PHYSICAL AND MATHEMATICAL MODELING OF PROCESSES IN GEOMEDIA



Ishlinsky Institute for Problems in Mechanics of RAS October 20–22, 2021

Moscow

SCIENTIFIC PROGRAM

Theoretical and experimental studies of processes in atmosphere, ocean, lithosphere and their interactions; a wide range of problems associated with the production of hydrocarbons; ecological problems of the environment; problems of human impact on the environment; geophysical methods.

Papers on similar topics can be included in the School Program. Number of papers presented by one author is not limited.





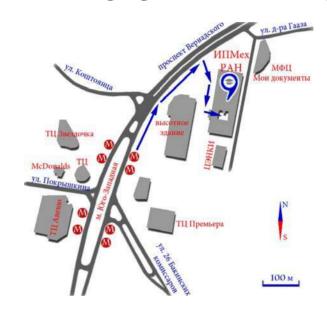
The School is scheduled to be listen to more than 100 invited, oral and poster presentations. It is planned to hold open discussions on the subject of Schools with the participation of leading experts in appropriate fields. School materials will be published.

PROGRAM COMMITTEE:

Ac. V.N. Akopyan, Prof. L.A. Abukova, Prof. A.A. Babanin, Dr. N.S. Bezaeva, Dr. T.O. Chaplina (Sc. Secretary), Prof. A.V. Kholoptsev, Ac. A.N. Dmitrievsky, Ac. I.G. Goryacheva, Prof. V.I. Karev (Dep. Chair), Prof. A.V. Kistovich, Prof. M. Kwasniewsky, Ac. D.M. Klimov (Chairman), Dr.Sc. Yu.F. Kovalenko, Prof. V.B. Lapshin, Ac. V.P. Matveenko, Prof. L.A. Nazarova, Ac. R.I. Nigmatulin, Prof. V.N. Nosov, Prof. K.V. Pokazeev (Dep. Chair), Prof. N.N. Sysoev, Prof. I.A. Repina, Prof. A. Saakyan, Prof. A.A. Schreider, Prof. A.A. Soloviev, Prof. B.G. Tarasov, Prof. V.V. Fadeev, Corr. RAS N.N. Filatov, Prof. S.E. Yakush, Prof. P. Young, Prof. P.O. Zavyalov, Prof. A.G. Zatsepin, Prof. A.S. Zapevalov, Prof. I.A. Znamenskaya, Prof. V.N. Zyryanov.

Conference venue: A.Ishlinsky Institute for Problems in Mechanics of Russian Academy of Sciences. Prospekt Vernadskogo 101/1, 119526 Moscow, Russia

Conference languages: Russian and English



Schedule

	Tuesday 19	October 2021
14:00 – 17:00	Registration of participants	Assembly hall foyer IPMech RAS
09:00 - 17:30	<i>Cpeдa-пятница, 2</i> Registration of participants	20-22 октября 2021 Assembly hall foyer IPMech RAS
09:00 - 19:45	Session	IPMech assembly hall

Attention!
The Program is subject to change.
Follow the announcements.

Scientific Program

Wednesday 20 October 2021

10:00 – 10:15	School opening Opening Director of IPMech RAS S.E. Yakush Opening remarks by the Chairman of the Program Committee, Academician of the Russian Academy of Sciences D.M. Klimov
10:15 – 10:40 plenary	Karev V.I., Kovalenko Yu.F. SIMULATION OF DIRECTIONAL UNLOADING OF THE FORMATION AT A TRUE THREE-AXIS LOADING PLANT FOR LOW PERMEABLE COLLECTORS
10:40 – 11:10 plenary	Galybin A.N., Yakush S.E., Polishchuk A.M. CRACK SYSTEM DEVELOPMENT FROM PRESSURIZED PORES IN ROCK MATRIX
11:10 – 11:30 plenary	Ustinov K.B. DETERMINATION OF THE STRESS STATE OF THE ROCK MASS. METHODS, DIFFICULTIES AND WAYS TO OVERCOME THEM

11:30 – 11:45 Coffee - break Section 2. Physics of the sea and the atmosphere. Theory, experiment, practice

11:45 – 12:00 invited	Morozov E.G. GLOBAL FIELD OF SEMIDIURNAL INTERNAL TIDES
12:00 – 12:15 invited	Fedyushkin A.I., Rozhkov A.N. CRITERION FOR DROP SPREADING / SPLASHING UP ON IMPACT ON A SOLID TARGET
12:15 – 12:30 invited	Zapevalov A.S. APPROXIMATION OF THE SEA SURFACE RISE DENSITY FUNCTION BY THE SIMPLEST GAUSSIAN MIXTURE
12:30 – 12:45	Kuznetsov S.Yu., Saprykina Ya.V. NONLINEAR CONNECTIONS OF NONSTATIONARY FLUCTUATIONS OF STORMINESS AND CLIMATE
12:45 – 13:00 invited	Morozov E.G. WAVE PROCESSES IN THE ARCTIC
13:00– 13:15 invited	Kholoptcev A.V., Shubkin R.G., Babenyshev S.V. WATER EXCHANGE OF AREAS OF THE EARTH SURFACE WITH THE ATMOSPHERE AND FOREST FIRES, ON THE EXAMPLE OF

	SIBERIA
13:15– 13:30	Smirnov S.I., Smirnovsky A.A., Bogdanov S.R. NUMERICAL SIMULATION OF THE SPRING UNDER-ICE TURBULENT FREE CONVECTION DRIVEN BY PERIODIC RADIATIVE HEATING

13:30 - 14:00 Lunch

Section 1. Geomechanics and hydromechanics of oil and gas fields and other sources of hydrocarbon raw materials

14:00 – 14:15	Shevtsov N.I. RESEARCH OF ROCK EMISSION MECHANISMS WITH MEASUREMENT OF ACOUSTIC EMISSION
14:15 – 14:30	Khimulia V.V. PHYSICAL MODELING OF FILTRATION AND DEFORMATION PROCESSES IN RESERVOIRS OF UNDERGROUND GAS STORAGES DURING WELL PRESSURE DRAWDOWN
14:30 – 14:45	Zakirov T.R., Garaeva A.N. PHASE DIAGRAMS OF THE INVASION PATTENS DURING TWO-PHASE FLOWS IN ANISOTROPIC POROUS MEDIA UNDER DIFFERENT WETTING CONDITIONS AND CAPILLARY NUMBERS
14:45 – 15:00	Barkov S.O. HISTORY OF DEVELOPMENT OF STATISTICAL METHODS IN OIL AND GAS SCIENCE
15:00 – 15:15	Anakhaev K.N., Belikov V.V. SIMULATION OF DEPTH IMPULSE IMPACT ON HYDROGEOPHYSICAL ARRAY
15:15–15:30	Volkova A.Yu. ANISOTROPY OF STRENGTH AND FILTERING PROPERTIES OF ROCKS IN GEOMECHANICAL MODELING OF WELLS
15:30 – 16:00 invited	Tarasov B.G. THE UNDERSTOOD EARTHQUAKE PARADOXES IN THE WHOLE ROCKS OF THE EARTH'S CRUST WITH AN ANOMALOUS LOW SHEAR VOLTAGE
16:00 – 16:30 invited	Nazarova L.A., Golikov N.A., Nazarov L.A., Nesterova G.V. METHOD FOR DETERMINING THE DEPENDENCE OF PERMEABILITY ON STRESS DURING ELASTOPLASTIC DEFORMATION OF GEOMATERIALS FROM THE DATA OF FILTERING TESTS OF CYLINDRICAL SAMPLES WITH A CENTRAL HOLE

Section 2. Physics of the sea and the atmosphere. Theory, experiment, practice

16:30 – 17:00 invited					TEX MOTION N OF IMMIX			ТНЕ
17:00 – 17:30	Zhuk OCEA	E.V. NOGR.	SYSTEM APHIC DAT	OF TA ON	STORAGE THE BLACK	AND SEA	ACCESS	ТО

17:45 Welcome reception For your notes

Thursday, 21 October 2021 Section 2. Physics of the sea and the atmosphere. Theory, experiment, practice

Shreider A.A., Sazhneva A.E., Klyuev M.S., Brekhovskikh A.L., Bohoyo F., Galindo-Zaldivar H., Morales Ts., Evsenko E.I. EVOLUTION OF THE BOTTOM OF JANE'S BOTTLE IN THE NORTH-WEST OF THE WEDDELL SEA Riabova S.A. APPLICATION OF THE CHAPMAN-MILLER METHOD IN THE AWALYSIS OF DAILY LUNAR VARIATIONS IN GEOMAGNETIC DATA AT BELSK OBSERVATORY Terentiev E.N., Shugaev F.V., Suhareva N.A., Nikolaeva O.A., Shilm-Terentyev N.E. IDENTIFYING POINT OBJECTS IN MEASURING INSTRUMENTS WITH UNKNOWN APPARATUS FUCTIONS Terentiev E.N., Prikhodko L.N., Volkov M.B. THE ESTIMATION OF PARAMETERS OF OBJECTS IN IMAGES Shiremel M.N. METHODOLOGY FOR ASSESSING THE COASTAL ZONE VULNERABILITY TO WAVE IMPACT BASED ON TAKING INTO ACCOUNT THE PROPERTIES OF NONLINEAR WAVE TRANSFORMATION 10:15-10:30 invited Kotov M.A., Soloviev N.G., Shemyakin A.N., Yakimov M.Yu. PROSPECTS FOR APPLICATION OF MATERIALS WITH HIGH DIFFUSE SCATTERING OF UV RADIATION IN BACTERICIDE CLEANERS AND RECIRCULATORS Klyagina O.S., Zatsepa S.N., Pokazeev K.V., Solbakov V.V. STUDYING THE TRANSPORT ROUTES OF POLLUTANTS IN THE CASPIAN SEA BY THE METHOD OF SIMULATION OF LAGRANGESE TRAJECTORIES Klyuev M.S., Shreider A.A., Zverev A.S., Brekhovskikh A.L., Rakitin I.Ya., Sazhneva A.E. ON THE BOUNDARIES OF THE PALEOSTRUCTURES OF THE ASHAMBA RIVER IN THE BLUE BAY NEAR GELENDZHIK ACCORDING TO THE DATA OF BROADBAND CONTINUOUS SEISMIC-ACOUSTIC PROFILING AND GPS POSITIONING 11:15-11:30 Zatsepin A.G., Gerasimov V.V. RESULTS OF A STUDY OF		, y, y
### METHOD IN THE ANALYSIS OF DAILY LUNAR VARIATIONS IN GEOMAGNETIC DATA AT BELSK OBSERVATORY #### Terentiev E.N., Shugaev F.V., Suhareva N.A., Nikolaeva O.A., Shilin-Terentyev N.E. IDENTIFYING POINT OBJECTS IN MEASURING INSTRUMENTS WITH UNKNOWN APPARATUS FUCTIONS ### 10:00 - 10:15	09:00 - 09:15	Bohoyo F., Galindo-Zaldivar H., Morales Ts., Evsenko E.I. EVOLUTION OF THE BOTTOM OF JANE'S BOTTLE IN THE
Shilin-Terentyev N.E. IDENTIFYING POINT OBJECTS IN MEASURING INSTRUMENTS WITH UNKNOWN APPARATUS FUCTIONS 09:45 - 10:00	09:15 - 09:30	METHOD IN THE ANALYSIS OF DAILY LUNAR VARIATIONS
OF PARAMETERS OF OBJECTS IN IMAGES Shtremel M.N. METHODOLOGY FOR ASSESSING THE COASTAL ZONE VULNERABILITY TO WAVE IMPACT BASED ON TAKING INTO ACCOUNT THE PROPERTIES OF NONLINEAR WAVE TRANSFORMATION 10:15-10:30 Fedyushkin A.I., Rozhkov A.N. FINE THREAD DROP MODES invited Kotov M.A., Soloviev N.G., Shemyakin A.N., Yakimov M.Yu. PROSPECTS FOR APPLICATION OF MATERIALS WITH HIGH DIFFUSE SCATTERING OF UV RADIATION IN BACTERICIDE CLEANERS AND RECIRCULATORS Klyagina O.S., Zatsepa S.N., Pokazeev K.V., Solbakov V.V. STUDYING THE TRANSPORT ROUTES OF POLLUTANTS IN THE CASPIAN SEA BY THE METHOD OF SIMULATION OF LAGRANGESE TRAJECTORIES Klyuev M.S., Shreider A.A., Zverev A.S., Brekhovskikh A.L., Rakitin I.Ya., Sazhneva A.E. ON THE BOUNDARIES OF THE PALEOSTRUCTURES OF THE ASHAMBA RIVER IN THE BLUE BAY NEAR GELENDZHIK ACCORDING TO THE DATA OF BROADBAND CONTINUOUS SEISMIC-ACOUSTIC PROFILING AND GPS POSITIONING	09:30 - 09:45	Shilin-Terentyev N.E. IDENTIFYING POINT OBJECTS IN MEASURING INSTRUMENTS WITH UNKNOWN APPARATUS
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11:00 – 11:15 Rakitin I.Ya., Sazhneva A.E. ON THE BOUNDARIES OF THE PALEOSTRUCTURES OF THE ASHAMBA RIVER IN THE BLUE BAY NEAR GELENDZHIK ACCORDING TO THE DATA OF BROADBAND CONTINUOUS SEISMIC-ACOUSTIC PROFILING AND GPS POSITIONING	10:45-11:00	STUDYING THE TRANSPORT ROUTES OF POLLUTANTS IN THE CASPIAN SEA BY THE METHOD OF SIMULATION OF
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	11:15 – 11:30	Zatsepin A.G., Gerasimov V.V. RESULTS OF A STUDY OF

invited	TURBULENT MASS EXCHANGE IN A STRATIFIED LIQUID AND THE CONDITIONS OF ITS FINE STRUCTURE
11:30 – 11:45 invited	Epifanov V.P. EVOLUTION OF THE STRUCTURE IN THE LAYERS OF SNOW COVER
11:45 – 12:00	Kumakshev S.A. SIMULATION OF THE SOURCE OF RING WAVES NEAR DARWIN ISLAND USING PHOTOS FROM SPACE

Section 1. Geomechanics and hydromechanics of oil and gas fields and other sources of hydrocarbon raw materials

11:40- 11:55	Shkapov P.M., Sulimov A.V., Sulimov V.D. COMPUTATIONAL DIAGNOSTICS OF JACOBIALLY UNSTABLE DYNAMIC SYSTEMS USING HYBRID GLOBAL OPTIMIZATION ALGORITHMS
11:55– 12:10	Yudochkin N.A., Belyakov G.V. DEVELOPMENT OF A CRACK IN A COMPRESSIBLE SATURATED MEDIUM
12:10- 12:25	Soboleva E.B. ON THE INFLUENCE OF FLUCTUATIONS ON THE START OF RELAY-TAYLOR CONVECTION IN A POROUS MEDIUM
12:25 – 12:40 invited	Kholoptsev A.V., Podporin S.A. CHANGES IN THE TOPOGRAPHY OF THE WATER SURFACE OF THE CHUKOTSKY SEA AND SAFETY OF SHIPPING WITH A MODERN WARMING CLIMATE
12:40- 12:55	Chernous P.A., Kazakova E.N. SOME PROBLEMS OF ESTIMATING SNOW INSTABILITY ON MOUNTAIN SLOPES
12:55– 13:10	Tolchennikov A.A. UNIFORM FORMULAS FOR ASYMPTOTIC SOLUTION OF A LINEAR PSEUDODIFFERENTIAL EQUATION FOR WAVES IN WATER GENERATED BY A LOCALIZED SOURCE

13:10 - 14:00 Lunch

Section 1. Geomechanics and hydromechanics of oil and gas fields and other sources of hydrocarbon raw materials

14:00 – 14:20 invited	Karev V.I. RELATED PROBLEM OF ELASTOPLASTIC DEFORMATION OF RESERVOIR ROCKS AND FILTRATION INTO A WELL
14:20 – 14:35	Malyukov V.P. SEPARATED DESTRUCTION OF ROCK SALT AND MASS RECOVERY BY HYDRODYNAMIC IMPACT OF AQUEOUS SOLUTION
14:35 – 14:50	Lobkovsky L.I., Ramazanov M.M. GENERALIZED MODEL OF FILTRATION IN A CRACKED POROUS MEDIUM
14:50 – 15:05	Vasiliev I.A., Dubinya N.V., Nachev V.A., Alekseev D.A., Tikhotskiy S.A. RESEARCH OF PHYSICAL PROCESSES AFFECTING SEISMIC STABILITY OF SELF-LIFTING DRILLING RIGS
15:05 – 15:20	Nachev V.A., Turuntaev S.B. NUMERICAL SIMULATION OF CRACK PROPAGATION IN ROCKS AT THE MICRO LEVEL

15:20 – 16:40 Coffee - break

Section 2. Physics of the sea and the atmosphere.

Theory, experiment, practice

15:40 – 15:55	Kochergin V.S., Kochergin S.V. NUMERICAL IMPLEMENTATION OF THE MODIFIED VARIATION ALGORITHM FOR ASSIMILATION OF MEASUREMENT DATA IN THE PASSIVE IMPURITY TRANSFER MODEL
15:55 – 16:10	Afanasyev V.V., Vaseikina N.A. ANTHROPOGENIC CORRECTION AND EVOLUTIONAL CHANGES IN THE RECREATIONAL PROPERTIES OF MORPHOLYTOSYSTEMS OF THE SOUTH COAST OF THE CRIMEA (SC) AND THE SOUTH COAST OF SAKHALIN (YBS)
16:10 – 16:25	Kotov M.A., Soloviev N.G., Shemyakin A.N., Yakimov M.Yu. BEHAVIOR OF A CONVECTIVE OPTICAL DISCHARGE TORCH WITH A REDUCTION OF THE ACCELERATION OF FREE FALL
16:25–16:40	Pashkov I.I., Kotov M.A. DISINFECTION AND ACTIVATION OF SEEDS DURING COLD PLASMA TREATMENT

16:40 – 16:55	Kosykh N.B. PRACTICAL METHOD FOR DETERMINING SURFACE WAVE PARAMETERS USING UNDERWATER OBSERVATION IN THE COASTAL AREA
16:55 – 17:10	Kasyanov S.Yu. STRUCTURE OF THE SYSTEM OF INTRA-MANTIC VORTEX IN SIBERIA AND THEIR IMPACT ON THE ARCTIC CLIMATE
17:10 – 17:25	Zhuk E.V. INTERFACE OF ACCESS TO DATA OF THE COASTAL AREA OF RUSSIA IN THE BLACK SEA
17:25 – 17:40	Berezkin M.Yu., Degtyarev K.S., Sinyugin O.A. TIDAL ENERGY RESOURCES OF THE SEA OF OKHOTSK TO PROVIDE JAPANESE IMPORT OF HYDROGEN
17:40 – 17:55	Pogorelova P.V., Podrezova N.A. STUDY OF DENSITY STRATIFICATION IN THE WHITE SEA
17:55 – 18:10	Pashkov I.I., Shishkin F.A., Zhelezova S.V. DISINFECTION AND ACTIVATION OF WINTER WHEAT SEEDS BY COLD BARRIER DISCHARGE PLASMA
18:10 – 18:25 invited	Pokazeev K.V., Soloviev D.A. PROSPECTS FOR THE DEVELOPMENT OF RENEWABLE ENERGY IN THE HYDROSPHERE
18:25 – 18:40	Pakhnenko V.P. APPLICATION OF THE POTRACE SOFTWARE TO STUDY THE MOVEMENT OF MARKERS ON A WATER SURFACE
18:40 – 18:55 invited	Kistovich A.V. CONVECTIVE PHENOMENA IN NATURAL CONDITIONS AND ITS COMPARISON WITH THEORETICAL MODELS
18:55- 19:10	Chaplina T.O. METHODS FOR CLEANING MARINE AREAS FROM OIL POLLUTION

Friday, 22 October 2021 Section 2. Physics of the sea and the atmosphere. Theory, experiment, practice

09:30 - 09:45	Elkin D.N., Zatsepin A.G. LABORATORY MODELING OF THE MECHANISM OF FORMATION OF SUB-SCALE VORTEX ON THE
	SHELF OF THE BLACK SEA

09:45 – 10:00	Ramazanov M.M., Bulgakova N.S., Gadzhimagomedova S.R. STABILITY OF ONE-DIMENSIONAL FLOWS IN A TILT POROUS LAYER SATURATED WITH WATER AND VAPOR SEPARATED BY AN INTERPHASE BOUNDARY
10:00 – 10:15	Ivanova I.N., Budnikov A.A., Agapova D.A., Zarubina A.I., Carrion Gonzalez P., Butko M.S., Ilinykh D.I. DYNAMIC DYNAMICS OF HYDROLOGICAL PARAMETERS OF WATER NEAR THE BLACK SEA OCEANOGRAPHIC PLATFORM (KATSIVELI)
10:15 – 10:30	Demyshev S.G., Evstigneeva N.A., Dymova O.A. ANALYSIS OF CURRENT FIELDS AND ENERGY CHARACTERISTICS OF WATER CIRCULATION IN THE NORTHERN BLACK SEA BASED ON ASSEMBLING HYDROLOGICAL OBSERVATION DATA IN THE AUTUMN 2016 AUTUMN
10:30 – 10:45	Kazankov V.K., Peregudin S.I., Kholodova S.E. WAVE DYNAMICS IN GEODYNAMIC PROCESSES
10:45 – 11:05	Kalugin A.S. MODELING THE NATURAL FORMATION OF THE VOLGA RUNOFF UNDER CONDITIONS OF MODERN CLIMATIC CHANGE
11:05 – 11:20	Gutsev S.A., Varzin S.A., Glavnov P.V., Yafyasov A.M., Kosykh N.B. METHODS FOR ASSESSING ION CONCENTRATION IN ELECTROLYTE SOLUTIONS

11:20 – 11:40 Coffee - break

11:40 – 11:55	Markova N.V., Dymova O.A. COURSES IN THE BLACK SEA: OBSERVATIONS AND NUMERICAL SIMULATION
11:55– 12:10	Тейдер М.С., Оскотская С.А., Фролова Н.С., Подрезова Н.А. Teyder M.S., Oskotskaya S.A., Frolova N.S., Podrezova N.A. ANNUAL ARCTIC ICE CHANGE
12:10 – 12:25	Slepyshev A.A., Vorotnikov D.I. NUMERICAL CALCULATION OF PULSE WAVE FLUXES ON A TWO-DIMENSIONAL STRATIFIED FLOW
12:25 – 12:45	Bulatov V.V., Ponomarev A.N. THEORETICAL STUDY OF THE POSSIBILITY OF IMPROVING LASER LOCATION IN AQUATIC ENVIRONMENTS
12:45 – 13:00	Poplavsky E.I., Kuznetsova A.M., Dossaev A.S., Troitskaya Yu.I.

	TRENDS OF CLIMATOLOGY IN THE BARENTS AND KARA SEAS BASED ON REANALYSIS DATA
13:00 – 13:15	Nosov V.N., Ivanov S.G., Kaledin S.B., Timonin V.I., Pogonin V.I., Zevakin E.A. TWO-CHANNEL SEA BRIGHTNESS PHOTOMETER FOR AVIATION-BASED SEA RESEARCH

13:15 - 14:00 Lunch

14:00- 14:15	Kasyanov S.Yu. ON THE MECHANISM OF CONNECTION OF CHANGES IN DURATION OF DAYS AND ANOMALIES IN EARTH TEMPERATURE
14:15–14:30	Kupriyanova A.E., Gritsenko V.A. NUMERICAL AND LABORATORY MODELING OF THE MOTION OF SALT WATER SPOTS IN A TWO-LAYER LIQUID
14:30– 14:45 invited	Rudenko A.O., Rozhkov A.N. FALLING AN ELASTIC DROP ON A PLATE WITH A HOLE
14:45- 15:00	Bulatov V.V., Vladimirov Yu.V. INTERNAL GRAVITATIONAL WAVES FROM AN FLASHED RADIAL SYMMETRY SOURCE
14:15- 14:30	Kistovich A.V. PETROLEUM LENTILS ON THE WATER SURFACE
14:30– 14:45	Pakhnenko V.P. USING THE SALOME SOFTWARE PACKAGE FOR NUMERICAL MODELING OF PROCESSES IN GEOPHYSICS
14:45–15:00	Chaplina T.O.EXPERIMENTAL AND ANALYTICAL STUDY OF THE AIR CAVITY OVER A COMPLEX VORTEX
15:00- 15:20	Afanasyev V.V. STABILIZATION OF LAGOON STRAITS AND ATTENUATION OF CARBON BIOSEQUESTRATION BY COASTAL WETLAND GEOSYSTEMS
15:20–15:35	Abramovich A.Yu., Yanovskaya V.S., Shumeiko I.P. MEASURING VIBRATION OF OBJECTS IN THE MARINE ENVIRONMENT
15:35 – 15:50 invited	Pokazeev K.V., Sokolov V.A. ANALYSIS OF SEA WATER CALCULATIONS FROM THE POSITION OF THE THEORY OF OPEN NON-EQUILIBRIUM DISSIPATIVE THERMODYNAMIC SYSTEMS

15:50 – 16:05	Riabova S.A. CHANGES IN THE GEOMAGNETIC FIELD DUE TO ROCKET LAUNCHES FROM THE BAIKONUR COSMODROME (2019-2021)
16:05 – 16:20	D.A. Soloviev, L.V. Nefedova PROBLEMS OF MUTUAL INFLUENCE OF ECONOMY AND CLIMATE
16:20 – 16:35	Zapevalov E.G. RADAR WAVE CONTROL

<i>17:20 – 17:40</i>	Summing up the School Results. Discussion
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Для заметок