



Программа стажировки 2003  
Томский государственный университет, Россия  
Огайский университет, США

Study Abroad Program 2003  
Tomsk State University, Russia  
Ohio State University, USA

## ECOLOGY AND ENVIRONMENTAL PROTECTION IN SIBERIA

### Staff:

<b>Raisa A. Karnachuk</b>	Program Coordinator, Dean and Professor, International College of Environmental and Agricultural Sciences
<b>Alex Kudryavtsev</b>	Program Manager (coordinates field trips, curriculum, logistics, Moscow program, communication with Ohio), Department of Environmental Management
<b>Olga V. Karnachuk</b>	Lecturer of the program, organizer of trips around Tomsk, professor
<b>Andrei S. Babenko</b>	Lecturer of the program & organizer of trip to Khakassia, professor
<b>Marina V. Olova</b>	Lecturer of the program, organizer of field trips in Tomsk, professor
<b>Natalia V. Karnachuk</b>	Lecturer of the Program, historical field trips in Tomsk, professor

<b>Study Abroad Program:</b>	Week 0:	Moscow
	Week 1–3:	Lectures at Tomsk State University
	Week 4:	Trip to Khakassia
	Week 5:	Study and final exams

Moscow program (organized / guided by Alex Kudryavtsev):

Data	Itinerary	
<b>10 July</b> <i>Thursday</i>	13:45	<b>Arrival to Moscow-SVO</b>
	13:45–17:00	Transit to Hotel Rossia and rest
	17:00–18:00	Dinner at the hotel restaurant Discussing passport and registration questions, and general safety issues in Moscow and Tomsk
	18:00–21:00	Evening walk in the city: Red Square, stores on Maneznaja Square and Red Square, souvenir shop in Historic Museum, Theater Square
	21:00–22:00	Evening meal
<b>11 July</b> <i>Friday</i>	09:00–10:00	Breakfast in Hotel Rossia (included)
	10:00–13:00	The Kremlin, museums and churches inside the Kremlin
	13:00–14:00	Lunch near Red Square
	14:00–15:30	State History Museum
	16:00–17:00	The Cathedral of Christ Savior
	17:30–19:00	Arbat Street: shopping, souvenirs
	19:00–20:00	Moscow downtown area
<b>12 July</b> <i>Saturday</i>	09:00–10:00	Breakfast in Hotel Rossia (included)
	10:30–12:30	The World War II Museum
	13:00–15:00	Surroundings of the Moscow State University (Sparrow Hills)
	15:00–16:00	Boat trip on Moscow River from Sparrow Hills to Kremlin
	16:30–18:00	Lunch in a restaurant and return to the hotel
	20:00	Leaving the hotel for the Domodedovo Airport
	22:00	Check-in
	23:10	<b>Departure from Moscow (4 hours overnight flight to Siberia)</b>

<b>13 July</b> <i>Sunday</i>	05:50	<b>Arrival in Tomsk</b>
	08:00	Accommodation in the Sputnik Hotel
	09:00	Breakfast
	09:30	Free day

<b>Week 1</b>		
<b>14 July</b> <i>Monday</i>	10:00–11:00	<b>Opening of the Program</b> in the office of International College of Environmental and Agricultural Sciences <i>Raisa Karnachuk</i>
	11:00–12:30	Walk excursion around the TSU campus
	12:30–14:00	Lunch
	14:00–15:30	The system of environmental protection organizations in Russia and Tomsk oblast <i>Alexander Adam, Head of the Environmental Protection Agency, Tomsk Oblast</i>
	15:30–16:30	History of Tomsk State University (TSU) <i>Natalia Karnachuk</i>
<b>15 July</b> <i>Tuesday</i>	09:00–10:30	Influence of Siberian climate on ecosystem development <i>Andrei Babenko, professor</i>
	11:00–12:30	<b>Excursion:</b> The Scientific Library of TSU, the Dept. of rare books <i>Natalia Karnachuk</i>
	12:30–14:00	Lunch
	14:00–15:30	Zonal distribution of ecosystems in Siberia <i>Andrei Babenko</i>
	16:00–17:30	Russia, Siberia and Tomsk region in transition from planning system to free market economy <i>Olga Karnachuk</i>
<b>16 July</b> <i>Wednesday</i>	09:00–10:30	Management for biodiversity conservation <i>Andrei Babenko</i>
	11:00–12:30	Russia on the threshold of Siberian colonization: late 16 <sup>th</sup> and early 17 <sup>th</sup> century <i>Natalia Karnachuk</i>
	12:30–14:00	Lunch
	14:00–15:30	Environmental policy in Russia (environmental discourses) <i>Olga Karnachuk</i>
	16:00–18:30	<b>Excursion:</b> Timber processing facilities near Tomsk <i>Andrei Babenko</i>
<b>17 July</b> <i>Thursday</i>	09:00–10:30	Peoples of Siberia before the Russian colonization <i>Natalia Karnachuk</i>
	11:00–12:30	Russian system of environmental management <i>Olga Karnachuk</i>
	12:30–14:00	Lunch
	14:00–15:30	Meeting with managers of the Environmental Protection Agency and environmental youth NGOs (TESI) <i>Olga Karnachuk, Alex Kudryavtsev</i>
	16:00–17:30	The economic value of biodiversity <i>Andrei Babenko</i>
<b>18 July</b> <i>Friday</i>	09:00–10:30	Boreal forest wildlife <i>Andrei Babenko</i>
	11:00–12:30	Water problems (part I) <i>Olga Karnachuk</i>
	12:30–14:00	Lunch
	14:00–15:30	The problems of natural resources depletion <i>Andrei Babenko</i>
	16:00–17:30	Pioneers: Steps of colonization (part I). <i>Natalia Karnachuk</i>
	17:30–17:45	Discussing plans for the weekend
<b>19 July</b> <i>Saturday</i>	09:00–14:00	<b>Excursion:</b> Larinskiy Nature Reserve (with a short lecture before excursion) <i>Andrei Babenko, Marina Olonova</i>
	After 13:30	Free time
<b>20 July</b> <i>Sunday</i>		Free day

<b>Week 2</b>		
<b>21 July</b> <i>Monday</i>	09:00–10:30	Steps of colonization (part II) <i>Natalia Karnachuk</i>
	11:00–12:30	Water problems (part II) <i>Olga Karnachuk</i>
	12:30–14:00	Lunch
	14:00–17:30	<b>Excursion:</b> Tomsk city water supply system (“Vodozabor” and Tom River) <i>Olga Karnachuk</i>
<b>22 July</b> <i>Tuesday</i>	09:00–10:30	Environmental deterioration in Siberia and indigenous people <i>Olga Karnachuk, professor</i>
	11:00–12:30	The Professor Krylov Herbarium as a cultural and instrumental approach of biodiversity research <i>Marina Olonova</i>
	12:30–14:00	Lunch
	14:00–15:30	Diversity of landscapes <i>Marina Olonova</i>
	16:00–17:30	Cultural interference after colonization <i>Natalia Karnachuk</i>
<b>23 July</b> <i>Wednesday</i>	07:00–21:00	<b>Bus trip</b> to Kolpashevkiy region: logging operation, lifestyle of indigenous people (Selkups) <i>Olga Karnachuk, Alex Kudryavtsev</i>
<b>24 July</b> <i>Thursday</i>	09:00–10:30	Siberian wetlands <i>Marina Olonova</i>
	11:00–12:30	Air pollution <i>Olga Karnachuk</i>
	12:30–14:00	Lunch
	14:00–18:00	<b>Excursion:</b> The Chaginskoe wetland near Timirjazevo village (a short lecture before the excursion) <i>Marina Olonova</i>
<b>25 July</b> <i>Friday</i>	09:30–12:30	<b>Excursion:</b> Petrochemical manufacturing and sewage disposal plant <i>Olga Karnachuk, Alex Kudryavtsev</i>
	12:30–14:00	Lunch
	14:00–15:30	<b>Excursion:</b> The museum of ethnography and archeology of Siberian people <i>Natalia Karnachuk</i>
	16:00–17:30	Russian Empire and Siberia: 18 <sup>th</sup> century <i>Natalia Karnachuk</i>
	17:30–17:45	Discussing plans for the weekend
<b>26 July</b> <i>Saturday</i>	09:00–13:30	<b>Excursion:</b> The Valley of River Ob <i>Marina Olonova</i>
	After 13:30	Free time
<b>27 July</b> <i>Sunday</i>		Free day

<b>Week 3</b>		
<b>28 July</b> <i>Monday</i>	09:00–10:30	Russian Empire and Siberia: 19 <sup>th</sup> century <i>Natalia Karnachuk</i>
	11:00–12:30	<b>Excursion:</b> Tomsk as a historical town <i>Natalia Karnachuk</i>
	12:30–14:00	Lunch
	14:00–15:30	Agriculture in transition economy. Risk agriculture in Siberia <i>Olga Karnachuk</i>
	16:00–17:30	Biodiversity of Siberian ecosystems <i>Marina Olonova</i>
<b>29 July</b> <i>Tuesday</i>	09:00–10:30	The land of exile <i>Natalia Karnachuk</i>
	11:00–12:30	Radioactive contamination <i>Olga Karnachuk</i>
	12:30–14:00	Lunch
	14:00–18:30	<b>Excursion:</b> The Siberian Cedar woods and problems of their protection and sustainable use (a short lecture before the excursion) <i>Marina Olonova</i>
<b>30 July</b> <i>Wednesday</i>	09:00–10:30	Siberian plants in the world's biodiversity <i>Marina Olonova</i>
	11:00–12:30	Siberia in the Civil War (1917–1920) <i>Natalia Karnachuk</i>
	12:30–14:00	Lunch
	14:00–15:30	Waste management <i>Olga Karnachuk</i>
	16:00–18:00	<b>Excursion:</b> Landfill site <i>Olga Karnachuk</i>
<b>31 July</b> <i>Thursday</i>	09:00–10:30	Siberia under communists <i>Natalia Karnachuk</i>
	11:00–13:00	<b>Excursion:</b> Churches of Tomsk <i>Natalia Karnachuk</i>
	13:00–14:00	Lunch
	14:00–15:30	Land problems and land property in transitional countries <i>Olga Karnachuk</i>
	16:00–17:30	The rare and extinct plant species of Siberian flora <i>Marina Olonova</i>
<b>1 August</b> <i>Friday</i>	09:00–10:30	The system of Nature Protected Areas in Russia and Tomsk Oblast <i>Alexey Kudryavtsev</i>
	11:00–12:30	The existence of Siberian minorities in the modern world <i>Natalia Karnachuk</i>
	12:30–14:00	Lunch
	14:00–15:30	Possible ways to solve environmental problems <i>Olga Karnachuk</i>
	15:30–16:00	Discussing the trip to Khakasia
	After 16:00	Free time
<b>2 August</b> <i>Saturday</i>	09:00–12:30	<b>Final exam:</b> Environmental problems in transition economy <i>Olga Karnachuk</i>
	After 12:30	Free time
<b>3 August</b> <i>Sunday</i>	09:00	<b>Trip to Khakasia</b> (by bus) <i>Andrei Babenko</i> <i>Marina Olonova</i>

## Week 4 - Khakasia

<b>4 August</b> <i>Monday</i>		The Khakassian Natural Park: landscape excursion – from steppe towards timberline (6 h)
		10 km
<b>5 August</b> <i>Tuesday</i>		Kommunar (gold mining and logging industry) (4 h)
		Mineral collection, trekking/walking (3 h)
		50 km
<b>6 August</b> <i>Wednesday</i>		Kommunar (taiga and mountain tundra landscapes) (6 h)
		50 km
<b>7 August</b> <i>Thursday</i>		Efremkino village (mountain steppe vegetation; farming) (4 h)
		Life-style of indigenous people (2 h)
		20 km
<b>8 August</b> <i>Friday</i>		Salt lakes of Khakassia (6 h)
		Shira Health Resort (2 h)
		120 km
<b>9 August</b> <i>Saturday</i>		Caves of the Khakassian Natural Park (4 h)
		Historical sites (2 h)
		10 km
<b>10 August</b> <i>Sunday</i>	09:00	Departure from Khakasia to Tomsk
	19:00	Arrival to Tomsk

<b>Week 5</b>		
<b>11 August</b> <i>Monday</i>		Free day
<b>12 August</b> <i>Tuesday</i>	09:00–10:30	<b>Excursion:</b> The Siberian Botanical Garden of TSU <i>Marina Olonova</i>
	11:00–12:30	Relict plants of Siberian flora <i>Marina Olonova</i>
	12:30–14:00	Lunch
	14:00–15:30	<b>Excursion:</b> The mineralogical and paleontology museums, Tomsk State University
	16:00–17:30	Environmental conservation in agricultural landscapes <i>Andrei Babenko</i>
<b>13 August</b> <i>Wednesday</i>	10:00–11:30	<b>Final exam:</b> History of Siberian culture <i>Natalia Karnachuk</i>
	12:00–13:30	Use of traditional knowledge for medicine <i>Marina Olonova</i>
	13:30–14:30	Lunch
	14:30–16:00	Sustainable use of forest resources <i>Andrei Babenko</i>
	After 16:00	Free time
<b>14 August</b> <i>Thursday</i>	10:00–13:00	Free time
	13:00–14:00	Lunch
	14:00–15:30	Endemic Siberian plants and animals <i>Andrei Babenko</i>
<b>15 August</b> <i>Friday</i>	11:00–12:30	Summary: what did we learn this month <i>Andrei Babenko</i>
	12:30–14:00	Lunch
	14:00–17:00	<b>Final exam:</b> Natural resources of Siberia <i>Andrei Babenk,</i> <i>Marina Olonova</i>
<b>16 August</b> <i>Saturday</i>	09:00–17:00	Free day
	17:00	Farewell party
<b>17 August</b> <i>Sunday</i>	06:00	Departure from hotel to Tomsk airport
	08:05	<b>Departure from Tomsk (4 hours flight to Moscow)</b>
	08:45	<b>Arrival in Moscow (Domodedovo airport)</b>
		Transit from the Domodedovo airport to the Sheremetevo airport
	14:45	Check-in
	17:15	<b>Flight from Moscow to the United States</b>

Last update: July 7, 2003  
Prepared by Alex Kudryavtsev