



Program

of the 6th International young scientists conference
(School and workshop)

“Water resources: research and management”

Petrozavodsk, September 1-5, 2020



Программа

VI Международной конференции молодых ученых
(школы-практики)

«Водные ресурсы: изучение и управление»

1-5 сентября 2020 г., г. Петрозаводск

The conference is held with the financial support of the RFFR, project № 20-05-22014

ORGANIZING COMMITTEE:

Chairman

Corresponding Fellow of the Russian Academy of Sciences N.N. Filatov,
Northern Water Problems Institute (Petrozavodsk)

Chairman's assistance group for communications with young scientists

Alexey Tolstikov, PhD, Northern Water Problems Institute KarRC RAS (Petrozavodsk)

Nataliya Galakhina, PhD, Northern Water Problems Institute KarRC RAS (Petrozavodsk)

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Corresponding Fellow of the Russian Academy of Sciences N.N. Filatov, Northern Water Problems Institute (Petrozavodsk)

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PhD Ivanov D.V. Institute of Ecology and Subsoil Use of the Republic of Tatarstan Academy of Sciences (Kazan)

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Organizing committee

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PhD. Georgiev A.P., Northern Water Problems Institute KarRC RAS (Petrozavodsk)

PhD Zdorovrnova G.E., Northern Water Problems Institute KarRC RAS (Petrozavodsk)

PhD Zobkov M.B., Northern Water Problems Institute KarRC RAS (Petrozavodsk)

PhD Sidorova A.I., Northern Water Problems Institute KarRC RAS (Petrozavodsk)

PhD Potakhin M.S., Northern Water Problems Institute KarRC RAS (Petrozavodsk)

PhD Myasnikova N.F., Northern Water Problems Institute KarRC RAS (Petrozavodsk)

Dmitrieva Yu.F., Zobkova M.V., Efremova T.A., Ikko O.I., Kravchenko I.Yu., Makarova E.M.,

Fomina Yu.Yu., Fedorova V.S., Northern Water Problems Institute KarRC RAS (Petrozavodsk)

Place of venue: Petrozavodsk, Republic of Karelia (Pushkinskaya, 11, A. Nevskogo, 50)

E-mail: confwrrm2020@yandex.ru

September 1st

9.00-9.30 – registration (Pushkinskaya, 11)

9.30 – conference opening

Plenary section

Place of venue: Petrozavodsk, Republic of Karelia (Pushkinskaya, 11)

Chair: Corresponding Fellow of the Russian Academy of Sciences N.N. Filatov,
Northern Water Problems Institute KarRC RAS (Petrozavodsk)

Co-chair: Alexey Tolstikov, PhD Northern Water Problems Institute KarRC RAS (Petrozavodsk)

9.30-9.50 – Corresponding Fellow of the Russian Academy of Sciences N.N. Filatov, ON SOME MODERN PROBLEMS OF RATIONAL USE WATER RESOURCES (Northern Water Problems Institute KarRC RAS, Petrozavodsk)

9.50-10.10 – Corresponding Fellow of the Academy of Sciences of the Republic of Tajikistan I. Sh. Normatov, TRANSBOUNDARY RIVERS OF CENTRAL ASIA AND THE STATE OF WATER RESOURCES IN THE REGION (Tajik National University)

10.10-10.30 – DSc Grigory Frumin ENVIRONMENTAL PROBLEMS OF TRANSBOUNDARY WATER OBJECTS (St. Petersburg State University)

10.30-10.50 – professor Leppäranta Matti ON ICE CLIMATOLOGY OF EURASIAN LAKES (University of Helsinki, Finland)

10.50-11.10 – professor Zhijun Li ICE SURFACE ALBEDO RESULTS FROM CHINESE WULIANGSU LAKE OBSERVATIONS (Dalian University of Technology, China)

11.10-11.30– Coffee break

11.30-11.50 – Prof. Zyryanov V., DSc ICE AND UNDER ICE PROCESSES (Water Problems Institute of the RAS , Moscow)

11.50-12.10 – DSc E. V. Venitsianov TOPICAL PROBLEMS OF WATER QUALITY MANAGEMENT Water Problems Institute of the Russian Academy of Sciences, Moscow

12.10-12.30 – PhD Ivanov D.V. REGIONAL STANDARDS FOR THE CONTENT OF POLLUTANTS IN BOTTOM SEDIMENTS AND THEIR PLACE IN THE SYSTEM OF ENVIRONMENTAL QUALITY STANDARDS IN THE RUSSIAN FEDERATION (Institute of Ecology and Subsoil Use of the Republic of Tatarstan Academy of Sciences (Kazan)

12.30-12.50 – DSc Rybalko A.E., THE MAIN STAGES OF THE FORMATION OF THE COVER OF QUATERNARY SEDIMENTS IN LADOGA AND ONEGA LAKES IN THE LATE NEOPLEISTOCENE-HOLOCENE (St. Petersburg State University)

12.50-13.10 – PhD N.A.Belkina STUDY OF THE MODERN SEDIMENTATION REGIME IN LAKES OF THE HUMID ZONE (EXAMPLE OF KARELIA) *Northern Water Problems Institute, Karelian Research Centre RAS*

13.10-13.30 – PhD Sharov A.N. ECOLOGY OF PHYTOPLANKTON OF NORTHERN WATER BODIES (IBIW. Borok)

13.30-13.50 – Prof. Vapirova V.V.DSc BIOGENIC ELEMENTS IN AQUATIC ECOSYSTEMS AND THEIR PHYSIOLOGICAL ROLE (Petrozavodsk State University)

13.50-15.00 – lunch

Section works

Section 1. Hydrophysics

Place of venue: Petrozavodsk, Republic of Karelia (Pushkinskaya, 11)

Chair: PhD Chebanova M.K. Water Problems Institute of the RAS (Moscow)

Deputy chair: PhD Podrezova N.A. Russian State Hydrometeorological University (St. Petersburg)

Scientific expert: – Prof. Zyryanov V., DSc Water Problems Institute of the RAS (Moscow)

15.00-15.15 – T.Ya. Shul'ga, O.V. Matuzaeva PREDICTIVE SIMULATION OF THE DURATION OF WIND-INDUCED FLOODING/DRYING OF THE SEA OF AZOV COAST ¹Marine Hydrophysical Institute RAS, Sevastopol, Russia, ²Sevastopol State University, Sevastopol, Russia

15.15-15.30 – R.E. Zdorovenov¹, G.E. Zdorovenova¹, A. Guzeva^{2,3}, S.Evgrafova⁴, A.A. Shadrina³, S.D. Golosov², I.S. Zverev², I.V. Fyodorova³ THERMAL AND ICE CONDITIONS OF ARCTIC LAKES IN THE CONTEXT OF REGIONAL CLIMATE VARIABILITY ¹Northern Water Problems Institute, Karelian Research Center RAS, Petrozavodsk, Russia, ² Institute of Limnology RAS, St. Petersburg, Russia, ³ St. Petersburg State University, St. Petersburg, Russia, ⁴ Institute of Limnology RAS, St. Petersburg, Russia

15.30-15.45 – E. E. Kruglova, O. S. Mekhova ANALYSIS OF ANTARCTIC CIRCUMPOLAR ICE MAPS Russian State Hydrometeorological University

15.45-16.00– G.E. Zdorovenova¹, I.V. Fyodorova², A.A. Shadrina², G.G. Gavrilenko¹, S.R. Bogdanov¹, T.V. Efremova¹, A.Y. Terzhevik¹, R.E. Zdorovenov¹, N.I. Palshin **DISSOLVED OXYGEN IN ICE-COVERED LAKES: SEASONAL AND HIGH FREQUENCY VARIATIONS** ¹Northern Water Problems Institute, Karelian Research Center RAS, Petrozavodsk, Russia, ² St.Petersburg State University, St. Petersburg, Russia,

16.00-16.15 – G.G. Gavrilenko, A.Yu. Terzhevik, G.E. Zdorovenova, R.E. Zdorovenov,N.I. Palshin, T.V. Efremova, S.R. Bogdanov THE ICE-OFF CONDITIONS AND SPRING MIXING PROPERTIES IN A SHALLOW BOREAL LAKE Northern Water Problems Institute, Karelian Research Centre RAS, Petrozavodsk, Russia

16.15-16.30 – Bogdanov S.R., Borodin A.V. GENERATION MECHANISM AND PARAMETERS OF SHORT INTERNAL WAVES IN AN ICE-COVERED SHALLOW BOREAL LAKE Northern Water Problems Institute, Karelian Research Centre RAS, Petrozavodsk, Russia

16.30-16.45– Gnatyuk N.V. ABILITY ASSESSMENT OF THE REGIONAL CLIMATE MODELS REMO AND ALARO TO REPRODUCE AIR TEMPERATURE AND PRECIPITATION VOLUMES FOR THE BASINS OF THE LARGEST RIVERS IN RUSSIA Nansen International Center for Environment and Remote Sensing

16.45-17.00 Xiaowei Cao¹, Peng Lu¹, Matti Leppäranta², Lauri Arvola³, Jussi Huotari³, Xiaohong Shi⁴, Guoyu Li⁵, Zhijun Li¹ SOLAR RADIATION TRANSFER FOR AN ICE-COVERED LAKE IN THE CENTRAL ASIAN ARID CLIMATE ZONE ¹ State Key Laboratory of Coastal and Offshore Engineering, Dalian University of Technology, China, ²Institute of Atmospheric and Earth Sciences, University of Helsinki, Helsinki, Finland, ³Faculty of Biological and Environmental Sciences, Ecosystems and Environment Research Programme, Lammi Biological Station, University of Helsinki, Lammi, Finland, ⁴Water Conservancy and Civil Engineering College, Inner Mongolia Agricultural University, Hohhot, China, ⁵State Key Laboratory of Frozen Soil Engineering, Cold and Arid Regions Environmental and Engineering Research Institute, Chinese Academy of Sciences, Lanzhou, China (video)

Section 2. Hydrochemistry

Place of venue: Petrozavodsk, Republic of Karelia (A. Nevskogo, 50)

Chair: PhD Zobkov M.B., Northern Water Problems Institute KarRC RAS (Petrozavodsk)

Deputy chair: PhD Galakhina N.E., Northern Water Problems Institute KarRC RAS
(Petrozavodsk)

Scientific expert: – Prof. DSc Frumin G.T St. Petersburg State University

15.00-15.15 – G.T. Frumin, Chen Jenlin, V.V. Drozdov ASSESSMENT OF THE ENVIRONMENTAL STATUS OF LAKES DONCHANG AND DAMING UNDER ANTHROPOGENIC IMPACT FROM INDUSTRIAL AREAS OF NORTH-EAST CHINA *Russian State Hydrometeorological University, St. Petersburg*

15.15-15.30 – M.V. Zobkova, N.E. Galakhina, T.A. Efremova, M.B. Zobkov A TECHNIQUE FOR MICROPLASTICS CONTENT DETERMINATION IN INLAND WATER SEDIMENTS *Northern Water Problems Institute, Karelian Research Centre RAS, Petrozavodsk, Russia*

15.30-15.45 – N.V. Nikerina^{1,2}, O.V. Zadonskaya¹ ESTIMATION OF NATURAL BACKGROUND CONCENTRATIONS IN THE NARVA RIVER SOURCE AND MOUTH ¹State Hydrological Institute, St. Petersburg, Russia, ²St. Petersburg State University, St. Petersburg, Russia

15.45-16.00 - M.A. Postevaya^{1,2}, Z.I. Slukovskii^{1,3}, V.A. Dauvalter¹ SEASONAL VARIATIONS OF HYDROCHEMICAL PARAMETERS IN LAKE SEMENOVSKOYE (CITY OF MURMANSK) IN 2019 ¹Institute of North Industrial Ecology Problems, Kola Science Centre RAS, Apatity, ²Murmansk Arctic State University, Murmansk, ³Institute of Geology, Karelian Research Centre RAS, Petrozavodsk

16.00-16.15 – K. V. Bepalova FORMATION AND QUALITY OF WATER RESOURCES OF THE BOLSHOY KINEL RIVER *Institute of the Volga Basin Ecology RAS - branch of Samara Federal Research Centre RAS*

16.15-16.30 – M.A. Makarova, V.A. Shelutko ASSESSMENT OF URBAN IMPACT ON THE FORMATION OF THE NUTRIENT FLOW IN THE VELIKAYA RIVER *Russian State Hydrometeorological University*

17.00 – Excursion to the Geological Museum (Pushkinskaya st., 11)

September 2st

Sections work

Section 3. Geography and Hydrology

Place of venue: Petrozavodsk, Republic of Karelia (Pushkinskaya, 11)

Chair: PhD Tolstikov A.V., Northern Water Problems Institute KarRC RAS (Petrozavodsk)

Deputy chair: PhD Baklagin V.N. Northern Water Problems Institute KarRC RAS
(Petrozavodsk)

Scientific expert: – Corresponding Fellow of the Russian Academy of Sciences N.N. Filatov,
Northern Water Problems Institute

10.00-10.15 – I.A. Chernov¹, A.V. Tolstikov², N.G. Iakovlev³ NUMERICAL SIMULATION OF BIOGEOCHEMICAL PROCESSES IN THE WHITE SEA, INCLUDING THE SEA-ICE ECOSYSTEM ¹Institute of Applied Mathematical Research, Karelian Research Centre RAS, Petrozavodsk, Russia ²Northern Water Problems Institute, Karelian Research Centre RAS, Petrozavodsk, Russia ³Institute of Numerical Mathematics of RAS, Moscow, Russia

10.15-10.30 – N.G. Iakovlev¹, I.A. Chernov² A NEW INTEGRATED MODEL OF THE ARCTIC OCEAN AND SEA ICE ¹Institute of Numerical Mathematics of RAS, Moscow, Russia, ²Institute of Applied Mathematical Research, Karelian Research Centre RAS, Petrozavodsk, Russia

10.30-10.45 – Lomov V.A. RESEARCH ON METHANE EMISSIONS FROM A VALLEY-BASED STORAGE RESERVOIR BY MATHEMATICAL MODELING METHODS *Lomonosov Moscow State University*

10.45-11.00 – E.V. Davydenko CALCULATION OF MAXIMUM WATER LEVELS OF UNEXPLORED LAKES: LAKES OF NORTH-WEST RUSSIA AS AN EXAMPLE *Russian State Hydrometeorological University, St. Petersburg*

11.00-11.15 N. Yu. Korneenkova ASSESSMENT OF THE LONG-TERM DYNAMICS OF THE LAKE AREAS IN THE SOUTH OF WESTERN SIBERIA USING SATELLITE IMAGES *Institute of Limnology of the Russian Academy of Sciences*

11.15-11.30– N. Panova¹, E. Voyakina^{1,2} RESEARCH INTO THE LIMNOLOGICAL PARAMETERS OF LAKE SISJARVI (VALAAM ARCHIPELAGO, LAKE LADOGA) ¹*Russian State Hydrometeorological University* ²*Saint-Petersburg Scientific Research Centre for Ecological Safety* RAS

11.30-11.45– A K.D. Odinokova, E.A. Primak SSESSMENT OF THE RESISTANCE OF TRANSFORMED WATER BODIES IN KARELIA WITH ALLOWANCES FOR NON-LINEARITY *Russian State Hydrometeorological University, St. Petersburg*

11.45-12.00– E. Chekmareva LIMITATION OF RECREATIONAL WATER USE OF LAKES IN NORTH-WESTERN TVER REGION *Ivankovskaya Research Station, Branch of the Water Problems Institute of the Russian Academy of Sciences*

Section 4. Bottom sediments of continental water bodies

Place of venue: Petrozavodsk, Republic of Karelia (A. Nevskogo, 50)

Chair: PhD Slukovskii Z.I. Institute of Geology KarRC RAS (Petrozavodsk)

Deputy chair: PhD Potakhin M.S., Northern Water Problems Institute KarRC RAS (Petrozavodsk)

Scientific expert: – Prof. DSc Rybalko A.E., St. Petersburg State University

10.00-10.15 – P.A. Ryzantsev POSSIBILITIES AND TASKS FOR GROUND PENETRATING RADAR APPLICATION IN LYMNOLOGICAL STUDIES *Institute of Geology, Karelian Research Centre RAS*

10.15-10.30 – N.A. Myasnikova GRAIN-SIZE ANALYSIS OF BOTTOM SEDIMENTS IN LAKE TOROSJARVI *Northern Water Problems Institute, Karelian Research Centre RAS*

10.30-10.45 – A.V. Maslennikova^{1,2}, V.O.Gulakov ¹ LAKE TURGOYAK DIATOM ASSEMBLAGES CHANGES IN RESPONSE TO HUMAN IMPACT ¹*South Urals Research Center of Mineralogy and Geoecology, Ural Branch RAS,* ²*South Ural State University*

10.45-11.00 – Z.I. Slukovskii^{1, 2}, M.A. Medvedev², V.A. Grigoriev³, A.S. Mitsukov¹ GEOCHEMISTRY OF RECENT SEDIMENTS IN SMALL LAKES IN BACKGROUND AREAS OF THE RUSSIAN ARCTIC ZONE IN THE REPUBLIC OF KARELIA AND MURMANSK REGION ¹ *Institute of North Industrial Ecology Problems, Kola Science Centre RAS,* ² *Institute of Geology, Karelian Research Centre RAS,* ³ *Institute of Earth Sciences of the St. Petersburg State University*

11.00-11.15 – S.I. Vokueva, D.B. Denisov, USING DIATOM ASSEMBLAGES IN SEDIMENTS TO ASSESS THE STATE OF AQUATIC ECOSYSTEMS IN THE URBAN IMPACT ZONE *Institute of North Industrial Ecology Problems, Kola Science Center RAS*

11.15-11.30 – M.S. Potakhin A MORPHOGENETIC CLASSIFICATION OF WATERBODIES IN THE LAKE ONEGO CATCHMENT AREA (REPUBLIC OF KARELIA) *Northern Water Problem Institute, Karelian Research Center RAS*

Section 5. Hydrobiology

Place of venue: Petrozavodsk, Republic of Karelia (A. Nevskogo, 50)

Chair: PhD Belicheva L.A., Russian Research Institute of Fisheries and Oceanography, Karelian branch

Deputy chair: PhD Sidorova A.I., Northern Water Problems Institute KarRC RAS (Petrozavodsk)

Scientific expert: – DSc Kalinkina N.M. Northern Water Problems Institute KarRC RAS (Petrozavodsk)

14.00-14.15 – N.V. Zuyeva¹, O.G. Grishutkin², Yu.A. Zuyev³, D.Yu. Efimov², A.A. Bobrov² ASSESSMENT OF THE ECOLOGICAL STATE OF THE PAZ RIVER SYSTEM BY HYDROBOTANICAL INDICATORS ¹ *Russian State Hydrometeorological University,* ² *Papanin Institute for Biology of Inland Waters RAS,* ³ *St. Petersburg Branch of VNIRO (GosNIORKH named after L.S. Berg”)*

14.15-14.30 – Yu. Yu. Fomina PHENOLOGICAL PHASES OF ZOOPLANKTON IN PETROZAVODSK BAY OF LAKE ONEGO *Northern Water Problems Institute, Karelian Research Centre RAS*

14.30-14.45 - I. Mukhin BRYOZOANS OF STONY LITTORAL SANDY BEACHES OF LAKE LADOGA SKERRIED REGION *Vologda State University*

14.45-15.00– Petukhova M.D.¹, Starukhina A.D.², Mukhin I.A.¹, Dudakova D.S.³ FACTORS FOR THE SPATIAL STRUCTURE OF THE *ASELLUS AQUATICUS* (CRUSTACEA, ISOPODA) POPULATION IN THE ROCKY LITTORAL ZONE OF LAKE LADOGA¹ *Vologda State University,² St. Petersburg State University,³ Institute of Limnology RAS*

15.00-15.15 – Rodionova N.V.¹, Starukhina A.D.², Dudakova D.S.¹ A STUDY OF ZOOPLANKTON DIEL MIGRATIONS IN THE SKERRIED REGION OF LAKE LADOGA¹ *Institute of Limnology RAS,² St. Petersburg State University*

15.15-15.30 – V. Fyodorova AUTUMN ALGAL BLOOM IN LAKE SVYATZERO IN 2019 *Northern Water Problems Institute, Karelian Research Center RAS*

15.30-15.45– Coffee break

15.45-16.00– N.Yu. Sukhovilo, A.A. Kuksovsky, D.B. Vlasova ALTERATION OF THE HIGHER AQUATIC VEGETATION IN WATERS OF THE BRASLAV LAKES NATIONAL PARK UNDER CHANGES IN THE NATURAL ENVIRONMENT AND PROTECTION REGULATIONS *Belarusian State University*

16.00-16.15 – V.O. Sergeeva¹, E.Yu. Voyakina^{1,2} ASSESSMENT OF THE TROPHIC STATUS OF LAKES IN VALAAM ARCHIPELAGO ¹*Russian State Hydrometeorological University,* ²*Saint Petersburg Scientific Research Centre for Ecological Safety RAS*

16.15-16.30– Makarova E.M. BIOINDICATION OF ECOSYSTEMS' CONDITION IN THE URBANIZED RIVERS BY MICROBIOLOGICAL INDICATORS (*Northern Water Problems Institute, Karelian Research Centre RAS*)

September 2nd

16.30-17.00 –Poster section

discussion of poster presentations, including presented on the conference web-site
<http://water.krc.karelia.ru/section.php?plang=r&id=3655>

Place of venue: Petrozavodsk, Republic of Karelia (Pushkinskaya, 11)

Chair: Corresponding Fellow of the Russian Academy of Sciences N.N. Filatov,
Northern Water Problems Institute KarRC RAS (Petrozavodsk)

Co-chair: PhD Regerand T.I., Northern Water Problems Institute KarRC RAS (Petrozavodsk)

- **E.V. Gatal'skaya, N.A. Belkina PHOSPHORUS IN BOTTOM SEDIMENTS IN IVANKOVSKOYE STORAGE RESERVOIR** *Northern Water Problems Institute, Karelian Research Centre RAS*
- **A.O. Lantushenko¹, Ya.V. Meger, E.S. Kladchenko², A.Yu. Andreyeva² ANTIOXIDANT STATUS OF CELLS IN MUSSEL GILL TISSUE UNDER SHORT-TERM HYPOXIA** ¹*Sevastopol State University,* ²*A.O. Kovalevsky Institute of Biology of the Southern Seas RAS*
- **I.V. Morozova¹, N.A. Belkina¹, M.S. Potakhin¹, Z.I. Slukovskii² METHANE IN BOTTOM SEDIMENTS OF VYGOZERSKOYE STORAGE RESERVOIR** ¹*Northern Water Problems Institute, Karelian Research Centre RAS,* ²*Institute of Geology, Karelian Research Centre RAS*
- **E.S. Pimeenko, A.V. Cherevichko CHANGES IN THE GROWTH RATE OF EARLY-AGE PERCH (*PERCA FLUVIATILIS* L.) IN LAKE PEIPUS** *Pskov Branch of the Russian Federal Research Institute of Fisheries and Oceanography*
- **K.V. Titova, N.M. Kokryatskaya, T. A. Zhibareva SULFATE REDUCTION IN BOTTOM SEDIMENTS IN THE SYSTEM OF LAKES IN SOUTHERN ARKHANGELSK REGION** *N. Laverov Federal Center for Integrated Arctic Research RAS*
- **S Yu. Yu. Fomina TATE OF THE KONDOPOZHISKY BAY (LAKE ONEGO) ECOSYSTEM IN THE AREA HOLDING TROUT FARMS, ASSESSED USING**

ZOOPLANKTON AS INDICATORS *Northern Water Problems Institute, Karelian Research Centre RAS*

• **A.N. Chernyshev ZOOPLANKTON TROPHIC STRUCTURE IN LAKE LESHCHOVOYE (VALAAMISLAND, LAKE LADOGA)** *Russian State Hydrometeorological University*

• **Wenfeng Huang UNDER-ICE DISSOLVED OXYGEN AND METABOLISM DYNAMICS IN A SHALLOW LAKE OF ARID CLIMATE** *Chang'an University, China*

• **SUN Xin, LI Xing* PHYTOPLANKTON COMMUNITY STRUCTURE CHARACTERISTICS AND ITS INFLUENCING FACTORS BEFORE AND AFTER FREEZING AND THAWING IN WULIANGSUHAI LAKE** *College of Chemistry and Environmental Science, Inner Mongolia Normal University, China*

• **Yaodan Zhang¹, Zhijun Li¹, Chunjiang Li¹, Baosen. Zhang¹, Yu. Deng¹ RESEARCH ON MICROSTRUCTURE CHARACTERISTICS OF RIVER ICE IN INNER MONGOLIA SECTION OF THE YELLOW RIVER AND ITS INFLUENCING FACTORS** (¹ State Key Laboratory of Coastal and Offshore Engineering, Dalian University of Technology, China. ² Yellow River Institute of Hydraulic Research, Zhengzhou, China)

• **YU Miao, LU Peng*, CAO Xiao-wei, TANG Ming-guang, WANG Qing-kai, LI Zhi-jun FIELD OBSERVATIONS OF THE BIDIRECTIONAL REFLECTANCE CHARACTERISTICS OF LAKE ICE** (State Key Laboratory of Coastal and Offshore Engineering, Dalian University of Technology)

• **XIE Fei, LU Peng, CAO Xiao-wei, WANG Qing-kai, LI Zhi-jun STUDY ON THE EVOLUTION PROCESS OF LAKE ICE AND RELATED INFLUENCING FACTORS IN NORTHEAST CHINA** (State Key Laboratory of Coastal and Offshore Engineering, Dalian University of Technology)

• **Xiaowei Cao¹, Peng Lu¹, Matti Leppäranta², Lauri Arvola³, Jussi Huotari³, Xiaohong Shi⁴, Guoyu Li⁵, Zhijun Li¹ SOLAR RADIATION TRANSFER FOR AN ICE-COVERED LAKE IN THE CENTRAL ASIAN ARID CLIMATE ZONE** ¹ State Key Laboratory of Coastal and Offshore Engineering, Dalian University of Technology, China, ²Institute of Atmospheric and Earth Sciences, University of Helsinki, Helsinki, Finland, ³Faculty of Biological and Environmental Sciences, Ecosystems and Environment Research Programme, Lammi Biological Station, University of Helsinki, Lammi, Finland, ⁴Water Conservancy and Civil Engineering College, Inner Mongolia Agricultural University, Hohhot, China, ⁵State Key Laboratory of Frozen Soil Engineering, Cold and Arid Regions Environmental and Engineering Research Institute, Chinese Academy of Sciences, Lanzhou, China

• **Zhijun LI COMPARISON AND ANALYSIS ON THE STATISTICAL MODELS FOR THE DIURNAL VARIATIONS OF LAKE ICE ALBEDO UNDER CLEAR SKIES** State Key Laboratory of Coastal and Offshore Engineering, Dalian University of Technology, China

17.00 – SUMMING UP THE CONFERENCE RESULTS

Place of venue: Petrozavodsk, Republic of Karelia (Pushkinskaya, 11)

School and workshop

3-5.09

Place of venue: Petrozavodsk, Republic of Karelia (A. Nevskogo, 50)