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**15th Caspian Energy Forum**

**"Energy Dialogue in the Context of Ensuring International Energy Security"**

**April 19-21, 2023**

**Venue: Moscow, MGRI. full-time and remote**

**program**

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|  | **April 19, 2023** |
| during the day | Arrival of participants in the city of Moscow.  Check-in of participants in hotels. |
| 09:00-09:55 am | Registration of participants.  Welcome tea, coffee. |
| 10:00 am-12:15 pm | **Strategic session**  **"Energy Dialogue in the context of ensuring international energy security"** |
| Location | **Moscow, MGRI conference hall №6** |
| Co-moderators | **Viktor Kalyuzhny,** Chairman of the Presidium of the Council of “Science and Innovation of the Caspian Sea”, Ambassador Extraordinary and Plenipotentiary of the Russian Federation  **Alexey Kontorovich**, Academician of the Russian Academy of Sciences, Advisor of the Russian Academy of Sciences, Member of the Presidium of the SB RAS, Scientific supervisor of the A.A. Trofimuk Institute of Petroleum Geology and Geophysics of the SB RAS, Scientific supervisor of the of the Council of “Science and Innovation of the Caspian Sea” |
| Discussion topic | • Development of interregional and international energy dialogue, including with subjects of promising energy markets  • Assessment of potential energy resources of the Caspian region  • Forecast of oil and gas exploration operations in the Caspian region, capable of providing expanded reproduction of hydrocarbon reserves, maintaining and increasing production levels for the medium and long term  • Research and forecasts of natural, man-made, technological and geological risks for the development of hydrocarbons in the Caspian Sea region and the organization of their supplies to foreign markets  • Ways to improve the level of integrated security of critical facilities of the fuel and energy complex  • Prospects for replacing supplies of technologies and equipment to Russian fuel and energy companies from countries that supported sanctions against Russia;   * Development of scientific and technological cooperation with interested countries to create innovative and import-substituting products for the sectors of the energy complex |
| Opening remarks | **Viktor Kalyuzhny,** Chairman of the Presidium of the Council of “Science and Innovation of the Caspian Sea”, Ambassador Extraordinary and Plenipotentiary of the Russian Federation |
| **Welcome speech**  (invited) | **Dmitry Kobylkin, Chairman of the Committee of the State Duma of the Federal Assembly of the Russian Federation on Ecology, Natural Resources and Environmental Protection**  **Ilkhom Nematov, Deputy Secretary General of the CIS Executive Committee**  **Sohail Khan, Deputy Secretary General of the Shanghai Cooperation Organization**  **Danara Alimbayeva, Chairman of KASPCOM, Director General of RSE "Kazhydromet", Permanent Representative of Kazakhstan to the WMO**  **Igor Shumakov, Head of the Federal Service for Hydrometeorology and Environmental Monitoring**  **Gennady Krasnikov,** President of the Russian Academy of Sciences, Academician of the Russian Academy of Sciences  **Yuri Panov,** Rector of S.Ordzhonikidze Russian State Geological Exploration University  **Extraordinary and Plenipotentiary Ambassadors of the countries of the Caspian region in the Russian Federation** |
| Key report | **Alexey Kontorovich**, Academician of the Russian Academy of Sciences, Advisor of the Russian Academy of Sciences, Member of the Presidium of the SB RAS, Scientific supervisor of the A.A. Trofimuk Institute of Petroleum Geology and Geophysics of the SB RAS, Scientific supervisor of the of the Council of “Science and Innovation of the Caspian Sea” |
| Invited reports | **Myrat Atajanov, Director of the Caspian Sea Institute (Turkmenistan)** |
| Speeches | **Sergey Gorkov,** General Director-Chairman of the Management Board of JSC “Rosgeologiya”  **Anatoly Dmitrievsky,** Academician of the Russian Academy of Sciences, Scientific Director of the Institute of Oil and Gas Problems of the Russian Academy of Sciences  **Zakir Namin oglu Eminov,** Director General of the Institute of Geography of the Ministry of Science and Education of the Republic of Azerbaijan, Doctor of Geographical Sciences  topic of the speech: "The role of the oil and gas industry in the sustainable development of the Republic of Azerbaijan"  **Behrouz Abtahi,** Vice-Rector of Shahid Beheshti Tehran State University, Professor (IRI)  topic of the speech: “Environmental aspects of industrial development of the southern coast of the Caspian Sea”  **Petr Zavyalov**, Deputy Director of the P.P. Shirshov Institute of Oceanology of the Russian Academy of Sciences for Scientific and Organizational Work, Head of the Laboratory of Interaction of the Ocean with Land Waters and Anthropogenic Processes, Doctor of Geographical Sciences, Corresponding Member of the Russian Academy of Sciences  topic of the speech: “Research with the participation of IO RAS in the Kazakhstan sector of the Caspian Sea”  GC "TURKMENGAZ"  GC "TURKMENNEFT"  **Vitaly Butuzov,** General Director of VO "Electrotechnology", Doctor of Technical Sciences, Professor  topic of the speech: “Renewable energy in Russia”  **Elena Ostrovskaya,** Coordinator of the Coordinating Committee for Hydrometeorology of the Caspian Sea (KASPCOM), Director of the Federal State Budgetary Institution "Caspian Marine Research Center" of the Federal Hydrometeorological Service of Russia  topic of the speech: "Climate change in the Caspian Sea region: growing risks for marine activities"  **Vladimir Ushivtsev**, Director of the Caspian Branch of the P.P. Shirshov Institute of Oceanology of the Russian Academy of Sciences  topic of the speech:“Studying macroplankton using underwater telemetry”  **Konstantin Markelov,** Rector of V.N. Tatishchev Astrakhan State University  topic of the speech: “Development of scientific and technological cooperation with the countries of the Caspian macroregion” |
|  | Discussion of participants |
| 12:15-12:30 pm | **tea and coffee break** |
| 12:30-14:00 pm | **Focus session**  **"Development of the oil and gas complex of the Caspian countries in the context of modern challenges"**  **1st meeting: “geological exploration for oil and gas in the caspian region. prospects for cooperation”.** |
| Location | **Moscow, MGRI conference hall №6** |
| Co-moderators | **Georgy Trigubovich**, Doctor of Technical Sciences, Director of Geophysics of JSC "EM-EXPLORATION"  **Oleg Merkulov**, Managing Director of JSC "NVNIIGG" JSC "Rosgeologiya" |
| Discussion topic | * Geological structure and assessment of oil and gas potential of the Caspian Sea * Geological risks, environmental and energy security of the Caspian region * Promising exploration programs in the countries of the Caspian region * Presentation of promising directions and technologies of oil and gas exploration in the Caspian region |
| Speeches  (for 7 minutes) | JSC "Rosgeologiya"  SC "Turkmengeology"  **Albert Ambrosimov,** chief researcher of the P.P. Shirshov Institute of Oceanology RAS, Doctor of Physical and Mathematical Sciences  topic of the speech: “Modern studies of the dynamics of the Caspian Sea”  **Georgy Trigubovich,** Doctor of Technical Sciences, Director for Geophysics of EM-razvedka JSC  topic of speech: (to be agreed)  **Yury Sirotinsky,** Leading Researcher, Head of the Interdepartmental Laboratory of the Federal State Budgetary Institution "IPChE RAS", Candidate of Technical Sciences  topic of the speech: "Nature-like microseismic technologies for hydrocarbon exploration as a way to reduce the environmental costs of the oil and gas industry" |
| 02:00-02:55 pm | **Lunch break** |
| 03:00-04:30 pm | **Focus session**  **"Development of the oil and gas complex of the Caspian countries in the face of modern challenges"**  **2nd meeting: “Extraction, processing, transportation”.** |
| Location | **Moscow, MGRI conference hall №6** |
| Co-moderators | **Mustafa Babanli, Rector of the Azerbaijan State University of Oil and Industry**  **Alexander Khavkin,** Director of the Scientific Center for Technologies for the Development of Hard-to-Recover Oil Reserves of Academician A.P. Krylov All-Russian Oil and Gas Research Institute, Professor of the Department of Oil and Gas and Underground Hydromechanics of the I.M. Gubkin Russian State University of Oil and Gas" |
| Discussion topic | • Actual technological requests of oil and gas companies in the region  • Innovations in the field of exploration, development, development and transportation of hydrocarbon resources in the Caspian Sea  • Technologies for the development of "mature" fields  • Impact on the Caspian ecosystem during the extraction and transportation of hydrocarbons   * Processing of hydrocarbons in the Caspian countries. Modern technological solutions and environmental programs. |
| Invited reports  (12-15 minutes) | **Vasily Bogoyavlensky,** Corresponding Member of the Russian Academy of Sciences, Deputy Director for Research, Head of the Laboratory, Chief Researcher at Institute of Oil and Gas Problems RAS  topic of the report: “Achievements, prospects and problems in the development of hydrocarbon resources of the Caspian Sea” (authors: Bogoyavlensky V.I., Bogoyavlensky I.V.) |
| Speeches  (for 7 minutes) | **Nikolai Eremin,** Chief Researcher at Institute of Oil and Gas Problems RAS, Doctor of Technical Sciences, Professor of the I.M. Gubkin Russian State University, Deputy Chairman of Forum 5 - "New Technologies in Geosciences" of the 24th World Petroleum Congress, 2023  topic of the speech: “Strategic directions for the development and development of oil and gas fields” (authors: Eremin. N.A., Stolyarov V.E.)  **Mustafa Babanli**, Rector of the Azerbaijan State University of Oil and Industry  **Vladimir Stolyarov,** Member of the Scientific and Technical Council of PJSC Gazprom, Deputy Head of the Analytical Center for Energy Policy and Security of the Oil and Gas Institute of the Russian Academy of Sciences  topic of the speech: "Strategic directions for the development and development of oil and gas fields" (authors: Eremin N.A., Stolyarov V.E.)  PAO TMK  Natural Gas Research Institute of Turkmenistan  Turkmenbashi oil refinery complex  **Alexander Khavkin,** Director of the Scientific Center for Technologies for the Development of Hard-to-Recover Oil Reserves of JSC "Academician A.P. Krylov All-Russian Oil and Gas Research Institute", Doctor of Technical Sciences, Professor of the Department of Oil and Gas and Underground Hydromechanics of the I.M. .Gubkin Russian State University of Oil and Gas  **topic of the speech**: "Reducing the cost of oil production by domestic technologies for limiting water inflow"  **Sergey Vorobyov,** Senior Researcher, ISEM SB RAS, сandidate of technical sciences (authors: Senderov S.M., Vorobyov S.V.)  topic of the speech: "Problems of searching for critical energy infrastructure facilities"  **Gennady Kuprin**, General Director of LLC NPO “SOPOT”, candidate of technical sciences, full member of NANPB  topic of the speech: “The latest technologies for explosion and fire prevention and fire extinguishing at critical facilities of the fuel and energy complex”  **Marina Buyanova,** Professor of the Higher School of Economics, Doctor of Law  topic of the speech: “Minimization of natural fires in the Caspian region” |
| 04:30-04:45 pm | **tea and coffee break** |
| 04:30-04:45 pm | **Signing of agreements of intent** |
| 04:30-06:30 pm | **CASPIAN YOUTH ENERGY SESSION** |
| Location | **Moscow, MGRI, hall of the Academic Council** |
| Co-moderators | **Petina Victoria Alexandrovna, student of MGRI**  **Saidov Saidjon Sukhrobovich, student of MGRI** |
| Speeches  (for 7 minutes) | **Dmitry Pokrovsky, Acting Director of the Department of State Youth Policy and Educational Activities of the Ministry of Science and Higher Education of the Russian Federation**  **Victoria Petina, student of MГРИ**  **topic of the speech: “Research of the karst failure”**  **Vyacheslav Ovchinnikov, postgraduate student at IPOG RAS**  **topic of the speech: “To the choice of the best type of production wells for fields with high heterogeneity in the Caspian region”**  **Dmitriy Zaitsev, graduate student, IPNG RAS**  **topic of the speech: “The use of secondary hydraulic fracturing as an environmentally friendly technology for enhanced oil recovery”.**  **Liliya Zinatullina, Junior Researcher, IOGS RAS**  **topic of the speech: “Analysis of paleotectonic reconstructions based on the results of basin modeling in assessing the prospects for oil and gas potential of the Lower-Middle Jurassic complex of the Karsko-Yamal-Gydan gas-oil accumulation region”**  **Pulat Khodzhaev, student of the Faculty of Oil, Gas and Environmental Engineering, Dagestan State Technical University**  **topic of the speech: “A possible strategy for prospecting and exploration in the Dagestan sector of the Caspian Sea shelf”**  **Pavel Khlebopashev, Researcher of the P.P. Shirshov Institute of Oceanology**  **topic of the speech: “Transformation of the hydrochemical composition of the Volga runoff under the conditions of lowering the level of the Caspian Sea”.**  **Saidjon Saidov, student of МГРИ**  **topic of the speech: “NeoTron - Neutron logging geophysical instrument with equipment for excitation and stop of the fusion reaction”** |
| 04:45-06:30 pm | **Round table**  **"Significance and prospects for the development of green energy in the countries of the Caspian region"** |
| Location | **Moscow, MGRI, Small Hall of the Academic Council** |
| Moderator | **Vitaly Butuzov,** General Director of VO "Electrotechnology", Doctor of Technical Sciences, Professor |
| Invited reports  (12-15 minutes) | **Vyacheslav Kulagin,** Head of the Department for Research of the Energy Complex of the World and Russia, ERI RAS  topic of the report: "The role of the gas industry in the development of energy in the Caspian countries" |
| Speeches  (for 7 minutes) | **Natalia Solovieva, Leading Researcher at the P.P. Shirshov Institute of Oceanology of the Russian Academy of Sciences, Doctor of Physical and Mathematical Sciences**  topic of the speech: **“Assessment of environmental risk for the offshore ecosystem of the Caspian Sea based on modeling”**  **Zaur Tagir oglu Imrani, Executive Director of the Academician Hasan Aliyev Institute of Geography of the Ministry of Science and Education of the Republic of Azerbaijan, Candidate of Geographical Sciences, Associate Professor**  **topic of the speech: "The importance of environmental safety in the development of the Caspian Sea in the interests of developing the tourism potential of the Caspian part of the Azerbaijani sector"**  **Dr. Masoud Sadrinasab,** Head of Center for International Scientific Studies and Collaboration(CISSC)  **Akhmet Penjiev,** Doctor of Agricultural Sciences, Candidate of Technical Sciences, Academician of MANEB, Professor, Corresponding Member of the Russian Academy of Natural Sciences, Associate Professor of the Department of Automation of Production Processes of the Turkmen State Institute of Architecture and Civil Engineering  **Rasul Aliyev, General Director of JSC Geothermneftegaz, Professor, Head of the Department of Oil and Gas Engineering of Dagestan State Technical University, Doctor of Technical Sciences**  **topic of the speech:"Techniques and technologies for the use of thermal waters in Dagestan.(using the example of Geoecoprom LLC)"**  **Alibek Alkhasov, Director of the Institute of Geothermal and Renewable Energy Problems of the Branch of the Russian Academy of Sciences, Doctor of Technical Sciences, Professor**  **topic of the speech: "Complex development of highly parametric hydrogeothermal resources of the North Caucasus region"**  **Mikhail Abaturov**, Senior Researcher, A.N. Frumkin Institute of Physical Chemistry and Electrochemistry RAS"  topic of the speech: “The development of the lithium resources of the Caspian Sea is the basis for maintaining sustainable development during the transition to a new 5th technological order” (authors: Abaturov M.A., Sirotinsky Yu.V., Tsivadze A.Yu., IPChE RAS)  **Viktor Kurbatsky,** Chief Researcher of the Institute of Energy Systems of the Siberian Branch of the Russian Academy of Sciences, Doctor of Technical Sciences  topic of the speech: "Improving the accuracy of forecasting the power generation of wind farms of the Apsheron Peninsula based on recurrent neural networks LSTM"  **Amirkhan Matyakubov**, Researcher at the Research and Production Center "Renewable Energy Sources" of the State Energy Institute of Turkmenistan  topic of the speech: “The potential of using technical oils of Turkmenistan in concentrated solar stations”  **Vladimir Ilyichev**, Junior Researcher of the Scientific and Educational Center "Alternative Energy", postgraduate student of the V.N. Tatishchev ASU  topic of the speech: "Improving the energy efficiency of photovoltaic modules in the climatic conditions of the Astrakhan region" |
| 04:45-06:30 pm | **Round table**  **"Import substitution and new areas of cooperation in the field of oil and gas and electric power equipment"** |
| Location | **Moscow, MGRI hall № 6** |
| Discussion topic | * Offers from technology developers and equipment manufacturers, construction and oil and gas service companies * Instruments of state support in the implementation of import substitution policy in the fuel and energy sector * New areas of cooperation in the field of oil and gas and electric power equipment |
| Moderator  invited | **Anatoly Fomkin,** Head of Laboratory, A.N. Frumkin Institute of Physical Chemistry and Electrochemistry RAS |
| Speeches  (for 7 minutes) | **Durdymyrat Gadamov**, Doctor of Chemical Sciences, Director of the Technology Center of the Academy of Sciences of Turkmenistan  **Valery Salnikov**, General Director of ChromoSib Service Center LLC  topic of the speech: "Complex gas chromatographic analysis of technological and commercial oil and gas raw materials and products"  **Boris Rozman, Leading researcher, Head of the Laboratory of Underwater Video Technology of the P.P.Shirshov Institute of Oceanology of the Russian Academy of Sciences, Candidate of Technical Sciences**  **topic of the speech: "Remote-controlled underwater inspection vehicles "GNOME""**  **Anatoly Fomkin, Head of the Laboratory of the Frumkin Institute of Physical Chemistry and Electrochemistry of the Russian Academy of Sciences,**  topic of the speech: **"Adsorbed Natural Gas is a promising low–carbon energy source"**  **Maksim Solodyankin**, Innovation Director of Moskabel Plant LLC, Candidate of Physical and Mathematical Sciences  topic of the speech: “Innovative cable technologies for the Caspian region”  **Ivan Ter-Mateosyants,** Director of the Scientific and Industrial Association of Valve  Builders  topic of the speech: “An integrated approach to ensuring import independence of oil and gas complex enterprises in terms of pipeline fittings" |
|  | **Discussion. Summing up the results.** |
| 06:30 pm | **Signing of agreements of intent** |
| 06:30 pm | **Approaches to the press. PHOTOSESSION** |
| 06:45-09:00 pm | **dinner** |
|  | **April 21, 2023** |
| During the day | **Departure of participants from hotels.** |