

Ministry of Science and Higher Education of the Russian Federation

**Research Geotechnological Center of
Far Eastern Branch of the Russian Academy of Sciences**

2nd International Geothermal Conference

GEOHEAT 2018



September 04–07, 2018

Petropavlovsk-Kamchatsky

Second Announcement (May 21, 2018)

Organizing Committee:

Chair Roman I. Pashkevich *Research Geotechnological Center of Far Eastern Branch of Russian Academy of Sciences, Russian Federation*

Members

Alibek B. Alkhasov *Institute for Geothermal Problems of the Daghestan Scientific Centre of the Russian Academy of Sciences, Russian Federation*

Alper Baba *Geothermal Energy Research and Application Center, Izmir Institute of Technology, Republic of Turkey*

Graeme Beardsmore *Hot Dry Rocks, Australian Geothermal Association, Australia*

Dornadula Chandrasekharam *Indian Institute of Technology Hyderabad, India*

Surya Darma *Indonesia Renewable Energy Society, Republic of Indonesia*

Sergei A. Fedotov *Institute of Physics of the Earth of the Russian Academy of Sciences, Russian Federation*

Mikhail D. Khutorskoi *Geological Institute of the Russian Academy of Sciences, Russian Federation*

Vladimir P. Kobolev *S.I. Subbotin Institute of Geophysics of the National Academy of Sciences of Ukraine, Ukraine*

Thomas Kohl *Institute of Applied Geosciences, Karlsruhe Institute of Technology, Federal Republic of Germany*

Margaret Krieger *International Geothermal Association, Federal Republic of Germany*

John W. Lund *Geo-Heat Center, Oregon Institute of Technology, United States of America*

Peter Meier *Geo-Energie Suisse, Switzerland*
George Melikadze *Research Center of Hydrogeophysics and Geothermy, Institute of Geophysics, Ivane Javakhishvili Tbilisi State University, Georgia*
Abdulvahab Mukhtarov *Department of Geothermics, Geology and Geophysics Institute of Azerbaijan National Academy of Sciences, Republic of Azerbaijan*
Mike O'Sullivan *Department of Engineering Science, University of Auckland, New Zealand*
Zhonghe Pang *Institute of Geology and Geophysics, Chinese Academy of Sciences, Peoples Republic of China*
Yuri A. Popov *Skolkovo Institute of Science and Technology, Russian Federation*
Árni Ragnarsson *Iceland GeoSurvey, Iceland*
Jesus Rueda *Asociación Colombiana De Estudiantes De Geociencias, Republic of Colombia*
Sheng-Rong Song *Department of Geosciences, National Taiwan University, Taiwan, China*
Saulius Sliupa *Laboratory of Bedrock Geology, Institute of Geology and Geography, Republic of Lithuania*
Yoonho Song *Korea Institute of Geoscience and Mineral Resources, Republic of Korea*
Mario-Cesar Suarez-Arriaga *International Geothermal Association – Mexican Geothermal Association, United Mexican States*
Yuri P. Trukhin *Research Geotechnological Center of Far Eastern Branch of Russian Academy of Sciences, Russian Federation*
Ernest Tshibalo *University Teaching and Learning Development, University of South Africa, Republic of South Africa*
Grigori P. Vasiliev *Insolar Invest, Russian Federation*
Albert Waibel *Columbia Geoscience, United States of America*
Vladimir I. Zui *Belarusian State University, Republic of Belarus*

GEOHEAT is an annual geothermal international conference. The first conference GEOHEAT2017 was held in 2017. Twenty-seven papers of the scientists and professionals from 5 countries worldwide (Russia, Germany, New Zealand, Mexico and Taiwan) were presented in a plenary session. The attendants presented twelve scientific and educational institutions, three production companies and one business administration. There were more than 100 registered participants. Four scientific trips were carried out as a part of the conference. The representative of International Geothermal Association participated in the conference.

Today the preliminary program has been made. 41 plenary and 12 poster presentations will be presented at the Second International Geothermal Conference GEOHEAT 2018. A total number of participants is expected to be not less than 100 persons.

The preliminary conference program includes reports from 18 countries (Azerbaijan, Bangladesh, Bulgaria, China, Colombia, Costa Rica, Democratic Republic of the Congo, France, Germany, Indonesia, Kyrgyzstan, Mexico, Russia, Switzerland, Tajikistan, Uganda, Ukraine, USA).

The event will contribute to the solution of a number of fundamental problems: the development of theoretical issues of geothermics and heat flow of the Earth; establishment of new features of thermophysical processes in the geothermal water field development with supercritical thermodynamic parameters; the establishment of geothermal parameters of the Earth crust on basis of advanced experimental technologies (continuous thermal core logging technology, instruments for thermal property measurements at formation conditions, accounting of rocks heterogeneity, as well as micro- and macroanisotropy), and on this basis the geothermal resources revaluation, including geothermal resources maps.

The planned event will be of great importance for the development of the above directions. Since not only representatives of academic institutions, universities and research laboratories, but also representatives of the geothermal industry, private geothermal research companies and resource developers who will be present at the conference among the participants and speakers, the scientific results will be able to find practical application.

Goals:

The goals of the conference are to distribute scientific and industrial information concerning current state of geothermal science, technology and industry; to share knowledge and results in theory, methodology, technology and applications of geothermal science; to bring together scientists, researchers, engineers, students and managers interested in geothermal science; to promote geothermal innovations; provide a forum to exchange ideas on the exploration, development and use of geothermal resources; to encourage international communication and collaboration.

Topics for talks, posters, and panel discussions:

- Theoretical Issues of Geothermics and Heat Flow
- Geothermal Resources in Extensional and Compressional Settings
- Geosciences
- Case Studies
- Exploration
- Field Management
- Electricity Generation
- Drilling and Well Bore Flows
- Reservoir Engineering and Numerical Simulation
- EGS/HDR
- Geology of Geothermal Fields
- Geochemistry of Geothermal Fields
- Thermal Properties of Geothermal Fields Rocks
- Low Enthalpy Systems and Direct Use
- Geothermal Heat Pumps
- Geothermal Hydrogen
- Magma Chambers
- Economics

Conference Location:

The conference venue is in the Research Geotechnological Center of Far Eastern Branch of Russian Academy of Sciences, Petropavlovsk-Kamchatsky, Russia.

Kamchatka is a very unique region of Russia. It is a part of Pacific Ring of Fire (circum-Pacific orogenic belt) and it is washed by cold Okhotsk Sea, Bering Sea and the Pacific Ocean. Petropavlovsk-Kamchatsky is the capital of Kamchatka peninsula. It is a sea-port and one of the most spectacular towns in the whole world. It is a land of Hot Springs and geysers, volcanoes and valleys with lush vegetation.

Kamchatka is a zone of modern volcanism. It has about 30 active volcanoes, about 300 extinct and destroyed volcanoes, more than 2500 cones, a great number of cold mineral and thermal hot springs and geysers. The Mutnovsko-Gorely Group is located about 80 km south of Petropavlovsk-Kamchatsky on the south side of Avacha Bay. Mutnovsky volcano has the one of the

world's largest fumarole fields; and it is one of the most active volcanoes in Kamchatka. Mutnovskaya Geothermal Power Station was built at the foot of this volcano.

Flora and fauna are very rich and unique. There are some giant species (up to 3-3.5 m) which grow on a rich volcanic soil. The fauna includes 170 species of birds and 60 species of mammals. Beside numerous rivers, waterfalls and lakes Kamchatka has enormous reserves of fresh water. Kamchatka's rivers are a spawning place for one of the world largest populations of salmon.

September in Kamchatka is a symphony of colors. It is a beneficial and exciting time to travel around the peninsula. In September there are no permanent fog, rain and slush. The weather is splendid, the temperature is comfortable.

The **Petropavlovsk Kamchatsky** airport is about 20 km from city border in [Yelizovo](#). Most visitors arrive here from [Moscow](#), but there are flights via Vladivostok and [Khabarovsk](#).

There is a preliminary conference program below.

The participation of new persons is welcome. In this case we will wait for all documents (registration letter, brief bio, abstract, full paper, presentation, copy of passport and information for visa arrangement) till June 15, 2018. It takes much time (about a month) to process an invitation letter and visa and for translation the presentation into Russian.

Important Dates and Deadlines:

Final and True Deadline for new participants (for oral presentations and posters):

All Documents Submission (registration letter, brief bio, abstract (the abstract text is limited to 200 words), full paper, presentation, copy of passport and information for visa arrangement):

June 15, 2018

Notification of Full Papers Acceptance:

July 1, 2018

Final Agenda (with information about plenary session or/and sections):

July 15, 2018

Third Announcement:

August 1, 2018

Please, send your registration letter to e-mail: geoheat2018@yandex.ru

In your **registration letter** would you be so kind to give the information as follows:

1	First name, Family name	
2	Country and city of residence	
3	Affiliation	
4	Occupation	

5	Degree	
6	Contact telephone number Mobile number Fax	
7	E-mail	
8	Postal address	
9	Brief bio	
10	Paper title	
11	Abstract, 1-2 pages	
12	Presentation type: Oral Poster Panel discussion	
13	Major theme	
14	Willingness for scientific field trips	

Registration Fee is free of charge

Contact

Mailing Address:

Research Geotechnological Center, Far Eastern Branch of Russian Academy of Sciences, Severo-Vostochnoye shosse, 30, Petropavlovsk-Kamchatsky, 683002, Russian Federation.

Phone: +7(415-2) 495-435

Fax: +7(415-2) 495-435

Director

Roman I. Pashkevich

E-mail: geoheat2018@yandex.ru

Accommodation

Accommodation and hotel booking is made by the Conference participants personally. Hotels information is presented on the <https://www.booking.com/city/ru/petropavlovsk->

kamchatskiy.ru.html?aid=356993;label=gog235jc-hotel-ru-ru-adacha-unspec-ru-com-L%3Aru-O%3AwindowsSxp-B%3Afirefox-N%3AXX-S%3Abo-U%3Ac-H%3As;sid=f6e01b94faff1435fbd6c1bc50e48624;breadcrumb=hotel&

Official languages

The official language of this conference is English. Speaker can do oral presentation either in Russian or English. Those speakers, who can report both in English and Russian but prefer to speak one of these languages, should deliver a presentation in the format of power point both in English and Russian.

Speakers who will do oral presentation in English and haven't the possibility to do it in Russian should deliver a presentation in the format of power point in English.

Proceedings and instructions for abstract submissions

The abstract text is limited to 200 words.

Papers should be limited to a maximum length of 5000 words.

The proceedings of full papers are supposed to be published in IOP Conference Series: Earth and Environmental Science (EES). It is indexed in Scopus, as well as EI Compendex and Inspec. Authors need to follow the journal guidelines when formatting their papers, these are available from the website at <http://conferenceseries.iop.org/content/authors>.

Full papers presented at the Conference will be published in IOP Conference Series by the beginning of the conference after the peer review.

Presentations

There will be presentation of the papers in two languages (English and Russian) simultaneously. English version will be on one screen, Russian on another. Or there will be half of each slide in Russian and half in English simultaneously in the same window, using Power Point.

There are not special rules for presentation layout.

The time for paper presentation including the answers for the questions is not more than 20 minutes.

Visa

The documents for visa application will be prepared. Participants should send passport photocopy to e-mail: geoheat2018@yandex.ru as soon as possible. Then invitation-letter for visa arrangement to the Russian Federation will be sent.

The following information is necessary to make visa arrangement:

- 1) the copy of your passport;
- 2) which cities will be better for you for further visa processing;
- 3) the state and the city of your birth;
- 4) the state and the region of your permanent residence;
- 5) full name of your place of work;
- 6) full address of your place of work;
- 7) your position in your organization;
- 8) through what Russian cities will you get to Petropavlovsk-Kamchatsky;
- 9) the completed registration form with the title of your report.

This information should be delivered by 1st July, 2018.

Scientific field trips

You can visit Mutnovsky hot springs, geothermal field and GeoPP located 120 km South-West from Petropavlovsk-Kamchatsky city. Mutnovsky GeoPP is the largest one in the Russian Federation. We can offer you a helicopter trip to the Geyser Valley or a flight to the Avacha volcano, a trip to the Malkinskoe and Ketkinskoe fields of thermal water and ethnic settlement Kaynyran.

The planned scientific field trip and their approximate cost:

Vehicle trip to the Mutnovskaya GeoPP	<i>120 USD</i>	<i>7700 RUS rubles</i>
Helicopter Trip To The Geyser Valley or flight to the Avacha volcano	<i>up to 695 USD</i>	<i>up to 44500 RUS rubles</i>
Vehicle trip to the Malkinskoe field of thermal water	<i>50 USD</i>	<i>3200 RUS rubles</i>
Vehicle trip to the Ketkinskoe field of thermal waters and ethnic settlement «Kaynyran»	<i>50 USD</i> <i>100 USD</i>	<i>3200 RUS rubles</i> <i>7400 RUS rubles</i>

Helicopter trip always depends on the weather. If the weather is good, such trip takes place. If the weather is non-flying, the trip is arranged on another day.

If somebody wants to visit other excursions, you can arrive earlier. Inform the organizing committee about it, please.

The cost of the scientific field trip is depended on numbers of participants and will be specified at the time of their carrying out.

The persons interested to visit the scientific field trips have to provide decision no later August 15, 2018.

Oral and Poster Presentations

Material may be presented in one of the following presentation types:

- Oral
- Poster

Terms, conditions and rates

All terms, conditions, dates and rates are subject to change (without any other notifications).

The conference will be held during 4 days (September 04-07, 2018). Two days will be devoted to oral presentations and posters. During other two days participants can visit scientific field trips. Trips are paid on site. The information about additional scientific field trips will be presented in the Third Announcement. It will be sent to the participants.

Preliminary GEOHEAT 2018 Conference Program

At the time being we don't break down the preliminary program according to the days and time and present the participants in an alphabetic order. The final program will be ready by July 15, 2018, because we expect other papers and participants.

REGISTRATION

ORAL PRESENTATIONS/ PANEL SESSION

1. **Alfaro-Valero Claudia María,
Rueda-Gutiérrez Jesús Bernardo**
The Colombian Geological Survey
(SGC), Bogotá, Colombia
Early Exploration of San Diego Geothermal
Area, Northwest Colombia
2. **Ralph Kacu Bacwa Nyakabwa-
Atwoki**
Sustenersol Uganda Ltd, Kampala,
Uganda
The New Frontier for Geothermal Energy
Investment and Development.
3. **T.P. Belova**
Research Geotechnological Center
FEB RAS, Petropavlovsk-
Kamchatsky, Russia
Boron and Lithium Recovery from Pauz-
hetsky and Mutnovsky Geothermal Heat
Carriers by Sorbents on Basis of Modified
Silicates and Aluminosilicates of the Depo-
sits of the Kamchatka Krai.
4. **Elsa Maria De La Calleja Mora**
Instituto De Investigaciones En Mate-
riales, Universidad Nacional Autono-
ma De Mexico, Mexico
Physical Properties in Synthetic Porous Me-
dia under Reservoir Conditions.
5. **I.I. Chernev**
Joint Stock Company "Geotherm",
Petropavlovsk-Kamchatsky, Russia
New Data on Resources of Mutnovskaya
Geothermal Field.
6. **I.I. Chernev**
Joint Stock Company "Geotherm",
Petropavlovsk-Kamchatsky, Russia
Basis of Well Productivity Increase at Kam-
chatka Steam Water Geothermal Field.
7. **Surya Darma**
Indonesia Renewable Energy Society
(METI-IRES), Jakarta, Indonesia
Indonesia Geothermal Energy Human Re-
sources Development Strategy.
8. **I.F. Delemen**
Institute of Volcanology and Seismol-
ogy FEB RAS, Petropavlovsk-
Kamchatsky, Russia
On the Interpretation of Gas-Geochemical
Mapping of the Hydrothermal Reservoirs
Caprock.
9. **R.P. Dorofeeva**
Geothermal Regime and Deep Temperatures

- Institute of the Earth's Crust, Siberian Branch of Russian Academy of Sciences, Irkutsk, Russia
- of the Siberian Platform with Comparison of the Baikal Rift Zone.
10. **Zhaohong Fang**
Shandong Jianzhu University, Jinan, China
The Ground-Coupled Heat Pump Technology in China.
 11. **Alain Gadalia**¹, Bouchot V.², Calcagno P.², Caritg S.³, Courrioux G.², Darnet M.², Jacob T.², Labeau Y.³, Taïlamé A.L.⁴, Terrier M.², Thinon I.², Vittecoq B.⁴
¹BRGM, French Geological Survey, Orléans, France
Multimodal Geothermal Exploration in the Lesser Antilles Arc at the Lamentin Lowland (Martinique).
 12. **V.A. Gorbach**
Research Geotechnological Center FEB RAS, Petropavlovsk-Kamchatsky, Russia
Purification of Exhausted Geothermal Heat Carrier from Arsenic Compounds.
 13. **L.C.A. Gutiérrez-Negrín**
Geocónsul, SA de CV, CeMIE-Geo & GEMex Project, Morelia, Mexico
Current Status of Geothermal-Electric Production in Mexico.
 14. **Vladimir Hristov**¹, Nikolay Stoyanov², Sava Kolev¹, Aleksey Benderev¹
¹Geological Institute – Bulgarian Academy of Sciences, Sofia, Bulgaria
Utilization of Low Enthalpy Geothermal Energy in Bulgaria.
 15. **Adam Jones**
LAIKA LLC, Hillsboro, USA
Geothermal Abundance in the Cascade Range (Washington/ Oregon/ N. California).
 16. **V.A. Kudryashov**
Regional Centre of Energy Development and Energy Conservation of the Kamchatsky Krai, Petropavlovsk-Kamchatsky, Russia
Perspective Scheme of Heat Supply in Elizovo City on Basis of Thermal Resources of Verkhne-Paratunsky Geothermal Heat Supply.
 17. **Wissing Lothar**
Project Management Juelich PTJ-ESE 4, Division: Energy System - Renewable Energies / Power Plant Technology, Geothermal Energy, Hydropower, Science Communication, Juelich, Germany
IEA Geothermal – Participant of the Technology Collaboration Programmes of the International Energy Agency.
 18. **Levesque Makuku Mbo**
Kinshasa University, Petroleum, Gas and Renewable Energy Faculty, Kinshasa Township, DRC
Inventory of Geothermal Sources in the DRC and Their Development Plan for the Electrification of Locals Areas. Case of the Eastern Part of the DRC.

19. **D.V. Mamaev, R.I. Pashkevich**
Research Geotechnological Center of
FEB RAS, Petropavlovsk-
Kamchatsky, Russia
Thermohydrodynamic Simulation of Koshe-
levo Geothermal System in Kamchatka.
20. **Beatriz Martínez Montesinos, Boris**
J.P. Kaus and Anton A. Popov
Johannes Gutenberg University of
Mainz, Germany
Simulating Fluid Injection in Complex Rhe-
ologies.
21. **Mohammed Masum, Md. Ali Akbar**
Geological Survey of Bangladesh,
Dhaka, Bangladesh
The Pacific Ring of Fire is Working as a
Home Country of Geothermal Resources in
the World.
22. **Camilo Matíz**
The Colombian Geological Survey
(SGC), Bogotá, Colombia
Application of Remote Sensing Techniques
in the Estimation of Surface Temperature
Models as Support for Geothermal Explora-
tion in Colombia.
23. **P. M. Meier, F. Guinot**
Geo-Energie Suisse AG, Zürich,
Switzerland
Adapting Unconventional Oil and Gas
Completion technology: a Key Factor in Re-
ducing Risks Associated to EGS Projects.
24. **Romain J.A. Metge**
Services Industriels Lausanne,
Lausanne, Switzerland
Geothermal Exploration in a Foreland Ba-
sin: Study Case of a Swiss City.
25. **Abdulahab Mukhtarov**
Geology and Geophysics Institute of
Azerbaijan National Academy of
Sciences, Baku, Azerbaijan
Magmatic and Mud Volcanoes as Ways of
Internal Heat of the Earth to Surface.
26. **S.V. Muradov**
Research Geotechnological Center
FEB RAS, Petropavlovsk-
Kamchatsky, Russia
Ecological Influence of Thermomineral Wa-
ters of the Paratunsky Hydrothermal Deposit
of the Kamchatka Krai on the Bottom Sedi-
ments of Silty Sulphide Therapeutic Mud.
27. **A.G. Nurmukhamedov, M.D. Sido-
rov**
Research Geotechnological Center
FEB RAS, Petropavlovsk-
Kamchatsky, Russia
Geothermal Resources in the South of Kam-
chatka According to the Data of Deep Geo-
physical Studies.
28. Nova Dany Setyawan¹, **Nugroho**
Agung Pambudi^{1*}, Frandhoni Uto-
mo¹, Lip Huat Saw², Mert Gürtürk³,
SaeidMohammadzadeh Bina
¹Sebelas Maret University, Surakarta,
Indonesia
Performance Improvement of Drysteam
Geothermal Power Plant by Employing Bot-
toming Binary System

29. **R.I. Pashkevich, A.V. Shadrin**
Research Geotechnological Center of FEB RAS, Joint Stock Company "Geotherm", Petropavlovsk-Kamchatsky, Russia
Breakdown of Discontinuity in Geothermal Systems under Supercritical Thermodynamical Conditions
30. **Yu.A. Popov**, E. Popov, E. Chekhonin, M. Spasennykh and A. Goncharov
Skolkovo Institute of Science and Technology, Moscow, Russia
Evolution in Information on Crustal Geothermal Parameters due to Application of Advanced Experimental Basis.
31. **V.V. Potapov**, D.S. Gorev, S.V. Zubaha, Ye.V. Shunina
Research Geotechnological Center FEB RAS, Petropavlovsk-Kamchatsky, Russia
Colloid Silica in Hydrothermal Heatcarrier: Characteristics, Technology of Extraction, Industrial Applications.
32. **V.A. Semchev**
Regional Centre of Energy Development and Energy Conservation of the Kamchatsky Krai, Petropavlovsk-Kamchatsky, Russia
Geothermal Energy in the Terms to Transfer the Power Economy of the Kamchatka Krai into Renewable Energy Sources.
33. **M.D. Sidorov, V.V. Taskin**
Research Geotechnological Center FEB RAS, Petropavlovsk-Kamchatsky, Russia
Studying the Permeability of the Earth Upper Crust by Surface Photography in the Region of Nalychevo Deposit of Thermomineral Water.
34. **Leonardo Solís, Sulamith Kastl**
ICE Instituto Costarricense de Electricidad, Costa Rica.
Verification of Applied Geophysical Procedures to Standardize Protocols for Geothermal Exploration in Central America.
35. **Mario-César Suárez-Arriaga**
International Geothermal Association & Mexican Geothermal Association, Morelia, México
Thermodynamics of Deep Supercritical Geothermal Systems.
36. **Vu Van Tich**, T T Thang², N V Vuong¹, D X Thanh¹, H V Hiep¹, P H Thanh², P X Anh³, V V Duc¹, N H Giang⁴, N T Oanh⁵
¹VNU University of Science, Faculty of Geology, Hanoi, Vietnam.
Active Tectonic Controls on Hydrothermal Flow in the Northern Part of Vietnam: Implications for the Geothermal Exploration at Uva Geothermal Reservoir in Dien Bien Phu Basin.
37. **G.P. Vasiliev**
Joint Stock Company "Insolar-Invest", Moscow, Russia
Efficiency of Geothermal Systems Using in Geothermal Heat Pump Systems in the Geoclimatic Conditions of Russia.
38. **Mahendra P. Verma**
Instituto Nacional de Electricidad y
GeoSteam.Net: Steam Transport Simulation in a Three-Reservoirs Pipeline Network.

Energías Limpias, Cuernavaca, Mexico

39. **L. A. Vorozheykina**, N.P Asaulova, N.V. Obora
Joint Stock Company "Heat of the Earth, Thermalny", Russia
Hydrotherms and Volcanoes of Kamchatka.
40. **Albert Waibel**
Columbia Geoscience, Hillsboro, USA
Fluid Sources and Flow Paths of Non-Magmatic Convective Geothermal Resources in Extensional And Compressional Terranes.
41. **Keyan Zheng**
Geothermal Council of China Energy Society, Beijing, China
Industrialized Geothermal Development in China: Past and Future.

POSTERS

1. **Ermek Baybagyshov, Nadira Degembaeva**
Naryn State University after named S.Naamatov, Naryn, Kyrgyzstan
Assessment of the Use of Renewable Energy in the Naryn Region of Kyrgyzstan (in Russian).
2. **Raymond A. Duraiswami^{1,2}, Aristotle Monterio¹, Shrishail Pujari¹, Ahsan Absar³, Upananda Low^{2,3}, Nitin R. Karmalkar^{1,2}**
Department of Geology, Savitribai Phule Pune University, Pune, India
Petrophysical Variations Within the Basaltic Lava Flows from Tural-Rajawadi Hot Springs, Western India and Their Bearing on the Viability of Low-Enthalpy Geothermal Systems.
3. **Z.H. Gaibullaeva, G.T. Nasymov, B.I. Asrorov**
Tajik Technical University named after Academician M.S.Osimi
Branch of the National Research Technological University "MISIS" in Dushanbe, Dushanbe, Tajikistan
Study of Geothermal Layers of the Fon-Yagnab Deposit of the Republic of Tajikistan.
4. **V.V. Gordienko**
Institute of Geophysics, Ukrainian Academy of Sciences, Kiev, Ukraine
1. Geothermal Resources of Ukraine.
2. Relation of Thermal, Velocity and Gravity Models of the Kamchatka Mantle.
3. The Energy Balance of the Earth's Tectosphere.
4. Parameters of Magma Chambers.
5. **R.I. Kutas, V. P. Kobolev**
S.I. Subbotin Institute of Geophysics, National Academy of Science of Ukraine, Kiev, Ukraine
The Thermal Regime of the Southern Margin East-European Craton.

6. ¹S.P. Levashov, ¹N.A. Yakymchuk, ²**I.N. Korchagin**, ²R.I. Kutas, ³D. Majcin, ¹D.N. Bozhezha
²Institute of Geophysics, National Academy of Science of Ukraine, Kiev, Ukraine
Mobile and Direct-Prospecting Methods: the Possibility of Their Application for Areas of Geothermal Water Accumulation Searching and Mapping.
7. **A.A. Shevchenko, O.V. Shiganova**
Novosibirsk State University of Architecture and Civil Engineering (Sibstrin), Novosibirsk, Russia
Renewable Ecologically Friendly Source of Thermal Energy in Western Siberia (Russia).
8. **V.B. Svalova**
IEG RAS, Moscow, Russia
Geothermal Resources Complex Utilization in Russia.
9. D.A. Alkhasova¹, V.N. Sokotushchenko², **V.M. Torchinsky**², V.M. Zai-chenko²
Joint Institute for High Temperatures of RAS, Moscow, Russia
Peculiarities of Excitation of Self-Oscillations in Geological Systems.
10. **Tshibalo Azwindini Ernest**
University of South Africa, Pretoria, South Africa
The Development of Geothermal Resources.
11. **Ouyang Xinnan**
F&S Cleantech Limited, Beijing, China
Successful Application of ATES/Groundwater Source Heat Pump in China.
12. **Chen Zihui**
China Institute of Geo-Environment Monitoring, Beijing, China
Geothermal Fault and Geothermal Well Drilling.