

**JOINT LARGE LAKES SYMPOSIUM  
ELLS-IAGLR 2**

**“Implications of Climate Change and Human Impact in Large Lakes”**

**September 12-18, 2022  
Petrozavodsk, Republic of Karelia, Russia**

**Organized by the European Large Lakes Organizing Committee (ELLS),  
International Association for Great Lakes Research (IAGLR) and Northern Waters  
Problems Institute of the Karelian Research Center of the Russian Academy of  
Sciences (KarRC RAS)**

**FOURTH ANNOUNCEMENT**

**Dear colleagues,**

the Organizing Committee of the JOINT LARGE LAKES SYMPOSIUM ELLS-IAGLR 2 “Implications of Climate Change and Human Impact in Large Lakes” in Petrozavodsk, Republic of Karelia scheduled for September 13-19, 2021, Russia has decided to postpone this event due to Covid -19, since this year it would have only been possible in online format. Many colleagues are interested in visiting Petrozavodsk, Karelia. The Organizing Committee of the conference proposed to shift the conference dates to autumn 2022 (12-18<sup>th</sup> September) and have it in hybrid format.

You are cordially invited to take part in the 2<sup>nd</sup> joint conference ELLS–IAGLR, “Understanding the Future of Large Lakes under Global Change: implications of Climate Change and Human Impact”, which will be held at the Northern Water Problems Institute (NWPI), Karelian Research Center, Russian Academy of Sciences in Petrozavodsk, Republic of Karelia, Russia on September 12-18, 2022 in hybrid format due to Covid-19. The conference venue will be the Karelian Research Centre, which can offer well-equipped spaces with relevant technical capabilities. Online participation will be via Zoom and Teams. There are several rooms where we can work simultaneously with online connection: <http://www.krc.karelia.ru/index.php?&plang=e>.

The conference will discuss the current and future implications of the COVID-19 pandemic for large lakes of the world involving the scientific community, decision-makers, students, and residents. We invite you to bring your questions, insights, and visions as we explore the Great Lakes through the lens of a pandemic. We will use the experiences from the international conferences organized in 2020- 2021.

The first ELLS series conference took place in 2006 in Tartu, Estonia and has since then been organized triennially. Before these meetings, four International Lake Ladoga and other large lakes symposia were organized in the 1992–2002 period in Russia.

The 5<sup>th</sup> ELLS was organized together with the IAGLR (<http://www.iaglr.org/>) in September, 2018 in Evian, France at Lake Geneva. Combining of these international

events is expected to increase the international visibility and foster interaction, partnership, and cooperation in research and management of large lake environments encountering local, regional and global challenges. The ELLS Symposium in Evian in 2018 has led to a Warning paper Rapid degradation of the world's large lakes (attached) in response to Ripple's invitation "World Scientists' warning to Humanity". The sessions of the coming Symposium will be aligned with this document as a guideline, which is an important link between the 1<sup>st</sup> and the 2nd Symposia!

The slogan of ELLS-IAGLR 2 "*Understanding the Future of Large Lakes under Global Change: Implications of Climate Change and Human Impact*" covers important topics including seasonality in large lakes; long-term trends in water quality and aquatic communities; interplay of sediment micro- and macrobiota in benthic habitats; responses to stressors and climate change; emerging tools for prediction and modeling, and many others. There will also be discussions about the current state and the future of Lake Baikal.

#### **Main Conference Themes:**

- World Scientists' warning to Humanity. Rapid degradation of the world's large lakes.
- Future threats to large lakes: consequences in terms of "new challenges" and "new questions" for research (Micro/Nanoplastics, alien species, aquaculture).
- Lake "Futures": responses to stressors and climate change, time scales and lags, tools for predictions and dealing with uncertainty.
- Long-term trends in water quality and aquatic communities; Eutrophication of large lakes in 2022: is it still a problem and why?
- Climate change and human impacts, and their mitigation in large lake ecosystems
- Best practices to improve conservation policies of large lakes
- The interplay of sediment, micro- and macrobiota in benthic habitats
- Present and future ecosystem services provided by lakes. Socio-ecologic-economic aspects and policy support systems for sustainable management of large lakes.

The conference venue will be the Karelian Research Centre in Petrozavodsk. The City of Petrozavodsk (population around 260 000) lies on the shore of Lake Onego, one of the two (with nearby Lake Ladoga) European Russian Great Lakes. Excursions during the Symposium will explore the unique culture of the region, including a trip to the UNESCO World Heritage Site on Lake Onego – Kizhi Island (see <https://nameteor.ru/en/predlogeniya/meteor-v-kizhi-iz-petrozavodska>).

The unique environment of Karelia can be explored at the Kivach Strict Nature Reserve (<https://zapkivach.ru/en/>) and the beautiful Valaam Island on Lake Ladoga (<https://www.valaam.com/information-in-english/>).

The Symposium will be held at the Karelian Research Centre (<http://www.krc.karelia.ru/index.php?&plang=e>).

Lodging is available at numerous four stars hotels, such as the Cosmos Petrozavodsk, SPA Hotel Karelia, or Frigate (all these hotels situated on the lakefront); or the centrally located Peter Inn, Onego, Severnaya (<https://www.booking.com/city/ru/petrozavodsk.ru>).

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**Dates and Deadlines:**

– online registration will be open at <https://nwpi-karelia.ru/events/5074/5076/> from 16.11. 2021.

- accepting submissions for **publication** 01.06.2022.

**Примечание [TN1]:** What does this mean?

**Conference Languages:**

English.

**Publications:**

- materials from the conference will be posted on NWPI website (<http://water.krc.karelia.ru/>)
- conference proceedings will be published as a special volume registered at RSCI (Russian science citation index) in electronic and paper form.
- instructions for authors will be specified later on.

Invitations and Visa Support: invitation for foreign participants (if so indicated in the registration form)

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