

Tomsk State Pedagogical University
Tomsk Polytechnic University
Gorno-Altai State University
Gorno-Altai Institute of the Agriculture
Institute of Petroleum Chemistry
Institute Soil Sciences and Agricultural Chemistry
National Peat Committee Russian Federation
Dokuchaevskoe Society of Soil Scientists

**ALL-RUSSIAN SEVENTH SCIENTIFIC SCHOOL OF YOUNG
SCIENTISTS WITH INTERNATIONAL PARTICIPATION**

«*MARSHES AND BIOSPHERE*»

PROGRAM

September 13 — 19, 2010

On the School will be presented: chronicle of the School, program of scientific excursion with illustrated application, photo exhibition of West Siberia' marsh landscapes and Mountain Altai, exhibition of publishers and selling the books on the themes connected with the School. Museum of peat will be opened.

Tomsk-2010

PROGRAM COMMITTEE

Prof. B.K. Bahnov (Institute Soil Sciences and Agricultural Chemistry, Novosibirsk),
Acad. G.P. Gamzikov (Novosibirsk State University of Agriculture),
Prof. A.I. Es'kov (Research – technological Institute of Organic Fertility and Peat, Vladimir),
Acad. B.S. Maslov (Moscow Institute of Melioration, Moscow),
Prof. B.B. Maryganova (Institute Problems Employment Nature Recourse and Ecology, Minsk, Belarus),
Prof. S.M. Novikov (State Hydrological Institute, St-Petersburg),
Prof. A.T. Podkoryitov (Gorno-Altai Research Institute of Agriculture, Gorno-Altai),
Chairman of National Peat Committee Russian Federation B.N. Pahomov,
Prof. Yu.V. Tabakaev (Gorno-Altai State University, Gorno-Altai),
Prof. A.A. Titlynova (Institute Soil Sciences and Agricultural Chemistry, Novosibirsk),
Prof. Lech Wojciech Szajdak (Institute for Agricultural and Forest Environment, Polish Academy of Sciences, Poznan, Poland).

ORGANISING COMMITTEE

Prof. V.A. Vlasov (Tomsk Polytechnic University),
V.A. Dyrin (Tomsk State Pedagogical University, Tomsk),
G.V. Larina (Gorno-Altai State University, Gorno-Altai),
Prof. N.P. Mironyicheva-Tokareva (Institute Soil Sciences and Agricultural Chemistry, Novosibirsk),
Prof. K.E. Osetrin (Tomsk State Pedagogical University, Tomsk),
M.V. Shurova (Gorno-Altai Research Institute of Agriculture, Gorno-Altai),
N.V. Yudina (Institute of Petroleum Chemistry, Tomsk).

CHAIRMAN

Lidiya Ivanovna Inisheva - Professor
Tomsk State Pedagogical University (TGPU),

OFFICE

Golubina Olga Aleksandrovna
Porokhina Ekaterina Vladimirovna
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CONTACTS

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Information about School on site: <http://www.ltorf.tom.ru>
<http://www.tspu.edu.ru/tspu/>

Drive from bus terminal and railway station to 2-nd building of Tomsk State Pedagogical University by bus number 10, 77, 26, 29, trolleybus number 7 to the bus-stop «House of the book».

PROGRAM OF THE SCHOOL WORKING

September, 13, Monday	
14.00-16.00	Round table: Acquaintance with researches on scientific direction of the School
17.00-18.00	Opening Museum of Peat
18.00-19.00	Coffee - break
September, 14, Tuesday	
Main building of TGPU, assembly hall (pr. Komsomolskay, 75)	
9.00-10.00	Registration of the School participants
10.00-10.30	Ceremony of the School's opening
Lector's symposium	
10.30-12.00	Lectures
12.00-12.15 Break	
12.15-13.45	Lectures
13.45-14.30 Dinner, excursion to TGPU's museum	
14.30-18.00	Lectures
September 15, Wednesday	
Symposium of the school's participants	
9.00-11.30	Announcements of the School participants
11.30-11.45 Break	
11.45-13.45	Announcements of the School participants
13.45-14.30 Break	
14.30-16.30	Announcements of the School participants
16.30-17.30	Discussion of reports. Conclude the results. Presenting of certificates and bonuses.
September, 16, Thursday	
7.00-20.00	Scientific field excursion Departure from Tomsk: (pr. Komsomolskay, 75)
7.00	Post-School Tour to Gornyi Altai Departure from Tomsk: pr. Komsomolskay, 75, bus station – Tomsk-1

Lectures - 30 min
Reports - 10 min

September, 13, Monday

Arrival of participants, allocation in hotel.

14.00-17.00 Round table: Acquaintance with researches on scientific direction of the School, discussing of opening specialization «peat resources and peat's use» (6 building TGPU, str. Kievskaya, 60)

17.00-18.00 Opening Museum of Peat

18.00-19.00 Coffee – break Street Kievskaya, 60/1, (building 6)

September 14, Tuesday

Main building of TGPU, assembly hall (pr. Komsomolskay, 75)

9.00-10.00 Registration of participants

OPENING OF THE SCHOOL

10.00-10.10 Greeting of the rector TGPU, prof. Valerij Vladimirovich Obuhov

10.10-10.20 About work of the School – prof. Lidiya Ivanovna Inisheva

LEKTOR'S SYMPOSIUM

The Chairman – professor Lidiya Ivanovna Inisheva

10.30-12.00

Berezina N.A. (*Moscow State University, Moscow*). REPORT ABOUT S.N. TYUREMNOV.

Babikov B.V. *prof. (St-Petersburg)*. EVAPORATION AND FLOWING OF WATER AFTER DRAINAGE OF BOGS.

Bakhnov V.K. *prof. (Institute Soil Sciences and Agricultural Chemistry, Novosibirsk)*. ON OPTIMIZATION PROBLEM OF MINERAL NUTRITION OF CULTIVATED PLANTS ON BOGGY SOILS.

Berezina N.A. (*Moscow State University, Moscow*). RESEARCH THE VEGETATION MIRES OF THE WESTERN SIBERIA.

Vomperskyi S. E. *acad. RAS (Institute forestry of RAS)*. FUNCTIONAL BIOGEOCENOLOGY AS THE BASE FOR ESTIMATING THE BIOSPHEREROLE OF FORESTS AND MIRES.

Maslov B.S. *acad. (Russian Academy of agriculture)*. TWO HUNDRED YEARS TO BOG LAND RECLAMATION.

Glagolev M.V., Sabrekov A. F. (*Moscow State University, Moscow*). ABOUT A FEATURES OF INVESTIGATION OF THE GAS EXCHANGE AT ECOSYSTEM/ATMOSPHERE BOUNDARY BY INVERSE MODELLING METHOD.

Prohorov S.G. (*Branch of Kazan State Polytechnic University, Chistopol*). THE IDEAS OF SOLID COMBUSTIBLE FOSSILS (SCF) STRUCTURE ON THE BASIS OF EPR METHOD EXPERIMENTAL DATA.

12.00-12.15 Break

Szajdak L.W., Inisheva L.I., Meysner T., Gaca W., Styła K. (*Institute for Agricultural and Forest Environment, Polish Academy of Sciences, Poznan, Poland*). ACTIVITIES OF ENZYMES PARTICIPATION IN REDOX POTENTIAL IN THE TWO DEPTHS OF TAGAN PEATLAND.

Rozhanskaya O.A. (*Siberian Research Institute of feeds, Novosibirsk*). VEGETABLE SYSTEMS IN VITRO FOR TESTING THE BIOLOGICAL ACTIVITY PREPARATION FROM PEAT.

Stepchenko L.M., Loseva E.A., Skorik M.V., Goncharova L.V., L.I. Galuzina, T. V. Semidetnaya. (*Dnepropetrovsk State University of Agriculture, Dnepropetrovsk*). REGULYATION INFLUENCE OF THE HUMIC PREPARATIONS ON FUNCTIONAL CONDITION OF THE ORGANISM OF HIGH PRODUCTIVE POULTRY.

Titlyanova A.A. (*Institute Soil Sciences and Agricultural Chemistry, Novosibirsk*). THE ROLE OF BELOWGROUND PLANT ORGANS IN THE CARBON TURNOVER IN MIRES.

Yurova A.Y., Tolstykh M.A. (*Research Institute of Computing Mathematics, RAS*). PARAMETERIZATION OF MIRES IN NUMERICAL WEATHER PREDICTION MODEL SL-AV.

13.45-14.45 Dinner

Kizilova A.K., Chistotin M.V., Krachenko I.K. (*Institute microbiology of RAS, Institute forestry of RAS, Moscow*). STUDYING METHANOGENIC COMMUNITIES OF PEAT SOILS BY MEANS OF PCR-DGGE TECHNIQUE.

Konishchuk V. V. (*Institute of agro ecology National Academy agricultural sciences Ukraine, Kiev*). THE ECOLOGICAL FACTORS OF THE FUNCTIONING MOORE WEST POLESIE IN SUSTAINABLE DEVELOPMENT.

Kosykh N. P., Mironycheva-Tokareva N. P., Parshina E. K. (*Institute Soil Sciences and Agricultural Chemistry, Novosibirsk*). BIOGEOCHEMICAL CYCLES IN BOG ECOSYSTEM.

Mazei Y.A. (*Penza State Pedagogical University*). MICROSCOPIC FAUNA OF THE SPHAGNUM BOGS: COMPOSITION AND COMMUNITY STRUCTURE.

Motorin A.S. (*Tumen State Academy of agriculture*), **Sivkov J. V.** (*Tyumen State oil and gas University*). CHANGE OF PHYSICAL AND CHEMICAL PROPERTIES OF PEAT SOILS OF WESTERN SIBERIA AT AGRICULTURAL USE.

Panova N.K. (*Botanical garden of Ural, Yekaterinburg*), **Antipina T.G.** PEAT BOGS AS ACCUMULATORS AND SOURCES OF THE PALEOECOLOGICAL INFORMATION.

Stepanova V.A., Koronatova N.G. (*Institute Soil Sciences and Agricultural Chemistry, Novosibirsk*). COMPOSITION OF TRACE ELEMENTS IN DIFFERENT PEATS OF BAKCHAR MIRE COMPLEX.

17.30-19.00 Excursion through Tomsk

September 15, Wednesday

Main building of TGPU, assembly hall (pr. Komsomolskay, 75)

SCHOOL PARTICIPANT SYMPOSIUM

The Chairman – professor Lidiya Ivanovna Inisheva

9.30-11.30

Alexeeva M.N. (*Institute of Petroleum Chemistry, Tomsk*). GEOINFORMATION-SPACE ANALYSIS OF OIL EXTRACTION TRANSPORT SYSTEM IMPACT ON THE BOG ECOSYSTEMS.

Anisimova T.J. (*Research – technological Institute of Organic Fertility and Peats, Vladimir*). USE NUTRIENT GROUNDS ONORGANIC-PLANT BASIS FOR CULTIVATION OF VEGETABLE CULTURES SPROUTS.

Antsiferova O.A. (*Kaliningrad Polytechnic University, Kaliningrad*). DRAINED BOGGY SOILS PRODUCTIVITY IN STAGE OF HIDROTERMIC DEGRADATION.

Akhmetieva N.P., Lapina E.E. (*Institute water problems RAS, Moscow*). THE USING OF PEAT-BOGS AS CATCHERS FOR MANURE.

Baksheev V. N., Baksheev V. V. (*Institute Soil Sciences and Agricultural Chemistry, Novosibirsk*). RESOURCES OF RESERVOIRS FOR THE GOOD OF RUSSIA.

Vinogradov V.YU., Inishev N.G. (*Tomsk State University, Tomsk*). TEMPERATURE REGIME OF PEAT DEPOSITS EUTROPHIC MIRES.

Voytehov M.YA. (*Moscow region, Taldom*). THE CONDITION OF THE RELICT MIRE LUPISHKINSKOE IN FOREST-STEPPE ZONE AND THE PROBLEMS OF CONSERVATION OF THIS MIRE.

Volkova E.M., Burova O.V., Novenko E.YU. (*Tula State Pedagogical University, Tula*). RECONSTRUCTION OF LANDSCAPE DYNAMICS IN THE NORTHERN FOREST STEPPE BY RESULTS OF COMPLEX STUDY OF BOLSHEBERESOVSKOYE MIRE (UPPER DON RIVER BASIN, TULA REGION).

Galyas A.V. (*Kursk State University, Kursk*). THE ECOLOGICAL CHARACTERISTIC OF THE HELOPHYTES VEGETATION IN THE PSEL RIVER BOGGY BOTTOMLAND.

Golovatskaya E.A., Abzalimova L.G., Porochina E.V. (*Institute of monitoring climatic and ecological systems RAS, Tomsk*). DECOMPOSITION OF PLANT BIOMASS IN THE PEAT SOIL IN “KIRSANOVSKOE” BOG.

Golovatskaya E.A., Volozneva M.V., Porochina E.V. (*Institute of monitoring climatic and ecological systems RAS, Tomsk*). TREE LAYER STORAGE AND PRODUCTION FOR KIRSANOVSKOE BOG.

Dubrovskaya L.I., Drozdova D.V. (*Tomsk State University*). THE RECENT TRENDS IN DYNAMIC OF RIVER RUNOFF FROM SWAMPY WATERSHED IN

THE GREAT VASYUGAN MIRE.

11.30-13.45 Break

Kalaeva A.A. (*Tomsk State University*). LANDSCAPE ANALYSIS OF IKSA BASIN MIRE.

Karpenko L.V. (*Institute of forest, Krasnoyarsk*). THE CONTENTS OF HEAVY METALS AND SULFUR IN BACKGROUND AND TECHNOGENIC POLLUTED BOGS.

Kozlova S.A., Shurova M.V. (*Gorno-Altai Research Institute of Agriculture, Gorno-Altai*), **Larina G. V.** (*Gorno-Altai State University, Gorno-Altai*). CHEMICAL COMPOUND OF BOG WATERS OF CENTRAL PART REPUBLIC ALTAI.

Kokorina N.G., Okolelova A. A., Kunitsyna I.A. (*Volgograd Technical University, Volgograd*). METHOD OF CALCULATION OF THE MAINTENANCE OF MINERAL OIL IN SOILS.

Konovalchuk V.K. (*Hational University Biorecources and Nature of Ukraine, Kiev*). HYTOCENOTIC CHARACTERISTICS AND RESOURCES OF CRANBERRY IN THE POLESSIE REGION OF UKRAINE.

Kornev A.A. (*Ural State Academy of agriculture, Yekaterinburg*). ABOUT CERTAINS BASES BRANCH-WISE GOVERNANCE BY PEAT BOGS.

Liashchynskaya N.V., Yarmashuk, T.D., Thiele A., Minke M., Ryzhikov V.A., Couwenberg J., Tanneberger F., Joosten H., Augustin J. (*ГА «Ахова нтываак Бацькаўшчыны» APB-BirdLife Belarus, Мінск, Беларусь; Ernst-Moritz-Arndt University, Greifswald, Germany; Michael Succow Foundation, Greifswald, Germany; Leibniz-Centre for Agricultural Landscape Research, Müncheberg, Germany*). MODEL FOR GREENHOUSE GAS EMISSIONS ASSESSMENT FROM PEATLANDS.

Martynova M.Y. (*Southern Federal University, Rostov-on-Don*). NATURAL STRUCTURE AND ANTROPOGENIC CHANGES OF SOUTH-WESTERN POLISTOVO-LOVATSKY RAISED BOG LANDSCAPES.

Mel'nikov K.S., Volkova E.M., Chilachava K.B. (*Tula State Pedagogical University, Tula*). A DATA ABOUT FEATURES OF PEATS OF TULA REGION.

Menko E.V., Kravchenko I.K. (*Institute microbiology of RAS, Moscow*). FISH ANALYSIS OF MICROBIAL COMMUNITIES IN DRAINED PEAT SOILS.

Novikov V.V., Stepanov A.L., Pozdnyakov A.I. (*Moscow State University, Moscow*). MICROBIAL TRANSFORMATION OF METHANE, CARBON DIOXIDE AND NITROUS OXIDE IN CULTIVATED PEAT SOILS.

Ovsepyan A.E., Masik A.N. (*Southern Federal University, Rostov-an-Donny*). DISTRIBUTION AND CONTENT OF MERCURY IN SOILS OF ILASSKOE SWAMPY AREA OF THE ARKHANGELSK REGION.

13.45-14.45 Dinner

Pushkaryova T.A., Tronova T.M., Klopotova N.G., Borodina M.G. (*Tomsk Research Institute Health Resorting and Physiotherapeutic, Tomsk*). SAPROPELS OF LAKES OF SIBERIA FOR HEALTH RESORTS PURPOSES.

Romanyuk K.D. (*State hydrological Institute, St-Petersburg*). THE IMPACT OF CHANGING WATER REGIME OF OLIGOTROPHIC SWAMPS IN THEIR ECOSYSTEMS.

Savel'yeva A.V., (*Institute of Petroleum Chemistry, Tomsk*), **Larina G.V.** (*Gorno-Altai State University, Gorno-Altai*). THE CHARACTERISTIC OF ORGANIC SUBSTANCE OF GORNYI ALTAI PEATS.

Smagin V.A., **Galanina, O.V.** **Denisenkov V.P.** (*Botanical institute, St-Petersburg State University, St-Petersburg*). THE STRUCTURE OF EXTREMELY RICH FENS PEAT DEPOSITS OF THE KENOSERSKY NATIONAL PARK (ARCHANGELS REGION).

Sokolova I.V., **Tchaikovskaya O.N.**, **Nechaev L.V.** (*Tomsk State University, Tomsk*). PHOTOPROCESSES IN WATER INCLUDING THE PARTICIPATION OF HUMIC SUBSTANCES.

Starikova E.U., **Porohina E.V.**, **Golubina O.A.** (*Tomsk State Pedagogical University, Tomsk*). THE INVERTASE ACTIVITY OF PEAT SOILS IN THE BOGS OF «TAGAN».

Subota M. (*St-Petersburg State Technical Academy of Forest, St-Petersburg*). CHANGE OF CONDITION SWAMPY AFTER DRAINAGE AND AFORESTATION.

Syrtsov S.N. (*Institute of forest, Krasnoyarsk*). THE FUNCTIONAL CHARACTERISTICS OF THE BOG MICROBIOCENOSIS IN THE MIDDLE SIBERIA TERRITORY.

Tomson A.E., **Naumova G.V.**, **Makarova N.L.**, **Ovchinnikova T.F.**, **Zhmakova N. A.** (*Institute for Problems of Natural resources Use and Ecology, National Academy of Sciences of Belarus, Minsk*). IODINE IN SPHAGNUM MOSSES AND PEATS OF BELARUS DEPOSITS.

Shagaeva, L.L., **Shurova M.V.** (*Gorno-Altai Research Institute of Agriculture, Gorno-Altai*). AGROCHEMICAL PEAT PROPERTIES GORNY ALTAI AND PROSPECTS FOR THEM IN PLANT.

Shibareva S.V. (*Institute Soil Sciences and Agricultural Chemistry, Novosibirsk*). LITTERS IN FORESTS, GRASSLANDS AND MIRES.

Bałaży S., **Szajdak L.W.** (*Institute for Agricultural and Forest Environment, Polish Academy of Sciences, Poznań, Poland*). ENTOMOPATHOGENIC FUNGI OF GRASSLANDS AND PEATLANDS IN THE MODERATE AND SEVERE CLIMATIC CONDITIONS.

Bartmiński P., **Dębicki R.** (*Department of Soil Science, Institute of Earth Sciences, Maria Curie-Skłodowska University in Lublin, Poland*). FUNCTIONING OF ORGANIC SOILS UNDER RESTORATION PRACTICES.

Lachacz A., **Kalisz B.**, **Nitkiewicz M.** (*Department of Soil Science and Soil Protection, University of Warmia and Mazury in Olsztyn, Poland*). SOME PROPERTIES OF ORGANIC MATTER FROM BOTTOM-LAKE DEPOSITS OF NORTH-EASTERN POLAND.

Milecka K., **Kowalewski G.** (*Department of Biogeography and Paleoecology, Adam Mickiewicz University, Poznan, Poland*). DEVELOPMENT OF SMALL WATER-MIRE BASINS IN DURY RESERVE, NW POLAND.

Szajdak L.W., Styła K. (*Institute for Agricultural and Forest Environment Polish Academy of Sciences, Poznań, Poland*). IMPACT OF DIFFERENT SECONDARY TRANSFORMED PEAT-MOORSH SOILS ON THE UREASE ACTIVITY IN ACROTELM AND CATOTELM.

Szajdak L.W., Inisheva L.I., Meysner T. , Gaca W., Styła K. (*Institute for Agricultural and Forest Environment, Polish Academy of Science, Poznań, Poland; Testing Agroecology Laboratory, Tomsk State Pedagogical University, Tomsk*). ACTIVITIES OF ENZYMES PARTICIPATION IN REDOX POTENTIAL IN THE TWO DEPTHESES OF TAGAN PEATLAND.

Szajdak L.W., Maryganova V. (*Institute for Agricultural and Forest Environment, Polish Academy of Sciences, Poznań, Poland; Institute for Problems of Natural resources Use and Ecology, National Academy of Sciences of Belarus, Minsk, Belarus*). NATURAL PHYTOHORMONE – INDOLE-3-ACETIC ACID IN PEATS, SUBSTRATES FOR HORTICULTURE AND POMOLOGY.

Szajdak L.W., Szczepański M. (*Institute for Agricultural and Forest Environment, Polish Academy of Science, Poznań, Poland*). FUNCTION OF PEATLAND LOCATED ON SECONDARY TRANSFORMED PEAT-MOORSH SOILS ON THE RATES OF THE ELUTION OF ORGANIC MATTER.

15.30-17.30

Discussion of reports. Conclude the results. Presenting of certificates and bonuses.

September 16, Thursday

Excursion on Vasyugan Mire

7.00 Departure from Tomsk (pr. Komsomolskay, 75)

7.00-11.00 Route g.Tomsk – v. Plotnikovo

11.00-12.00 Morning meal

12.00-15.00 Excursion

15.00 16.00 Dinner (v. Polyinyanka)

16.00-20.00 Departure into Tomsk

September 16-19

Excursion on marshes of the Gornyi Altai

September 16, 7.00 - Departure from Tomsk (pr. Komsomolskay, 75)

September 19 - Departure into Tomsk