

AKTRU2019 Symposium, Manzherok, July 8-10, 2019

Oral Sessions

July 8, Morning Session: Glaciers

Chairs: Lyudmila Borilo and Roman Raikin

Greetings and Introductory Remarks

Coffee break

Olga Solomina, Institute of Geography Russian Academy of Sciences, Moscow, Russia, *Mountain glacier fluctuations in the Holocene – 30 min*

Valery Zemtsov, National Research Tomsk State University, Tomsk, Russia, *Current State and Dynamics of the Aktru Glaciers (Altai Mountains, Russia) over the Period of Instrumental Observations- 30 min*

July 8: Afternoon session: Plants and Insects

Chairs: Polina Gudkova and Alexey Solodovnikov

Darya Bobrova and Polina Gudkova, Altai State University, Barnaul, Russia, *Contribution to the Flora of EuroAsian Continent: Vascular Plant Species from Altai Mountains Region – 45 min*

Mary Barkworth, Utah State University, Logan, Utah, USA, *Extending the Botanical Infrastructure – 20 min*

Marina Olontseva, National Research Tomsk State University, Tomsk, Russia, *Use of MaxEnt in plant conservation – 20 min*

Coffee break

Maxim Vinarski, St Petersburg State University, St Petersburg, Russia, *Macroecology of Animal Parasitism – 30 min*

Alexey Solodovnikov, University of Copenhagen, Copenhagen, Denmark, *Rove Beetles (Coleoptera: Staphylinidae) and Similarly Mega-diverse Insects as Key Models for Understanding Earth Biota – 30 min*

July 9, Morning Session: Water and Soil

Chairs: Olga Solomina and Valery Zemtsov

Hiroshi Matsuyama, Tokyo Metropolitan University, Tokyo, Japan, *The Application of Soil Water Index to Landslide Prediction in Snowy Regions: Sensitivity Analysis in Japan and Preliminary Results at Tomsk, Russia -20 min*

Yulia Kharanzhevskaya, SibRIAP-branch of SFSCA RAS, TSU, Tomsk, Russian Federation, *Hydrology and water chemistry of north-eastern drained part of Great Vasyugan Mire (Western Siberia) – 20 min*

Sergei Kopysov, Research Tomsk State University, Tomsk, Russian Federation, *Accounting of water flow on watercourses in different landscape zones of Western Siberia - 20 min*

Nina Kocheeva, Gorno-Altaysk State University, Gorno-Altaysk, Russia, *The content of sulfate ion in the groundwater in the basin of Mayma river (Northern Altai) – 20 min*

Coffee break

Poster Session and Networking

July 9: Afternoon Session: Global and Regional Sustainability

Chairs: Stephen Goodnick and Maxim Vinarski

Charalampos Skoulikaris, Aristotle University of Thessaloniki, Thessaloniki, Greece, *Energy, Water, Food and Environment Nexus: An Integrated Water Resources Management Approach under Climate Change – 20 min*

Ioanna Louvrou, National and Kapodistrian University of Athens, Athens, Greece, *Teaching Challenges in Inland Water Biology – 20 min*

Bella Krasnoyarova, IWEP SB RAS, Barnaul, Russian Federation, *Formal Institutional Challenges in the Transboundary Water Management – 20 min*

Coffee break

Poster Session and Reception

July 10: Morning Session: Energy Technology and Instrumentation

Chairs: Hiroshi Matsuyama and Dmitry Matyushov

Viktor Bykov, NT-MDT, Zelenograd, Russia, *Modern AFM and Nanospectroscopy Applications for Biological and Mineralogical Research - 45 min*

Stephen Goodnick, Arizona State University, Tempe, Arizona, USA, *Renewable and Environmentally Friendly Energy Sources for Remote Locations – 45 min*

Coffee break

Alex Laikhtman, Holon Institute of Technology, Holon, Israel, *Adsorption and Intercalation of Hydrogen on/into WS₂ Nanoparticles for Solid State Energy Storage: Modelling and Experiment – 30 min*

Shauna Morrison, Carnegie Institute of Science, Washington DC, USA, *Exploring Complex Mineral Systems and the Co-evolution of Earth Materials with the Biosphere Using Advanced Analytics and Visualization – 30 min*

Jeffrey Dick, The University of North Carolina at Chapel Hill,, Chapel Hill, North Carolina, USA, *Nanoelectrochemistry and Single Cell Biology – 30 min*