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# Virtual Symposium Agenda

## Management of Extreme Events in Lakes and Catchments

### 14-15 October 2020

#### Day I – 14 October 2020 at 9:00 (UTC+1)

##### Session 1: Impacts of Extreme Events in Aquatic Systems under Future Climatic Conditions –

Chair: Maggie Armstrong

09:00 – 09:05: Welcome and introduction– Prof. Eleanor Jennings, DkIT, Ireland

09:05 – 9:25: Live keynote lecture “*Forecasting lake water quality during extreme events across time-scales*” – Dr Rafael Marcé, ICRA, Spain

09:25 - 09:30: Question and Answer session with the keynote speaker

09:30 – 10:30: Pre-recorded talks ([Ask questions to speakers](#)) ([Watch talks](#))

09:30 – 09:45: “*Impacts of climate change on lake surface heat fluxes. A global sensitivity analysis*” – Ana Ayala, UU, Sweden

09:45 – 10:00: “*Modelling the effect of storms on thermal structure, nutrient distribution, and phytoplankton growth*” – Jorrit Mesman, UG, Switzerland

10:00 – 10:15: “*Numerical modeling of the role of advection fluxes in the DO diel variations for estimating whole-lake metabolism*” – Nasime Janatian, EMU, Estonia

10:15 - 10:30: “*The bright side of brownification, and the dark side of light*” – Truls Hansson, FV-Berlin, Germany

10:30 – 10:50: Question and Answer session with the keynote and oral speakers (20 min)

10:50 – 11:00: Break

##### Session 2: Exploring Lake Ecosystem Resilience to Extreme Events – Chair: Hares Khan

11:00 – 11:20: Live keynote lecture “*Lakes under climate change: trends and extremes*” – Prof. Rita Adrian, FV-Berlin, Germany

11:20 – 11:25: Question and Answer session with the keynote speaker

11:25 – 12:10: Pre-recorded talks ([Ask questions to speakers](#)) ([Watch talks](#))

11:25 – 11:40: “*Impacts of Extreme Weather Events on Bacterial Community Composition of a Temperate Humic Lake*” – Alexa Hoke, DkIT, Ireland

11:40 – 11:55: “*Metrics of Recovery for Understanding Additive Effect of Perturbations into the Microbial Community Suffering Eutrophication*” – Julio Stelzer, UG, Switzerland

11:55 – 12:10: “*The determination of critical thresholds for lake ecosystem resilience from long high frequency data*” – Michael Thayne, FV-Berlin, Germany

12:10 – 12:30: Question and Answer session with the keynote and oral speakers (20 min)

## **Day II – 15 October 2020 at 9:00 (UTC+1)**

### **Session 3: Using High Frequency Monitoring to Explore Extreme Events in Aquatic Systems – Chair: Jorrit Mesman**

09:00 – 09:05: Welcome and introduction – Dr Gosia Golub, DkIT, Ireland

09:05 – 09:25: Live keynote lecture “*Using Automated High-Frequency Monitoring to Explore Episodic and Extreme Events in Aquatic Ecosystem*” – Dr Alo Laas, EMU, Estonia

09:25 – 09:30: Question and Answer session with the keynote speaker

09:30 – 10:15: Pre-recorded talks ([Ask questions to speakers](#)) ([Watch talks](#))

09:30 – 09:45: “*Calcite precipitation, a major driver of carbon fluxes in lakes and reservoirs?*” – Hares Khan, UB, Spain

09:45 – 10:00: “*Extreme weather-related events rarely coincide with extreme lake mixing events*” – Harriet Wilson, DkIT, Ireland

10:00 – 10:15: “*High-Frequency sensor measurements supported modelling instream nitrogen uptake at extreme summer low flow*” – Dr Jingshui Huang, UFZ-Magdeburg, Germany

10:15 – 10:35: Question and Answer session with the keynote and oral speakers

10:35 – 11:00: Break

### **Session 4: Informing the Protection of Lake Ecosystem Services from the Impacts of Extreme Events – Chair: Harriet Wilson**

11:00 – 11:20: Live keynote lecture “*Bridging the gap between science and management in lakes under extreme events*” – Dr Lisette de Senerpont Domis, NIOO-KNAW, the Netherlands

11:20 – 11:25: Question and Answer session with the keynote speaker

11:25 – 12:10: Pre-recorded talks ([Ask questions to speakers](#)) ([Watch talks](#))

11:25 – 11:40: “*Intensity of wastewater treatment upstream a reservoir defines the resistance of its water quality to extreme climatic events*” – Elias Munthali, ICRA, Spain

11:40 – 11:55: “*A modelling approach to ecosystem service provisioning in lakes under extreme climatic events*” – Maggie Armstrong, NIOO-KNAW, the Netherlands

11:55 – 12:10: “*Effectiveness of phosphorus control under extreme heatwaves: implications for sediment nutrient release and greenhouse gasses emission*” – Qing Zhan, NIOO-KNAW, the Netherlands

12:10 – 12:30: Question and Answer session with the keynote and oral speakers

12:30 – 12:35: Closing remarks – Prof. Eleanor Jennings, DkIT, Ireland