United Nations/Belarus Workshop on Space Technology Applications for Socio-Economic Benefits

11 – 15, November, 2013
Minsk, Belarus

Belarusian State University
Belarus

Belarus
Minsk, a panoramic view

Minsk, avenue Pobeditelej
Minsk, the Trinity suburb

Minsk, the Orthodox church and the Catholic cathedral
Belarusian State University

The leading educational center in Belarus.
Founded on
October 30, 1921
Facilities

- More than 100 buildings
- 3 major campuses
- 11 dormitories
- 70 computer laboratories
- 4 media classrooms
- University Network Resources
- Fundamental library
- 3 sport-complexes and a swimming-pool

BSU Quality Management System is certificated according to the requirements of STB ISO – 9001
BSU Today

- 24 faculties and educational institutions
- lyceum
- college
- 3 scientific-experimental stations
- 3 museums
- 4 research institutes
- 41 research laboratories
- 9 scientific centuries
- 11 unitary enterprises

BSU Staff

<p>| | |</p>
<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Total</td>
<td>8900</td>
</tr>
<tr>
<td>Teaching staff</td>
<td>3100</td>
</tr>
<tr>
<td>Scientific manpower and research engineers</td>
<td>1900</td>
</tr>
<tr>
<td>Doctors of Science</td>
<td>420</td>
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<tr>
<td>Candidates of Science (Ph. D.)</td>
<td>1700</td>
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Training of MA applicants and high-skilled staff in 2012/2013 academic year

Specialties
- In Magistrate – 65
- In Post-graduate – 120
- In Doctorate – 112

- MA students – 810 including foreigners – 160
- Post-graduates – 890 including foreigners – 70 from 15 countries
- Doctorate applicants – 20

Rating of the Belarusian State University

- According to the last edition of the rating of excellence («Webometrics Ranking of World Universities») BSU reached 595 place among the world best universities.
- Rating has covered 20745 universities of the world.
- The final score of the university is calculated as weight average of four indicators, on which BSU has next positions:
  - Impact – 1765,
  - Presence – 348,
  - Openness – 49,
  - Excellence – 1305.
The Belarusian State University, studying buildings

Dormitories

№1  №2  №3
№4  №5  №6
№7  №8  №9
№10  №11
The Belarusian State University, the Physics Department

The Belarusian State University, the Geography Department
BSU is a member of Association of European Universities, Eurasian Association of Universities. BSU is a University-Coordinator of University’s Network of Central-European Initiative.

International cooperation

BSU has cooperation agreements with more than 300 Universities all over the world.
Participation of BSU in USSR, Russia and international space programs

Mir project (USSR)

Venera project (USSR)

Buran-Energiya project (USSR)

International Space Station

Space Remote Sensing Systems, 1988 (Mir)

Photospectral system «ФСС», 2000 – today (ISS)

Board video-photometric system «VFS-3M», 2000 - 2002 (ISS)
Spectrometers and spectroradiometers (today)

Spectrometer PVS-02

Spectroradiometer PSR-02

BSU Aerospace Educational Center website

www.aec.bsu.by
Aerospace training courses, seminars, conferences

“Global navigation satellite system”

Creators University satellite Tatiana-2 (Russia) and members of seminar “Small satellites”

“Education and Space” (IV Belarusian Space Congress)

L-band range for remote sensing satellites
Ground station for L-band data reception from university and remote sensing satellites (processing data)

- Control of acquisition
- Decoding information
- Visualisation and preliminary processing
- FengYun-1D image, CHRPT format
- AVHRR image from NOAA-19

The space vehicle simulator

- ARM920T 400/533 MHz
- 16 Kb cash
- tire speed 133 МГц
- NAND flash till 1Gb
- DDR SDRAM 256 Mb
- expected 4 Krad

Orbicom communication modem
Picosatellite «BelSat»

Team of schoolboys from Lyceum of BSU and students – 2-nd prize and a cup for “The best research experiments”. May, 4 2012, Kaluga. The First Championship “CanSat in Russia”.

Model of University nanosatellite

Developed by 3 students of the 4 year
Wellcome to the Belarusian State University!

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