

Egor Zadereev

Egor Zadereev, Ph.D. in Hydrobiology
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Education & Experience

I received my Higher education degree in Biophysics (1994) from Krasnoyarsk State University (Russia), MSc degree in Environmental Sciences and Policy (1998) from Central European University (Hungary) and PhD in Hydrobiology (1999) from Krasnoyarsk State University. I am research scientists at the Institute of Biophysics (Siberian Branch, Russian Academy of Sciences) from 1999. I was appointed to be the head of the Research field station at Lake Shira in 2004.

As a research fellow I spent several months at the Netherlands Institute of Ecology (2004). I was a visiting teaching faculty member at the Central European University (2008). I am visiting associated professor at the Siberian Federal University (Krasnoyarsk) with “Aquatic ecology” and “Environmental management” courses for BSc and MSc students.

My research agenda combines field monitoring and observations, development of techniques and devices to perform lake and laboratory experiments and mathematical modeling. My research was supported by several Russian and International projects. My current interest is the complex studies of interactions between physical, hydrological and biological factors which control the permanent stratification in lakes and determine the food web structure and functioning and the quality of water.

I am member of Russian Hydrobiological Society and serve as a board member for the International Society for Salt Lake Research (2011-2014).

Apart from my scientific and teaching activities I am doing science blogging. I've got several Russian awards for the best science-popular text and content.

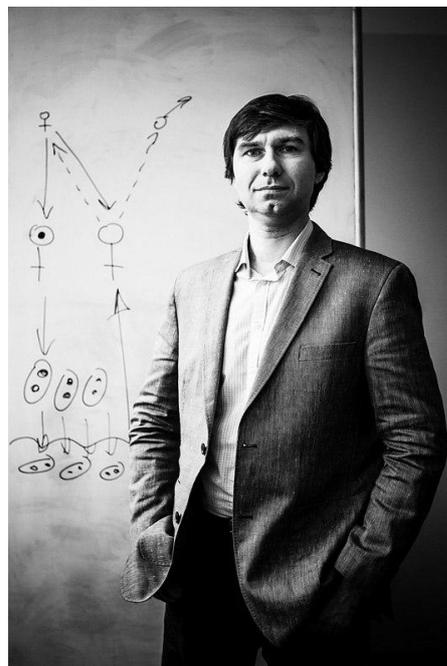
Five Representative Publications

Zadereev E. S., Tolomeev A. P., Drobotov A. V., Kolmakova A. A. Impact of weather variability on spatial and seasonal dynamics of dissolved and suspended nutrients in water column of meromictic Lake Shira. (2014) Contemporary Problems of Ecology, Volume 7, Issue 4, pp 384-396.

Zadereev E.S., Tolomeyev A.P., Drobotov A.V., Emel'yanova A.Yu. and Gubanov M.V. (2010) The vertical distribution and abundance of *Gammarus lacustris* in the pelagic zone of the meromictic lakes Shira and Shunet (Khakassia, Russia). Aquatic Ecology. V. 44. No. 3. P. 531-539.

Antonie M. Verschoor, Yegor S. Zadereev and Wolf M. Mooij. (2007) Infochemical-mediated trophic interactions between the rotifer *Brachionus calyciflorus* and its food algae. Limnol. Oceanogr. 52(5). P. 2109–2119

Zadereev Ye.S. and Tolomeyev A.P. (2007) The vertical distribution of zooplankton in brackish meromictic lake with deep-water chlorophyll maximum. Hydrobiologia. 576(1): 69-82



Zadereev E.S., Prokopkin I.G., Gubanov V.G., Gubanov M.V. (2003) Individual-based model of the reproduction cycle of *Moina macrocopa* (Crustacea: Cladocera). *Ecological Modelling*. 162: 15–31

Candidate's Statement

I am involved in salt lake research already for more than ten years. I was actively involved in the organization of the 9th International Conference of Salt Lake Research that was held at Lake Shira in 2002. With great pleasure I visited the 12th and 13th conference of ISSLR in Argentina and China. I served as a Board Member of ISSLR from 2011 to 2014. During these years I supported the Facebook group “Conservation and Management of Salt Lakes” (<https://www.facebook.com/groups/saltlakes/>), developed and supported the science blog SaltLakeScience at <http://saltlakescience.com/>.

Science of inland saline waters is rather small in comparison with freshwater or marine research communities. We should remember that the world becomes more and more complicated and competing. Without self promotion and activities focused on wider community any scientific discipline will decline. Even though it is generally assumed that the major goal of the small society is to organize successful triennial conferences, the in-between activities are also important. The proposal to be a vice-president of the society is a great honor for me. At this position I plan to focus on several goals.

- First is the Internet and on-line appearance of the society. The new web-page, social media and scientific blogging – cross-sited, user friendly and coherent – should enhance the society and make it more visible.
- Second is an attempt to attract to the society several highly cited and distinguished scientists. There are quite a lot of scientists from different disciplines that study saline lakes and waters but they have no idea about the society.
- Third, I believe that the best way to promote saline lake science is to publish good scientific papers. I think that several reviews jointly prepared by the society members on such topics as life at extreme conditions, salinization due to the effect of climate change, biotechnological applications of saline lakes, vanishing lakes and similar hot topics will be valuable contribution to the modern aquatic science.