

Technical Program of the Geothermal Volcanology Workshop 2018. Программа Международного научного совещания по проблемам геотермальной вулканологии

September 4, 2018

**14:00 – 18:00 Registration, IVS FEB RAS room 227 phone ## +7 909 839 2727 (RU)
+7 962 217 1813 (ENG)**

18:00 – 20:00 Icebreaker, IVS room 116

September 5, 2018

9:00 Registration, IVS FEB RAS

10:00	<u>Kiryukhin A.V.</u>	Introduction to Geothermal Volcanology Workshop 2018, Technical Program and Fieldtrips	IVS, Russia
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HYDROTHERMAL SYSTEMS ADJACENT TO ACTIVE AND EXTINCT VOLCANOES

Convener: Gennady Karpov

10:20	<u>Nikolaeva A.G., Karpov G.A.</u>	Hydrothermal Activity in Karymsky Lake (East Kamchatka). ПОДВОДНЫЕ ГИДРОТЕРМЫ В КАЛЬДЕРНОМ ОЗЕРЕ КАРЫМСКОМ (ВОСТОЧНАЯ КАМЧАТКА)	IVS, Russia
10:40	<u>Malik N.</u>	TEMPERATURE AND GAS COMPOSITION OF THE AVACHINSKY VOLCANO FUMARoles (КАМЧАТКА) IN 2013-2018	IVS, Russia
11:00	<u>Kalacheva E.G.</u>	CHEMICAL AND ISOTOPIC COMPOSITION (δD and $\delta^{18}O$) OF THERMAL WATERS OF THE KURIL ISLANDS (RUSSIA)	IVS, Russia
11:20	<u>Voronin P.O.</u>	Water Isotope Studies of the Koryaksky-Avachinsky volcanogenic basin and Paratunsky geothermal fields	IVS, Russia

11:40 Break

SEISMICITY IN GEOFLUID VOLCANIC AND HYDROTHERMAL SYSTEMS. MAGMATIC FEEDING SYSTEMS OF ACTIVE VOLCANOES

Convener: Alexey Kiryukhin

12:00	<u>Kugaenko Y.A., Volynets A.O.</u>	Magmatic plumbing systems of the Tolbachik areal volcanic field	KB GS RAS IVS, Russia
12:20	<u>Kopylova G.N., Boldina S.V., Chubarova E.G.</u>	Water level conditions in the well E-1 as an indicator of geodynamic conditions in Koryaksky-Avachinsky volcano-tectonic depression, Kamchatka. ИЗМЕНЕНИЯ УРОВНЯ ВОДЫ В СКВАЖИНЕ E-1 КАК ПОКАЗАТЕЛЬ ГЕОДИНАМИЧЕСКОГО СОСТОЯНИЯ СРЕДЫ КОРЯКСКО-АВАЧИНСКОЙ ВУЛКАНО-	KB GS RAS

		ТЕКТОНИЧЕСКОЙ ДЕПРЕССИИ, КАМЧАТКА	
12:40	<u>Lemzikov V.K.</u> , Lemzikov M.V., Chernykh E.V., Kiryukhin A.V.	Applications of Methods of MEQ's Mechanisms Estimates to Koryaksky Volcano Activity in 2008-2009. Изучение и сопоставление методов определения механизмов вулканических землетрясений в период активизации вулкана Корякский в 2008-2009 гг.	IVS, Russia

13:00-14:00 Lunch

MAGMATIC FRACTURING AS AN ANALOGUE OF THE DEVELOPMENT OF HYDROCARBON RESERVOIRS WITH HARD-TO-RECOVER RESERVES

Convener: Sabine Klarner

14:00	<u>Beatriz Martínez Montesinos</u> , Boris Kaus	Simulating fluid injection in 3D poro-visco-elasto-plastic rocks	Johannes Gutenberg University, Mainz, Germany
14:20	<u>Korovina T.A.</u> , Kropotova E.P. **, Romanov E.A. *	Role of Hydrofracturing in Formation of Bazhen Oil Reservoir: Natural Mechanisms and Processes, Perspectives of the Modern Technologies. РОЛЬ ФЛЮИДОРАЗРЫВА В ФОРМИРОВАНИИ ЗАЛЕЖЕЙ В БАЖЕНОВСКОЙ СВИТЕ: ПРИРОДНЫЕ МЕХАНИЗМЫ И ПРОЦЕССЫ, ПЕРСПЕКТИВЫ СОВРЕМЕННЫХ ТЕХНОЛОГИЙ.	*ООО «Корэстет Сервис»,**SurgutNipiNefitumen, Russia
14:40	<u>Sabine Klarner</u> , Olaf Klarner	Identification of paleovolcanic rocks on seismic data	Klarenco LLC, Germany
15:00	<u>Solomatin A.V.</u> , Fedotov S.A., Kiryukhin A.V.	Geomechanical Interpretation of Seismicity: Applications for Seismic Forecast and Hydrocarbon Exploration	IVS, Russia

15:20 Break

MODELING THE EXPLOITATION OF GEOTHERMAL RESERVOIRS IN VOLCANIC AREAS. PROBLEMS OF USING GEOTHERMAL ENERGY IN VOLCANIC AREAS FOR HEAT AND ELECTRICITY SUPPLY.

Convener: Sergey Rychagov

15:40	<u>Vorozheikina L.A.</u>	Hidden volcanism in the Paratunsky geothermal field. Предполагаемый скрытый вулканизм на Паратунском геотермальном месторождении	JSC Teplo Zemli
16:00	<u>Chernev I.I.</u>	Perspectives of the Mutnovsky Geothermal Field Development	JSC Geotherm
16:20	<u>Polyakov A.Y.</u>	Conditions of water and heat recharge of the Mutnovsky production geothermal	IVS, Russia

		reservoir (Kamchatka, Russia)	
16:40	<u>Zhuravlev N.B.</u>	Modeling Studies of the Paratunsky geothermal field	IVS, Russia

MECHANISM OF GEYSER FUNCTIONING AND CYCLICITY IN HYDROTHERMAL SYSTEMS

Convener: Valery Droznin

17:00	<u>Rychkova T.V.</u>	Modeling and Observations of the Geysers	IVS, Russia
17:20	<u>Sergeeva A. V.</u>	Mineral Composition of the Velikan Geyser (Geysers Valley, Kamchatka)	IVS, Russia
17:40	<u>Delemen I.F.</u>	SYNTHESIS OF INITIAL GEOLOGICAL DATA FOR THE PURPOSES OF MODELING OF EXPLOITATION OF A BOLSHE-BANNY GEOTHERMAL FIELD: METHODS AND RESULTS	IVS, Russia

RESERVE PRESENTATIONS

	<u>Nevzat Özgür</u>	Conceptual modeling of the geothermal waters in the continental rift zones of the Menderes Massif, western Anatolia, Turkey	Suleyman Demirel University, Isparta, Turkey
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18:00 -19:00 Volcanological Museum of the Institute of Volcanology & Seismology FEB RAS

20:00 -23:00 BANQUET

(additional payment 3000 rubles required)

Schedule of the GVW-2018 Field Trips

Date	Event	Time & Place
September, 6 th 2018	Field trip 1	The Koryaksky Volcano's Dyke Fields and Thermal Mineral Springs , 9:00 – 19:00
	Field trip 3	Valley of Geysers, 14:00 – 20:00
September, 7 th 2018	Field trip 2	Mutnovsky & Paratunsky Geothermal Areas, 9:00 – 19:00
September, 8 th 2018	Reserve the day for a Field trip 2 or 3 in case of bad weather conditions on Sept, 7 th 2018	Field trip 2 or 3