



International Summer School “ Freshwater ecosystems under natural conditions and anthropogenic impact. Lake Ladoga”

28, July – 9, August 2010
Application deadline is 15 June 2010

Venue: St. Petersburg (RSHU) and Education and Scientific Station of RSHU (Lake Ladoga, Valaam Island) the main objectives of which are:

- 1) monitoring of the coastal zone and the small forest lakes of the Valaam Archipelago for the purpose of supplying material for courses in natural sciences;
- 2) scientific research at the Valaam Archipelago, Ladoga Lake and the northern Ladoga region with participation of students and post-graduate students;
- 3) the organisation of field practice of the University students.



Local Organizer:

Russian State Hydrometeorological University <http://www.rshu.ru/>
Faculty of Ecology and Environmental Physics

Field-work for RSHU students on the Vallam Island have being conducting regularly since 1998.



Target Group:

MSc students, 8 people, international

How to apply:

Please note that the amount of participants is limited. Please, complete the attached Application Form and send it to Maria Mamaeva by mamaeva-mamaeva@rambler.ru or fax +7 812 444 56 36 as soon as possible but not later than **15 June 2010!**

Scientific Scope of the School:

Freshwater ecology and biology

Working Language: English

Tuition fee:

There is no tuition fee. Meals, accommodation and internal transfer are to be covered by RSHU. In exceptional cases we also have some funds available to support your travel from Helsinki to St. Petersburg (28 July) and back (9 August). Each candidate at that will be considered separately.

Attendance documents:

Certificates incl. transcripts (ECTS)

The main tasks of the School are:

1. to familiarize the students with the limnogenesis types of North Russia water bodies, using as an example the water system of the Valaam Archipelago (Lake Ladoga);
2. to present to the students the range of natural fluctuations of the limnological parameters within which the normal regime of ecosystem functioning is maintained;
3. to demonstrate the connection between the main limnological parameters on the basis of the field materials collected;
4. to inculcate the idea about the lake being a important component of the landscape;
5. to compare the great lakes and small one (in example of Lake Ladoga);





Field investigations comprise the study of:

morphometric parameters, thermal regime, basic hydrochemical, hydrophysical parameters, phytoplankton, zooplankton, macrophytes, macrozoobenthos and the primary production of plankton

Contacts:

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Maria Mamaeva, local organizer, RSHU ([mamaeva-mamaeva@rambler.ru](mailto:mamaeva@rambler.ru); mob: +7 911 217 55 90)

Anna Kanukhina, local organizer, RSHU (anakan@rshu.ru, mob:)

Detailed information will be available soon at the Summer School web page www.rshu.ru starting from 23 May 2010.

PROGRAMME (Draft)

Date	Time	Schedule
28 July	afternoon	Arrival to SPb
		Accommodation at RSHU Hostel
		Free time
29 July	11.00-11.30	Introductory and welcome at RSHU
	11.30-12.15	Lake Ladoga and its area - main information. Preamble Lecture (Dr. Stepanova, RSHU)
	12.15-13.30	Approaches to the study of the stability of aquatic ecosystems to anthropogenic impact - Lecture (Prof. Dmitriev, SPb State University & RSHU)
	14.00-14.30	Lunch together
	14.40-18.30	Visiting the Museum complex "The Universe of Water"
	18.30 - 20.30	Dinner together
	20.30 - ...	Free time
30 July	9.00 -9.30	Breakfast
	09.30-14.30	Visit to The Saint Petersburg Dam
	14.30 – 15.30	Lunch together
	16.00 – 17.30	Ecotoxicological aspects of lakes studies Dr. Olli-Pekka Penttinen (University of Helsinki)
	17.30 -	Free time
31 July	early morning	transfer to the Valaam Island
	noon	arrival to Valaam, accommodation
	13.00-14.00	Welcome lunch
	14.00-18.00	Microlandscape diversity of Valaam Island – round-up field excursions
	18.00-21.00	Ice-breaking
1 August	9.00 -9.30	Breakfast
	10.00-12.00	Physical-geographical characteristics of Lake Ladoga - Lecture (Dr. Stepanova)
	12.15-13.30	Group work - The greatest lakes in the world
	13.30 -14.30	Lunch
	15.00- 18.30	The unique fauna and flora of the Valaam Archipelago - field excursion and group work
	19.00 – 19.30	Dinner
	19.40 - ...	free time

2 August	9.00 -9.30	Breakfast
	10.00-12.30	Hydrological regime of Lake Ladoga - Lecture (Prof. Naumenko, RSHU&Institute of Limnology, Russian Academy of Sciences)
	12.45 – 13.45	Group work - The scientific investigation of Lake Ladoga (with special film)
	14.00 – 14.30	Lunch
	15.00 – 17.30	Field work in Lake Ladoga and small acidic lake (by boat)
	18.00 – 19.00	Laboratory work
	19.00 – 19.30	Dinner
	19.40 - ...	free time
3 August	9.00 -9.30	Breakfast
	10.00-12.30	The main elements of the Lake Ladoga ecosystem - Lecture (Dr. Stepanova)
	12.45 – 14.00	Group work - The main community of fresh-water ecosystems
	14.30 – 15.00	Lunch
	15.30 -16. 30	Field work in Lake Ladoga - collection of materials
	17.00 – 19.00	Group work - Optical conditions in water. Laboratory work
	19.30 – 20.00	Dinner
	20.00 - ...	free time
4 August	9.00 -9.30	Breakfast
	10.00 – 11.30	Eutrophication of Lake Ladoga - Lecture (Dr. Vojakina, RSHU & St. Petersburg Scientific Research Center of Ecological Safety of the Russian Academy of Science)
	11.45 – 12.45	Field work in Lake Ladoga - collection of materials
	13.00 – 14.00	Group work - phyto- and zooplankton organisms
	14.30 – 15.00	Lunch
	15.30 – 19.00	Laboratory work - identification of common phyto- and zooplankton species
	19.30 – 20.00	Dinner
	20.00 - ...	free time
5 August	9.00 -9.30	Breakfast
	10.00-12.30	The role of macrophytes in Lake Ladoga ecosystems - Lecture (Dr. Zyeva, RSHU)
	12.45 – 14.00	Group work - relations with common species of macrophytes and benthos
	14.30 – 15.00	Lunch
	15.30 -17.00	Field work in Lake Ladoga - collection of materials
	17.00 – 19.00	Laboratory work - identification of common macrophytes species
	20.00 - ...	free time
6 August	9.00 -9.30	Breakfast
	10.00 – 12.00	Field work in Lake Ladoga - collection of materials
	12.00 – 14.00	Laboratory work
	14.00 – 14.30	Lunch
	15.00 – 18.00	An experience of harmonious coexistence of man and nature (the Valaam Monastery in the 18th and the 19th century) - Excursion to the Valaam Monastery and skits
	18.30 – 19.00	Dinner
	19.00 - ...	free time

7 August	9.00 -9.30	Breakfast
	9.30 – 13.30	The Ladoga ringed seal (<i>Phoca hispida ladogensis</i>) (with a visit to the summer haul-out sites at the distant islands of the Archipelago) - Boat trip excursion
	14.30 – 15.00	Lunch
	15.00 – 19.00	Group work - preparation the reports about field investigations
	19.30 – 20.00	Dinner
	20.00 -21.00	free time
	21.00 - ...	Goodbye party
8 August	9.00 -9.30	Breakfast
	10.00 – 11.45	Group work - prepare the final reports
	12.00 – 13.30	Conference (presentations of the reports made)
	13.30 – 14.00	Closing ceremony, certificates
	14.30 – 15.00	Lunch
	15.00 -16.30	free time
	17.00 – 21.30	Departure to St. Petersburg
	21. 30	Arrival to St. Petersburg, accommodation at RSHU Hostel
	22.00 - ..	Free time
9 August	till 16.30	Free time, shopping
	16.30	Departure to Helsinki



Application Form

International Summer School

“ Freshwater ecosystems under natural conditions and anthropogenic impact. Lake Ladoga ”



Please complete this Application Form and return to Maria Mamaeva asap

but not later than 15 June 2010

by mamaeva-mamaeva@rambler.ru or fax +7 812 444 56 36

Personal information

Name (Surname)	
First name (Name)	
Nationality	
Sex	
Country of residence	
Date and place of birth	
Level of English language	
Level of Russian language (optional information)	
Other language competition	
Mobile phone (to be used only in emergency cases)	
E-mail	

Academic status and background

Place of your study or work /Affiliation Name of institution (not abbreviation!), Address, tel., fax., e-mail.	
Degree and Position (please, indicate academic area)	
Name of your academic advisor. Contacts	
Scope of scientific interest (please, provide up to 5 key words)	
Scientific background related to our School topics (please, describe briefly)	
The list of recent publications	
Participation in the conferences, seminars, workshops related to the school theme (please, list the most important for your professional career)	
How will this summer school help you in your career/ scientific research?	

Details for the official invitation (visa procedures)

Passport Number, Date of issue/ Date of expiry	
Address to which we should send an original of the Invitation for getting Russian visa (if different from the above)	
Date of arrival to Russia	
Date of departure from Russia	
Country and city of visa application	
Purpose of visit	Participation in the international summer school, RSHU
Please enclosed a copy of the photo page passport	