Training of specialists in Russian Space Systems as a groundwork of development and use of GLONASS in the interests of customers in different countries

Krasnoyarsk, 18 – 22 May 2015
"Joint use of Russian satellite system GLONASS in diverse fields: transportations, safety and security, agriculture turns to be much promising".

(BRICS Summit, Fortalesa, Brazil, 15 July 2014)

State Plan of qualified personnel training (having secondary professional and higher education) for industrial and defence organizations 2016-2020 is adopted by Russian Government (Resolution #192, 5 March 2015). Based on demands of Roscosmos, Trade Ministry, Rosatom.

The future of GNSS use are highly qualified professionals and… information!
Specialists training in Russian Space Systems and integrated structures: organization chart

RUSSIAN SPACE SYSTEMS

SCIENTIFIC AND TRAINING CENTER

DEPARTMENT OF CORPORATE TRAINING

TRAINING DEPARTMENT

Integrated ENTERPRISES

United Rocket and Space Corporation
(62 enterprises)

+ GNSS informing and popularization activities
### Profile subfaculties

- **Aerospace and geographic information systems and information technology; Electronic-computing devices and informatics**
- **Information technology rocket telemetry**
- **Physical and mathematical methods of designing complex technical systems of space technologies**
- **Space industry**
- **Space and aviation industry**
Cooperation with universities
<table>
<thead>
<tr>
<th>Speciality</th>
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<tr>
<td><strong>Radio engineering, including systems and TV devices</strong></td>
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<tr>
<td><strong>Radiolocation and radio navigation</strong></td>
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<td><strong>System analysis, management and information processing</strong></td>
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<tr>
<td>(on branches: engineering science, physics and mathematics)</td>
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<tr>
<td><strong>Solid-state electronics, radio-electronic components, micro- and nano-electronics, devices based on quantum effects</strong></td>
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<tr>
<td><strong>Aerospace research of the Earth, photogrammetry</strong></td>
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Corporate Learning department: training specialists of other corporation organizations and other agencies

- Personnel recruitment
- Methodological materials, reference manuals
- E-learning
- Trainings and seminars
- Testing
International School on Satellite Navigation
GNSS popularisation and the advanced training course

- Navigation signals
- Accuracy characteristics of user equipment
- The integrated use of satellite navigation and remote sensing in various areas (transport, fleet monitoring structures, surveying)
- Metrology, cartography
- Features of the satellite technologies market, practical solving of technical and organizational problems

Since 2011:
- 176 students from Russia, Kazakhstan, Moldova

Students of various fields of work are welcome! Course in English is possible!

www.gnss-school.com
Russia-ASEAN Workshop “Practical use of GLONASS/ GPS satellite navigation technologies”

Objectives:
Providing services based on GLONASS for customers of Southeast Asia, establishment of mutually beneficial cooperation.

8 – 9 April 2015:
19 representatives of Cambodia, Indonesia, Thailand, Vietnam, Laos, Malaysia, Brunei, Philippines, Myanmar

Programme in brief:
- State and perspectives of GNSS and augmentation systems;
- Use of GNSS for positioning, car and fleet navigation and monitoring, the state of the Earth's crust, engineering structures, geodesy, mining, environmental protection;
- Practical training: performing a navigation tasks with modern precise equipment, processing of satellite data.
Conclusion

The system of specialists training in "Russian Space Systems" is aimed at ensuring the quality and reliability of ground and space equipment of GLONASS system.

In the frame of international cooperation, "Russian Space Systems" working actively to inform customers about the fields of GLONASS technologies use.

It is offered to recommend interested universities, information and education centers and other educational organizations to participate in international information events held by Russian Federation, such as International School on Satellite Navigation and Workshop “Practical use of GLONASS/GPS satellite navigation technologies”
Thank you for your time!

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