed governance and management
J. Stewart & M.E. Tyler

END OF DAY 1

Wednesday, 8th May 2019

Session 5

Session Chair: M. Barber

- 09.00 Hydrochemical and geological correlation to establish the salinity of groundwater of the coastal aquifer of the Manglaralto-Ecuador river basin
F. Morante, F.J. Montalvan, P. Carrion, G. Herrera, J. Heredia, F.J. Elorza, D. Pilco & J. Solorzano
- 09.25 Economic issues in the Integrated Management of Water Resources Model (IWRM) and the management unit in a territory affected by several basins: The case of the Spanish Southeast
T. Torregrosa & M. Sevilla
- 09.50 Water-Food-Energy Nexus consumption based regulation
Y. Teitelbaum, A. Yakirevich, A. Gross & S. Sorek

Session 6

Session Chair: A. Jodar-Abellan

Part 1: Wastewater Treatment

- 10.45 Are advanced wastewater treatment technologies a solution for total removal of microplastics in treated effluents?
S. Olmos, J. Lopez-Castellanos & J. Bayo
- 11.10 Machine Learning for wastewater treatment plant management
T. Mercier, A. Dembele, T. Denoeux & P. Blanc

Part 2: Climate Change

- 11.35 Dam operation under changing climate: Analysing water availability and hydropower production from Murum Dam in Sarawak
K. Yusof, M. Hussain & M. Raza UI Mustafa

Additional Presentation:

- 12.00 Wise water resources management under the increasing refugee's number in the third poorest water resources country (Jordan)
T. Odeh & A.H. Mohammad

LUNCH

Wednesday, 8th May 2019

JOINT SESSION WITH RIVER BASIN MANAGEMENT 2019

Session 7

Session Chair: S. Mambretti

- 14.00 **Invited:**
The impact of agriculture on the waters of the Idaho portion of the Snake River Basin, USA
R.L. Mahler
- 14.30 Groundwater: The real changes in the policies on groundwaters
D.F. Cansi & J. Melgarejo Moreno
- 14.55 Water quality trading: A conceptual framework for incorporating ancillary benefits
J-Y. Su, M.E. Barber & R.L. Mahler

Session 8

Session Chair: R.L. Mahler

- 15.50 Assessing social perception of emerging pollutants in the South-East Spain
M. de los Angeles Bernal Romero del Hombre Bueno, P. Aznar-Crespo,
A. Jodar-Abellan, J. Melgarejo Moreno & D. Prats
- 16.15 "The stolen space": A history of channelization, reduction of riverine areas
and related management issues. The lower Scrivia River case study
(NW Italy)
A. Mandarino, M. Maerker & M. Firpo
- 16.40 Assessment of ecological potential of HMWB in Basilicata Region (Italy) –
Agri River Basin
F. Arbia, L. Di Giuseppe, R. Giampietro, M. Greco, P. Mauro, G. Martino,
A. Montella, G. Mussuto, E. Napoli & A. Smaldone

END OF DAY 2

CONFERENCE DINNER—Please check the notice board or ask Conference Coordinator for more information

Thursday, 9th May 2019

Session 9: Water and the Community

Session Chair: P. Fernandez-Aracil

Invited:

- 09.30 Constructed wetlands and their implementation on private and public land in Kathmandu Valley, Nepal
Z. Boukalova, J. Tesitel & B.D. Gurung
- 10.00 Impacts of sustained public education and improvised source protection on sustainable water resources in the developing world
Y.D. Salami
- 10.25 Fostering sustainable development by empowering indigenous abilities: The border zone case of rural South Lebanon
G. Gharios

Session 10: Water and the Community

Session Chair: S. Mambretti

- 11.20 Rooftop rainwater harvesting towards alleviating water shortages at the household level
I. Alameddine, A. Majzoub, M. A. Najm & M. El-Fadel
- 11.45 The influence of residential water tank on water consumption: A case study from Palmas, Tocantins, Brazil
D. Bonazzi Sodek, J.G. Dalfre Filho, A.L. Sotero Salustiano Martim
- Additional Presentations:
- 12.10 Ex post evaluation of construction of a new desalination plant and enlargement of an existing desalination plant in Aguilas -Murcia- (Spain)
A. Ortuno Padilla, M. del Mar Moreno & J. Casares
- 12.35 Factors of uncertainty in the integrated management of water resources: The case of water reuse
P. Aznar-Crespo, A. Aledo & J. Melgarejo

CLOSURE OF WATER RESOURCES MANAGEMENT 2019

We hope you have enjoyed the conference and look forward to seeing you at the next meeting in the series, have a safe and pleasant journey home.

If you are not immediately leaving Alicante, we would be pleased if you could join the River Basin Management 2019 conference for a technical excursion during the afternoon, details on the next page.