

AGENDA
**International Conference of the Eastern Europe, Caucasus,
and Central Asia Network of Water Management Organizations
(EECCA NWO)**

“Science and Innovations for Water Security”

**September 23-24, 2019
Yekaterinburg, Russia**

23 September

14:00

Official opening

PLENARY SESSION

Welcome speeches:

- **Prof. N.B. Prokhorova** (RosNII VH) - host institution
- **Prof. D.V.Kozlov**, EECCA NWO President
- **J.-F. Donzier**, Honorary General Secretary, International Network of Basin Organizations

**SESSION 1. WATER SECURITY OF TRANSBOUNDARY WATER BODIES IN THE
CONTEXT OF GROWING WATER SCARCITY**

Moderator: **Prof. D.V.Kozlov**, EECCA NWO President

Presentations of country representatives on key aspects:

- *country case-studies on meeting the water security challenges*
- *re-distribution of river run-off*

- Yu.M. Luzhkov (Russia) – Transfer of flow of the Siberian rivers. Current aspects
- Prof. D.V.Kozlov – Safety and operability of hydraulic facilities located along watercourses of big cities (case-study of Moscow agglomeration)
- M.Ya. Makhramov (BWO Amu Darya) – Improving water resources management in the Amu Darya Basin in the context of growing water scarcity
- B.M. Kizyayev (VNIHiM, Russia) – Water supply issues in Russia's regions and their solution

- A.V. Puzanov (Institute of Water and Ecological Problems, Russian Academy of Sciences) – On the project of water transfer via a pipeline from Upper Ob to China
- A.V. Shalikovskiy (Eastern branch of FBGU RosNIIVKH, Russia) – Causes and effects of flooding in Zabaikal Krai
- D.R. Ziganshina (SIC ICWC) – Water diplomacy, law and science serving to the benefit of water security
- I. Dairov (Regional Mountain Center, Kyrgyzstan), Adaptation of Mountain Areas of Central Asia to Climate Change
- N.N. Balgabayev (KazNIIVH, Kazakhstan) – Water development prospects in Kazakhstan

Discussion

Dinner

24 September

9:00

SESSION 2: INNOVATION-BASED WATER SECTOR DEVELOPMENT STRATEGY

Moderators: S.D. Belyaev (RosNIIVH), S.A. Bekmaganbetov (EC IFAS)

Presentations of country representatives on key aspects:

- *country experiences in water innovation projects;*
 - *state policy on mitigation of anthropogenic load on surface water;*
 - *ecological implications of surface water pollution;*
 - *setting benchmarks for allowable water exposure;*
 - *matters related to compensation of damage caused by violations of law on surface water protection from pollution;*
 - *advanced development of science and technology infrastructure of the water sector and application of innovation technologies;*
 - *creating favorable conditions for integrated water resources management system.*
- S.A. Bekmaganbetov (representative of the Republic of Kazakhstan in EC IFAS) – Relevance of establishing the International Water and Energy Consortium of Central Asia as a sustainable regional mechanism for integrated water-energy use
 - S.D. Belyaev (RosNIIVH, Russia) – The concept of the State policy on mitigating impacts of non-point pollution sources on surface water
 - Sh.O. Muradov (Karshi Economic Engineering Institute, Uzbekistan) – The set of innovation technologies for efficient water use in the Aral Sea Basin
 - K.V. Krutikova (RosNIIVH, Russia) – Progress achieved in the integrated water resources management

- Yu.B. Merzlikina (RosNIIVH, Russia) Water sector digitalization: challenges and opportunities
- L.F.Camilo (St. Thomas University, Columbia), Strategies for adaptation to climate change for sustainable management of water resources of small islands
- H.S.Makhkamov (BWO Syrdarya), Experience and Prospects for Development of Automation of Hydraulic Facilities in the Syrdarya River basin

Discussion

Coffee-break

SESSION 3: NEW INNOVATIVE APPROACHES/IDEAS TO EFFICIENT AND EFFECTIVE WATER MANAGEMENT

Moderators: **V.A. Dukhovny** (SIC ICWC / Secretariat EECCA NWO), **I.O. Nerov** (Far East branch of FBGU RosNIIVKH, Russia)

Presentations of country representatives on key aspects:

- *Role of innovations in improving functioning of agricultural entities*
- *Prospects for the development and improvement of the water sector*
- *Special aspects of innovation development in country scale*

- V.A. Dukhovny (SIC ICWC / Secretariat EECCA NWO) – Results of application of RS-based methods in water management in Central Asia
- I. Djurayev (representative of the Republic of Uzbekistan in EC IFAS) - Prearalie – the zone of environmental innovations and technology
- O.Kazantseva (Eco-TIRAS, Moldova) - Approaches to assessment of hydropower impacts on river ecosystem services (Dniester River case-study)
- N.K. Vakhonin (Land Reclamation Research Institute, Belarus) – Developing an integrated information system to support economic and environmental decisions in land reclamation and use based on GIS, DB, and Web-technology
- Yu.V. Krolevetskaya (Far East branch of FBGU RosNIIVKH, Russia) - Information-analytical support of water right licensing (Amur BWA case-study)
- Sh.O. Muradov (Karshi Economic Engineering Institute, Uzbekistan) –Double flow regulation as the important factor of water resilience of irrigated land
- I.O. Nerov (Far East branch of FBGU RosNIIVKH, Russia) – Information support system for hydrological modeling in the Amur River Basin
- K.A. Kurganovich (Eastern branch of FBGU RosNIIVKH, Russia) – RS-based spatial-temporal analysis of intensity of land use in the territories of the Zabaikal Krai subjected to flooding using the deep learning algorithms

Discussion

Lunch

14:00

SESSION 4: ROLE OF SCIENCE AND EDUCATION FOR ECOLOGICALLY SAFE ENVIRONMENT AND IN INNOVATIVE WATER DEVELOPMENT

Moderators: **Prof. S.R. Ibatullin, Prof. Yu. V. Repin**

Presentations of country representatives on key aspects:

- *science as a facilitator of innovations;*
- *better integration of education, science and practices*
- *competence requirements and new standards;*
- *fostering ecologically concerned thinking in higher educational institutions;*
- *science and practices in preparing water professionals;*
- *water and sanitation engineer – ecologist;*
- *training and needs in the water sector;*
- *training facilities and meeting professional expectations;*
- *water sector professional development.*

- Prof. S.R. Ibatullin (International Training Center for the Safety of Hydraulic Structures, Kazakhstan) – Forming the common water education space in Central Asia
- N.P. Mamataliev (Kyrgyz National Agrarian University) – Preparation of water professionals for Kyrgyzstan sectoral institutions in the context of IWRM
- A.R. Fazylov, Z. Kobyuliev (IWP and HE of AS RT, Tajikistan) – Status and prospects of training system for the water sector
- Prof. N.K. Kipshakbaev (Kazakh branch SIC ICWC, Kazakhstan) - Sustainable development of the Republic of Kazakhstan through water security
- **J.-F. Donzier**, Honorary General Secretary, International Network of Basin Organizations

Discussion

Closing statements, discussion, and adoption of the EECCA NWO Conference resolution