

ORGANIZING COMMITTEE

VIII International Conference «Gas Transportation Systems: Present and Future» (GTS-2019)

Vitaly A. Markelov	Chairman of the Committee	Deputy Chairman of the Management Committee	Gazprom PJSC
Oleg E. Aksyutin	Member of the Committee	Deputy Chairman of the Management Committee, Head of Department	Gazprom PJSC
Vyacheslav A. Mikhaleiko	Deputy Chairman of the Committee	Member of the Management Committee, Head of Department	Gazprom PJSC
Maxim Yu. Nedzvetskiy	Deputy Chairman of the Committee	Deputy Head of Department, General Director	Gazprom PJSC, Gazprom VNIIGAZ LLC
Andrey B. Skrepnyuk	Member of the Committee	Deputy Head of Department, Head of the Directorate	Gazprom PJSC
Vasily G. Nikitin	Member of the Committee	First Deputy Head of Department	Gazprom PJSC
Vladimir A. Vagarin	Member of the Committee	General Director	Gazprom proektirovaniye LLC
Alexander V. Babakov	Member of the Committee	General Director	Gazprom transgaz Moskva LLC
Alexey V. Kryukov	Member of the Committee	General Director	Gazprom transgaz Ekaterinburg LLC
Alexander V. Gayvoronsky	Member of the Committee	General Director	Gazprom transgaz Ukhta LLC
Anatoly I. Titov	Member of the Committee	General Director	Gazprom transgaz Tomsk LLC, Daltransgaz JSC
Denis A. Vasyukov	Member of the Committee	General Director	Gazprom transgaz Krasnodar LLC
Georgy A. Fokin	Member of the Committee	General Director	Gazprom transgaz Saint-Petersburg LLC
Petr M. Sozonov	Member of the Committee	General Director	Gazprom transgaz Yugorsk LLC
Nikolay P. Alyoshin	Member of the Committee	Academician of RAS, Head of Chair at Bauman Moscow State Technical University	Russian Academy of Sciences, Bauman Moscow State Technical University

Nikolay A. Makhutov	Member of the Committee	Member-Correspondent of RAS, Chairman of RAS Presidential Task Force on Risk and Safety Analysis	Russian Academy of Sciences
Vladimir V. Kharionovsky	Member of the Committee	Science Editor	Gas Industry magazine
Victor.G. Martynov	Member of the Committee	Principal	Gubkin Russian State University of Oil and Gas (NRI)
Sergey V. Nefedov	Member of the Committee	Head of the Corporate R&D Centre for Technical State and Integrity Management of Production Facilities	Gazprom VNIIGAZ LLC
Alexander Z. Shaykhutdinov	Member of the Committee	Deputy General Director for Science	Gazprom VNIIGAZ LLC
Boris A. Grigoriev	Member of the Committee	Head of the Academic Council, Professor, Member-Correspondent of RAS	Gazprom VNIIGAZ LLC
Leonty V. Eder	Member of the Committee	Deputy General Director for Prospective Development	Gazprom VNIIGAZ LLC
Victor M. Silkin	Member of the Committee	Deputy Head of the Corporate R&D Centre for Technical State and Integrity Management of Production Facilities	Gazprom VNIIGAZ LLC
Sergey Yu. Sainikov	Member of the Committee	Head of the Corporate R&D Centre for Gas Transportation Systems and Technology	Gazprom VNIIGAZ LLC
Vladimir A. Egorov	Member of the Committee	Head of the Corporate R&D Centre for Tubulars and Welding Technologies Development	Gazprom VNIIGAZ LLC
Dmitry N. Zapevalov	Member of the Committee	Head of the Corporate R&D Centre for Corrosion Monitoring and Protection	Gazprom VNIIGAZ LLC
Yury A. Mayants	Member of the Committee	Head of the Corporate R&D Centre for Construction, Operation and Repair Technologies	Gazprom VNIIGAZ LLC
Alexey A. Levin	Member of the Committee	Head of the International Economic Relations Service	Gazprom VNIIGAZ LLC
Kirill A. Demyanov	Member of the Committee	Head of Conference and Exhibition Division, Organizational Directorate	Gazprom VNIIGAZ LLC
Yulia G. Shishkova	Secretary of the Committee	Chief Expert of Conference and Exhibition Division, Organizational Directorate	Gazprom VNIIGAZ LLC

PROGRAM COMMITTEE
VIII International Conference
«Gas Transportation Systems: Present and Future»
(GTS-2019)

Vyacheslav A. Mikhaleiko	Chairman of the Committee	Member of the Management Committee, Head of Department	Gazprom PJSC
Vasily G. Nikitin	Deputy Chairman of the Committee	First Deputy Head of Department	Gazprom PJSC
Maxim Yu. Nedzvetskiy	Deputy Chairman of the Committee	Deputy Head of Department, General Director	Gazprom PJSC, Gazprom VNIIGAZ LLC
Andrey N. Bronnikov	Member of the Committee	Deputy Head of Department	Gazprom PJSC
Oleg N. Melekhin	Member of the Committee	General Director	Gazprom Gas Engine Fuel LLC
Nikolay A. Kislenko	Member of the Committee	Deputy Head of Department, General Director	Gazprom PJSC, NIIgazeconomika LLC
Vladimir V. Vavilov	Member of the Committee	Deputy Head of Department	Gazprom PJSC
Victor A. Seredenok	Member of the Committee	Head of Directorate	Gazprom PJSC
Anatoly A. Shapovalo	Member of the Committee	Head of Directorate	Gazprom PJSC
Anatoly V. Chepkasov	Member of the Committee	Head of Directorate	Gazprom PJSC
Vadim A. Shlepkin	Member of the Committee	Head of Directorate	Gazprom PJSC
Victor R. Olexeychuk	Member of the Committee	Head of Division	Gazprom PJSC
Nikolay B. Nesterov	Member of the Committee	Head of Directorate	Gazprom PJSC
Andrey B. Arabey	Member of the Committee	Head of Division	Gazprom PJSC
Stanislav V. Adamenko	Member of the Committee	Chief Engineer – First Deputy General Director	Gazprom transgaz Ukhta LLC
Alexey O. Prokopets	Member of the Committee	Deputy General Director for Compressor Stations Operation	Gazprom transgaz Yugorsk LLC

Sergey V. Tvardievich	Member of the Committee	Deputy General Director for Production	Gazprom transgaz Krasnodar LLC
Irek S. Kharisov	Member of the Committee	Deputy General Director for Production	Gazprom transgaz Saint-Petersburg LLC
Oleg A. Isaev	Member of the Committee	Deputy General Director for Production	Gazprom transgaz Tomsk LLC
Alexander V. Muradov	Member of the Committee	Vice Principal for Research	Gubkin Russian State University of Oil and Gas (NRI)
Anatoly M. Korolenok	Member of the Committee	Head of the Chair for Oil Products and gas Supply, DSc in Engineering, Professor	Gubkin Russian State University of Oil and Gas (NRI)
Sergey V. Nefedov	Member of the Committee	Head of the Corporate R&D Centre for Technical Status and Integrity Management of Production Facilities	Gazprom VNIIGAZ LLC
Alexander Z. Shaykhutdinov	Member of the Committee	Deputy General Director for Science	Gazprom VNIIGAZ LLC
Leonty V. Eder	Member of the Committee	Deputy General Director for Prospective Development	Gazprom VNIIGAZ LLC
Vladimir S. Safonov	Member of the Committee	Chief Research Associate of the Centre for Prospective Development and Technological Efficiency	Gazprom VNIIGAZ LLC
Victor M. Silkin	Member of the Committee	Deputy Head of the Corporate R&D Centre for Technical Status and Integrity Management of Production Facilities	Gazprom VNIIGAZ LLC
Sergey Yu. Salnikov	Member of the Committee	Head of the Corporate R&D Centre for Gas Transportation Systems and Technologies	Gazprom VNIIGAZ LLC
Sergey I. Dolgov	Member of the Committee	Head of the Corporate R&D Centre for Risk, Civil Protection, Industrial and Fire Safety Management	Gazprom VNIIGAZ LLC

Vladimir A. Egorov	Member of the Committee	Head of the Corporate R&D Centre for Tubulars and Welding Technologies Development	Gazprom VNIIGAZ LLC
Dmitry N. Zapevalov	Member of the Committee	Head of the Corporate R&D Centre for Corrosion Monitoring and Protection	Gazprom VNIIGAZ LLC
Yury A. Mayants	Member of the Committee	Head of the Corporate R&D Centre for Construction, Operation and Repair Technologies	Gazprom VNIIGAZ LLC
Sergey P. Sevostyanov	Member of the Committee	Deputy Head of the Corporate R&D Centre for Tubulars and Welding Technologies Development	Gazprom VNIIGAZ LLC
Taymuraz S. Esiyev	Member of the Committee	Head of Pipeline Laboratory of the Corporate R&D Centre for Tubulars and Welding Technologies Development	Gazprom VNIIGAZ LLC
Vladimir A. Schurovskiy	Member of the Committee	Leading Research Associate of the Corporate R&D Centre for Gas Transportation Systems and Technologies	Gazprom VNIIGAZ LLC
Mikhail Yu. Panov	Secretary of the Committee	Leading Research Associate of the Corporate R&D Centre for Technical Status and Integrity Management of Production Facilities	Gazprom VNIIGAZ LLC

CONFERENCE SCHEDULE

VIII International Conference Gas Transportation Systems: Present and Future (GTS-2019)

Razvilka

Gazprom VNIIGAZ LLC

October 23, 2019, Wednesday

8.30–9.00	Meeting of the conference participants	Domodedovskaya subway station, Milan hotel
9.00–10.00	Registration of the conference participants and guests. Download of presentations. Morning coffee	1 st floor, E Building, Gazprom VNIIGAZ LLC
10.00–12.00	Plenary Session	Conference hall 302, 3 rd floor, E Building
12.00–12.30	Exhibition	1 st , 2 nd , 3 rd and 4 th floors, E Building
12.00–12.30	Coffee break	1 st , 3 rd and 4 floors, E Building
12.30–13.30	Plenary Session	Conference hall 302, 3 rd floor, E Building
13.30–14.20	Lunch	Restaurant of Gazprom VNIIGAZ hotel
14.20–17.00	Technical Sessions	Gazprom VNIIGAZ LLC
14.20–17.00	Session A Technologies of main gas transportation	Conference hall 204, 2 nd floor, E Building
14.20–17.00	Session B Design, construction and operation of compressor stations	Conference hall 202, 2 nd floor, E Building
14.20–17.00	Session C GTS technical state and integrity management	Conference hall 302, 3 rd floor, E Building
14.20–17.00	Session D Tubulars, welding and allied technologies, factory coatings	Conference hall 203, 2 nd floor, E Building
14.20–17.00	Session E Construction, repair and corrosion protection of gas transportation facilities	Conference hall 213, 2 nd floor, Main Building
9.00–17.00	Session S Poster session	2 nd floor, Main Building
9.00–17.00	Exhibition «Gas Transportation Systems: Present and Future»	1 st , 2 nd , 3 rd and 4 th floors, E Building
17.00–17.15	Coffee break	1 st floor, E Building

17.15	Transfer to Gala dinner	Central entrance, E Building
18.00–22.00	Gala Dinner. Entertainment program	Moscow, River Palace Ship
22.00	Transfer to Domodedovskaya subway station, Gazprom VNIIGAZ hotel and Milan hotel	Moscow

October 24, 2019, Thursday

8.10–8.30	Meeting of the conference participants	Domodedovskaya subway station, Milan hotel
8.15–9.00	Download of presentations. Morning coffee	Gazprom VNIIGAZ LLC
9.00–18.00	Technical Sessions	Gazprom VNIIGAZ LLC
9.00–18.00	Session A Technologies of main gas transportation	Conference hall 204, 2 nd floor, E Building
9.00–18.00	Session B Design, construction and operation of compressor stations	Conference hall 202, 2 nd floor, E Building
9.00–18.00	Session C GTS technical state and integrity management	Conference hall 302, 3 rd floor, E Building
9.00–18.00	Session D Tubulars, welding and allied technologies, factory coatings	Conference hall 203, 2 nd floor, E Building
9.00–18.00	Session E Construction, repair and corrosion protection of gas transportation facilities	Conference hall 213, 2 nd floor, Main Building
9.00–11.00	Technical Sessions	2 nd and 3 rd floors, E Building, 2 nd floor, Main Building
11.00–11.30	Coffee break	1 st , 3 rd and 4 floors, E Building, 2 nd floor, Main Building
11.30–13.10	Technical Sessions	2 nd and 3 rd floors, E Building, 2 nd floor, Main Building
13.20–14.20	Lunch	Restaurant of Gazprom VNIIGAZ hotel
14.20–16.00	Technical Sessions	2 nd and 3 rd floors, E Building, 2 nd floor, Main Building
16.00	Coffee break	1 st and 3 rd floors, E Building, 2 nd floor, Main Building

16.20–18.00	Technical Sessions	2 nd and 3 rd floors, E Building, 2 nd floor, Main Building
9.00–18.00	Exhibition «Gas Transportation Systems: Present and Future»	1 st , 2 nd , 3 rd and 4 th floors, E Building
18.00	Dinner	Restaurant of Gazprom VNIIGAZ hotel
20.00	Departure of the Conference participants to Domodedovskaya subway station and Milan hotel	Central entrance of Gazprom VNIIGAZ hotel

October 25, 2019, Friday

8.10	Meeting of the conference participants	Domodedovskaya subway station, Milan hotel
8.15–9.00	Download of presentations. Morning coffee	Gazprom VNIIGAZ LLC
9.00–11.00	Round tables	Gazprom VNIIGAZ LLC
9.00–11.00	Round table 1 Risk-based design, construction and operation of gas pipelines	Conference hall 204, 2 nd floor, E Building
9.00–11.00	Round table 2 Digital transformation of GTS	Conference hall 202, 2 nd floor, E Building
9.00–11.00	Round table 3 Violation of protected zones and minimum distances: best practices of GTS safe operation	Conference hall 213, 2 nd floor, Main Building
9.00–11.00	Round table 4 Technological breakthrough: advanced equipment, materials and technologies for gas transportation and storage	Conference hall 203, 2 nd floor, E Building
11.00–11.30	Coffee break	1 st floor, E Building
11.30–12.30	Round tables continue	Conference halls 202, 203, 204, E Building; conference hall 213, 2 nd floor, Main Building
12.30–13.00	Wrap-up plenary session «Challenging issues of gas transportation systems», session chairmen reports, decision making	Conference hall 302, 3 rd floor, E Building
9.00–13.00	Exhibition «Gas Transportation Systems: Present and Future»	1 st , 2 nd , 3 rd and 4 th floors, E Building
13.00–14.00	Lunch	Restaurant of Gazprom VNIIGAZ hotel
14.00	Departure of the conference participants to Domodedovskaya subway station and Milan hotel	Central entrance of Gazprom VNIIGAZ hotel

PROGRAM

VIII International Conference «Gas Transportation Systems: Present and Future»

Razvilka

Gazprom VNIIGAZ LLC

October 23, 2019, Wednesday

PLENARY SESSION (Conference hall 302, E building)

Chairman: **Vitaly A. Markelov-**
Deputy Chairman of the Gazprom PJSC Management Committee

Co-Chairmen: **Oleg Y. Aksyutin –**
Deputy Chairman of the Management Committee,
Head of Department, Gazprom PJSC

Vyacheslav A. Mikhaleiko–
Member of the Management Committee, Head of Department,
Gazprom PJSC

Maxim Yu. Nedzvetskiy –
Deputy Head of Department, Gazprom PJSC General Director,
Gazprom VNIIGAZ LLC

Vasily G. Nikitin–
First Deputy Head of Department, Gazprom PJSC

Nikolay P. Alyoshin –
Academician of RAS, Head of Chair, Bauman Moscow State
Technical University

9.00–10.00	Registration of participants, download of presentations. Morning coffee (1st floor, E building)
10.00–10.20	OPENING OF THE CONFERENCE
	Maxim Yu. Nedzvetskiy – <i>(Deputy Head of Department, Gazprom PJSC, General Director, Gazprom VNIIGAZ LLC)</i>
	OFFICIAL GREETINGS
	Pavel Yu. Sorokin <i>(Deputy Minister of Energy of the Russian Federation)</i>
	Vitaly A. Markelov <i>(Deputy Chairman of the Management Committee, Gazprom PJSC)</i>
	Pavel N. Zavalny <i>(Head of Energy Committee of the State Duma of the Russian Federation, Head of Russian Gas Society)</i>

		<p>Bogdan V. Budzulyak (President of NP SRO «Asgink», Professor, doctor of technical Sciences, Honored worker of oil and gas industry of the Russian Federation, full member (academician) of the Academy of Mining Sciences, Academy of Technological Sciences, Russian Academy of Engineering)</p>
		<p>Yana A. Voyteshonok (Deputy Executive Director of the Association of Equipment Manufacturers «New gas industry technologies», PhD)</p>
		<p>Alexey P. Petrov (Director of the Association «Design Engineer», Director of the Association «Survey Engineer»)</p>
PRESENTATIONS		
10.20	P1	<p>P.Yu. Sorokin (Ministry of Energy of the Russian Federation) The role of gas industry in the implementation of the energy strategy of the Russian Federation Speaker – Pavel Sorokin (Deputy Minister of Energy of the Russian Federation)</p>
10.40	P2	<p>V.A. Mikhailenko, A.N. Bronnikov (Gazprom PJSC) Trunk gas transportation. Major aspects Speaker – Vyacheslav Mikhailenko (Member of the Management Committee, Head of Department)</p>
11.00	P3	<p>M.Yu. Nedzvetskiy (Gazprom PJSC, Gazprom VNIIGAZ LLC), R.R. Kantyukov, S.V.Nefedov, P.G. Tsybulsky (Gazprom VNIIGAZ LLC) Prospective development trends of the management system for the technical status and integrity of GTS facilities Speaker – Maxim Nedzvetskiy (Deputy Head of Department, Gazprom PJSC, General Director, Gazprom VNIIGAZ LLC, PhD in Economics)</p>
11.20	P4	<p>N.P. Alyoshin (Russian Academy of Sciences, Bauman Moscow State Technical University) Welding production and diagnostics of welded joints: development trends Speaker – Nikolay Alyoshin (Academician of RAS, Head of Chair, Bauman Moscow State Technical University)</p>

11.40	P5	S.V. Alimov (Gazprom Avtomatizatsiya PJSC, SOPKOR Association) Technical regulation, standartization, harmonization and compliance assessment in addressing corrosion protection issues <i>Speaker – Sergey Alimov</i> (Deputy General Director, Gazprom Avtomatizatsiya PJSC, Chairman of the Board, SOPKOR Association)
12.00–12.30	Exhibition	
12.00–12.30	Coffee break	
12.30	P6	N.A. Makhutov (Russian Academy of Sciences, RAS Presidential Task Force on Risk and Safety Analysis, IMASH RAN), V.A. Nadein (Energodiagnostika NGB) Improving GTS strength and safety under extreme impacts <i>Speaker – Nikolay Makhutov</i> (Corresponding member of RAS, Chairman of the RAS Presidential Task Force on Risk and Safety Analysis)
12.50	P7	S.V. Trapeznikov, K.V. Postautov (Gazprom Transgaz Yekaterinburg LLC) Technical status and integrity management organization at gas trunkline facilities of Gazprom Transgaz Yekaterinburg LLC <i>Speaker – Konstantin Postautov</i> (Deputy Chief Engineer for Automation, Subwaylogical Support and Communications)
13.10	P8	S.V. Shtepa, A.Yu. Ksenitov (Gazprom StroyTEK Salavat JSC) Applying innovative composite materials to ensure integrated reliability and safety indicators performance at complex facilities <i>Speaker – Alexander Ksenitov</i> (Head of Development and Research Department)
13.30–14.20	Lunch	
14.20–17.00	Technical Sessions A, B, C, D, E	
18.00–22.00	GTS-2019 Official Gala Dinner. Entertainment Program (Moscow, River Palace Ship)	

TECHNICAL SESSIONS

October 23, 2019, Wednesday, 14.20–17.00

SESSION A

(Conference hall 204, E building)

TECHNOLOGIES OF MAIN GAS TRANSPORTATION

Chairman: **Vasily G. Nikitin** –
First Deputy Head of Department, Gazprom PJSC

Co-Chairmen: **Anatoly V. Chepkasov** –
Head of Directorate, Gazprom PJSC
Nikolay B. Nesterov –
Deputy Head of Directorate, Gazprom PJSC
Raphael R. Kantyukov –
Deputy Director General for Science of Gazprom VNIIGAZ LLC
Sergey Yu. Salnikov –
Head of the Corporate scientific and technical center of gas transportation systems and technologies, Gazprom VNIIGAZ LLC»
Vladimir S. Safonov –
Chief researcher Of the center for advanced development and efficiency of technologies, Gazprom VNIIGAZ LLC

14.20	A1	A.Yu. Kireev, A.A. Morgunov (Gazprom PJSC), M. Marinov (Nord Stream AG), V. Rott (GASCADE Gastransport GmbH) Ensuring the contractual gas quality parameters while transit via long offshore pipelines <i>Speaker – Alexander Kireev</i> <i>(Deputy Head of Department – Head of Directorate)</i>
14.40	A2	A.A. Kovalev (PSI LLC) Intelligent tools for decisions support for gas transport management <i>Speaker – Andrey Kovalev</i> <i>(Director of Department Oil & Gas)</i>
15.00	A3	Y.M. Zeldin (JSC «AtlanticTransgasSystem») The system of support of decision-making in automated process control systems of gas mains <i>Speaker – Yuri Zeldin (Head of Department)</i>
15.20	A4	F.V. Timofeev (Transneft R&D, LLC) Development of the system of ensuring the quality of petroleum products at pipeline transportation facilities <i>Speaker – Fedor Timofeev (Deputy Head of the Laboratory)</i>

15.40	A5	<p>N.A. Kislenko, (<i>Gazprom PJSC, NIlgazekonomika LLC</i>), M.G. Sukharev (<i>Gubkin Russian State University of Oil and Gas</i>), A.S. Kazak (<i>NIlgazekonomika LLC</i>)</p> <p>Problems of assessment of changes in natural gas composition during its transportation through the UGSS of the Russian Federation</p> <p><i>Speaker – Mihail Sukharev (chief researcher, doctor of technical Sciences, Professor)</i></p>
16.00	A6	<p>N.A. Kislenko (<i>Gazprom PJSC, NIlgazekonomika LLC</i>), K.O. Kosova (<i>NIlgazekonomika LLC</i>)</p> <p>Forecast of gas reserves in GTS on the basis of statistical data</p> <p><i>Speaker – Kseniya Kosova (senior researcher of system analysis Department system of the center of system analysis and development of the UGSS, Ph. D.)</i></p>
16.20	A7	<p>S.V. Ovcharov, U.V. Gamera, U.U. Petrov, S.I. Dolgov (<i>Gazprom VNIIGAZ LLC</i>)</p> <p>Methodological approach to integral assessment of industrial safety of gas distribution stations based on the results of production control and express accident risk analysis</p> <p><i>Speaker – Sergey Ovcharov (head of laboratory of technogenic risks and industrial safety)</i></p>
16.40	A8	<p>U.V. Gamera, U.U. Petrov, S.V. Ovcharov, L.V. Yagupova (<i>Gazprom VNIIGAZ LLC</i>)</p> <p><i>Critical overview of the radiating elements characteristics during fire accidents at gas industry facilities</i></p> <p><i>Speaker – Yuri Gamera (leading researcher)</i></p>
17.00–17.10	Coffee break. Exhibition	
17.15	Departure to Gala Dinner	
18.00–22.00	GTS-2019 Official Gala Dinner. Entertainment Program (Moscow, River Palace Ship)	

TECHNICAL SESSIONS

October 24, 2019, Thursday, 9.00–18.00

SESSION A

(Conference hall 204, E building)

TECHNOLOGIES OF MAIN GAS TRANSPORTATION

8.15–9.00		Registration of participants, download of presentations. Morning coffee (1st floor, E building)
9.00	A9	V.S. Safonov (<i>Gazprom VNIIGAZ LLC</i>), A.A. Shvyryaev (<i>Lomonosov Moscow State University</i>) Study of the impact of technical and technological and infrastructure factors on the scale of potential negative impact areas in case of accidents at NGL pipelines <i>Speaker – Sergey Dolgov (Head of the Corporate scientific and technical center for risk management, civil protection, industrial and fire safety)</i>
9.20	A10	A.M. Rudenko, S.V. Zhorov (<i>Gazprom transgaz Surgut LLC</i>) Approaches to digital transformation of gas transportation system for solving production management problems <i>Speaker – Sergey Zhorov (Deputy head of automation and subwaylogical support service)</i>
9.40	A11	Max.G. Anuchin, M.G. Anuchin, A.A. Anfalov, A.A. Arkhipov, A.N. Kuznetsov, N.S. Novakovsky, L.N. Shabanova (<i>FSUE «RFYaTs-VNIITF» named after academician EM. Zababakhin</i>) Application of «VOLNA» software and computing package to solve the problems of dispatcher's supervisory control of gas transportation systems <i>Speaker – Nikolay Novakovsky (research associate, Ph. D.)</i>
10.00	A12	A.V. Korotkov, G.V. Kaspiev (<i>Gazprom Transgaz Ukhta LLC</i>) Application of pvk «VOLNA» to calculate the rate of pressure reduction in case of the main gas pipeline rupture <i>Speaker – Anton Korotkov (principal engineer)</i>
10.20	A13 (B21)	A.V. Vinogradov (<i>Phoenix Contact RUS LLC</i>) «PHOENIX CONTACT» production in Russia: electrical components for gas transportation automation systems <i>Speaker – Andrey Vinogradov (Product Manager, Industrial Components and Electronics)</i>
10.40	A14	V.E. Kostjukov, V.I. Zhigalov, A.A. Kibkalo, V.P. Bashurin, A.G. Danilov (<i>FGUP «RFNC-VNIIEF», Sarov</i>) Multiphase fluid transfer with non-equilibrium interphasic exchange <i>Speaker – Alexander Danilov (senior researcher)</i>
11.00–11.30		Coffee break. Exhibition

11.30	A15	D.V. Gamov (GSP-Technology LLC) Development and implementation of a unified digital platform for participants in the process of managing the main life cycles of Gazprom's facilities <i>Speaker – Dmitry Gamov(Head of department)</i>
11.50	A16	N.A. Buznikov, V.A. Suleymanov (Gazprom VNIIGAZ LLC) Distinctive features of transport of gas with low content of liquid phase in lengthy relief offshore pipeline <i>Speaker – Nikita Buznikov (Deputy head of the laboratory)</i>
12.10	A17	A.Yu. Uss., A.V. Chernyshev (Bauman Moscow State Technical University) Development of the calculation method and designing of a vortex jet device for gas flow regulation purposes <i>Speaker – Alexander Uss (Deputy head of the laboratory)</i>
12.30	A18	O. U. Yakushenko («ServisSoft» LLC) «SKZP» crossings gas hazard monitoring system as a mechanism for improving the safety of gas transportation facilities operation <i>Speaker – Oleg Yakushenko (head of ACS TP RG)</i>
12.50	A19	A.I. Gazizyanov, K.Yu. Mironenko (PRAXAIR, LINDE) Application of mobile liquid nitrogen gas generators to optimize the process of creating inert media in the inner cavity of gas pipelines <i>Speaker –Arthur Gazizyanov (Director of service and special projects Department)</i>
13.10	Exhibition	
13.20–14.20	Lunch	
14.20	A20	N.B. Pystyna, Yu.V. Ukhina, L.V. Sharihina (Gazprom VNIIGAZ LLC) Carbon footprint assessment of different routes and modes of natural gas transportation <i>Speaker – Natalya Pystyna (Head of the Corporate scientific and technical center for environmental safety and energy efficiency)</i>
14.40	A21	G.A. Khvorov (Gazprom VNIIGAZ LLC) Improvement of energy efficiency indicators in the operation of GTS <i>Speaker – Georgy Khvorov (Head of the laboratory of energy saving and energy efficiency, PhD)</i>
15.00	A22	F.E. Vovk (Gazprom Transgaz Ukhta LLC) <i>Management of work in the field of energy saving by the example of «GAZPROM TRANSGAZ UKHTA» LLC</i> <i>Speaker – Fedor Vovk (Deputy Head of Department)</i>
15.20	A23	I.R. Bukhvalov, N.N. Akimov, S.V. Evseev (branch of RFYAC-VNIIEF «NIIS named after Y.E. Sedakov») Subsystem of unusual events detection (sued) <i>Speaker – Ivan Bukhvalov (leading researcher)</i>

15.40	A24	R.R. Kantyukov, A.L. Terekhov, U.A. Mayants (Gazprom VNIIGAZ LLC) Application of the noise diagnostics method at the UGSS facilities, challenges and opportunities <i>Speaker – Alexey Terekhov (chief researcher)</i>
16.00–16.20	Coffee break. Exhibition	
16.20	A25	I. Zhukov («NTC PB» JSC) Problems of blast resistance of buildings and structures of gas transportation systems hazardous facilities <i>Speaker – Ilya Zhukov (research scientist)</i>
16.40–17.00	Discussion of reports	
17.00–18.00	Visiting the exhibition and other technical sections	
18.00–20.00	Dinner	

TECHNICAL SESSIONS

October 23, 2019, Wednesday, 14.20–17.00

SESSION B

(Conference hall 202, E building)

DESIGN, CONSTRUCTION AND OPERATION OF COMPRESSOR STATIONS

Chairman: **Andrey N. Bronnikov** –
Deputy Head of Department, Gazprom PJSC

Co-Chairmen: **Mikhail Ye. Sidorochev** –
Deputy Head of Directorate, Gazprom PJSC

Anatoly A. Shapovalov –
Head of Directorate, Gazprom PJSC

Alexander Z. Shaykhutdinov –Deputy Director General for Science
of Gazprom VNIIGAZ LLC

Oleg Strelnikov –
Deputy Head of Directorate – Head of division, Gazprom PJSC

Vladimir Shchurovsky –
Leading researcher of the Corporate scientific and technical center of
gas transportation systems and technologies, Gazprom VNIIGAZ LLC

Alexey Semushkin Head of laboratory of technological equipment
of compressor stations Gazprom VNIIGAZ LLC

14.20	B1	O.E. Vasin, S.B. Furmanov (PJSC «NOVATEK»), D.V. Pashinkin («UK «Gruppa GMS» LLC), E.R. Ibragimov («NII turbokompressor im. Shneppa» CJSC), A.D. Ustyuzhanin («Foit Turbo» LLC) Mechanical diagrams of refrigerant compressors of the LNG production plants <i>Speaker – Oleg Vasin (head of department)</i>
14.40	B2	A.M. Ahmetzyanov (HMS Group – JSC «NII turbokompressor», Kazan), D.V. Pashinkin (HMS Group, Moscow) Compressor units for Russian LNG technology <i>Speaker – Albert Ahmetzyanov (Deputy General Director)</i>
15.00	B3	S.S. Biktimerov (JSC «NII turbokompressor named after V.B. Shnepp»), D.V. Pashinkin (HMS Group) Turbine expander units produced by JSC KAZANCOMPRESSORMASH with an expansion degree of Pt > 2 for use at gas production and processing facilities <i>Speaker – Shamil Biktimerov (the chief designer Department of PKU)</i>

15.20	B4	R.Kh. Salyakhov, V.A. Futin («Gazprom Transgaz Kazan» LLC), R.R. Kantyukov (Gazprom VNIIGAZ LLC) Study of vortex ejector systems in relation to the operation of compressor stations <i>Speaker – Ramis Salyakhov (Principal engineer)</i>
15.40	B5	V.N. Meshcheryakov (LGTU, Lipetsk), O.V. Kryukov (Gazprom VNIIGAZ LLC) Scientific basis and energy-saving technologies for subsea production facilities <i>Speaker – Victor Meshcheryakov (Department chair)</i>
16.00	B6	A.S. Kaydash, O.V. Rodionov («Gazprom Transgaz Ukhta» LLC) Booster compressor station – ensuring a guaranteed pressure drop in the dry-running gas seal system <i>Speaker – Oleg Rodionov (Principal engineer)</i>
16.20	B7	O.V. Belova, S.V. Goryunov, D.A. Kalinkin, K.A. Kolesov, E.V. Krestovskikh (Bauman Moscow State Technical University) Innovative compressing equipment for arctic shelf hydrocarbon production <i>Speaker – Olga Belova (docent)</i>
16.40	B8	V.A. Seredenok, M.E. Sidorochev, O.V. Burutin (Gazptom PJSC), I.V. Ryakhovskikh, A.V. Kaverin, V.V. Podolskaya (Gazprom VNIIGAZ LLC) Development of a pipeline integrity management system of a gas transportation system (infrastructure sites) <i>Speaker – Vera Podolskaya (Deputy head of the laboratory)</i>
16.40–17.10	Coffee break. Exhibition	
17.15	Departure to Gala Dinner	
18.00–22.00	GTS-2019 Official Gala Dinner. Entertainment Program (Moscow, River Palace Ship)	

TECHNICAL SESSIONS

October 24, 2019, Thursday, 9.00–18.00

SESSION B

(Conference hall 202, E building)

DESIGN, CONSTRUCTION AND OPERATION OF COMPRESSOR STATIONS

8.15–9.00	Registration of participants, download of presentations. Morning coffee (1st floor, E building)	
9.00	B9	S.I. Belan, R.A. Sarkarov (<i>Gazprom Proektirovanie LLC</i>) Evaluation of the reconstruction feasibility of existing gas distribution stations at the PJSC GAZPROM facilities <i>Speaker – Sergey Belan (Head of the laboratory of economic research)</i>
9.20	B10	M.M. Smirnov, D.V. Maley, V.E. Prorekhin (<i>«NPO CENTROTEKH» LLC</i>) Replacement of the metal suction line of gas compressor unit (GCU) as part of the ACD to the one of PCM at PJSC GAZPROM <i>Speaker – Vasily Prorekhin (Chief process engineer)</i>
9.40	B11	A. Borovkov, I. Voinov, Y. Galerkin, A. Drozdov (<i>Peter the Great St. Petersburg Polytechnic University</i>) The experience of CFD-calculations of small and medium flow rate model stages for centrifugal compressors <i>Speaker – Alexander Drozdov (Senior researcher)</i>
09.55	B12	Y.L. Kuznetsov, A.V. Burakov (<i>JSC «Compressor»</i>), A.A. Kotlov (<i>SPbPU</i>) Designing features of reciprocating compressors for automobile gas-filling compressor stations <i>Speaker – Andrey Kotlov (senior researcher)</i>
10.10	B13	Yu. Galerkin, A. Rekstin, A. Drozdov, K. Soldatova, O. Solovyeva, E. Popova (<i>Peter the Great St. Petersburg Polytechnic University</i>) The optimal gas dynamic design system of industrial centrifugal compressors based on universal modeling method <i>Speaker – Alexey Rekstin (leading researcher)</i>
10.25	B14	Y.B. Galerkin, A.F. Rekstin, A.A. Drozdov, K.V. Soldatova, O.A. Solovyeva, V.B. Semenovskiy (<i>Peter the Great St. Petersburg Polytechnic University</i>) Designing experience of two one-stage centrifugal compressors with the modern version of the engineering method of optimal gas-dynamic design <i>Speaker – Vasily Semenovskiy (principal engineer)</i>

10.40	B15	A.V. Kotvitsky, A.A. Trofimychev («VEGA INSTRUMENTS» LLC) Level measurement, indication, alarm in oil tanks of compressors, gas holders. Pressure sensors <i>Speaker – Alexander Trofimychev (development Director)</i>
11.00–11.30	Coffee break. Exhibition	
11.30	B16	V.P. Ryabinin, E.V. Gunko («Center for new technologies – Spektr» LLC) Innovative solutions for compressor station equipment based on new generation of flange connectors <i>Speaker – Vyacheslav Ryabinin (Technical Director-Chief designer)</i>
11.50	B17	R.S. Kashapov, D.A. Maksimov, D.V. Skiba, T.S. Kharisov (NPF Teplofizika LLC) Application experience of low emission combustion chamber PFM for a gas-turbine drive <i>Speaker – Timur Kharisov (the engineer of 1 category)</i>
12.10	B18	E.P. Petukhov, Yu.B. Galerkin, A.F. Rekstin (Peter the Great St. Petersburg Polytechnic University) Research methodology of centrifugal compressors van diffusers in a virtual wind tunnel <i>Speaker – Alexey Rekstin (leading researcher)</i>
12.30	B19	D. Kashtanov, V.A. Salnikov (SKF S2M / LLC «SKF») Comparative analysis of design and operation of compressor station with 16 MW magnetic suspension and 16 MW oil suspension <i>Speaker – Vladimir Salnikov (project manager)</i>
12.50	B20	D.V. Kravtsov («VEGA-GAZ» LLC) Experience in creating magnetic suspension systems (MSS) using domestic elements, materials and software <i>Speaker – Dmitry Kravtsov (Head of Management Systems of the magnetic suspension)</i>
13.10	Exhibition	
13.20–14.20	Lunch	
14.20	B21 (A13)	A.V. Vinogradov (Phoenix Contact RUS LLC) «PHOENIX CONTACT» production in Russia: electrical components for gas transportation automation systems <i>Speaker – Andrey Vinogradov (product Manager – Industrial Components and Electronics)</i>
14.30	B22	O.V. Bychkov (INGK «Iskra-Neftegaz Compressor» LLC) Localization of production of piston compressor Borsig ZM <i>Speaker – Oleg Bychkov (General Director)</i>

14.50	B23	A.D. Vanyashov, A.V. Krupnikov, V.N. Guskov («Sibneftetransproekt», Omsk) Analysis of starting modes of gas transfer unit with piston compressor at gas storage station <i>Speaker – Anton Krupnikov (Chief engineer), Alexander Vanyashov (head of compressor station design Department)</i>
15.10	B24	A.P. Shevtsov, V.I. Goptariiev, O.V. Derevenets, V.N. Sushkov, G.A. Chursin («Kosmos-Neft-Gas» LLC FPK) Application of non-contacting torque meters (NCTM) to monitor the technical condition of the GPU under industrial operation conditions <i>Speaker – Georgy Chursin (leading designer)</i>
15.30	B25	Yu.V. Kozhukhov, S.V. Kartashov, A.A. Aksenov («Research of compressor equipment and systems of gas compression, transportation and processing», High school of power engineering, FSAEI HE «Peter the Great St. Petersburg Polytechnic University») Digital twins of compressor station units, gas treatment plants and turbo expanders facilities <i>Speaker – Yury Kozhukhov (Scientific Director of the Scientific and engineering center «Compressor, vacuum, refrigeration and pneumatic systems», head of scientific direction «Research of compressor equipment and gas compression, transportation and processing systems»)</i>
15.45	B26	A.V. Kitanin («Gazpromneft-SM», LLC) Development of advanced oil with improved thermal oxidative stability for GPU driven by heat-stressed converted aviation GTE <i>Speaker – Alexey Kitanin (head of engineering and technical Department)</i>
16.00–16.20	Coffee break. Exhibition	
16.20	B27	V.A. Surovatka, Yu.P. Yasyan, V.V. Kholod (Kuban State Technological University) A new approach to hydrocarbon gas treatment based on the example of a calculated mathematical model of adsorption unit <i>Speaker – Vladimir Surovatka (senior lecturer of the Department of oil and gas technology)</i>
16.40	B28	S.N. Yarunin (IGEU) Automated system of the compressor station energy efficiency and operation reliability improvement <i>Speaker – Sergey Yarunin (Associate Professor, Department of Industrial heat power engineering)</i>

16.55	B29	<i>I.G. Volynets, A.L. Terekhov (Gazprom VNIIGAZ LLC)</i> Noise affected working conditions at GTS facilities and opportunities for their improvement by creating test units at the VNIIGAZ test facilities <i>Speaker – Alexey Terekhov (chief researcher)</i>
17.15	B30	<i>I.N. Alekseev, A. L. Terekhov (Gazprom VNIIGAZ LLC)</i> Methods of occupational risk assessment at compressor stations of main gas pipelines in the Arctic <i>Speaker – Ivan Alekseev (engineer 2 categories)</i>
17.40-18.00	Discussion of reports. Visiting the exhibition and other sections	
18.00–20.00	Dinner	

TECHNICAL SESSIONS

October 23, 2019, Wednesday, 14.20–17.00

SESSION C

(Conference hall 302, E building)

GTS TECHNICAL STATE AND INTEGRITY MANAGEMENT

Chairman: **Vadim A. Shlepkin** –
Head of Directorate, Gazprom PJSC

Co-Chairmen: **Vladislav I. Borodin** –
Deputy Head of Department, Gazprom PJSC
Alexander N. Pasechnikov –
Deputy Head of Directorate – Head of Division, Gazprom PJSC
Oleg V. Burutin –
Head of Division, Gazprom PJSC
Alexander V. Shipilov –
Deputy Head of Directorate – Head of Division, Gazprom PJSC
Sergei V. Nefedov –
Head of the Corporate scientific and technical center for management
of technical condition and integrity of production facilities of Gazprom
VNIIGAZ LLC
Victor M. Silkin –
Deputy Head of the Corporate scientific and technical center
for management of technical condition and integrity of production
facilities of Gazprom VNIIGAZ LLC
Ilya Ryakhovskiy –
Deputy head of the Corporate scientific and technical center
for corrosion monitoring and corrosion protection

14.20	C1	A.N. Bronnikov, A.N. Vedeneev (<i>Gazprom PJSC</i>), S.V. Nefedov, S.I. Dolgov, O.V. Trifonov, S.V. Ovcharov (<i>Gazprom VNIIGAZ LLC</i>) Issues of selection and justification of technical and organizational actions for main gas pipeline sections with violations of minimum distance areas <i>Speaker – Oleg Trifonov</i> (<i>head of laboratory of scientific-methodical and normative support</i> <i>of gas pipelines design</i>)
14.40	C2	V.V. Kharionovskiy (<i>Gazprom VNIIGAZ LLC</i>) Reliability of gas pipelines construction – new trend work research <i>Speaker – Vladimir Kharionovskiy</i> (<i>scientific editor of the journal «Gas industry»</i>)

15.00	C3	R.R. Kantyukov, Ju.U. Petrova, S.V. Ovcharov, U.V. Gamera (Gazprom VNIIGAZ LLC) Draft safety manual «guidelines for quantitative risk analysis on condensate and product pipelines» <i>Speaker – Julia Petrova (Deputy head of the laboratory)</i>
15.20	C4	V.M. Silkin, V.P. Stolov, S.O. Elova, E.N. Ovsyannikov (Gazprom VNIIGAZ LLC), A.A. Selivanov, V.A. Shlepkov (Gazprom, PJSC) Substantiation of the purpose requirements to the service characteristics of diagnostics and non-destructive testing facilities <i>Speaker – Victor Silkin</i> (Deputy head of the Corporate scientific and technical center for management of technical condition and integrity of production facilities)
15.40	C5	I.L. Vyalykh, V.L. Lazarev, D.A. Zotov (Gazprom VNIIGAZ LLC) In-line inspection of gas pipelines. Current situation and directions of equipment and technologies development <i>Speaker – Igor Vyalykh</i> (head of laboratory of technical diagnostics of pipelines and equipment)
16.00	C6	E.E. Soloviev, D.L. Levin (SVFU named after. M.K. Ammosov), V.M. Efimov (IFTPS SO RAN), D.V. Savvin, A.A. Fedorov (IGDS SO RAN) Geophysical methods of monitoring the gas transportation systems ground bases under extreme natural effects to improve their reliability and operational safety <i>Speaker – Evgeny Soloviev (Director)</i>
16.20	C7	D.M. Lyapichev («Gazprom Orgenergogaz» JSC) Development and implementation of integrated systems for monitoring the technical condition of gas transportation facilities <i>Speaker – Dmitry Lyapichev (deputy chief engineer)</i>
16.40	C8	I.L. Vyalykh, V.L. Lazarev, D.A. Zotov (Gazprom VNIIGAZ LLC) Performance of departmental functional testing for certification and compliance assessment of diagnostic equipment and its application technologies at the PJSC GAZPROM facilities <i>Speaker – Vladimir Lazarev</i> (Deputy head of laboratory of technical diagnostics of pipelines and equipment)
17.00–17.10	Coffee break. Exhibition	
17.15	Departure to Gala Dinner	
18.00–22.00	GTS-2019 Official Gala Dinner. Entertainment Program (Moscow, River Palace Ship)	

TECHNICAL SESSIONS

October 24, 2019, Thursday, 9.00–18.00

SESSION C

(Conference hall 302, E building)

GTS TECHNICAL STATE AND INTEGRITY MANAGEMENT

8.15–9.00		Registration of participants. Download of presentations. Morning coffee (1st floor, E building)
9.00	C9	A.B. Arabey (<i>Gazprom PJSC</i>), V.M. Silkin, I.U. Morin (<i>Gazprom VNIIGAZ LLC</i>), K.V. Belyaev (<i>PJSC «TMK»</i>) Monitoring of pipelines technical condition based on the «smart» pipe concept. Methodology and technical solutions <i>Speaker – Igor Morin (Deputy head of laboratory of scientific-methodical and normative support of gas pipelines design)</i>
9.20	C10	G.V. Kotishevsky, E.A. Sokolovskaya, Ngo Ngoc Ha (<i>LLC «New quality technologies»</i>) Possibilities of development of a new line of standards of control of structures and destruction for introduction in their measurement of a quantitative measure <i>Speaker – Gennady Kotishevsky (Founder)</i>
9.40	C11	V.M. Silkin, O.V. Trifonov, V.P. Cherniy, I.U. Morin, P.A. Volodin (<i>Gazprom VNIIGAZ LLC</i>), V.M. Efimov, K.N. Bolshev (<i>IFTPS SO RAS</i>) Forecast of the stress-strain behavior of the «Power of Siberia» main gas pipeline at the areas of development of hazardous geocryological processes based on mathematical models <i>Speaker – Oleg Trifonov (head of laboratory)</i>
10.00	C12	I.V. Shishkin, A.S. Kuzbozhev, I.N. Birillo (<i>Gazprom VNIIGAZ LLC</i>), D.E. Paykin, E.U. Nekrasova (<i>Gazprom Transgaz Ukhta LLC</i>), On the need to develop automated processing technology of arctic gas transportation facilities geotechnical monitoring database <i>Speaker – Ivan Shishkin (leading researcher)</i>
10.20	C13	S.V. Nefedov, M.U. Panov, V.M. Silkin, V.P. Stolov (<i>Gazprom VNIIGAZ LLC</i>) Method of end-to-end ranking of pipe defects in the main gas pipelines by the severity degree <i>Speaker – Vladimir Stolov (head of the laboratory of reliability and resource of GTS leading researcher)</i>

10.40	C14	N.O. Shaposhnikov (Peter the Great St. Petersburg Polytechnic University) Creation of physical models of processes typical for extreme operating conditions, with multi factor effect of external parameters on the performance of materials and structures <i>Speaker – Nikita Shaposhnikov (Deputy Director of NTC)</i>
11.00–11.30	Coffee break. Exhibition	
11.30	C15 (D36)	V.A. Lapin, V.A. Zaznobin («Gazprom Transgaz Nizhny Novgorod» LLC) Development of a set of engineering solutions for testing and certification of in-line inspection and nondestructive testing equipment <i>Speaker – Vasily Lapin (Chief welder – head of OGS)</i>
11.50	C16	O.V. Burutin, A.A. Selivanov, A.N. Pasechnikov (Gazptom PJSC), I.I. Bariev, F.N. Mirsaitov (Innopolis University ANCO NBO), I.V. Ryakhovskikh (Gazprom VNIIGAZ LLC) An intelligent system of pipeline technical diagnosis maintenance. Conceptual approaches <i>Speaker – Iliya Ryakhovskikh (Deputy head of the center)</i>
12.10	C17	A.A. Kamensky, A.V. Grinev («Gorodskoy Tsentri Ekspertiz» LLC), D.V. Kosachev («Gazprom Transgaz Yugorsk» LLC) The use of artificial intelligence methods to assess the technical condition of the line sections of the main gas pipelines <i>Speaker – Andrey Grinev (Head of research Department)</i>
12.30	C18	O.V. Kryukov, S.E. Stepanov (Gazprom VNIIGAZ LLC, «Gazprom Proektirovanie» LLC) Forecast of technical condition of GTS facilities by means of artificial neural networks <i>Speaker – Oleg Kryukov (Chief researcher)</i>
12.50	C19	D.P. Nikulina (Gubkin Russian State University of Oil and Gas) Cost-effectiveness analysis of gas pipeline monitoring systems using a risk-based approach <i>Speaker – Darya Nikulina (assistant of the Department of thermodynamics and heat engines)</i>
13.10	Exhibition	
13.20–14.20	Lunch	
14.20	C20	D. Manylov, D. Gurin (LLC Gazproekt-DKR, JSC DIAKONT) JSC DIAKONT's new generation diagnostic systems for technical diagnostics of gas pipelines <i>Speaker – Denis Manylov (leading specialist)</i>
14.40	C21	A.A. Selivanov, I.V. Ryakhovskikh, A.V. Kaverin, I.G. Petukhov, A.V. Lipovik (Gazptom PJSC, Gazprom VNIIGAZ LLC) Examination of nondestructive testing methods used to determine size of stress corrosion defects <i>Speaker – Alexander Kaverin (head of laboratory)</i>

15.00	C22	A.N. Kuzmin, A.V. Zhukov, D.V. Shitov («Strategia NK» LLC) Assessment of stress-strain behavior (SSB) of pipelines using acoustic emission testing <i>Speaker – Alexey Kuzmin (General Director)</i>
15.20	C23	A.A. Samokrutov, Yu.A. Sedelev, S.Yu. Voronchikhin (IntroScan Technology JSC) Results of A2072 IntroScan scanner modernization in 2019. Acoustic mid-frequency control of welded joints during pipelines in-line inspection <i>Speaker – Stanislav Voronchikhin (General Director)</i>
15.20	C24	A.A. Dubov («Energodiagnostika» LLC) Purpose and feasibility of the magnetic memory of metal method <i>Speaker – Alexander Dubov (General Director)</i>
15.40	C25	A.M. Chionov («NII TRANSNEFT» LLC) Stochastic model of material balance for oil pipeline leak detection <i>Speaker – Anton Chionov (leading researcher)</i>
16.00–16.20	Coffee break	
16.20	C26	V.V. Smirnova, I.A. Krylova, E.G. Yamaeva (Podolsk branch office of JSC «Gazprom proektirovanie») Development of project specific technical specification for design and construction of main gas pipeline. Experience, problems and development prospects <i>Speaker – Evelina Yamaeva (Chief specialist of normative and technical documentation development Department)</i>
16.40	C27	V.P. Cherny, O.V. Trifonov, K.A. Voyder, M.A. Ovsyannikov, A.V. Rassokhina (Gazprom VNIIGAZ LLC) Methods of calculating wall thickness and testing the strength of connecting parts of complex structures for main gas pipelines <i>Speaker – Vladimir Cherny (chief researcher)</i>
17.00	C28	I.B. Ivanov («GAZPROMNEFT-BM» LLC) Technologies of prolongation of service life of oil and gas industry enterprises facilities and infrastructure <i>Speaker – Ivan Ivanov (head of development Department)</i>
17.20	C29	I.N. Lyutikov (TPU), P.V. Burkov (TPU, TGASU) Application of the Monte-Carlo method to forecast technical condition of main gas pipelines <i>Speaker – Iliya Lyutikov (postgraduate)</i>
17.40–18.00	Discussion of reports	
18.00–20.00	Dinner	

TECHNICAL SESSIONS

October 23, 2019, Wednesday, 14.20–17.00

SESSION D

(Conference hall 203, E building)

TUBULARS, WELDING AND ALLIED TECHNOLOGIES, FACTORY COATINGS

Chairman: **Maxim Yu. Nedzvetskiy** –
Deputy Head of Department, Gazprom PJSC General Director,
Gazprom VNIIGAZ LLC
Alexey N. Vedeneev -
Deputy Head of Directorate – Head of division, Gazprom PJSC
Evgeny M. Vyshemirsky –
Head of division, Gazprom PJSC
Andrey B. Arabey –
Head of division, Gazprom PJSC

Co-Chairmen: **Vladimir A. Egorov** –
Head of the Corporate scientific and technical center for development
of pipe products and welding technologies Gazprom VNIIGAZ LLC
Taymuraz Esiev –
Head of laboratory tubes, Gazprom VNIIGAZ LLC
Sergey Sevostyanov –
Deputy head of the Corporate scientific and technical center
for development of pipe products and welding technologies
Gazprom VNIIGAZ LLC

14.20	D1	A.B. Arabey (<i>Gazprom PJSC</i>), V.A. Egorov, K.B. Konishev, T.S. Esiev, K.A. Voyder (<i>Gazprom VNIIGAZ LLC</i>) Innovative pipe products for Gazprom PJSC facilities <i>Speaker – Andrey Arabey</i> (<i>Head of division, Gazprom PJSC</i>)
14.40	D2	E.M. Vyshemirsky (<i>Gazprom PJSC</i>), S.P. Sevostyanov, R.O. Ramus (<i>Gazprom VNIIGAZ LLC</i>), A.P. Derkach, N.A. Murashov (<i>Gubkin Russian state University of oil and gas</i>) Study of the influence of welding thermal cycles during plate pipes welding <i>Speaker – Sergey Sevostyanov</i> (<i>Deputy head of the Corporate scientific and technical center for development of pipe products and welding technologies Gazprom VNIIGAZ LLC</i>)

15.00	D3	P.P. Stepanov, S.V. Zharkov, A.V. Chastukhin (Vyksa Steel Works Research and development center) Innovative approach to the development and improvement technology of welding large-diameter pipes Speaker – Pavel Stepanov (Director of ITC, Ph. D.)
15.15	D4	L.A. Efimenko, O.E. Kapustin, A.A. Ramus, I.Yu. Utkin (Gubkin Russian State University of Oil and Gas), S.P. Sevastyanov, R.O. Ramus (Gazprom VNIIGAZ LLC) Special features of weldability of high-strength pipe steels for oil and gas pipelines operating in seismically dangerous regions Speaker – Lyubov Efimenko (Professor of the Department «Welding and monitoring of oil and gas facilities», doctor of technical Sciences)
15.30	D5	G.E. Khadeev, A.M. Korchagin, V.V. Mikheev (Severstal PJSC), V.K. Lipin (Izhorsky Trubny Zavod LLC), A.B. Arabey (PJSC Gazprom), T.S. Esiev, K.Yu. Mentyukov (Gazprom VNIIGAZ LLC) Use of large diameter pipes with high strain capacity for construction of main gas pipelines designed for operation in extreme conditions Speaker – Grigory Khadeev (development manager)
15.45	D6	V. Shander (PJSC «CHTPZ») Development of production of low-temperature pipes under the Nord stream 2 project Speaker – Sergey Shander (Head of Department of projects implementation TBD)
16.00	D7	A.V. Vnukov, A.S. Poddubny, P.V. Piskorski (NIITS STNK Spektr LLC) Testing of viscoplastic properties of welded joints using methods not covered by the existing standards Speaker – Alexey Vnukov (Senior Researcher)
16.15	D8	G.A. Sabrekova, V.G. Molarov (NIITC STNK Spektr LLC), V.N. Shiryaev, A.B. Belikov (ESAB LLC) Research and evaluation of methods for determining the content of the ferrite phase in the deposited metal Speaker – Gulnara Sabrekova (Researcher)
16.30	D9	M.G. Deryabin (PJSC «CHTPZ») Features of welding technology and nondestructive testing in the production of casing pipes with connectors Speaker – Maxim Deryabin (Head of Department)
16.45	D10	A.P. Svechkopalov, A.V. Plavin (BT SVAP LLC) Protective composite and ballasting concrete coatings to improve the efficiency of pipeline construction Speaker – Anatoly Svechkopalov (Project Manager, Ph. D., Honored Builder of the Russian Federation)
17.15	Departure to Gala Dinner	
18.00–22.00	GTS-2019 Official Gala Dinner. Entertainment Program (Moscow, River Palace Ship)	

TECHNICAL SESSIONS

October 24, 2019, Thursday, 9.00–18.00

SESSION D

(Conference hall 203, E building)

TUBULARS, WELDING AND ALLIED TECHNOLOGIES, FACTORY COATINGS

8.15–9.00		Registration of participants. Download of presentations. Morning coffee (1st floor, E building)
9.00	D11	<p>A.B. Arabey (Gazprom PJSC), T.S. Esiev, K.Yu. Mentiukov (Gazprom VNIIGAZ LLC), M.S. Sakharov, A.I. Smelov (Izhora Pipe Mill JSC), P.P. Stepanov, D.A. Ringinen (OMK JSC), A.B. Gizatullin, S.V. Shander (ChelPipe Group)</p> <p>LDP development, class K80 (X100) in Russia <i>Speaker – Kirill Mentiukov</i> <i>(leading researcher, Gazprom VNIIGAZ LLC)</i></p>
9.20	D12	<p>A.A. Antonov (Gubkin Russian State University of Oil and Gas)</p> <p>Increasing the sensitivity of the laser interferometry method designed to assess the level of residual stress <i>Speaker – Alexey Antonov</i> <i>(associate Professor of the Department “Welding and monitoring of oil and gas facilities»)</i></p>
9.35	D13	<p>V.A. Egorov, K.B. Konishchev, A.E. Andreev, A.S. Chaban (Gazprom VNIIGAZ LLC)</p> <p>GAZPROM VNIIGAZ LLC participation in the import substitution program for development of new types of pipe products for gas, gas condensate and oil fields of Gazprom PJSC <i>Speaker – Alexander Chaban (research assistant)</i></p>
9.50	D14	<p>A.B. Arabey (Gazprom PJSC), A.G. Glebov, L.M. Kaputkina (NITU MISIS), T.S. Esiev (Gazprom VNIIGAZ LLC), A.I. Abakumov (FSUE RFYTS VNIIEF), I.Yu. Pyshmintsev (RosNITI JSC), D.E. Kaputkin (MGU GA)</p> <p>Stages of deformation and fracture during drop test (IPG/DWTT) <i>Speaker – Alexander Glebov (Senior Reasearcher)</i></p>

10.05	D15	<p>A.B. Arabey (PJSC Gazprom), A.G. Glebov, L.M. (NITU MISIS), T.S. Esiev, S.E. Yakovlev (Gazprom VNIIGAZ LLC), A.I. Abakumov (FSUE RFYTS VNIIEF), I.Y. Pyshmintsnev (RosNITI JSC), D.E. Kaputkin (MSTU Civil Aviation)</p> <p>Temperature of brittle-ductile transition of pipe steel K65 – experimental determination and related features</p> <p><i>Speaker – Andrey Arabey (Head of division, Gazprom PJSC)</i></p>
10.20	D16	<p>D.E. Kaputkin (MSTU Civil Aviation), L.M. Kaputkina, A.G. Glebov (NITU MISIS), A.I. Abakumov (RFYTS-VNIIEF), T.S. Esiev (Gazprom VNIIGAZ LLC)</p> <p>Assessment of energy parameters based on the analysis of geometry of samples destroyed during drop tests</p> <p><i>Speaker – Dmitry Kaputkin (doctor of technical Sciences, Professor)</i></p>
10.35	D17	<p>A.B. Arabey (Gazprom PJSC), V.A. Egorov, K.A. Voyder, M.G. Glukhov, A.Yu. Kasyanov, N.D. Sokolov (Gazprom VNIIGAZ LLC)</p> <p>Retrospective development of requirements to pipeline fittings for Gazprom facilities</p> <p><i>Speaker – Kirill Voyder (Head of laboratory)</i></p>
10.50	D18	<p>M.A. Kovalev (Peter the Great St. Petersburg Polytechnic University)</p> <p><i>Methodical features of testing the internal pipe coatings</i></p> <p><i>Speaker – Mark Kovalev (Engineer)</i></p>
11.05–11.30	Coffee break. Exhibition	
11.30	D19	<p>R.A. Lanev («IRS Laser Technology» LLC)</p> <p>Laser renovation technologies in the oil and gas industry. Laser cladding. Welding. Thermal strengthening.</p> <p><i>Speaker – Roman Lanev (Manager)</i></p>
11.45	D20	<p>G.A. Turichin, M.V. Kuznetsov (SpbGMTU)</p> <p><i>ILWT experience in manufacture of products using laser technology</i></p> <p><i>Speaker – Michael Kuznetsov (Head of Production Department)</i></p>
12.00	D21	<p>A.M. Korchagin, G.E. Khadeev, V.V. Mikheev, K.E. Galeru («Severstal» PJSC), V.K. Lipin («Izhorsky Trubny Zavod» LLC), A.B. Arabey, M.V. Afanaseva (PJSC «Gazprom»), V.A. Egorov, T.S. Esiev, K.U. Mentjukov (Gazprom VNIIGAZ LLC), S.V. Golubeva («Gazprom Proektirovanie» LLC)</p> <p>Aspects of the use of pipes of K80 (X100) strength grade in main gas pipelines projects of PJSC «Gazprom»</p> <p><i>Speaker – Andrey Korchagin (senior Manager, technical development and quality Directorate, Severstal Russian Steel Division, Ph. D.)</i></p>

12.15	D22	I.P. Shabalov (Association of Pipes Manufacturers), P.P. Stepanov («VMZ» JSC), S.A. Chegurov («OMK» PJSC), V.Y. Velikodnev, S.U. Nastich, V.S. Kalenskiy («Tsentr ETSI») Special features of the nature of destruction and structure of the main gas pipelines welded joints fusion zone metal during tests for determination of CTOD value <i>Speaker – Sergey Nastich (Deputy head of the Expert and technical center)</i>
12.30	D23	K.B. Konishchev, A.M. Semyonov, A.S. Chaban, N.A. Lobanova (Gazprom VNIIGAZ LLC) Special features of metal pipes corrosion in media containing hydrogen sulfide and carbon dioxide <i>Speaker – Alexander Semyonov (Leading Researcher)</i>
12.45	D24	A.S. Kurkin (Bauman Moscow state technical University) Calculation determination of alloyed steel properties on the basis of process modeling <i>Speaker – Alexey Kurkin (Professor, D. SC.)</i>
13.00	D25	A.Y. Grudsky («Tsentr TSIFRA» LLC) Transcan digital radiography complex: practical operation experience at the existing facilities of PJSC «Gazprom» <i>Speaker – Alexander Grudsky (Technical director)</i>
13.15	Visiting exhibition	
13.25–14.20	Lunch	
14.20	D26	D.A. Sednev (FSAFI VO NI TPU) Development of a domestic set of equipment for radioscopic inspection of pipeline welded joints <i>Speaker – Dmitriy Sednev (Director of the Engineering school of nondestructive testing and safety, Ph. D.)</i>
14.35	D27	N.N. Butsky («Servisnaya kompania INTRA» LLC) Application of hot tapping technology for maintenance and repair of gas industry facilities <i>Speaker – Nikolay Butsky (General director)</i>
14.50	D28	D.N. Rabotinsky (JSC NPF «ITC») Equipment and materials for pipeline welding. Continuous improvement work <i>Speaker – Dmitry Rabodinsky (Technical Director)</i>
15.05	D29	A.B. Arabey (Gazprom PJSC), I.V. Ryakhovskikh, R.I. Bogdanov (Gazprom VNIIGAZ LLC) Pipe steel stress corrosion cracking patterns <i>Speaker – Roman Bogdanov (Head of laboratory)</i>

15.20	D30	N. Suzuki, T. Arakawa, S. Kakihara, R. Muraoka (JFE Steel Corporation) <i>Theoretical background of strain capacity in compression or bending of pipe represented in TU-1381-101-JFE-2012</i> <i>Speaker – Nobuhisa Suzuki (consultant, doctor of science)</i>
15.35	D31	V.E. Mikhaylov (North-east Federal University named after M.K. Ammosov), G.N. Sleptsov (SB RAS Institute of physical and technical problems of the North named after V.P. Larionov) Acoustic-and-emission monitoring at welding <i>Speaker – Vladimir Mikhaylov (associate Professor, Ph. D.)</i>
15.50	D32 (E5)	U.A. Mayants, D.I. Shiryapov, A.S. Alikhashkin (Gazprom VNIIGAZ LLC) Test bench to study bending stiffness of concrete weight coated pipes <i>Speaker – Dmitriy Shiryapov (head of laboratory, Ph. D.)</i>
16.05–16.20	Coffee break. Exhibition	
16.20	D33	A.O. Vambrikov («METACLAY» JSC) Monolayer anti-corrosion coating based on «Metalen PE-21» <i>Speaker – Alexander Vambrikov (Specialist in the development and promotion of projects)</i>
16.35	D34	A.N. Korchanov («Shadrinskiy electrode plant» JSC) Shadrinskiy electrode plant. Manufacturer of welding rods for manual arc welding <i>Speaker – Alexander Korchanov (Director)</i>
16.50	D35	D.I. Kurtua, N.I. Petridi («KATRAN» LLC) Pre-heating equipment <i>Speaker – Daniel Kurtua (Director)</i>
17.05	D36 (C15)	V.A. Lapin, V.A. Zaznobin («Gazprom Transgaz Nizhny Novgorod» LLC) <i>Development of a set of engineering solutions for testing and certification of in-line inspection and nondestructive testing equipment</i> <i>Speaker – Vasily Lapin (Chief welder – head of OGS)</i>
17.20	D37 (E14)	A.N. Blinkov (JSC «INTAR») <i>Ensuring and control over the accuracy of the geometric parameters of the pipeline under construction</i> <i>Speaker – Andrey Blinkov (General director, Ph. D.)</i>
17.30	D38 (E24)	V.G. Demchenko, A.N. Penkin (SKFU Stavropol), M.A. Mogushkov (SSK «Gasregion» LLC), V.V. Mizin («Gazprom Gaznadzor» LLC Caucasus Department) <i>Compensator-free laying of main Pipelines. Practice and theory</i> <i>Speaker – Vasily Demchenko (Lecturer of the department, Ph. D.)</i>

17.40	D39	A.V. Kutepov (<i>Fein Elektrowerkzeuge LLC</i>), A.N. Suprunin (<i>Neftebur LLC</i>) <i>Nationalization of equipment for mechanical pipe cutting with formation of edge cutting for welding by FEIN company on the territory of the Russian Federation</i> <i>Speaker – Alexey Kutepov (Sales director)</i>
17.50	D40	G.P. Eremina, M.A. Komarova (<i>Kucherenko TsNIISK</i>), I.N. Alexeev (<i>Gazprom VNIIGAZ LLC</i>) <i>Modern paint coating systems at gas transportation facilities: assessment of the condition of protective coatings and methods of ensuring technical safety</i> <i>Speaker – Maria Komarova (Researcher, Ph. D.), Galina Eremina (Leading specialist)</i>
18.00	D41	V.I. Kuzmin, I.P. Gulyaev, D.V. Sergachev, O.B. Kovalev, S.P. Vashchenko (<i>Institute of theoretical and applied mechanics named after S.A. Khristianovich of the Siberian branch of the Russian Academy of Sciences</i>) <i>Air-plasma spraying of functional coatings</i> <i>Speaker – Viktor Kuzmin (senior researcher, Ph. D.)</i>
18.20–20.00	Dinner	

TECHNICAL SESSIONS

October 23, 2019, Wednesday, 14.20–17.00

SESSION E

(Conference hall 213, Main Building)

CONSTRUCTION, REPAIR AND CORROSION PROTECTION OF GAS TRANSPORTATION FACILITIES

Chairman: **Victor Olekseichuk** –
Head of division, Gazprom PJSC

Co-Chairmen: **Valery Yushmanov** –
Head of division, Gazprom PJSC

Pavel Kolotovskiy –
Head of division, Gazprom PJSC

Dmitriy Zapevalov –
Head of the Corporate scientific and technical center for corrosion
monitoring and corrosion protection, Gazprom VNIIGAZ LLC

Yuri Mayants –
Head of the Corporate scientific and technical center for construction,
operation and repair technologies, Gazprom VNIIGAZ LLC

14.15		Opening remarks by the Chairman of the section. Main issues to be considered at the section <i>Speaker – Victor Olekseichuk (Head of division, Gazprom PJSC)</i>
14.20	E1	A.P. Sazonov, E.V. Sheverdenkin, A.V. Latyshev, N.I. Savostina, Z.P. Semikolenova (Gazprom VNIIGAZ LLC) Change of properties of epoxy coatings of powder application caused by cathodic polarization <i>Speaker – Nataiya Savostina (Senior Researcher, Laboratory of Protective and Thermal Insulation Coatings)</i>
14.40	E2	A.A. Ivonin («Gazprom Transgaz Ukhta» LLC) Assessment and monitoring of corrosion condition of gas transportation facilities of Gazprom Transgaz Ukhta LLC <i>Speaker – Alexey Ivonin (Head of centre)</i>
15.00	E3	Z.Z. Sharafutdinov, I.R. Islamov (NII Transneft LLC) Assessment of the wellbore condition before pulling the siphon <i>Speaker – Iskander Islamov (senior researcher), Zarif Sharafutdinov (Chief researcher, doctor of technical Sciences, Professor)</i>

15.20	E4	B.L. Zhytomirsky (<i>Gazprom Orgenergogaz, JSC</i>) Results of study of thermodynamics of media heat and mass transfer in soils during thermomechanical method of drilling pits on main gas pipelines <i>Speaker – Boris Zhytomirsky</i> (<i>General Director, candidate of technical Sciences, Professor</i>)
15.40	E5 (D32)	U.A. Mayants, D. I. Shiryapov, A.S. Alikhashkin (<i>Gazprom VNIIGAZ LLC</i>) Test bench to study bending stiffness of concrete weight coated pipes <i>Speaker – Dmitriy Shiryapov (Head of laboratory)</i>
16.00	E6	N.N. Butsky (<i>Servisnaya kompania INTRA LLC</i>) Technologies for construction, repair and corrosion protection of gas transportation facilities <i>Speaker – Nikolay Butsky (General director)</i>
16.20	E7	I.V. Lygin (<i>JSC Energomera</i>) Modern solutions for the systems of cathodic protection and corrosion monitoring of production JSC Energomera <i>Speaker-Ivan Lygin (Chief designer)</i>
16.40	E8	V.V. Leschenko (<i>NTC NefteGazDagnostika LLC</i>) Development of domestic pool of solutions for repair of offshore underwater pipelines <i>Speaker – Victor Leschenko (General director)</i>
17.00–17.10	Coffee break. Exhibition	
17.15	Departure to Gala Dinner	
18.00–22.00	GTS-2019 Official Gala Dinner. Entertainment Program (Moscow, River Palace Ship)	

TECHNICAL SESSIONS

October 23, 2019, Wednesday, 9.00–18.00

SESSION E

(Conference hall 213, Main Building)

CONSTRUCTION, REPAIR AND CORROSION PROTECTION OF GAS TRANSPORTATION FACILITIES

8.15–9.00		Registration of participants. Download of presentations. Morning coffee (1st floor, Conference Hall)
9.00	E9	<i>D.I. Shiryapov, A.S. Alikhaskin, A.V. Elfimov, U.A. Mayants, E.S. Nosova, S.A. Shkulov, T.N. Trofimova</i> <i>(Gazprom VNIIGAZ LLC)</i> Innovative solutions for pre-start operations at main gas pipelines <i>Speaker – Dmitriy Shiryapov (Head of laboratory)</i>
9.20	E10	<i>A.V. Korotkov, G.V. Kaspiev</i> («Gazprom Transgaz Ukhta» LLC) Special features of the launch of the main gas pipeline sections after repair and construction works with control of dew point and oxygen content <i>Speaker – Anton Korotkov (Leading engineer)</i>
9.40	E11	<i>N.N. Glazov, D.N. Zapevalov, I.Yu. Kopyev</i> <i>(Gazprom VNIIGAZ LLC)</i> Technical requirements development for electrically-insulating inserts (couplings) <i>Speaker – Nikolay Glazov (Head of laboratory)</i>
10.00	E12	<i>V.A. Shabanov, D.M. Lyapichev</i> («Gazprom Orgenergogaz» JSC) Results of experimental researches of long-term operated electrical insulating joints <i>Speaker – Valery Shabanov (Chief engineer)</i>
10.20	E13	<i>U.A. Mayants, A.V. Elfimov, A.S. Kuzbozhev, I.N. Birillo</i> <i>(Gazprom VNIIGAZ LLC)</i> Protection of pipelines against damage during construction in complex soil conditions <i>Speaker – Yuri Mayants (Head of the Corporate scientific and technical center for construction, operation and repair technologies)</i>
10.40	E14 (D37)	<i>A.N. Blinkov</i> (JSC «INTARI») <i>Ensuring and control over the accuracy of the geometric parameters of the pipeline under construction</i> <i>Speaker – Andrey Blinkov (General director)</i>
11.00–11.30		Coffee break. Exhibition

11.30	E15	A.V. Sakhon, R.V. Igoshin (<i>Gazprom PJSC</i>), I.V. Ryakhovskiykh, R.I. Bogdanov, R.V. Kashkovsky (<i>Gazprom VNIIGAZ LLC</i>) Increase of efficiency of corrosion protection of gas pipelines using the inhibited systems of insulating coatings <i>Speaker – Roman Kashkovsky (Leading researcher)</i>
11.50	E16	P.N. Glazov (<i>Truboprovodnyye systemy i tekhnologii CJSC</i>) Development of automated and autonomous corrosion protection systems and remote corrosion monitoring <i>Speaker – Pavel Glazov (Head of integrated projects implementation Department)</i>
12.10	E17	V.G. Dubinsky (<i>Gazprom Orgenergogaz LLC</i>) Diagnostics of the pipelines vacuum stripping modes <i>Speaker – Victor Dubinsky (Chief Specialist)</i>
12.30	E18	I.G. Volynets, U.A. Mayants (<i>Gazprom VNIIGAZ LLC</i>) Promising technical solutions in gas pipeline laying technology <i>Speaker – Yuri Mayants (Head of the Corporate Scientific and Technical Center for Construction, Operation and Repair Technologies)</i>
12.50	E19	U.A. Ivanov (<i>NPP Elektrokhimzaschita LLC</i>), S.V. Romanenko (<i>Tomsk Polytechnic University</i>), A.S. Maslov (<i>Gazprom Transgaz Tomsk LLC</i>) The concept of improving the system of electrochemical protection of pipelines against corrosion damage <i>Speaker – Yuri Ivanov (General director)</i>
13.10–13.20	Exhibition	
13.20–14.20	Lunch	
14.20	E20	S.K. Dolgoplov (<i>JSC KHAKEL</i>) Lightning protection of cathodic protection stations using KHAKEL products <i>Speaker – Sergey Dolgoplov (Project manager)</i>
14.40	E21	M. M. Smirnov, D.V. Maley, V.E. Prorekhin (<i>NPO CENTROTEKH LLC</i>) Weatherproof integrated main pipelines strengthening system «IMPSS» <i>Speaker – Vasily Prorekhin (Chief Technologist)</i>
15.00	E22	P.V. Burkov (<i>TPU, TGASU</i>), V.P. Burkov, I.E. Danilov (<i>TPU</i>) Cryogels for strengthening the protective clay layer at the rock stream sections of the «Power of Siberia» gas pipeline <i>Speaker – Petr Burkov (Professor, doctor of technical Sciences)</i>

15.20	E23	D.S. Sirota, S.N. Asharin, N.K. Shamshetdinova, A.N. Ulikhin (Gazprom VNIIGAZ LLC) Evaluation the correctness of various types of corrosion sensor readings for corrosion monitoring systems <i>Speaker – Dmitry Sirota (Leading researcher)</i>
15.40–16.00	Q&A. Discussion of reports	
16.00–16.20	Coffee-break. Exhibition	
16.20	E24 (D38)	V.G. Demchenko, A.N. Penkin (SKFU Stavropol), M.A. Mogushkov (SSK «Gasregion» LLC), V.V. Mizin («Gazprom Gaznadzor» LLC Caucasus Department) Compensator-free laying of main Pipelines. Practice and theory <i>Speaker – Vasily Demchenko (Lecturer of the department)</i>
16.40	E25	I.V. Shishkin, T.I. Rabotinskaya, A.S. Kuzbozhev, I.N. Birillo (branch of the Gazprom VNIIGAZ LLC in Ukhta) <i>Development of a computed model of permafrost thawing processes in cases of gas pipeline thermal insulation coating fractures</i> <i>Speaker – Ivan Shishkin (Leading researcher)</i>
17.00	E26	I.O. Razov (FSBEI HE «Tyumen Industrial University») Analytical methods for determining the dynamic characteristics of large diameter thin-walled pipelines in various laying methods <i>Speaker – Igor Razov</i> (Associate Professor, Department of Structural Mechanics, Deputy Director of the Construction Institute for Science and Innovation)
17.15	E27	A.B. Vasenin («Giprogazcentr» LLC), O.V. Kryukov (Gazprom VNIIGAZ LLC) <i>Solid oxide fuel cells for power supply of gas pipelines electrochemical protection systems</i> <i>Speaker – Oleg Kryukov (Chief researcher)</i>
17.30	E28	U.A. Mayants, A.V. Elfimov, P.A. Kuzbozhev, I.N. Birillo, I.V. Shishkin (Gazprom VNIIGAZ LLC) Development of adaptive geogrid for engineering protection of gas pipelines in especially difficult operating conditions <i>Speaker – Pavel Kuzbozhev (Researcher)</i>
17.45–20.00	Discussion of reports	
18.00–20.00	Dinner	

ROUND TABLES

October 25, 2019, Friday

Round table 1

RISK-BASED DESIGN, CONSTRUCTION AND OPERATION OF GAS PIPELINES

(Conference hall 204, E building)

8.15–9.00	Morning coffee (1st floor, E building)
9.00–11.00	Moderator: Vadim A. Shlepin <i>(Head of Directorate, Gazprom PJSC)</i> Invited expert: Mikhail V. Lisanov <i>(Director of the Risk Analysis Center, CJSC NTC PB, D.Sc.)</i> Co-moderators: Valery N. Yushmanov <i>(Head of the Division, Gazprom PJSC)</i> Sergey V. Nefedov <i>Head of the Corporate R&D Centre for Technical Condition and Integrity Management of Production Facilities, Gazprom VNIIGAZ LLC)</i> Vladimir S. Safonov <i>(Chief Research Associate of the Centre for Prospective Development and Technological Efficiency, Gazprom VNIIGAZ LLC, DSc, Professor)</i>
11.00–11.30	Coffee break. Exhibition
11.30–12.30	Round table continues
12.30–13.00	Wrap-up plenary session. Closing remarks
13.00–14.00	Lunch

Round table 2

DIGITAL TRANSFORMATION OF GTS (Conference hall 202, E building)

8.15–9.00	Morning coffee (1st floor, E building)
9.00–11.00	<p>Moderator: Vasily G. Nikitin <i>(First Deputy Head of the Department, Gazprom PJSC)</i></p> <p>Invited experts: Iskander I. Bariev <i>(Vice-Principal, Head of the Division for Design and R&D Studies, INNOPOLIS University)</i></p> <p>Natalya I. Kasperskaya <i>(General Director, InfoWatch corporate group)</i></p> <p>Co-moderators: Rafael R. Kantyukov <i>(Deputy General Director for Science, Gazprom VNIIGAZ LLC)</i></p> <p>Alexander N. Pasechnikov <i>(Deputy Head of the Department, Head of the Division, Gazprom PJSC)</i></p> <p>Oleg V. Burutin <i>(Head of the Division, Gazprom PJSC)</i></p> <p>Viktor M. Silkin <i>(Deputy Head of the Corporate R&D Centre for Technical Condition and Integrity Management of Production Facilities, Gazprom VNIIGAZ LLC)</i></p> <p>ILya V. Ryakhovskikh <i>(Deputy Head of the Corporate R&D Centre for Corrosion Monitoring and Protection, Gazprom VNIIGAZ LLC, PhD)</i></p> <p>Vyacheslav O. Yesipovich <i>(Deputy Head of the Centre for Investigation and Adoption of Digital Technologies, Gazprom VNIIGAZ LLC)</i></p>
11.00–11.30	Coffee break. Exhibition
11.30–12.30	Round table continues
12.30–13.00	Wrap-up plenary session. Closing remarks
13.00–14.00	Lunch

Round table 3

**VIOLATION OF PROTECTED ZONES AND MINIMUM DISTANCES:
BEST PRACTICES OF GTS SAFE OPERATION
(Conference hall 213, Main building)**

8.15–9.00	Morning coffee (1st floor, E building)
9.00–11.00	<p>Moderator: Andrey N. Bronnikov <i>(Deputy Head of the Department, Gazprom PJSC)</i></p> <p>Invited expert: Alexey B. Dokutovich <i>(Deputy General Director, Head of the Technical Inspection, Gazprom Gaznadzor LLC)</i></p> <p>Co-moderators: Mikhail Ye. Sidorochev <i>(Deputy Head of the Department, Gazprom PJSC)</i></p> <p>Alexander V. Elfimov <i>(Deputy Head of the Corporate R&D Centre for Construction, Operation and Repair Technologies, Gazprom VNIIGAZ LLC)</i></p> <p>Oleg V. Trifonov <i>(Head of the Laboratory of Research, Methodological and Regulatory Support of Gas Pipeline Design, Gazprom VNIIGAZ LLC)</i></p> <p>Sergey V. Ovcharov <i>(Head of the Industrial Safety Laboratory, Gazprom VNIIGAZ LLC)</i></p>
11.00–11.30	Coffee break. Exhibition
11.30–12.30	Round table continues
12.30–13.00	Wrap-up plenary session. Closing remarks
13.00–14.00	Lunch

Round table 4

TECHNOLOGICAL BREAKTHROUGH: ADVANCED EQUIPMENT, MATERIALS AND TECHNOLOGIES FOR GAS TRANSPORTATION AND STORAGE (Conference hall 203, E building)

8.15–9.00	Morning coffee (1st floor, E building)
9.00–11.00	<p>Moderator: Igor Yu. Pyshmintsev <i>(General Director, TMK R&D Centre, RosNITI, DSc)</i></p> <p>Invited expert: Mikhail V. Grigoryev <i>(Deputy Director for Science FSAI Research and Training Centre «Welding and Control», Bauman MSTU, PhD)</i></p> <p>Co-moderators: Andrey B. Arabey <i>(Head of the Division, Gazprom PJSC)</i></p> <p>Evgeny M. Vyshemirsky <i>(Head of the Division, Gazprom PJSC)</i></p> <p>Vladimir A. Egorov <i>(Head of the Corporate R&D Centre for Tubulars and Welding Technologies Development, Gazprom VNIIGAZ LLC)</i></p> <p>Sergey P. Sevostyanov <i>(Deputy Head of the Corporate R&D Centre for Tubulars and Welding Technologies Development, Gazprom VNIIGAZ LLC)</i></p> <p>Yury A. Mayants <i>(Head of the Corporate R&D Centre for Construction, Operation and Repair Technologies, Gazprom VNIIGAZ LLC)</i></p>
11.00–11.30	Coffee break. Exhibition
11.30–12.30	Round table continues
12.30–13.00	Wrap-up plenary session. Closing remarks
13.00–14.00	Lunch

POSTER SESSION

(2nd floor, Main building)

S1	<p>L.A. Kopayeva, M.N. Mansurov, T.L. Lapteva, M.V. Shabarchina, L.A. Sayfullina (Gazprom Vniigaz LLC)</p> <p>Offshore operations at the continental shelf. Anti-terrorist security to ensure their comprehensive safety</p>
S2	<p>M.M. Smirnov, D.V. Maley, V.E. Prorekhin («NPO CENTROTEKH» LLC)</p> <p>Advantages of composite materials reinforced with high-strength carbon fibers and technology of continuous laying of high-pressure carbon composite pipelines</p>
S3	<p>M.M. Smirnov, D.V. Maley, V.E. Prorekhin («NPO CENTROTEKH» LLC)</p> <p>Introduction of the «AGD(N)+ epilamination» technology of complex processing of the inner surface of high pressure pipes during their production to increase flow rate of main gas pipelines. Corrosion inhibition and prevention of hydrate formation on pipelines by applying highly resistant fluorine surfactants</p>
S4	<p>K.A. Ibatullin, D.N. Zapevalov, R.K. Vagapov, I.S. Tomsky (Gazprom VNIIGAZ LLC)</p> <p>Long-term climatic tests of polymer and composite materials under the industrial environment conditions</p>
S5	<p>S.A. Shkulov, I.V. Shishkin (Gazprom VNIIGAZ LLC branch in Ukhta)</p> <p>Improvement of calculation methods of Arctic gas pipelines electrochemical protection parameters</p>
S6	<p>V.I. Nasonov, A.K. Zamyshlyayev, S.M. Barabanova (Gazprom VNIIGAZ LLC)</p> <p>Methodology for assessing the implementation of the innovative development technological priorities of the Gazprom Group of companies</p>
S7	<p>Y.P. Yasyan, V.V. Kholod, V.A. Surovatka (Technologies Kuban State Technological University)</p> <p>Determination of the parameters of low-temperature processes for hydrocarbon gas treatment</p>
S8	<p>S.O. Elova, E.N. Ovsyannikov (Gazprom VNIIGAZ LLC)</p> <p>Revised estimate of the edges displacement effect on the strength of welded joints of the main gas pipelines (within STO Gazprom 2-2. 4-715-2013)</p>
S9	<p>V.S. Safonov (Gazprom VNIIGAZ LLC)</p> <p>Methodology features of substantiation of accident risk indicators at pipelines for pumping thermodynamically unstable liquid hydrocarbons (NGL)</p>