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SPACE'2011
International Seminar
**“ADVANCED DEVICES, MATERIALS AND RESEARCH METHODS
FOR SPACE APPLICATION”**
5-7 October 2011
Prague, Czech Republic

PROGRAM OF THE SEMINAR

WEDNESDAY, 5 October 2011

“SENSORS AND INSTRUMENTS FOR SPACE APPLICATIONS”

8:00 -9:00	Registration of participants
9:00 -9:30	Seminar Opening
9:30 -9:50	<i>Tatiana Ryzhova</i> ISTC: 17 YEARS OF ASSISTANCE IN SPACE TECHNOLOGIES PROGRESS (ISTC, Moscow, Russia)
9:50 -10:10	<i>Stanislav Gunar</i> ASPIICS CORONAGRAPH ONBOARD PROBA-3 MISSION OF ESA (AsÚ AV ČR, Ondřejov, Czech republic)
10:10 -10:30	<i>Alexander Nebylov</i> SOFTWARE PACKAGE FOR SIMULATION AND DESIGN OF COMPLEX FLEXIBLE SPACE VEHICLES (SUAI, Saint-Petersburg, Russia)
10:30 -11:00	Coffee Break
11:00 -11:20	<i>Alexander Nebylov</i> ANALYSIS OF THE CONCEPT AND PROSPECTS FOR DEVELOPING A NETWORK OF MICRO- AND NANO- SATELLITES FOR RESEARCH AND COMMERCIAL APPLICATIONS (SUAI, Saint-Petersburg, Russia)
11:20 -11:40	<i>Josef Blažej</i> SINGLE PHOTON LASER ALTIMETER AND LIDAR IN SPACE MISSIONS (Tech. University, Prague Czech republic)
11:40 -12:00	<i>Vojtěch Michalek</i> TIME-TO-DIGIT CONVERTER BASED ON RADIATION-TOLERANT FPGA (VZLU, Prague Czech republic)
12:00 – 12:20	<i>Alexander Grigoryev</i> SOLUTION OF THE PROBLEM OF RECOGNITION CELESTIAL SKY IN ASTRONAVIGATION (SUAI, Saint-Petersburg, Russia)
12:20-12:40	<i>Petr Posolda</i> TOWARDS THREE-AXES OPTICALLY PUMPED MAGNETOMETER (VZLU, Prague Czech republic)
12:40 – 13:00	<i>Vladimir Perluk</i> EXPERIENCE IN DEVELOPING ON-BOARD SYSTEMS OF MICROSATELLITES IN THE FRAMEWORK OF INTERNATIONAL SCIENTIFIC AND EDUCATIONAL PROGRAMS (SUAI, Saint-Petersburg, Russia)
13:00 – 14:00	Lunch

14:00 – 14:20	<i>Vladimir Perluk</i> INSTRUMENTS AND METHODS FOR CONTROL A LEAKAGE AND LOW CONSUMPTION OF FUEL ON BOARD A MICRO-SATELLITE (SUAI, Saint-Petersburg, Russia)
14:20 – 14:40	<i>Vladimir Fetisov</i> METHODS OF SPACE FLIGHT CYCLOGRAM STABILITY ENSURING (SUAI, Saint-Petersburg, Russia)
14:40 – 15:00	<i>Josef Zakucia</i> WORST CASE ANALYSIS OF AN ACCELEROMETER MEASURING LOOP (VZLU, Prague Czech republic)
15:00 – 15:20	<i>Sergei Avakyan</i> SPACE SOLAR PATROL DATA AND THE GLOBAL CHANGES (All-Russian Sci. Cent. "Vavilov State Optical Inst.", Saint-Petersburg, Russia)
15:20 – 15:40	<i>Jan Douša</i> GNSS OBSERVATIONS AND PRODUCTS FOR PRECISE EARTH MONITORING (Geodetic Observatory Pecný, Research Institute of Geodesy, Topography and Cartography , Zdiby, Czech Republic)
15:40 -16:00	<i>Viacheslav Raspopov</i> MICROMECHANICAL GYROS IN NANOSATELLITES (Tula State University, Tula, Russia)
16:00 -16:30	Coffee Break
16:30 – 16:50	<i>Mikhail Levskii</i> TIME-OPTIMAL CONTROL OF A MOTION FOR A SPACECRAFT WITH INERTIAL EXECUTIVE DEVICES (Research Institute of Space systems, Moscow, Russia)
16:50-17:10	<i>Anton Lastochkin</i> INTELLIGENT TRAINING SYSTEM FOR ADVANCED SPACECRAFT PILOT (SUAI, Saint-Petersburg, Russia)
17:10 – 17:30	<i>Viktor Fedosov</i> MEASUREMENT OF RESIDUAL QUASI-STEADY ACCELERATIONS ON BOARD OF THE LEO SPACECRAFT (VZLU, Prague Czech republic)
17:30 -17:50	<i>Yury Maydanik</i> LOOP HEAT PIPES – HIGH EFFICIENT HEAT-TRANSFER DEVICES FOR SPACECRAFTS THERMAL CONTROL SYSTEMS (Institute of Thermal Physics, Ural Branch of the RAS, Yekaterinburg, Russia)
19:00 -22:00	Welcome Reception (Hotel “Duo”)

THURSDAY, 6 October 2011

“ADVANCED MATERIALS FOR SPACE APPLICATIONS”

9:00 – 9:20	<i>Nikolay Myagkov</i> PROPERTIES OF EJECTA GENERATED AT HIGH-VELOCITY PERFORATION OF THIN BUMPERS MADE FROM DIFFERENT CONSTRUCTIONAL MATERIALS (Institute of Applied Mechanics of RAS, Moscow, Russia)
9:20 – 9:40	<i>Alexander Dolgoborodov</i> ATTENUATION OF SHOCK WAVES IN DIFFERENT MATERIALS (ICP of RAS, Moscow, Russia)
9:40 -10:00	<i>Eva Stranková</i> LF TECHNOLOGY – SMART METHOD FOR COMPOSITE PARTS PRODUCTION (5M, Kunovice, Czech Republic)
10:00 -10:20	<i>Vilém Pompe</i> CALCULATION OF TEMPERATURE FIELDS OF VIBRATING COMPOSITE PART (VZLU, Prague Czech republic)
10:20 -10:50	Coffee Break
10:50 – 11:10	<i>Igor Assovsky</i> NANOSTRUCTURED AEROGELS: PRODUCTION BY METAL COMBUSTION, AND MORPHOLOGY (ICP of RAS, Moscow, Russia)
11:10 – 11:30	<i>Yury Nikitaev</i> HETEROGENEOUS FOTOSENSITIZERS BASED ON METALS’ OXIDES AND ORGANIC DYES FOR PHOTODYNAMIC TREATMENT OF WATER (ICP of RAS, Moscow, Russia)
11:30 -11:50	<i>Petr Bělský</i> FRICTION STIR WELDING OF AEROSPACE STRUCTURES (VZLU, Prague Czech republic)

11:50 -12:10	<i>Valerij Makarov</i> THE FATIGUE TEST EFFECTIVENESS IMPROVEMENT USING NDT METHODS COMBINATION (VZLU, Prague Czech republic)
12:10 -12:30	<i>Svetlana Orlovskaya</i> STUDY OF N-OCTADECANE AND N-DOCOSANE DROPLETS COMBUSTION (Odessa National I.I. Mechnikov's University, Odessa, Ukraine)
12:30 -13:00	<i>Nikolay Kopyt</i> OBTAINING AND RESEARCH OF VARYBAND STRUCTURES BASED ON COMPOSITE MATERIALS FOR PHOTSENSORS <i>Nikolay Kopyt</i> FORMATION OF RUTILE NANOPARTICLES FROM THE CONDENSED DISPERSE PHASE AT A SURFACE OF HIGH-TEMPERATURE PARTICLES OF THE TITANIUM (Odessa National I.I. Mechnikov's University, Odessa, Ukraine)
13:00 -14:00	Lunch
14:00 -14:30	Seminar Closing

FRIDAY, 7 October 2011

SEMINAR ORGANIZING COMMITTEE MEETING