

Time schedule AIS-2014

Sunday, 22 June 2014

15.00 Registration, Hotel check-in «Sambia» Hall

20.00 Welcome Party, Restaurant «Sambia»

Monday, 23 June 2014

Plenary session (Large Hall «Sambia»)

10.00-12.50

Chairman A.A.Berlin, A.V.Yurov

10.00-10.30 Welcome and Opening

10.40-11.20 (PL-1) A.A.Namgaladze (Murmansk State Technical University, Russia)

«Investigation of the EQs Precursors in the TEC 2005 variations»

11.20-11.40 Coffee break

11.40-12.20 (PL-2) O.S.Ugolnikov (Space Research Institute, Russian Academy of Sciences, Moscow, Russia)

«Mesosphere: where the Earth faces the Space»

12.20-12.40 (PL-3) A.Pavelyev (Kotelnikov' FIRE RAS, Fryazino, Russia)

«Principle locality, Amplitude and Phase Variations of GPS Radio Occultation Signals and Morphology of Ionospheric Irregularities»

Parallel Session D

(Large Hall «Sambia») 15.00-18.00

Chairman A.A.Namgaladze

15.00-15.20 (D-1) V.V.Klimenko (West Department of Puskov IZMIRAN, RAS, Russia)

«Formation Mechanisms of Longitudinal Variations in *F2* region Ionospheric Electron Density at Different Latitudes during Solstice Period»

15.20-15.40 (D-2) A.A.Namgaladze (Murmansk State Technical University, Russia)

«Comparison of the Upper Atmosphere Model Magnetic Maps with the Empirical IRI Model Results and the TEC GPS data»

15.40-16.00 (D-3) K.G. Ratovsky (Institute of Solar-Terrestrial Physics of Siberian Branch of Russian Academy of Sciences, Russia)

«Estimation of Contribution of Various Sources to Ionospheric Variability»

16.00-16.20 Coffee break

16.20-16.40 (D-4) T.L. Gulyaeva (Institute of Terrestrial Magnetism, Ionosphere and Radio Wave Propagation, Russia)

«Seismic Climatology Trends on the Background of Solar Activity»

16.40-17.00 (D-5) M.V.Klimenko (West Department of Puskov IZMIRAN, RAS, Russia)

«Characteristics of Global Mesospheric, Thermospheric and Ionospheric Response to 2009 major SSW Event as Derived from Satellite and Ground-based Observation and Obtained Using Different Models of Lower and Upper Atmosphere»

17.00-17.20 40 (D-6) I.V.Karpov (West Department of Puskov IZMIRAN, RAS, Russia)

«Model study of the thermosphere response to perturbations mesospheric tides and planetary waves during sudden stratospheric warming»

17.20-17.40 (D-7) K.V. Khodataev (Moscow Radiotechnical Institute RAS, Russia)

«The human activity and climate of Earth»

Parallel Session P

(Small Hall «Sambia») 15.00-18.00

Chairman V.L.Bychkov

15.00-15.20 (P-1) A.I.Klimov (Institute for High Temperature RAS, Russia)

«Stable Heterogeneous Plasmoid in Swirl Flow»

15.20-15.40 (P-2) A.I.Nikitin (Talrose Institute for Energy Problems of Chemical Physics, Russian Academy of Sciences, Russia)

«New Cases of Observation of High Energy Ball Lightning»

15.40-16.00 (P-3) A.I.Nikitin (Talrose Institute for Energy Problems of Chemical Physics, Russian Academy of Sciences, Russia)

«A Photograph of the Unusual Discharge of Lightning»

16.00-16.20 Coffee break

16.20-16.40 (P-4) D.L.Kirko (National Research Nuclear University MEPhI, Russia)

«Luminous Regions under the Capillary Discharge Interaction to Metallic Foils»

16.40-17.00 (P-5) D.L.Kirko (National Research Nuclear University MEPhI, Russia)

«Luminescence in Liquid Nitrogen under the Influence of Impulsive Discharge»

17.00-17.20 (P-6) V.L. Bychkov (M.V. Lomonosov Moscow State University, Russia)

«On Hydrodynamic Analogy of Electromagnetic Waves»

17.20-17.40 (P-7) V.L. Bychkov (M.V. Lomonosov Moscow State University, Russia)

«Ball Lightning with a Case Filled by a Vapor»

17.40-18.00 (P-8) Geert C. Dijkhuis (Convectron NV, Rotterdam, the Netherlands)

«On Ball Lightning Formation by Soliton Waves»

Tuesday, 24 June 2014

Plenary session (Large Hall «Sambia»)

10.00-12.20

Chairman G.V.Golubkov

10.00-10.40 (PL-4) V.V.Denisenko (Institute of Computational Modelling of the Russian Academy of Sciences Siberian Branch, Russia)

«Estimations of Electric Field Penetration from Ground into the Ionosphere»

10.40-11.20 (PL-5) I.V.Karpov (West Department of IZMIRAN, Russia)

«Disturbances in the upper atmosphere and Ionosphere from the sources on the Earth surface»

11.20-11.40 Coffee break

11.40-12.20 (PL-6) V.L. Bychkov (M.V. Lomonosov Moscow State University, Russia)

«Ball Lightning Investigations in 2012-2013»

14.00 Excursion

Wednesday, 25 June 2014

Plenary session (Large Hall «Sambia»)

10.00-12.20

Chairman V.L. Bychkov

10.00-10.40 (PL-7) I.N. Chudnovskaya (Lomonosov Moscow State University, Russia)

«Systems of the keywords identification and informational safety»

10.40-11.20 (PL-8) Sh. Sh. Nabiev (National Research Center “Kurchatov Institute”, Russia)

«Characteristic features of IR spectra of explosives and ICAO taggants in the vapor state»

11.20-11.40 Coffee break

11.40-12.20 (PL-9) E.N.Golubeva (Lomonosov Moscow State University, Russia)

«Quantum-Chemical Calculations of Spectral Parameters as a Way of Molecular Structure Definition»

Parallel Session E

(Large Hall «Sambia») 15.00-17.20

Chairman G.V.Golubkov

15.00-15.20 (E-1) N.V.Sotina (Lomonosov Moscow State University, Russia)

«Trajectory Approach to the Schrödinger Equation, precession of the electron's spin in an atom»

15.20-15.40 (E-2) G.K.Ozerov (Semenov Institute of Chemical Physics, Russia)

«Reaction of associative ionization »

15.40-16.00 (E-3) A. A. Preobrazhenskaya (Chair of Inorganic Chemistry, Department of Chemistry, Moscow State Pedagogical University, Russia)

«Calculation of the lowest ¹S helium resonance using the stabilization method»

16.00-16.20 Coffee break

16.20-16.40 (E-4) E. M. Zubanova (Lomonosov Moscow State University, Russia)

«Mechanisms of Reactions of Copper Complexes with Alkyl Radicals»

16.40-17.00 (E-5) Y.V.Zaika (Orenburg State University, Russia)

«Physic-chemistry properties intermolecular complexes H₃O⁺ - M and H₂O - M and their participation in the atmospheric processes»

Parallel Session D
(Small Hall «Sambia») 15.00-17.20

Chairman A.A.Namgaladze

15.00-15.20 (D-8) D.S. Kotova (Immanuel Kant Baltic Federal University, Russia)

«Development of the Model of HF Radio Wave Propagation in the Ionosphere»

15.20-15.40 (D-9) E.V. Nepomnyashchaya (Pushkov Institute of Terrestrial Magnetism, Ionosphere, and Radio Wave Propagation, Russia)

«The study of F-scatter with DPS-4 ionosonde»

15.40-16.00 (D-10) I.I. Shagimuratov (West Department of Puskov IZMIRAN, RAS, Russia)

«The estimations of ionospheric total electron content by GLONASS measurements»

16.00-16.20 Coffee break

16.20-16.40 (D-11) K. G. Ratovsky (Institute of Solar-Terrestrial Physics of Siberian Branch of Russian Academy of Sciences, Russia)

«Ionosphere Response to Spacecraft Engine Exhaust Jets Effects»

16.40-17.00 (D-12) A.T. Karpachev (Pushkov Institute of Terrestrial Magnetism, Ionosphere and Radio Wave Propagation RAS, Russia)

«Main Ionospheric Trough Model according to the Intercosmos-19 and CHAMP Data»

17.00 Poster session

Large Hall «Sambia»

Thursday, 26 June 2014

Plenary session (Large Hall «Sambia»)

10.00-12.20

Chairman S.M.Frolov

10.00-10.40 (PL-10) S.M.Frolov (Center for Pulsed Detonation Combustion, Semenov Institute of Chemical Physics, Moscow, Russia)

«Applications of Pulsed and Continuous Detonations: In Search for Energy Efficient Solutions»

10.40-11.20 (PL-11) G.V. Golubkov (Semenov institute of chemical physics of Russian academy of sciences, Moscow, Russia)

«Radiochemical Physics of the Upper Earth Atmosphere»

11.20-11.40 Coffee break

11.40-12.20 (PL-12) A.Z.Devdariani (Saint Petersburg State University, Department of Optics and Spectroscopy, Russia)

«Quenching of Rydberg states in slow collisions with neutral atoms and molecules of medium»

14.30 Excursion and Conference Dinner

Friday, 27 June 2014

Parallel Session S

(Large Hall «Sambia») 10.00-12.20

Chairman L.S.Chudnovskiy

10.00-10.20 (S-1) V.T. Polyakov (Department of Telecommunications of the Russian New University, Moscow, Russia)

«Simple method of Doppler ionospheric observations»

10.20-10.40 (S-2) A.L. Chudnovsky (Open Joint-stock Company "Research-and-Production Corporation "Precision System and Instruments", Russia)

**«The impact of a focused gamma pulse on the aircraft
electronic equipment»**

10.40-11.00 (S-3) K.S.Mozgov (Open Joint-stock Company "Research-and-Production Corporation "Precision System and Instruments", Russia)

«Planned Set Of Experiments To Be Performed At International Space Station»

11.00-11.20 Coffee break

11.20-11.40 (S-4) L.S.Chudnovsky (Open Joint-stock Company "Research-and-Production Corporation "Precision System and Instruments", Russia)

«Trace distortion corection»

11.40-12.00 (S-5) V.L.Frolov (Radio Physica Research Institute, Nizhny Novgorod, Russia)

«The fluctuation amplitude variation of navigation signals of GLONNAS space satellites»

12.00-12.20 (S-6) I.N. Chudnovskaya (Moscow State University, Russia)

«Designing a system of recognition of key words»

Parallel Session M

(Small Hall «Sambia») 10.00-12.20

Chairman A.I. Kokorin

10.00-10.20 (M-1) T.P.Kulagina (Institute of Problems of Chemical Physics RAS, Chernogolovka, Moscow region, Russia)

«Supra-molecular Structure and Spin Diffusion of Fluoroplastics Studied by NMR»

10.20-10.40 (M-2) T.E. Grigoriev (National Research Centre "Kurchatov Institute", Moscow, Russia)

«Chitosan nanocomposites with metal ions and nanoparticles»

10.40-11.00 (M-3) A.I. Kokorin (Semenov Institute of Chemical Physics, Russian Academy of Sciences, Moscow, Russia)

«Properties of Nanostructured Metal Oxide Catalysts Studied by Various Physical Methods»

11.00-11.20 Coffee break

11.20-11.40 (M-5) E.I. Grigoriev (Karpov Institute of Physical Chemistry, Moscow, Russia)

«Gas-sensitive Properties of Poly-para-xylylene Based Thin Composite Films Containing Ti and TiO₂ Nanoparticles»

11.40-12.00 (M-6) O.I. Gromov (Lomonosov Moscow State University, Russia)

«Properties of nitroxide biradicals: quantum-chemical calculations and the experiment»

13.00-14.00 Closing the Conference