

November 6, Tuesday (Center for collective use of Academpark, Nikolaev str.12)	
8:30 - 9:00	Transfer from the "Golden Valley" hotel
9:00	Registration of participants (lobby, ground floor)
9:30 - 10:00	Opening of the Conference (large hall)
10:00 - 11:00	Plenary session (large hall)
11:00 - 11:20	Break
11:20 - 12:20	Plenary session (large hall)
12:20 - 13:40	Break
13:40 - 15:55	Section meeting (hall No.1) Section meeting (hall No.2)
15:55 - 16:15	Break
16:15 - 18:00	Stand section (lobby, 2 nd floor)
18:00	Welcome buffet-dinner ("Kukuruza" café, 2 nd floor)
20:00	Transfer to the "Golden Valley" hotel

November 7, Wednesday (Center for collective use of Academpark, Nikolaev str.12)	
8:30 - 9:00	Transfer from the "Golden Valley" hotel
9:00 - 10:30	Plenary session (large hall)
10:30 - 10:50	Break
10:50 - 13:05	Section meeting (hall No.1) Section meeting (hall No.2)
13:05 - 14:00	Break
14:00 - 15:45	Section meeting (hall No.1) Section meeting (hall No.2)
15:45 - 16:05	Break
16:05 - 18:00	Stand section (lobby, 2 nd floor)
18:00	Banquet ("Kukuruza" café, 2 nd floor)
22:00	Transfer to the "Golden Valley" hotel

November 8, Thursday (Center for collective use of Academpark, Nikolaev str.12)	
8:30 - 9:00	Transfer from the "Golden Valley" hotel
9:00 - 10:00	Plenary session (large hall)
10:00 - 10:20	Break
10:20 - 12:20	Section meeting (hall No.1) Section meeting (hall No.2)
12:20 - 14:00	Break
14:00	Excursions to institutes

November 9, Friday (Center for collective use of Academpark, Nikolaev str.12)	
8:30 - 9:00	Transfer from the "Golden Valley" hotel
9:00 - 10:00	Plenary session (large hall)
10:00 - 10:20	Break
10:20 - 11:50	Section meeting (large hall) Section meeting (hall No.1)
11:50	Conference closing (large hall)

Information on the changes to the conference program will be published in advance on the information stand at the conference venue and on the conference website:

<http://www.itp.nsc.ru/conferences/gt2018/index.html>

Conference is financially supported by the Russian Foundation for Basic Research, grant No. 18-08-20122

PROGRAM

November 6, Tuesday		
8:30 - 9:00	Transfer from the “Golden Valley” hotel	
9:00	Registration of participants (lobby, ground floor)	
9:30 - 10:00	Conference opening (large hall) <i>Chairmen: Sergey V. Alekseenko (IT SB RAS), Dmitry M. Markovich (IT SB RAS)</i>	
10:00 – 11:00	Plenary session (large hall) <i>Chairman: Sergey V. Alekseenko (IT SB RAS)</i>	
10: 00 - 10: 30	Numerical simulation of the processes in technologies of energy use of coal <i>Aleksandr A. Dekterev (IT SB RAS, SibFU)</i>	
10: 30 - 11: 00	The use of three-dimensional numerical simulation of combustion processes in the design of low-emission combustion chambers of gas turbine engines <i>Aleksey M. Sipatov (JSC «UEC-Aviadvigatel»)</i>	
11:00 - 11:20	Break	
11:20 - 12:20	Plenary session (large hall) <i>Chairman: Dmitry M. Markovich(IT SB RAS)</i>	
11:20 – 11:50	New approaches to the study of flammability of polymeric materials <i>Oleg P. Korobeynichenov (ICKC SB RAS)</i>	
11:50 -12:20	Chemical inhibition of the processes of gaseous fuel ignition <i>Aleksandr V. Eremin (JIHT RAS)</i>	
12:20 - 13:40	Break	
13:40 - 15:55	Section “Combustion theory and simulation of furnace processes” (hall No.1) <i>Chairmen: Aleksey I. Tseprenok (“ZiO-COTES” LLC), Aleksandr A. Dekterev (IT SB RAS, SibFU)</i>	Section “Experimental studies of combustion processes” (hall No.2) <i>Chairmen: Vladimir M. Dulin (IT SB RAS), Aleksey M. Sipatov (JSC «UEC-Aviadvigatel»)</i>
13:40 - 13:55	Physical and mathematical modeling of the process of solid fuel combustion using the direct-flow burners <i>Prokhorov V.B., Kirichkov V.S., Chernov S.L.</i>	Creation of low-emission burner for the combustion chambers of aviation gas turbine engine <i>Tashkinov V.A.</i>
13:55 - 14:10	Experience and prospects for application of modern computational methods substantiating technical solutions based on calculations for boilers of Cherepetskaya SDPP, Nizhnekamsk HPP, and Blagoveshchenskaya HPP <i>Bezgrishnov A.N., Ivanenko V.V., Ozerov A.N., Sviriyakin I.G., Yuriev E.I.</i>	Prospects for the use of fiber-optic sensors for the study of combustion processes in two-phase flows with a high concentration of dispersed phase <i>Evseev A.R.</i>
14:10 - 14:25	Features of distribution of thermal irregularities in combustion chambers of power	Planning the operating conditions for the burners with low emissions of nitrogen oxides based on the analysis

	boilers <i>Shishkanov O.G.</i>	of diagrams of gas ignition limits <i>Sidorkin V.T., Tugov A.N., Bersenev K.G.</i>
14:25 – 14:40	3D modeling of the burning of Kazakhstan low-grade coal in power boilers of thermal power plants using plasma gasification technology and burning stabilization <i>Askarova A.S., Messerle V.E., Bolegenova S.A., Bolegenova S.A., Nugymanova A.O.</i>	Study of mixture formation and combustion in swirling flow <i>Shtym K.A., Solovyova T.A., Lesnykh A.V.</i>
14:40 - 14:55	Mathematical simulation of burn-out of the coke residue of a coal particle <i>Salomatov Vl.V., Salomatov Vas.V.</i>	Experimental study of combustion of mixed and synthetic fuels in gas-dynamic countercurrent <i>Guryanov A.I., Kononova V.V., Piralishvili Sh.A., Guryanova M.M., Evdokimov O.A.</i>
14:55 - 15:10	Numerical study of the process of joint gasification of coal and wood biomass in an oxygen gas generator <i>Donskoy I.G., Kozlov A.N., Svishchev D.A., Shamansky V.A.</i>	Investigation of the structure of an impinging turbulent swirling jet with combustion <i>Sharaborin D.K., Tolstoguzov R.V., Dulin V.M., Markovich D.M.</i>
15:10 - 15:25	Improving the efficiency of burners under the real conditions of their use on KVGМ-139.6 boilers <i>Sobolev V.M., Shinder Yu.K., Lupulyak S.V., Frolov A.S.</i>	Computational and experimental study of the flow structure and mixture formation in the combustion chamber with a gas-dynamic stabilizer at azimuthal fuel supply <i>Toktaliev P.D., Tretyakov V.V., Sviridenkov A.A., Semenev P.A.</i>
15:25 – 15:40	Simulation of thermal processing of shale for gaseous product generation <i>Knyazeva A.G., Maslov A.L.</i>	The influence of large-scale vortex structures on mixing of a turbulent swirling jet <i>Lobasov A.S., Dulin V.M., Markovich D.M.</i>
15:40 – 15:55	Calculation of the combustion rate of coal dust air suspension <i>Moiseeva K.M., Krainov A.Yu.</i>	Practical application of the improved Rijke pipe scheme when disposing car tires <i>Pavlov G.I., Kochergin A.V., Akhmetshina A.I., Nikitin M.A.</i>
15:55 - 16:15	Break	

16:15 - 18:00	Stand section (lobby, 2nd floor) <i>Chairmen: Sergey I. Shtork (IT SB RAS), Lyudmila N. Perepechko (IT SB RAS)</i>	
1	The effect of small external pressure pulsations on the flame <i>Loboda E.L., Agafontsev M.V., Reino V.V., Klimentyev A.S.</i>	
2	Investigations of the flow structure in a flame during diffusion burning of fuels using optical diagnostic methods <i>Loboda E.L., Anufriev I.S., Agafontsev M.V., Kopev E.P., Shadrin E.Yu.,</i>	

	<i>Reino V.V., Lutsenko A.S., Loboda Yu.A.</i>
3	The structure of the flame of dimethyl ether/O₂/Ar mixture at 1 atm <i>Alyanova N.V., Dmitriev A.M., Bolshova T.A., Shvartsberg V.M., Knyazkov D.A., Shmakov A.G., Korobeynichev O.P.</i>
4	Features of propane and propene oxidation in argon, carbon dioxide and steam at increased pressure <i>Fedyaeva O.N., Artamonov D.O., Vostrikov A.A.</i>
5	Determination of the efficiency of installation for old sleeper incineration <i>Akhmetshina A.I., Nakoryakov P.V., Sitnikov O.R., Nikitin M.A.</i>
6	Thermodynamic modeling of uranium behavior when burning radioactive graphite in an oxygen environment <i>Barbin N.M., Kolbin T.S., Tereniyev D.I., Alekseev S.G.</i>
7	Improving the design of reactor combustion chamber for medical waste pyrolysis <i>Zroychikov N.A., Fadeev S.A., Biryukov Y.A., Kaverin A.A., Tarasov G.A.</i>
8	Study of ignition and combustion of Ekibastuz coal fuel with mechanical and plasma-chemical activation <i>Butakov E.B., Burdukov A.P., Kuznetsov A.V.</i>
9	The use of artificial neural network at thermal decomposition of coal dust <i>Abdurakipov S.S., Butakov E.B., Kuznetsov A.V.</i>
10	Research of directions for using local low-grade fuel <i>Zavorin A.S., Vorontsova E.S.</i>
11	Experience of using and developing the vortex combustion technology <i>Puzyrev E.M., Golubev V.A., Puzyrev M.E.</i>
12	Investigation of contribution of homogeneous flame fronts to NO_x formation in combustion chambers with promising schemes of fuel combustion <i>Goltsev V.F., Schepin S.A.</i>
13	Flame combustion of coal fuel <i>Gorelikov E.Yu., Litvinov I.V., Shtork S.I.</i>
14	Numerical simulation of combustion of diesel fuel sprayed by a steam jet in a promising burner <i>Krasinsky D.V.</i>
15	Investigation of characteristics of self-ignition and combustion of modified ethanol <i>Genarova T.N., Grushevsky V.V., Krivosheev P.N., Leshchevich V.V., Penyazkov O.G., Shimchenko S.Yu., Shushkov S.V.</i>
16	Intensification of peat dust combustion due to energy feed with synthetic and natural fuels <i>Evdokimov O.A., Piralishvili Sh.A., Guryanov A.I., Mikhailov A.S., Burtsev V.A.</i>
17	Study of combustion and heat and mass supply near the bottom cut of the body of revolution at supersonic streamlining <i>Ermolaev I.K., Bogolepov V.V., Sukhanovskaya L.D.</i>
18	Characteristics of combustion of model mixed fuels with aluminum diboride <i>Glotov O.G., Surodin G.S., Zarko V.E., Korchagin M.A.</i>
19	An increase in ignition resistance of high-moisture solid fuels in furnaces of power boilers <i>Kaverin A.A., Zroychikov N.A.</i>
20	Development and testing software

	for analysis of burning and glowing particles <i>Zakharov O.A., Kasymov D.P., Prokhanov S.A., Filkov A.I.</i>
21	Methods of studying the process of single particle combustion in an intense flow of gaseous oxidant <i>Kozlova M.A., Svishchev D.A.</i>
22	The choice of an object for studying internal heat exchange <i>Kulik A.V., Dorogov E.Yu.</i>
23	Investigation of the process of catalytic thermal decomposition of NH₄NO₃ in the presence of carbon nanomaterials <i>Larionov K.B., Mishakov K.B., Bauman Yu.I.</i>
24	Effect of initiating additive of CU(CH₃COO)₂ on the process of coal oxidation <i>Larionov K.B., Mishakov K.B., Bolgova D.L.</i>
25	Prospects for the development of technology of plasma processing of technogeneous wastes <i>Sharina I.A., Perepechko L.N., Domarov P.V.</i>
26	Study of operation of the dynamic dust separator based on numerical simulation <i>Titov D.A., Grigoriev K.A., Luzin P.M.</i>
27	On the possibility of using the optical methods for flow registration in application to the coal-water fuel <i>Zenkov A.V., Gvozdaykov D.V.</i>
18:00	Welcome buffet-dinner
20:00	Transfer to the "Golden Valley" hotel

	November 7, Wednesday	
8:30 - 9:00	Transfer from the "Golden Valley" hotel	
9:00 - 10:30	Plenary session (large hall) <i>Chairmen: Sergey V. Alekseenko (IT SB RAS)</i> <i>Oleg G. Penyazkov (HMTI NASB)</i>	
9:00 - 9:30	Mechanisms of formation of temperature inhomogeneities and their influence on the processes of combustion and detonation <i>Oleg G. Penyazkov (HMTI NASB)</i>	
9:30 - 10:00	Coal-based fuel compositions. Experiment, theory, practice, prospects <i>Geniy V. Kuznetsov (RI TPU)</i>	
10:00 - 10:30	Gasification of mechanically activated coal when steam is supplied to the continuous-flow installation <i>Aleksandr F. Ryzhkov (UrFU)</i>	
10:30 - 10:50	Break	
10:50 – 13:05	Section "Technology of organic fuel combustion" (hall No.1) <i>Chairmen:</i> <i>Geniy V. Kuznetsov (RI TPU),</i> <i>Aleksandr F. Ryzhkov (UrFU)</i>	Section "Theory of combustion and simulation of furnace processes" (hall No.2) <i>Chairmen:</i> <i>Oleg G. Penyazkov (HMTI NASB),</i> <i>Vladimir V. Terekhov (IT SB RAS)</i>
10:50 - 11:05	Thermophysical and thermokinetic characteristics of forest combustible	Mathematical model of oxidation of aluminum nanoparticles

	materials <i>Zhdanova A.O., Kralinova S.S., Kuznetsov G.V., Khasanov I.R.</i>	<i>Krainov A.Yu., Poryazov V.A. Moiseeva K.M., Krainov D.A.</i>
11:05 - 11:20	Intensification of the processes of solid fuel combustion <i>Murko V.I., Baranova M.P.</i>	Simulation of kerosene film decay in the flow part of low-pressure nozzle of an aircraft engine by the fluid volume method <i>Mingalev S.V., Gomzikov L.Yu., Sipatov A.M., Abramchuk T.V.</i>
11:20 – 11:35	The change in the fractional composition of the layer and its impact on the work of boilers with CFB <i>Ryabov G.A., Folomeev O.M.</i>	Improvement of furnace processes at flame combustion of coal in the furnace of PC-38 boiler based on simulation <i>Orlik E.V., Mezhev E.A., Tsepenok A.I., Kvrivishvili A.R.</i>
11:35 - 11:50	Oil-free ignition systems for the boilers of coal power plants <i>Razin V.A., Belorutsky I.Yu., Burov V.F., Lindt V.V.</i>	Mathematical model of non-stationary combustion of metallized composite solid fuel <i>Porjazov V.A., Krainov A.Yu., Krainov D.A.</i>
11:50 - 12:05	Oil-free kindling of pulverized coal boilers at the example of power plants of PJSC "Irkutskenergo" <i>Agliulin S.G., Yaganov E.N., Naumov Yu.I., Nikolaev S.F., Volobuev A.N.</i>	Kinetic model of ignition and combustion of fine-dispersed coal-water fuel <i>Shinnikov P.A., Ovchinnikov Yu.V., Frantseva A.A., Boyko E.E.</i>
12:05 – 12:20	Ecological advantages of using organic coal fuels with the additives of plant origin <i>Nyashina G.S.</i>	Numerical and experimental study of the effect of a phlegmatizing additive on the process of spontaneous combustion of brown coal <i>Kuznetsov V.A., Magdeeva O.L., Neobyavlyayushchiy P.A., Dekterev A.A.</i>
12:20 – 12:35	Direct-flow boilers for high power TPPs with tower boilers for supercritical steam parameters <i>Gorr D.A.</i>	Formation of a graph of energy engineering news using artificial intelligence (AI): significance, practice, application <i>Chernoskutov A.S.</i>
12:35 - 12:50	Development and experience in the use of boilers with tornado furnaces <i>Puzyrev ME, Golubev V.A., Smykalov D.S., Platov I.V.</i>	Improved method of burning a pulverized coal flame <i>Boyko E.A., Pachkovsky S.V.</i>
12:50 – 13:05	Investigation of the combustion process and improving the design of boilers	Calculation and analytical aspects of the use of fine dust for the recovery stage

	with CS-NTV coal combustion <i>Obukhov I.V., Obukhov A.I.</i>	when organization three-stage combustion <i>Shtegman A.V., Sosin D.V., Ryzhiy I.A., Stavskaya O.I.</i>
13:05 - 14:00	Break	
14:00 – 15:45	Section “Technology of organic fuel combustion” (hall No.1) <i>Chairmen:</i> <i>Andrey G. Shmakov (ICKC SB RAS), Eduard R. Prueel (LIH SB RAS)</i>	Section “Combustion in trans- and supersonic flows, detonation” (hall No.2) <i>Chairmen:</i> <i>Anatoliy A. Vasiliev (LIH SB RAS), Oleg V. Sharypov (IT SB RAS)</i>
14:00 – 14:15	Development of a device for introducing an air-fuel mixture into a gas-permeable nozzle of a radiation burner <i>Tsoi K.A., Kravchuk A.A.</i>	Calculation of the rate of suspended aluminum powder burning in air <i>Moiseeva K.M., Krainov A.Yu.</i>
14:15 - 14:30	Principles of liquid fuels combustion in low-emission combustion chambers of aircraft engines <i>Vasilyev A.Yu., Zakharov V.M., Mayorova A.I., Medvedev R.S., Chelebyan O.G</i>	Jet thrust of a pulsating detonation installation when enriching the heptanes-air mixture with oxygen <i>Assad M.S., Penyazkov OG, Chernukho I.I.</i>
14:30 - 14:45	The use of multi-nozzle centrifugal sprayers when burning liquid fuel <i>Upsky M.V., Shtym K.A., Mokrin S.N.</i>	Continuous heterogeneous detonation of a kerosene/hydrogen mixture - air in a ring combustion chamber <i>Bykovsky F.A., Zhdan S.A., Vedernikov E.F.</i>
14:45 – 15:00	On the use of steam ejector when organizing combustion of liquid fuels <i>Baev V.K., Bazhaykin A.N., Chusov D.V., Shumsky V.V.</i>	About rates of normal and deflagration burning of gas mixtures <i>Vasilyev A.A., Vasilyev V.A.</i>
15:00 - 15:15	Combustion of liquid hydrocarbons in a jet of superheated water vapor <i>Anufriev I.S., Kopyev E.P., Sharypov O.V., Vigriyanov M.S., Arsentiev S.S., Osintsev Ya.A.</i>	The sequence of chemical reactions at detonation of organic explosives <i>Satonkina N.P</i>
15:15 - 15:30	Burning of liquid fuel films under different conditions <i>Namyatov I.G., Korzhavin A.A.</i>	The reduced model of chemical kinetics and two-dimensional structure of detonation wave in rich methane mixtures with an oxidizer <i>Fomin P.A., Trotsyuk A.V.</i>
15:30 – 15:45	Methods of creating a thermo-dependent film shell on coals of different grades to optimize the conditions of their transportation, ignition and burning	The study of suppression of detonation combustion of aluminum particles by a cloud of inert particles <i>Lavruk S.A., Bochenkov E.S.</i>

	<i>Pashchenko S.E., Pashchenko S.S., Kalyada V.V., Zarvin A.E., Gartvich G.G., Salomatov V.V.</i>	
15:45 - 16:05	Break	
16:05 - 18:00	Stand section (lobby, 2 nd floor) <i>Chairmen: Georgiy A. Ryabov (JSC «VTI»), Sergey I. Shtork (IT SB RAS)</i>	
1	Numerical study of the possibility of energy boiler conversion to non-project fuel <i>Maltsev K.I., Gil A.V., Lebed D.V.</i>	
2	Simulation of thermal processing of shale for gaseous product generation <i>Knyazeva A.G., Maslov A.L.</i>	
3	The use of coke residue of vapor conversion of coal for gas cleaning at increased temperatures <i>Nikitin A.D., Khudyakova G.I., Osipov P.V., Ryzhkov A.F.</i>	
4	PIV-study of the gas flow structure at expiration from pneumatic nozzle for coal-water fuel <i>Shadrin E.Yu., Anufriev I.S., Maltsev L.I., Sharypov O.V.</i>	
5	The study of dispersed composition of the gas-drop flow when spraying diesel fuel by a steam jet <i>Shadrin E.Yu., Anufriev I.S., Kopyev E.P., Sharypov O.V., Leschevich V.V.</i>	
6	Studying the effect of addition of isomeric methyl and ethyl esters on the flame structure of model diesel fuel <i>Osipova K.N., Shmakov A.G., Bolshova T.A.</i>	
7	Solid fuel combustion using microwave energy and high-temperature shells of modified silica <i>Pashchenko S.E., Pashchenko S.S., Kalyada V.V., Gartvich G.G., Kosykh A.M.</i>	
8	Screening of domestic plant materials suitable for production of solid biofuels <i>Podgorbunskikh E.M., Bychkov A.L., Denkin A.I., Lomovsky O.I.</i>	
9	Thermomechanological intensification of ignition and combustion of solid fuel particles of a polymer microstructure <i>Popov V.I.</i>	
10	Numerical simulation of burning of frozen water suspension of bidisperse aluminum powder <i>Poriazov V.A., Krainov A.Yu., Krainov D.A.</i>	
11	Patterns of combustion of single wood particles in an inert channel <i>Svishchev D.A., Kozlova M.A.</i>	
12	Mechanochemical modification of brown coal aimed at an increase in the efficiency of separation of organic and ash components <i>Skripkina T.S., Bychkov A.L., Lomovsky O.I.</i>	
13	Studying the effect of heating rate on coal ignition <i>Slusarsky K.V., Korotkikh A.G.</i>	
14	Recommendations for creating a silencer for aerodynamic valve of pulsating combustion chamber <i>Telyashov D.A., Pavlov G.I., Nakoryakov P.V., Sukhovaya E.A.</i>	
15	Numerical simulation of non-stationary combustion of a methane-air mixture in a model combustion chamber with a ledge <i>Lebedev A.B., Yakubovsky K.Ya., Toktaliev P.D.</i>	
16	The effect of TPP flame retardant on horizontal flame spread over the	

	PMMA surface <i>Trubachev S.A., Korobeynichev O.P., Tereshchenko A.G., Hu Ya., Wang K.</i>
17	Numerical simulation of primary spray of liquid fuel when flowing out of an air nozzle <i>Shebelev A.V., Kuznetsov V.A., Minakov A.V.</i>
18	Numerical simulation of solid fuel combustion under the conditions of blowing by subsonic and supersonic air flows <i>Krainov A.Yu., Krainov D.A.</i>
19	Kinetic model of fuel combustion in a cyclone furnace extension <i>Shinnikov P.A., Ovchinnikov Yu.V., Frantseva A.A., Boyko E.E.</i>
20	Fuel additives for efficiency improving of solid fuel incineration <i>Messerle V.E., Paskalov G., Umbetkaliev K.A., Ustimenko A.B.</i>
21	Ignition of a group of wood biomass particles under the conditions of high-temperature radiation-convective heating <i>Syrodoy S.V., Kuznetsov G.V., Salomatov V.V.</i>
22	Hydrodynamics of interconnected reactors in the systems of plastic and biomass pyrolysis, followed by obtaining motor fuel components <i>Ryabov G.A., Folomeev O.M., Dolgushin I.A.</i>
23	Verification of computational methods for modeling a gas outflow from an air nozzle <i>Kuznetsov V.A., Shebelev A.V., Anufriev I.S., Minakov A.V.</i>
24	Study of the reaction of laminar hydrogen flame with impulse effect on a jet of fuel <i>Lemanov V.V., Lukashov V.V., Sharov K.A.</i>
25	Kinetics of lignocellulosic fuel drying <i>Donskoy I.G., Kozlov A.N., Shamansky V.A.</i>
26	The structure of polyoxymethylene flame in countercurrent air flow and kinetics of its decay <i>Glaznev R.K., Paletsky A.A., Gonchikzhapov M.B., Korobeinichev O.P.</i>
27	The impact of electric field on the combustion reaction <i>Ilyushov N.Ya., Ridel A.V.</i>
28	Two-dimensional model of ignition of energetic substance under the conditions of coupled heat transfer <i>Knyazeva A.G., Zarko V.E.</i>
29	Computer simulation of the effect of coal properties on formation of nitrogen oxides in a boiler with circulating fluidized bed <i>Koksharev O.M., Gil A.V.</i>
18:00	Banquet
22:00	Transfer to the "Golden Valley" hotel

November 8, Thursday	
8:30 - 9:00	Transfer from the "Golden Valley" hotel
9:00 – 10:00	Plenary session (large hall) <i>Chairman: Oleg V. Sharypov (IT SB RAS)</i>
9:00 - 9:30	Incineration of SMW in Russia: current state and prospects

	<i>Angrey N. Tugov</i>	
9:30 - 10:00	Simulation of ignition of pulverized coal in the plasma-fuel system <i>Vladimir E. Messerle (ICP Kazakhstan, Almaty)</i>	
10:00 - 10:20	Break	
10:20- 12:35	Section “Technology of organic fuel combustion” (hall No.1) <i>Chairmen:</i> <i>Eduard R. Prueel (LIH SB RAS),</i> <i>Vladimir E. Messerle (ICP Kazakhstan, Almaty)</i>	Section “Experimental studies of combustion processes” (hall No.2) <i>Chairmen:</i> <i>Aleksey A. Korzhavin (ICKC SB RAS),</i> <i>Vladimir V. Lukashov (IT SB RAS)</i>
10:20 - 10:35	Production of energy gas by plasma gasification solid waste <i>Messerle V.E., Mosse A.L.,</i> <i>Ustimenko A.B., Baymuldin R.V.</i>	Features flameout when blowing a jet of hydrogen diluted with inert gases into cross-flow <i>Lukashov V.V., Terekhov V.V.</i>
10:35 - 10:50	The study of plasma gasification of solid municipal waste <i>Anshakov A.S., Domarov P.V.,</i> <i>Perepechko L.N., Faleev V.A.</i>	Heat transfer processes when spreading the flame in a closed vessel, partially filled with a porous medium <i>Korzhavin A.A., Kozlov Ya.V.</i>
10:50 - 11:05	Technical proposals for construction of waste processing plants <i>Bagryantsev G.I.</i>	Distribution of heat fluxes in wall diffusion flame <i>Lukashov V.V., Terekhov V.V.</i>
11:05 – 11:20	Incineration of wood and agricultural industry waste in small and medium power engineering <i>Zhukov E.B., Menyaev K.V.,</i> <i>Taymasov D.R.</i>	Effect of inert and reacting gases additives in hydrogen on the structure and conditions of stabilization of diffusion flame of the fuel mixture <i>Shmakov A.G., Grek G.R., Kozlov V.V.,</i> <i>Litvinenko Yu.A.</i>
11:20 - 11:35	Joint incineration of industrial and municipal waste in the form of fuel suspensions <i>Vershinina K.Yu., Schlegel N.E.,</i> <i>Strizhak P.A.</i>	Mechanism of combustion of solid combustible materials and reduction of their flammability by additives of fire retardants <i>Korobeynichev O.P., Shmakov A.G.,</i> <i>Trubachev S.A., Paletsky A.A., Chernov A.A.,</i> <i>Glaznev R.K., Tereshchenko A.G.,</i> <i>Shundrina I.K., Karpov A.I.,</i> <i>Shaklein A.A., Hu.Yu., Wang K.</i>
11:35 – 11:50	Gasification of combustible waste by continuous light radiation <i>Zaitsev A.S., Egorov R.I.</i>	Combustion of large particles of titanium in air <i>Glotov O.G., Belousova N.S.,</i> <i>Surodin G.S.</i>
11:50 - 12:05	Specifications	Investigation of vortex flame pulsations

	and use of petroleum coke in power engineering <i>Artemyeva N.V., Bogomolov V.V., Alekhnovich A.N.</i>	by laser scanning and receiving its own radiation <i>Sherstobitov M.V., Sazanovich V.M., Tsvyk R.Sh.</i>
12:05 - 12:20	Fragmentation of biomass particles at combustion and gasification in a dense and fluidized bed <i>Litun D.S., Ryabov G.A., Dolgushin I.A.</i>	Initiation of waves of filtration gas combustion in an inert porous medium <i>Manzhos E.V., Kakutkina N.A., Korzhavin A.A., Rychkov A.D., Senachin P.K.</i>
12:20 – 12:35	Investigation of ignition and combustion characteristics of composite fuels made of industrial and domestic waste in the framework of analysis of the prospects for their incineration for energy production <i>Glushkov D.O., Strizhak P.A.</i>	Boiler equipment of PJSC “Power Machines”: “Modernization of boilers” of JSC TKZ “Krasny Kotelshchik” <i>Khimchenko S.A.</i>
12:35 - 14:00	Break	
14:00	Excursions to the institutes	

November 9, Friday		
8:30 - 9:00	Transfer from the “Golden Valley” hotel	
9:00 – 10:00	Plenary session (large hall) <i>Chairman: Pavel A. Kuibin (IT SB RAS)</i>	
9:00 - 9:30	Diffusion combustion of a hydrogen microjet with sub- and supersonic outflow from the nozzle (locking phenomenon) <i>Victor V. Kozlov (ITAM SB RAS)</i>	
9:30 - 10:00	Fuel and energy complex of Russia and Siberia: problems and prospects <i>Nikita I. Suslov (IEIE SB RAS)</i>	
10:00 - 10:20	Break	
10:20- 11:35	Section “Ecological and economic problems of fuel power engineering” (large hall) <i>Chairmen:</i> <i>Nikita I. Suslov (IEIE SB RAS), Lyudmila N. Perepechko (IT SB RAS)</i>	Section “Experimental studies of combustion processes” (hall No.1) <i>Chairmen:</i> <i>Victor V. Kozlov (ITAM SB RAS), Pavel A. Kuibin (IT SB RAS)</i>
10:20 - 10:35	Energy saving ecological projects of tool assessment and effects on the environment <i>Plyaskina N.I.</i>	Influence of inert particles on ignition delay times for reactive gas mixtures <i>Tropin D.A., Bochenkov E.S.</i>
10:35 - 10:50	On the prospects of development of	Excitation of oscillations of a

	new technologies and methods for inventing gas and energy systems <i>Teslenko V.S.</i>	cylindrical combustion front in a flat annular channel by the entropy waves <i>Trilis A.V.</i>
10:50 - 11:05	Benefits and risks of coal generation under conditions of new industrialization and digitalization of economy <i>Gorbacheva N.V.</i>	Ignition and combustion of HEM based on boron-containing components <i>Korotkikh A.G., Sorokin I.V., Arkhipov V.A., Selikhova E.A.</i>
11:05 – 11:20	Technical and economic efficiency of using the technology of mechanically activated micro-grinding of coal for igniting the coal-dust boilers <i>Burdukov A.P., Butakov E.B., Chernova G.V.</i>	Grounding the efficiency of the stepped heat supply in the process of thermal pre-treatment of solid organic fuel <i>Boyko E.A., Strashnikov A.V.</i>
11:20 – 11:35	Plasma gasification of SMW and rates for utilization of municipal waste <i>Averkin P.A.</i>	Combustion regimes in Ti-C, Ti-B, and Ti-Si systems with an excess of titanium <i>Chumakov Yu.A., Knyazeva A.G.</i>
11:35	Conference closing (large hall)	