



10 February 2022

09.00 – 10.00 **Welcome Coffee**

10.00 – 11.30 **Plenary Session. The needs of the digital economy in geospatial information**

Speakers: top-managers of Rosreestr (The Federal Service For State Registration, Cadastre And Cartography), Roscartography JSC, Ministry of Defense, Ministry of Digital Development leading scientific and educational institution

11.45 - 13.45 **Session 1. Aerial Photography and Laser Scanning**

- Technology News
- Operational Monitoring and Geodata Integration for Decision Making
- LiDAR Technologies
- Thermal Imaging
- Remote Sensing for Environmental Monitoring
- Integration of Aerial Photography and Laser Scanning Data
- Specific Features of Different Sensor Data
- 3D Modeling on the Base of LiDAR Data

13.45 - 14.45 **Lunch**

14.45 - 16.30 **Section 2. Space Imagery and Satellite Monitoring**

- ERS Systems: Current Status and Future Development Perspectives
- On-line services for access to ERS data
- ERS and Aerial Photography Data for Forest Inventory and Agricultural Applications

16.45 – 18.00 **Секция 3. Спутниковые навигационные и геодезические системы**

- Специальные геодезические сети
- Спутниковые дифференциальные сервисы
- Контроль автомобильных и железнодорожных перевозок
- Автоматизированные системы в с/х
- Навигация для беспилотного транспорта

16.45 - 18.00 **Session 3. Satellite Navigation and Geodesic Systems**

- Satellite Differential Services
- Control of Road and Railway Transportation
- Automated Systems in Agriculture
- Navigation for Unmanned Vehicles

18.30 - 01.00 **Anniversary Buffet**



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10.00 - 11.45 Section 4. Unmanned Aerial Vehicles for Mapping and Monitoring

- Aircraft or UAV - Advantages and Disadvantages
- Different Sensors for UAVs
- UAVs for operational monitoring

12.00 - 13.45 Session 5. Geospatial data processing, BIM, GIS

- Cloud Services as Datastorages
- Geoservices for Business and Government
- Research and Information Platforms to address the industry-specific challenges
- GIS for Decision Making
- BIM - the Prospects of Use, the Legal Framework
- Data visualization

13.45 - 14.45 Lunch

14.45 - 16.30 Session 6. Applications for new engineering surveying techniques in different industries

- Cartography and Urban Planning
- 3D modeling for Territory Management System
- On-the-Spot Mapping for Disaster Management
- Automated systems in Agriculture
- Land Surveying and Inventory

16.45 - 18.00 Session 7. Geodesy and Mine Survey: Equipment, Software, Technologies

- Legislative and Regulative Base of Mine Survey
- Capturing of geodata for Design and Reconstruction of FEC Facilities in AutoCAD, MicroStation, etc.
- Inspection of the Technical Condition of Engineering Facilities
- Restoration of Project Documentation on the Base of Laser Scanning Data
- Environmental condition monitoring of the territories in the areas of mining, processing, transportation of minerals
- Geophysical Methods for Mineral Prospecting and Exploration;

Master classes

18.30 - 01.00 Closing Address in an Informal Setting