

**XIV МЕЖДУНАРОДНАЯ КОНФЕРЕНЦИЯ
XIV INTERNATIONAL CONFERENCE**

**КОСМОС И БИОСФЕРА
COSMOS & BIOSPHERE**

**ПРОГРАММА
PROGRAM**

25 - 28 мая, 2021

May 25 - 28, 2021

PROGRAMM

Tuesday - 05/25/2021

10.00 - 11.30 - Registration of participants and connection of conference participants to the online platform.

11.30 - Conference opening. Greetings to the conference participants.

PLENARY SESSION	
<u>Chairpersons:</u> Chuyan E.N., Vladimirsky B.M., Vincenzo Valenzi	
12.00 – 12.20	<i>Vladimirsky B.M.</i> Space weather and “explosions” of the creative efficiency: “axial time” – a glance from XXI century V.I. Vernadsky Crimean Federal University, Republic of Crimea, Simferopol, Russia
12.30 – 11.50	<i>Ragulskaya M., Tekutskaya E.</i> Solar activity global minimum and genogeographic features of the COVID-19 pandemic Solar physic and Solar-Terrestrial Relations Department, Institute of Terrestrial Magnetism and Radio Wave Propagation RAS, Moscow, Russia
13.00 – 13.20	<i>Avakyan S.V., Baranova L.A.</i> The influence of microwave radiation from the geocosmos on the state of a living organism Russian Scientific Center “SI Vavilov State Optical Institute”, St-Petersburg, Russia
13.30 – 13.50	<i>Retejum A.Ju.</i> Revealing the destructive consequences of the human body’s cells ionization by galactic cosmic rays Lomonosov Moscow State University
14.00 – 14.20	COFFEE BREAK
14.30 – 14.50	<i>Scalia M., Pulcini F., Sperini M.</i> Air ions: measures 1998-2019 Department of Bioelectromagnetism CIRPS, Rome, Italy
15.00 – 15.20	<i>Widom A., Swain J., Srivastava Y.N.</i> Extremely Low Frequency Ion Cyclotron Resonances on the Surface Boundaries of Coherent Water Domains Department of Integrative Medicine and Biophysics UNIFEDER, Florence, Italy
15.30 – 15.50	<i>Morozova L.N.</i> A.L. Chizhevsky - a pioneer of space science A.L. Chizhevsky House-Museum, Department of the K.E. Tsiolkovsky State Museum History Cosmonautics, Kaluga, Russia

**XIV МЕЖДУНАРОДНАЯ КОНФЕРЕНЦИЯ «КОСМОС И БИОСФЕРА»
XIV INTERNATIONAL CONFERENCE «COSMOS & BIOSPHERE»**

26.05.2021, Wednesday

Workshop	
Председатели: Samsonov S.N., Scalia M., Plugar E.V., Trofimov A. V.	
WORKSHOP 1. SPACE WEATHER AND BIOLOGICAL PROCESSES	
10.00 – 10.10	<p><u>Mel'nikova Ye.B., Melnikov A.V.</u></p> <p>Solar radiation as a synchronizing factor of circadian and ultradian biological rhythms of planktonic communities</p> <p>Institute of Natural and Technical Systems, Lenin St, 28, 299011 Sevastopol, Russian Federation</p>
10.20 – 10.30	<p><u>Sukharev V.A., Dyadichev V.V., Menyuk S.G.</u></p> <p>Hidden Space Threats and Extraordinary Developments in the Solar System</p> <p>V.I. Vernadsky Crimean Federal University, Republic of Crimea, Simferopol, Russia</p>
10.40 – 10.50	<p><u>Scalia M., Pulcini F., Sperini M.</u></p> <p>Electromagnetic characterization of the environment. An Italian experience and the “mapping” method</p> <p>Department of Bioelectromagnetism CIRPS, Rome, Italy</p>
11.00 – 11.10	<p><u>Scalia M., Doro T., Uhl L., Valenzi V.</u></p> <p>Measuring electro-physiological response to a Tibetan bell as stimulating agent</p> <p>Department of Bioelectromagnetism CIRPS, Rome, Italy</p>
WORKSHOP 2. SPACE WEATHER AND MEDICINE	
11.20 – 11.40	<p><u>Samsonov S., Parshina S.</u></p> <p>Space weather in the 11-year solar cycle and cardio-sensitivity of volunteers in the middle latitudes</p> <p>Institute of Cosmophysical Research and Aeronomy of Siberian Branch of the Russian Academy of Sciences, Yakut Scientific Centre of Siberian Branch of the Russian Academy of Sciences, Yakutsk, Russia</p>
11.50 – 12.00	<p><u>Samsonov S., Parshina S.</u></p> <p>The features of the bio-efficiency of geomagnetic activity on the sub-auroral latitudes in the minimum of the 11-year solar cycle</p> <p>Saratov State Medical University n.a. V.I. Razumovsky of the Ministry of Health of Russia, Saratov, Russia</p>

**XIV МЕЖДУНАРОДНАЯ КОНФЕРЕНЦИЯ «КОСМОС И БИОСФЕРА»
XIV INTERNATIONAL CONFERENCE «COSMOS & BIOSPHERE»**

12.10 – 12.20	<p><u>Melnikova V.M., Sapegin I.D., Beliakova A.G.</u></p> <p>Cerebral vessels reactivity disorders in microgravity and its pharmacological correction with new derivatives of 1,2,4-triazole</p> <p>V.I. Vernadsky Crimean Federal University, Republic of Crimea, Simferopol, Russia</p>
12.30 – 12.40	<p><u>Kodochigova A.I., Samsonov S.N., Polivanov M.A.</u></p> <p>Psychological characteristics of the Heliomed 2 project volunteers and geomagnetic disturbance at high latitudes</p> <p>Saratov State Medical University named after V.I. Razumovsky, Saratov, Russia</p>
12.50 – 13.00	<p><u>Rishtakov S.Ph., Bobrik Yu.V., Rybalko S.Yu.</u></p> <p>The Efficiency of Neurofeedback during Treatment and Rehabilitation of Patients with Anxiety and Depressive Disorders</p> <p>V.I. Vernadsky Crimean Federal University, Republic of Crimea, Simferopol</p>
13.10 – 13.20	<p><u>Stupishina O.M., Golovina E.G., Noskov S.N.</u></p> <p>The relation of the human cardiac-events to the environmental complex variations</p> <p>Physics Department, Saint-Petersburg State University, Saint-Petersburg, Russia</p> <p>Meteorological Faculty of the Department of Meteorology, Climatology and Atmospheric Protection, Russian State Hydrometeorology University, Saint-Petersburg, Russia</p> <p>North-West Public Health Research Center, Saint-Petersburg, Russia</p> <p>North-Western State Medical University named after I.I. Mechnikov, Saint-Petersburg, Russia</p>
13.30 – 14.00	COFFEE BREAK
WORKSHOP 3. SCIENCE, TECHNOLOGIES AND EDUCATION ARE AT SUSTAINABLE NOOSPHERIC DEVELOPMENT'S SERVICE	
14.00 – 14.10	<p><u>Smirnov V.O., Snegur A.V., Filinko Y.V.</u></p> <p>National Research & Education Network of Meteorological Monitoring in the V. I. Vernadsky Crimean Federal University</p> <p>V.I. Vernadsky Crimean Federal University, Republic of Crimea, Simferopol, Russia</p>

XIV МЕЖДУНАРОДНАЯ КОНФЕРЕНЦИЯ «КОСМОС И БИОСФЕРА»
XIV INTERNATIONAL CONFERENCE «COSMOS & BIOSPHERE»

14.20 – 14.30	<p><i>Smirnov V.O., <u>Sergeev M.A.</u>, Emelianova N.S.</i></p> <p>Digitalization for remote monitoring to sustainable development of agrarian areas at V.I. Vernadsky Crimean Federal University</p> <p>V.I. Vernadsky Crimean Federal University, Republic of Crimea, Simferopol, Russia</p>
<p>WORKSHOP 4. ENVIRONMENTAL PROBLEMS OF THE BIOSPHERE AND CIRCUMTERRESTRIAL COSMIC SPACE</p>	
14.40 – 14.50	<p><i>Trofimov A.V.</i></p> <p>Helio-pressing» at natural and technogenic geomagnetic deprivation of human populations into megacities/ questions of modeling and prevention</p> <p><i>International Scientific Research Institute of Cosmoplanetary Anthropoecology Novosibirsk, Russia</i></p>
15.00 – 15.10	<p><i>Pozachenyuk E.A.</i></p> <p>Classification of Dry Land and Ocean's Landscapes</p> <p>V.I. Vernadsky Crimean Federal University, Republic of Crimea, Simferopol, Russia</p>
<p>WORKSHOP 5. ECONOMICAL GROWTH AND SUSTAINABLE SOCAIL DEVELOPMENT</p>	
15.20 – 15.30	<p><i><u>Plugar E.V.</u>, Plugar D.I., Stakhno N.D.</i></p> <p>Space Technologies in Achieving the Aims of the Sustainable Development</p> <p>V.I. Vernadsky Crimean Federal University, Republic of Crimea, Simferopol, Russia</p>
15.40 – 15.50	<p><i><u>Simchenko N.A.</u>, Piskun A.I., Khokhlov V.V.</i></p> <p>Socail Capital and Spatial Development of Sevastopol: Interdependence of the Concepts</p> <p>V.I. Vernadsky Crimean Federal University, Republic of Crimea, Simferopol, Russia</p>

**XIV МЕЖДУНАРОДНАЯ КОНФЕРЕНЦИЯ «КОСМОС И БИОСФЕРА»
XIV INTERNATIONAL CONFERENCE «COSMOS & BIOSPHERE»**

27.05. 2021, Thursday

WORKSHOP 6. BIOLOGICAL EFFECT OF PHYSICAL AND CHEMICAL FACTORS	
Председатели: Chuyan E.N., Tekutskaya E.E., Novikov V.V., Rogacheva S.M., Ravaeva M.Yu.	
10.00 – 10.10	<p><u>Tekutskaya E.E., Ryabova I.S.</u> Active Oxygen Forms, DNA Damages, and Solar-terrestrial Connections</p>
10.20 – 10.30	<p><u>Novikov V.V., Yablokova E.V., Shaev I.A.</u> Decrease of reactive oxygen species (ROS) production by neutrophils after incubation in hypomagnetic conditions Institute of Cell Biophysics, Subdivision of the Pushchino Scientific Center for Biological Studies Federal Research Center, Russian Academy of Sciences, Pushchino, Moscow oblast, Russia</p>
10.40 – 10.50	<p><u>Yashchenko S.G., Sarchuk E.V., Pilunskaya O.A.</u> The influence of multi-way sources of illumination of monitor screens and changes in the color temperature on the excretion of melatonin metabolite V.I. Vernadsky Crimean Federal University. Simferopol. 4 Vernadsky Avenue. Russian Federation</p>
11.00 – 11.10	<p><u>Latanov A.V., Shamsiev I.D., Tereshenko L.V.</u> A nonhuman primate model of early effects of irradiation with high-energy protons on operator activity School of Biology, Lomonosov Moscow State University, Moscow, Russia Institute for Higher Nervous Activity and Neurophysiology of Russian Academy of Sciences, Moscow, Russia</p>
11.20 – 11.30	<p><u>Rybalko S.Yu., Bobrik Yu.V., Korepanov A.L.</u> The Influence of WiFi Range Electromagnetic Radiation on the Parameters of the Human's Heart Rate Variability. V.I. Vernadsky Crimean Federal University, Republic of Crimea, Simferopol, Russia</p>
11.40 – 11.50	<p><u>Fedianin A.O., Baltina T.V., Ereemeev A.A.</u> The functional state of the neuromotor system during hypogravity in a rat. Support load effects Kazan federal university, Russia, Kazan</p>
12.00 – 12.20	COFFEE BREAK

**XIV МЕЖДУНАРОДНАЯ КОНФЕРЕНЦИЯ «КОСМОС И БИОСФЕРА»
XIV INTERNATIONAL CONFERENCE «COSMOS & BIOSPHERE»**

12.20 – 12.30	<p><i>Mironyuk I.S., Chuyan E.N. and Cheretaev I.V.</i></p> <p>Acetylsalicylic acid and its complex compounds with metals: mechanisms of skin microhemodynamic changes</p> <p>V.I. Vernadsky Crimean Federal University, Republic of Crimea, Simferopol, Russia</p>
12.40 – 12.50	<p><i>Mironyuk I.S., Makalish T.P., Aliev M.A.</i></p> <p>The Influence of Acetylsalicylic Acid and Its Complex Compounds with Metals on the Morphometric Characteristics of the Stomach's Mucous Coat</p> <p>V.I. Vernadsky Crimean Federal University, Republic of Crimea, Simferopol, Russia</p>
13.00 – 13.10	<p><i>Pridatko A.I., Mironyuk I.S., Chuyan E.N.</i></p> <p>Dose Dependent Cardiotropic Effect of Magnesium and Lithium Salicylates</p> <p>V.I. Vernadsky Crimean Federal University, Republic of Crimea, Simferopol, Russia</p>
13.20 – 13.30	<p><i>Khusainov D.R., Korenyuk I.I., Abyakimov V.L.</i></p> <p>Frequency-amplitude characteristics of the total biopotentials of the hippocampal CA3 zone under the influence of acetylsalicylic and salicylic acids</p> <p>V.I. Vernadsky Crimean Federal University, Republic of Crimea, Simferopol, Russia</p>
13.40 – 13.50	<p><i>Dzheldubaeva E.R., Chuyan E.N., Tribat N.S.</i></p> <p>Change of electromyographic parameters in rats after injection of acetyl salicylic acid and its complex compounds with metals</p> <p>V.I. Vernadsky Crimean Federal University, Republic of Crimea, Simferopol, Russia</p>
14.00 – 14.10	<p><i>Kolotilova O.I., Korenyuk I.I., Yarmolyuk N.S.</i></p> <p>Isolated viagra solution application effects on the electrical activity in Helix neurons</p> <p>V.I. Vernadsky Crimean Federal University, Republic of Crimea, Simferopol, Russia</p>
14.20 – 14.30	<p><i>Birukova E.A., Khusainov D.R., Burtseva Ye.V.</i></p> <p>Biochemical markers of qualified oriented people's fatigue on the background of taking a functional sport drink "Aluston"</p> <p>V.I. Vernadsky Crimean Federal University, Republic of Crimea, Simferopol, Russia</p>

**XIV МЕЖДУНАРОДНАЯ КОНФЕРЕНЦИЯ «КОСМОС И БИОСФЕРА»
XIV INTERNATIONAL CONFERENCE «COSMOS & BIOSPHERE»**

14.40 – 14.50	<p><i>Pogodina S.V., Epishkin I.V., Maltsev V.A.</i></p> <p>Age-related features of the nonspecific immunological resistance of the body of young swimmers with different metabolic fatigue factors</p> <p>V.I. Vernadsky Crimean Federal University, Republic of Crimea, Simferopol, Russia</p>
15.00 – 15.10	<p><i>Orekhova L.S., Mikhailova A.A., Makhin S.A.</i></p> <p>Reactivity of the EEG sensorimotor rhythms in early childhood when observing pro- and antisocial actions</p> <p>V.I. Vernadsky Crimean Federal University, Republic of Crimea, Simferopol, Russia</p>
15.20 – 15.30	<p><i>Nacharova M.A., Petrenko A.D., Yagenich L.V.</i></p> <p>EEG alpha rhythm reactivity during words perception in typically healthy children and children with receptive speech disorder</p> <p>V.I. Vernadsky Crimean Federal University, Republic of Crimea, Simferopol, Russia</p>

28.05.2021, Friday

<p>WORKSHOP 6. BIOLOGICAL EFFECT OF PHYSICAL AND CHEMICAL FACTORS (continuation)</p> <p><u>Председатели:</u> Chuyan E.N., Tekutskaya E. E., Novikov V. V., Rogacheva S. M., Ravaeva M. Yu.</p>	
10.00 – 10.10	<p><i>Ravaeva M.Yu., Chuyan E.N., Chornobay S.Ye.</i></p> <p>The Influence of the Low-intensity Electromagnetic Radiation of mm-range on the Ulcerogenic Damages, Induced by Chronic Hypokinetic Stress</p> <p>V.I. Vernadsky Crimean Federal University, Republic of Crimea, Simferopol, Russia</p>
10.20 – 10.30	<p><i>Ravaeva M.Yu., Cheretaev I.V., Galenko-Yaroshevsky P.A.</i></p> <p>Role of Catecholamines, Melatonin and Nitric Oxide in the Mechanisms of Stress Damage to the Body</p> <p>V.I. Vernadsky Crimean Federal University, Republic of Crimea, Simferopol, Russia</p> <p>Kuban State Medical University, Krasnodar, Russian Federation</p> <p>Belgorod State National Research University, Belgorod, Russian Federation</p>

**XIV МЕЖДУНАРОДНАЯ КОНФЕРЕНЦИЯ «КОСМОС И БИОСФЕРА»
XIV INTERNATIONAL CONFERENCE «COSMOS & BIOSPHERE»**

10.40 – 10.50	<p><u>Ravaeva M.Yu., Cheretaev I.V., Galenko-Yaroshevsky P.A.</u> Protein, lipid and carbohydrate-energy metabolism indices in rats under acute and chronic hypokinetic stress and their combinations V.I. Vernadsky Crimean Federal University, Republic of Crimea, Simferopol, Russia Kuban State Medical University, Krasnodar, Russian Federation Belgorod State National Research University, Belgorod, Russian Federation</p>
11.00 – 11.10	<p><u>Tribrat N.S., Dzheldubaeva E.R., Khusainov D.R.</u> Changes of the arteries vertebrabasilar pool hemodynamics under the influence of low intensity millimeter radiation V.I. Vernadsky Crimean Federal University, Republic of Crimea, Simferopol, Russia</p>
11.20 – 11.30	<p><u>Chmeleva S. I., Dzheldubaeva E.R., Tumanyants K.N.</u> Adaptogenic Effect of Low-Intensity Millimeter-Wave Electromagnetic Radiation on Glycine max L. under Osmotic Stress V.I. Vernadsky Crimean Federal University, Republic of Crimea, Simferopol, Russia</p>
11.40 – 11.50	<p><u>Chmeleva S.I., Dzheldubaeva E.R., Tumanyants K.N.</u> Influence of low-intensity electromagnetic radiation of the millimeter range on the antioxidant system of Juvenile Glycine max L. plants under osmotic stress V.I. Vernadsky Crimean Federal University, Republic of Crimea, Simferopol, Russia</p>
12.00 – 12.10	<p><u>Rogacheva S.M. Otradnova M.I. and Zhutov A.S.</u> The cell response to the effect of heliogeophysical factors and extremely high frequency radiation of low intensity Department of Ecology and Technosphere Safety, Yuri Gagarin State Technical University of Saratov, 77 Politekhnicheskaya St., Saratov, Russia Saratov Medical University “REAVIZ”, ul. Verkhniy Rynok, 10, Saratov, Russia</p>
12.20 – 12.30	<p><u>Tumanyants K.N., Yarmolyuk N.S., Tumanyants E.N.</u> Influence of ferromagnetic shielding on changes in the nociceptive sensitivity of snails and mice V.I. Vernadsky Crimean Federal University, Republic of Crimea, Simferopol, Russia Rehabilitation Center, Candidate of Medical Sciences, Head doctor</p>

**XIV МЕЖДУНАРОДНАЯ КОНФЕРЕНЦИЯ «КОСМОС И БИОСФЕРА»
XIV INTERNATIONAL CONFERENCE «COSMOS & BIOSPHERE»**

12.40 – 13.00	COFFE BREAK
13.00	SUMMERIZING THE CONFERENCE. THE DISCUSSION OF THE RESULTS Announcement of the Jacques Benveniste Award for the best papers at XIV International Conference “Space and Biosphere”