

Tuesday, 27 April

Conference-hall 3 & Online			
Geophysics in Environmental Studies			
Moscow time zone	Landforms & Geohazards		
	Chair: Svetlana Bricheva	Chair: Wolfram Geissler	Speakers
9:45	Opening		
10:00	Possibility of geotechnical monitoring of geohazards through the crosshole seismic tomography (CST) technique	V. Ignatov<1>, A. Gouirand<2>, A. Konkov<1>, M. Aleshkin<1>, A. Shuvailov<1>	(1) GEODEVICE (Russia); (2) GEODEVICE SAS (France)
10:15	Combined Use of DAS and DSS for Landslide Detection and Assessment	F. Ravet*, A. Goy, E. Rochat	Omnisens
10:30	Geophysical monitoring of natural and engineered slopes: towards improved early warning of landslides	J. Chambers* <1>, P. Meldrum<1>, P. Wilkinson<1>, J. Whiteley<1>, A. Wattlet<1>, J. Boyd<1>, J. Holmes<8>, S. Donohue<2>, D. Gunn<1>, O. Kuras<1>, R. Swift<1>, H. Harrison<1>, C. Inauen<1>, S. Uhlemann<3>, J. Kendall<4>, A. Binley<5>, D. Huntley<6>, P. Bobrowsky<6>, P. Clarkson<7>	<1>British Geological Survey; <2>University College Dublin; <3>Lawrence Berkeley National Laboratory; <4>University of Oxford; <5>Lancaster University; <6>Geological Survey of Canada; <7>OptaSense; <8>Queens University Belfast
10:45	Integrating ground-penetrating radar and morphological analysis to study the giant gravel dunes in the Kuray basin	S.S. Bricheva* <1,2>, T.V. Gonikova<1>, M.M. Doroshenko<1,2>, V.M. Matasov<3,1>, A.L. Entin<1,2>, A.V. Panin <2>	<1> Lomonosov Moscow State University, <2> Institute of geography RAS, <3> Peoples' Friendship University of Russia (RUDN University)
11:00	GPR survey of Storegga tsunami deposits, Shetland Islands UK, and geohazard discussion	C. Bristow*, L. Buck	Birkbeck University Of London
11:15	Resource evaluation of valuable and toxic tailing components by electrotomography data and geochemical sampling	P. Ospjova*, N. Yurkevich, V. Olenchenko	Trofimuk Institute of Petroleum Geology and Geophysics of SB RAS, Novosibirsk
11:30	Classification of slag material in the laboratory and field scale with spectral induced polarisation	Tina Martin	Lund University, Sweden
11:45	Coffee break		
Water & Permafrost			
	Chair: Ivan Khristoforov	Chair: Michael Angelopoulos	
12:00	Monitoring contaminated snowmelt infiltration with electrical resistivity tomography (ERT)	Esther Bloem	Norwegian Institute of Bioeconomy Research
12:15	Methodology of GPR survey of lakes and rivers within continuous permafrost	I. Khristoforov, A. Omelyanenko, K. Danilov, P. Omelyanenko, I. Gorokhov	Mel'nikov Permafrost Institute of SB RAS, Yakutsk
12:30	Geophysical and geocryological investigation of active layer along the North Russian Railway (Khanovey, Russia).	M. Rossi* <1>, M. Dal Cin<1,2>, S. Picotti<2>, D. Gel<2>, V. Isaev<3>, A. Pogorelov<3>, E. Gorskova<3>, D. Sergeev<4>, P. Kotov<3>, M.L. Rainone<1>	<1> Università degli Studi G. D'Annunzio, Italy; <2> OGS - National Institute of Oceanography and Applied Geophysics; <3> Lomonosov Moscow State University; <4> Geocryology Lab., Sergeev Institute of Environmental geoscience RAS
12:45	Ground Penetrating Radar application to assess the warming effect of the road on polygonal peat bogs in the northern part of the Pur-Taz interfluvium	M. Sudakova<1>, D. Kaverin<3>, A.Khomutov<2>	<1> Lomonosov Moscow State University; <2> Earth Cryosphere Institute Tyumen SC SB RAS; <3> Institute of Biology of Komi SC UB
13:00	Geophysical methods within the complex of investigations aimed at studying outburst glacial lakes on the example of the Progress Lake (Larsemann Hills oasis, East Antarctica)	S. Grigoreva<1,2>, E.R. Kinjabaeva<1,2>, M.R. Kuznetsova<2>, M.P.Kashkevich<2>	<1>Arctic and Antarctic Research Institute; <2> Saint-Petersburg State University
13:15	New geophysical approaches to the study of subaquatic permafrost in the Russian Arctic shelf	A. Pirogova<1>, M. Tokarev<1>, Z. Zlata<1>, A. Roslyakov<1>, A. Suchkova<1>, E. Biruykov<2>, N. Rybin<3>, V. Khoshtariya<3>	<1>Lomonosov Moscow State University; <2> SPLIT LLC; <3> Gazprom Nedra LLC
13:30	The influence of thermokarst on subsea permafrost evolution	M. Angelopoulos<1,2>, P.P. Overduin<1>, S. Westermann<3>, M. Jennrich<1,2>, J. Strauss<1>, S. Liebner<4,5>, L. Schirmer<1>, M.N. Grigoriev<6>, G. Grosse<1>	<1>Alfred Wegener Institute Helmholtz Center for Polar and Marine Research; <2>University of Potsdam, Institute of Geosciences; <3>University of Oslo; <4> GFZ German Centre of Geosciences, Section Geomicrobiology; <5>University of Potsdam, Institute of Biochemistry and Biology; <6> Melnikov Permafrost Institute of SB RAS
13:45	Lunch		
Agriculture & Ecosystems			
	Chair: Pavel Ryzantsev	Chair: Esther Bloem	
14:30	The use of ERT to identify irrigation patterns and efficiency in potato fields	T. Manhaeghe<2>, F. Wagner<3>, T. Astic<4>, D. Fournier<4>, P. Janssens<5>, S. Garre<1,2>	<1> Research Institute for Agriculture, Fisheries and Food; <2> Liège Université (ULiège); <3> Institute for Applied Geophysics and Geothermal Energy, RWTH Aachen University; <4> University of British Columbia; <5> Soil service of Belgium (BDB)
14:45	Detecting spatial variability of soil compaction using soil apparent electrical conductivity and maize traits	L. Ren<1,3>, W. Cornelis<1>, T. D'Hose<2>, G. Ruysschaert<2>	<1> Department of Environment, Ghent University, Belgium; <2> Plant Sciences Unit, Flanders Research Institute for Agriculture, Fisheries and Food (ILVO), Belgium; <3> Institute of Agricultural Resources and Regional Planning Chinese Academy of Agricultural Sciences
15:00	Ground-penetrating radar (GPR) for solving problems of soil science: state of the art and prospects	P. Ryzantsev	Karelian Research Centre RAS
15:15	In-vivo monitoring of daily water cycle in palm date trees using electrical resistivity	P. Fernandez* <1>, Zhen J.<1>, Furman A.<2>, Lazarovitch N.<1>	<1>Ben Gurion University of the Negev; <2> Technion – Israel Institute of Technology, Haifa, Israel
15:30	Determination of tree trunks different species moisture content by GPR tomography	M.Sudakova* <1,2>, E.B. Terentjeva <1>, A.Yu. Kalashnikov <3>	<1> Lomonosov Moscow State University; <2> Earth Cryosphere Institute Tyumen SC SB RAS; <3> NRU MGSU
15:45	Coffee break		
Breaking the barriers			
	Chair: Sarah Garré	Chair: Benjamin Mary	
16:00	Opportunities for open science and FAIR practices in geophysics		
16:30	Breaking the barriers between researchers from the EU and Russia to enhance future collaborations on geophysics		
16:50			
17:10	Closing the Workshop		