

**Agenda of the GIS in Central Asia Conference – GISCA 2015
"Geospatial Management of Land, Water and Resources"**

May 14-16, 2015

Tashkent Institute of Irrigation and Melioration
Tashkent, Uzbekistan

MAY 14, Thursday, Welcome Event	
18:00-20:00	Registration of conference participants Icebreaker - Welcome event for all registered delegates Venue: Tashkent Institute of Irrigation and Melioration (TIIM)
MAY 15, FRIDAY, PLENARY SESSION	
Conference Hall of TIIM, Chaired by Prof. Uktam Umurzakov	
08:00	Registration of conference participants Exhibition Starts
09:00	Welcome Addresses - Prof. Mukhammadkhon Hamidov – Rector of TIIM - His Excellency Yuri Sterk , EU Ambassador to the Republic of Uzbekistan - Dr. Tulkin Abdullaev , First Deputy Chairman of Uzlandgeodezcadastre - Dr. Shavkat Khamraev , Deputy Minister for Agriculture and Water Management - Dr. Inom Madjidov , Head of main department for higher education institutions of Ministry of Higher and Secondary Specialized Education
09:50	Status and perspectives of National GIS in Uzbekistan – Mr. Khasan Magdiev , <i>Chief Engineer, National Geodesy and Cartography Center, Uzbekistan</i>
10:00	TEMPUS GE-UZ supporting sustainable development in Uzbekistan – Prof. Bela Markus , <i>GEUZ Coordinator, University of West Hungary</i> and Mr. Odil Akbarov , <i>GEUZ National Coordinator, TIIM</i>
10:20	10 th Anniversary of GISCA – Prof. Josef Strobl , <i>Head of department, University of Salzburg</i> and Dr. Akylbek Chymyrov , <i>ACA*GIScience</i>
10:30	Keynote speaker – Dr. Michael Gould , <i>Global Education Manager, ESRI</i> GIS education to create the next generation of decision-makers
11:00	Photo Session and Coffee break
11:20	Keynote speaker – Mr. Yury Sakovich , <i>Business Development Manager, Trimble</i> Technology Trends, Applications and Benefits of Geospatial Data
11:40	Keynote speaker – Dr. Chen Xi , <i>Director General, Xinjiang Institute of Ecology and Geography, CAS</i> Land Cover and Land Use Change in Central Asia in the past 20 years
12:00	Lunch break
13:00 Parallel Sessions	
19:00	Conference Dinner

PARALLEL SESSIONS - MAY 15, FRIDAY

Session 15-1: GIS for Environmental Management 1	Session 15-2: GIS for Water Management 1	Session 15-3: GIS for Land Management 1
<p><i>Date:</i> Friday, 15 May 13:00 – 14:40 <i>Venue:</i> IRC Conference Hall <i>Chair:</i> Dr. Christoph Schröder <i>Rapporteur:</i> Mr. Davron Abdullaev</p>	<p><i>Date:</i> Friday, 15 May 13:00 – 14:40 <i>Venue:</i> IRC Discussions Hall <i>Chair:</i> Dr. Manfred Mittlböck <i>Rapporteur:</i> Mr. Habibullo Pirmatov</p>	<p><i>Date:</i> Friday, 15 May 13:00 – 14:40 <i>Venue:</i> Lecture hall 4 <i>Chair:</i> Dr. Huaan Fan <i>Rapporteur:</i> Ms. Madina Bekchanova</p>
<p>Florian Betz and Alishir Kurban. GIS for environmental management along the Central Asian rivers Tarim and Naryn.</p> <p>Mamanbek Reimov. et al. Geoinformatic view for ecosystem services: spatially balanced policies for natural reserves inside agro-landscape</p> <p>Sabitova N.I. et al. GIS in creation of landscape map and placement of monitoring stations for pollution monitoring in border regions in Uzbekistan</p> <p>Adil Yakubov. Assessment of evapotranspiration on agricultural land by S-SEBI algorithm in Tashkent Province, Uzbekistan</p>	<p>Galina Frolova and Natalia Ershova. Research of Morfometric Characteristic for Sustainable Water Management in the Kugart River Basin</p> <p>Asset Yegizbayeva. Identification of suitable sites for water harvesting structures</p> <p>Li Junli, Bao Anming and Chen Xi. Mapping Seasonal Variations of Alpine Lakes in Central Asia during 1990-2013</p> <p>Barbara Strobl. Mountain stream runoff changes due to glacier retreat</p>	<p>Alexander Samborsky and Igor Popiv. Developing a Concept of Integrated Information System for Real Property Registration and Cadastre for Uzbekistan</p> <p>Junyi Huang, Shuhong Peng and Qiming Zhou. Establishing Geographic and Landscape Database by Field Verification of RS Image Interpretation Result in Central Asia</p> <p>Mohamed Bualhamam. Design and Development of an Enterprise GIS for local Government</p> <p>Babajanov A. Planning GIS - projects in Uzbekistan</p>
<p>14:40 – 15:00 Coffee Break + Poster Session</p>		
Session 15-4: GIS for Environmental Management 2	Session 15-5: GIS for Water Management 2	Session 15-6: GIS for Land Management 2
<p><i>Date:</i> Friday, 15 May 15:00 – 16:40 <i>Venue:</i> IRC Conference Hall <i>Chair:</i> Dr. Fakhar Khalid <i>Rapporteur:</i> Ms. Silvia Taupert</p>	<p><i>Date:</i> Friday, 15 May 15:00 – 16:40 <i>Venue:</i> IRC Discussions Hall <i>Chair:</i> Mr. Ahmad Hamidov <i>Rapporteur:</i> Mr. Asliddin Bobocholov</p>	<p><i>Date:</i> Friday, 15 May 15:00 – 16:40 <i>Venue:</i> Lecture hall 4 <i>Chair:</i> Dr. Allabergan Babajanov <i>Rapporteur:</i> Mr. Otabek Avezbaev</p>
<p>Abdulla Abliz et al. Investigating spatial relationships between urban surface temperature and landscape composition using remote sensing and geographical weighted regression</p> <p>Shavkat Prenov and Eshkabul Safarov. Geographic information systems (GIS) in ecology</p> <p>Elbek Erdanaev. Climate and Land Use Change Impact on Land Degradation using GIS and Remote Sensing Techniques in Tashkent Province.</p> <p>Alishir Kurban. Spatiotemporal Dynamics of Small Lakes and its ecological effects in Lower Reaches of Tarim River in Northwest China</p>	<p>Lukmon Samiev and Azamat Ahmedov. The making erosion data of water flow on the main canals: A study on the use of GIS</p> <p>A. Tikhonovskaya et al. The methods of selection possible dam formation in the valley of river Aksu-West (basin river Kashkadarya) via using GIS-technologies</p> <p>Chembarisov E.I., Nasrulin A.B. and Lesnik T.Y. Application of GIS technology in melioration research</p> <p>Ilkhom Musaev. Planning Farms using Arc GIS program in Altikul District, Andijan Province, Uzbekistan</p>	<p>Alokhon Vorisov and Yelena Golovko. GIS-oriented multilayer integrated digital maps of solid mineral deposits- as a new trend in land resources management</p> <p>Abdugheni Abliz et al. Spatial variation of soil heavy metal contents of in an arid and vulnerable coal mining region of Northwest China</p> <p>Ziyo Okhunov. Cartography, geodesy providing conducting the state cadasters</p> <p>B.Nurtaev and Oksana Tsay. 3D complex geological and geophysical model of Almalyk ore district</p>



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MAY 16, SATURDAY, PLENARY SESSION	
Conference Hall of TIIM, Chaired by Dr. Alim Pulatov	
09:00	<i>Keynote speaker – Prof. Gernot Paulus.</i> Carinthia University of Applied Sciences (Austria) Opportunities and Challenges of Unmanned Aerial Vehicles (UAV) for Geospatial Sciences
09:30	Dr. Alim Pulatov. Joint GIS education and research between EU and Uzbekistan universities.
09:50	Ms. Barbara Brunner-Maresch and Ms. Regina Hatheier-Stampfl. Enhancing Central Asian Geoinformatic qualifications based on mobility and study periods at European Universities
10:10	Coffee Break
10:30	Parallel Sessions
12:10	Lunch Break
13:10	Parallel Sessions
14:30	Coffee Break
15:00	Conference Reporting
17:00	End of conference proceedings.



PARALLEL SESSIONS - MAY 16, SATURDAY

Session 16-1: GIS for Hazard & Disaster Management	Session 16-2: Remote Sensing Applications 1	Session 16-3: Cartography & GIS Applications
<p><i>Date:</i> Saturday, 16 May 10:30 – 12:10 <i>Venue:</i> IRC Conference Hall <i>Chair:</i> Dr. Michael Gould <i>Rapporteur:</i> Ms. Barbara Strobl</p>	<p><i>Date:</i> Saturday, 16 May 10:30 – 12:10 <i>Venue:</i> IRC Discussions Hall <i>Chair:</i> Ms. Jasmina Gerts <i>Rapporteur:</i> Ms. Guzal Abduraupova</p>	<p><i>Date:</i> Saturday, 16 May 10:30 – 12:10 <i>Venue:</i> Lecture hall 4 <i>Chair:</i> Dr. Akylbek Chymyrov <i>Rapporteur:</i> Mr. Habibullo Pirmatov</p>
<p>Darya Golovko et al. Multi-Temporal Remote Sensing and GIS Methods for Improved Landslide Hazard Mapping in Southern Kyrgyzstan</p> <p>Mukhiddin Juliev, Johannes Hubl and Alim Pulatov. Assessment of natural hazards in mountain areas with remote sensing in Uzbekistan</p> <p>Dietrich Schröder. Automated Geoprocessing Workflow for Watershed Delineation and Classification for Flash Flood Assessment</p> <p>Abdurashit Nizamiev. Application of multi- risk assessment approach and GIS for comprehensive evaluation of educational facilities: a case study in the Chong-Alay district, Kyrgyz Republic</p> <p>Joachim Boenisch and Davlatbek Davlatov. A watershed - based approach to integrated disaster risk management and mapping</p>	<p>E. Semakova and I. Ibragimov. Some results of the interferometric TanDEM-X data processing for a generation of the Digital Elevation Models for Tien-Shan mountains</p> <p>Aziz Inamov, Zohid Musurmonqulov and Z. Mamatkulov Creating 3D (Three - dimensional) modeling of cultural heritage objects by using modern methods</p> <p>Marzhan Kabiyeva. Bathymetric measurements of Lake Shortandy, Burabay National Nature Park</p> <p>Dr. Alim Pulatov et al. Assessment of soil salinity by Remote Sensing tools in Syrdarya province of Uzbekistan</p> <p>Muzaffar Matchanov et al. Land cover classification and land cover change assessment of Khorezm oasis, Uzbekistan, using Landsat images</p>	<p>Andrea Pódör. Usability study on different visualization methods of crime maps GIS</p> <p>Saule Damekova. Electronic educational atlases on Geography for schools of Kazakhstan</p> <p>Ruziev Azizjon. Analysis of legal-technical documentation regulating production of large-scale topographic surveys.</p> <p>Ergasheva N.O., MSc, Kamilov S., MSc. Creation of Geochemical Atlas through the implementation of GIS technologies</p> <p>Maxim Alexandrov. Innovative automatized opportunities and solutions of Geomatica 2015 software</p>
<p>12:10 – 13:10 Lunch Break</p>		
Session 16-4: New Trends and Technologies	Session 16-5: Remote Sensing Applications 2	Session 16-6: Development of SDIs
<p><i>Date:</i> Saturday, 16 May 13:10 – 14:30 <i>Venue:</i> IRC Conference Hall <i>Chair:</i> Dr. Bela Markus <i>Rapporteur:</i> Ms. Regina Hatheier-Stampfl</p>	<p><i>Date:</i> Saturday, 16 May 13:10 – 14:30 <i>Venue:</i> IRC Discussions Hall <i>Chair:</i> Dr. Fakhar Khalid <i>Rapporteur:</i> Mr. György Molnár</p>	<p><i>Date:</i> Saturday, 16 May 13:10 – 14:30 <i>Venue:</i> Lecture hall 4 <i>Chair:</i> Dr. Alim Pulatov <i>Rapporteur:</i> Mr. Adil Yakubov</p>
<p>Akylbek Chymyrov. Precise point positioning (PPP) services in Kyrgyzstan</p> <p>Evgenii Shibkov. Participatory GIS as a method to collect spatial data and generate knowledge about local resources perceptions</p> <p>Kurbanov Odil. Applied GIS: Using Open source Web GIS for serving public safety in Central Asia</p> <p>Huaan Fan and Akylbek Chymyrov. Coordinate transformation between SK-63 and ITRF systems in Kyrgyzstan</p>	<p>Buhalqem Mantimin. Soil moisture and temperature derived from Landsat Images using Remote Sensing and GIS techniques</p> <p>Alim Pulatov and Jasmina Gerts. Monitoring forest cover change using Landsat data for Tashkent province, Uzbekistan</p> <p>Maxim Alexandrov. Modern spacecraft: remote sensing in research and applied problems.</p> <p>Discussion on the future of Remote Sensing chaired by Dr. Fakhar Khalid.</p>	<p>Manfred Mittlböck et al. Integrating geospatial services into interactive and user centered web applications</p> <p>Khasan Magdiev. SDI in Uzbekistan</p> <p>Sh.Kodirov, A.Bregt and A. Pulatov. Assessment of actual status of SDI use to support the land and water management in Uzbekistan</p> <p>Bobomurad Makh sudov, Haekyong Kang, I Abdurakhmanova . NSDI sharing knowledge for Central Sian countries: South Korean Experience.</p>

14:30 – 14:50 Coffee break

15:00	Conclusion to GISCA 2015
15:00	Christoph Traun and Sherzod Rakhmonov. GE-UZ Summer School - Monitoring, analyzing and simulating environmental processes
15:15	Milan Horemuz. GE-UZ Summer School - Laser scanning of historical monuments
15:30	All Chairs reporting from the parallel sessions
16:30	Award ceremony
16:40	Rector's speech
16:50	Closing remarks
17:00	End of conference proceedings

Poster presentations – (15th May 14:40 & 16th May 10:10 during Coffee break)

Poster 1.	Tempus GEUZ project “Geoinformatics: enabling sustainable development in Uzbekistan”
Poster 2.	eEnvironmental services for advanced applications within INSPIRE
Poster 3.	Zafar Abdullaev. Main ways of software development of processing data for the evaluation cost of land plots
Poster 4.	Aizhan Assylbekova and Zabira Rakhymbay. Navigating the City: OSM-based tourist maps and apps
Poster 5.	Akjol Djenaliev and Akylbek Chymyrov. Open source tools for building inventory data development and analysis
Poster 6.	A. Mukumov and Z. Khafizova. Application of Geoinformation systems for management of land resources of the country
Poster 7.	Buazhar Kochkonbaeva. Use of GIS technology in the sphere of fire service
Poster 8.	D. Djurakulov, D. Yarmatova and M. Khusanova. The Methods of Development for Control of Topographic and Geodetic Work in Cadaster
Poster 9.	Dilbar Yarmatova, Isomiddin Bobobekov, Nurali Umarov, Dilfuza Normatova. Development of Land Cadaster in Populated Rural Areas and Using the System of GIS
Poster 10.	Khulermaa Kuular. Application of Remote Sensing data to assess of the Ujuk Mountain range changes
Poster 11.	Bolotbek Zhorobekov et al. Elevator pump for water supply in rural areas