

International Commission on Surface Water (ICSW), IAHS Activities Report June 2017

1. Commission Officers

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2. Activities 2015 - 2016

2.1 Organizing Conference

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2.2 Convening/Co-organizing workshops and symposium

- Convener: W7 Extreme events: links between science and practice. 10-14 July 2017, Port Elizabeth, South Africa.
- Convener: W3 Modelling hydrological processes for prediction under change. 10-14 July 2017, Port Elizabeth, South Africa.
- Convener: S2 Water quality and sediment transport issues in surface water. 10-14 July 2017, Port Elizabeth, South Africa.
- Assisted in organizing workshop on Flood estimation in the FloodQ project. Held in Trondheim, Norway, 23-24 May .2016.
- Organize the first International Conference on the Hydrology of African Large river basins, 26-30th October 2015, Hammamet, Tunisia.
- Organize the second International Conference on the Hydrology of African Large river basins, 26th-28th November 2016, Dakar, Senegal.
- Organize training and workshop on SWAT model together with the Eco&Sols and GET Laboratories in France, 1-3 Dec, 2016, Dakar Senegal.
- Hydroeco17: – 6th International Multidisciplinary Conference on Hydrology and Ecology, Birmingham, 18-24 June 2017
<http://www.birmingham.ac.uk/generic/hydroeco2017/index.aspx>

2.3 Support scientific meetings as member of Scientific Committee

- European Geosciences Union, General assembly **2017**, 23-28. April, Vienna, Austria.
- The Third International Conference, Water Across Time in Engineering Research, 23-25 June **2016**, Constanta, Romania.

- The Fourth National Flood Symposium, 23-25 November **2016**, Rize, Turkey.
- The Second IWA Regional Symposium on Water, wastewater and Environment, 22-24 March **2017**, Cesme, Izmir, Turkey.
- The Third International Conference, Water Across Time in Engineering Research, 23-25 June **2016**, Constanta, Romania.
- The Fourth National Flood Symposium, 23-25 November **2016**, Rize, Turkey.
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2.4 Participation to Conferences

- XXXV Annual National Meeting of Hydraulics and Hydraulic works, 14-16 September **2016**, Bologna (Italy).
- Skaugen, T., 2016: SnowHow –the project. Oral Presentation at COST1404, HarmoSnow, MC meeting, Granada, Spain, 2-4 November, **2016**.
- Luijting, H, D.V. Schuler and T. Skaugen. Regional Snow Modelling in Norway with SURFEX/Crocus. Oral presentation at SURFEX Users Workshop, Meteo-France, February 27- 1. March, Toulouse, France. **2017**.
- Skaugen, T., T. Saloranta, K. Muller, K. Melvold, H. Luijting, D.V. Schuler and S. Kolberg. Comparison of operational snow models in NORWAY, SnowHow RT2. Poster presentation at LATICE, annual meeting 2017, Sundvollen 15-16 March, **2017**.
- Skaugen, T. and D. Lawrence, **2017**. The linear reservoir model: conceptual or physically based? Oral presentation at European Geosciences Union, General assembly 2017, 23-28. April, Vienna, Austria.
- Boje, S., T. Skaugen, K. Møen and S. Myrabø, 2017. Groundwater modelling in conceptual hydrological models- introducing space. Poster presentation at European Geosciences Union, General assembly **2017**, 23-28. April, Vienna, Austria.
- The Third International Conference, Water Across Time in Engineering Research, 23-25 June **2016**, Constanta, Romania.
- The Fourth National Flood Symposium, 23-25 November **2016**, Rize, Turkey
- The Second IWA Regional Symposium on Water, wastewater and Environment, 22-24 March **2017**, Cesme, Izmir, Turkey.
- 2nd International Conference on African Large River Basins Hydrology, Dakar, Senegal, 26-30 Nov. **2016**.
- 7th sino-swiss symposium on natural disaster management, Beijing, China. 10 Aug, **2016**.

2.5 Supported various publications

- Caloiero T, Sirangelo T, Coscarelli R, Ferrari E. An Analysis of the Occurrence Probabilities of Wet and Dry Periods through a Stochastic Monthly Rainfall Model. Water, 8(39), 1-21, **2016**.
- Caloiero T, Coscarelli R, Ferrari E, Sirangelo B. Trends in the daily precipitation categories of Calabria (southern Italy). Procedia Engineering, 162, 32-38, **2016**.

- Sirangelo B, Caloiero T, Coscarelli R, Ferrari E. Stochastic analysis of long dry spells in Calabria (Southern Italy). *Theoretical and Applied Climatology*, 127, 711-724, **2017**.
- Skaugen, T. and Weltzien, I. H., 2016. A model for the spatial distribution of snow water equivalent parameterised from the spatial variability of precipitation, *The Cryosphere*. 10, 1947-1963, doi:10.5194/tc-10_1947_2016.
- Skaugen, T. and Z. Mengistu, 2016. Estimating catchment scale groundwater dynamics from recession analysis- enhanced constraining of hydrological models. *Hydrol. Earth. Syst. Sci.* 20, 4963-4981, doi: 10.5194/hess-20-4963-2016.
- Vaheddoost et al., Prediction of Water Level using Monthly Lagged Data in Lake Urmia, Iran, *Water Resources Management*, 30(13), 4951-4967, **2016**.
- McMillan et al., Panta Rhei 2013–2015: global perspectives on hydrology, society and change, *Hydrol. Sci. J.*, 61(7), 1174-1191, **2016**.
- Ceola et al., Adaptation of water resources systems to changing society and environment: a statement by the International Association of Hydrological Sciences, *Hydrol. Sci. J.*, 61(16), 2803-2817, **2016**.
- Safari et al., Artificial neural network and regression models for flow velocity at sediment incipient deposition, *Journal of Hydrology*, 541, 1420-1429, **2016**.
- Aksoy et al., Rainfall-runoff model considering microtopography simulated in a laboratory erosion flume, *Water Resources Management*, 30(15), 5609-5324, **2016**.
- Alsdorf, D., Beighley, E., Laraque, A., Lee, H., Tshimanga, R., O’Loughlin, F., Mahe, G., Dinga, B., Moukandi, G., Spencer, R.G.M., Opportunities for Hydrologic Research in the Congo Basin. *Reviews of Geophysics*, 54, 2, 378-409, **2016**.
- Aksoy H, Eris E, Tayfur G, Empirical sediment transport models based on indoor rainfall simulator and erosion flume experimental data, *Land Degradation and Development*, 28(4), 1320-1328, **2017**.
- Vaheddoost B, Aksoy H, Structural characteristics of annual precipitation in Lake Urmia basin, *Theoretical and Applied Climatology*, 128(3-4), 919-932, **2017**.
- Safari et al., Non-deposition self-cleansing design criteria for drainage systems, *Journal of Hydro-environment Research*, 14, 76-84, **2017**.

3. Future Activities

- Organising international workshop on snow modelling at Finse, Norway, **12-14 October, 2017**. “Cool models for a warmer climate”.
- Co-organising the 8th international conference of FRIEND Programme, to be held in China in **Nov 2018**.
- Participation to the organization of the International Conference on “Water resources Quality and Uses in Central and Eastern Africa: The Impacts over Ecosystems and Health”, to be held in Bangui, Rep. of Central Africa, **12-14 Dec 2017**.
- 3rd International Conference on African Large River Basins Hydrology, Algiers, Algeria, 6-9 May.
- International conference on Water resources Quality and Uses in Central and Eastern Africa: The Impacts over Ecosystems and Health, 12-17th December 2017, Bangui, Rep. of Central Africa.

- Training sessions: using radar data in hydrology; SWAT model application to ecohydrology; ADCP measurement in large rivers; journal indexation and bibliometry, to be held during the International conference on Water resources Quality and Uses in Central and Eastern Africa: The Impacts over Ecosystems and Health, 12-17th December 2017, Bangui, Rep. of Central Africa.
- Since 2014, founding member of the IAHS Mountain Hydrology Working Group with various activities planned – David Hannah with Shreedar Maskey.
- University of Birmingham established the first UNESCO Chair in Water Science in November 2016. The University of Birmingham has been invited by UNESCO's Director General to join its prestigious global universities network and establish the first ever UNESCO Chair in Water Science. Through the accolade, the University of Birmingham will facilitate inter-disciplinary research, education and awareness raising to tackle water scarcity around the world.
<https://www.unesco.org.uk/unesco-chair-in-water-science-university-of-birmingham/>