



International Conference GEOS 2008

Programme

Wednesday, 27th February:

10:00 a.m. opening
Ing. Milan Talich, Ph.D.

10:15 a.m. – 11:15 a.m. block of lectures: **BASIC GEODETIC CONTROL NOT ONLY FOR NAVIGATION SYSTEMS AND SERVICES BASED ON LOCATION**
chairman: prof. Ing. Pavel Novák, Ph.D.

- *Gerd Rosenthal, Anette Blaser*, Office of the International EUPOS Steering Committee, Senate Department of Urban Development of Berlin, Germany, *Ing. Jaroslav Šimek*, Research Institute of Geodesy, Topography and Cartography (VÚGTK), Geodetic Observatory Pecný: **EUPOS – Regional GNSS Positioning Infrastructure for Central and Eastern Europe – Status 2007/2008**
- *Marcin Ryczywolski, Artur Oruba, Marcin Leończyk*, The Head Office of Geodesy and Cartography, ASG-EUPOS National Management Center, Poland: **The Precise Satellite Positioning System ASG-EUPOS**
- *Gunars Silabriedis, S. Plotnikov*, Riga GeoMetrics SIA, *Prof. Dr. Janis Balodis, E. Zelinska*, University of Latvia, Riga: **The EUPOS-Riga Application for Mapping Control**
- *Dipl. Ing. Margareta Premužić, Marijan Marjanović, Dipl. Ing. Martina Kekić, B. Slevka, M. Bosiljevac*, State Geodetic Administration, Zagreb, Croatia: **CROPOS (Croatian Positioning System)**

11:15 a.m. - 11:30 a.m. coffee break

11:30 a.m. - 12:30 a.m. block of lectures: **BASIC GEODETIC CONTROL AND GEODETIC WORK CZEPOS**
chairman: prof. Ing. Pavel Novák, Ph.D.

- *Ing. Jan Řezníček, Ph.D.*, Czech Office of Surveying, Cartography and Cadastre (ČÚZK): **CZEPOS – Present State**
- *Ing. Vratislav Filler, Ph.D.*, Research Institute of Geodesy, Topography and Cartography (VÚGTK), Geodetic Observatory Pecný: **Test of Stability GNSS Sites on Czech Republic Area by Local Analysis Centre GO Pecny**
- *Ing. Miluše Vilímková*, Czech Office of Surveying, Cartography and Cadastre (ČÚZK): **Analysis of the Time Series of Coordinates of the CZEPOS**
- *Ing. Jaroslav Nágl*, Czech Office of Surveying, Cartography and Cadastre (ČÚZK): **Experience with Troposphere Modelling by APOS and CZEPOS Networks**

12:30 a.m. - 1:45 p.m. lunch break

1:45 p.m. - 2:45 p.m. block of lectures: **BASIC GEODETIC CONTROL AND GEODETIC WORK**
chairman: prof. Ing. Jan Kostelecký, DrSc.

- *Ing. Dušan Ferianc, Ing. Elena Šalátová*, Geodetic and Cartographic Institute Bratislava: **Geodetic Control of Slovakia in Year 2008**
- *Prof. Dr.-Ing. Gerd Boedecker*, Bavarian Academy of Sciences and Humanities, München, Germany: **On Gravity Standardisation and the Unified European Gravity Reference Network UEGN02**
- *Ing. Martin Kadlec, prof. Ing. Pavel Novák, Ph.D.*, Research Institute of Geodesy, Topography and Cartography, Westbohemian University at Plzeň, Faculty of Applied Sciences: **Comparison of Different Methods for Evaluation of Terrain Corrections for the Area of Central Europe**
- *Valerio Baiocchi., Paola Capaldo, Mattia Crespi*, Sapienza Università di Roma, Area Geodesia e Geomatica, *Marco Mezzapesa*, Libero professionista, Roma, *Grazia Pietrantonio, Ph.D.*, Istituto Nazionale di Geofisica e Vulcanologia, Roma: **Calibration of Geoid Models in Colli Albani Area (Rome, Italy)**

2:45 p.m. - 3:00 p.m. coffee break

3:00 p.m. - 4:00 p.m. block of lectures: **NAVIGATION SYSTEMS AND SERVICES BASED ON LOCATION**
chairman: prof. Ing. Jan Kostelecký, DrSc.

- *prof. Ing. Miloš Cimbálník, DrSc.*, Faculty of Civil Engineering of the Czech Technical University, Department of Advanced Geodesy: **Co-ordinate Systems on the Czech Republic Territory**
- *RNDr. Pavel Vaniš*, Research Institute of Geodesy, Topography and Cartography (VÚGTK), *Ing. Pavel Tesář*, Czech Technical University, Faculty of Civil Engineering: **Web Service of VÚGTK for transformation between WGS-84 a S-JTSK**
- *Ing. Pavel Taraba*, Czech Office of Surveying, Cartography and Cadastre (ČÚZK): **Current Possibilities of Land Survey in Networks of GNSS Permanent Stations in the Czech Republic**
- *Prof. Dr.-Ing. Reiner Jäger, Dipl.-Ing. Simone Kälber*, University of Applied Sciences, Faculty of Geomatics, Karlsruhe, Germany: **The New RTCM 3.1 Transformation Messages – Declaration, Generation from Reference Transformations and Implementation as a Server-Client-Concept for GNSS Services**

4:00 p.m. - 4:15 p.m. coffee break

4:15 p.m. - 5:45 p.m. block of lectures: **GEOINFORMATION AND GIS, CARTOGRAPHY AND MAP CREATION**
chairman: prof. Ing. Pavel Novák, Ph.D.

- *Ing. Milan Kocáb, MBA, Ing. Milan Talich, Ph.D.*, Research Institute of Geodesy, Topography and Cartography (VÚGTK): **Web Applications for Surveyors**
- *Prof. Hui Lin, Dr. Jun Zhu, Bingli Xu*, The Chinese University of Hong Kong, Institute of Space and Earth Information Science: **A Study on the Particle System Method for Dynamic Modelling in Virtual Geographic Environments (VGE)**
- *Ljerka Rašić, Siniša Hofer, Ivana Šimat*, State Geodetic Administration, Zagreb, Croatia: **Reflection of New Geodetic Datum and Map Projection Introduction on Orthophoto Production Process**
- *Ing. Lucie Stavařová*, Technical University of Ostrava, Faculty of Mining and Geology, The Institute of Geodesy and Mine Surveying, Czech Republic: **The Creation of the Interactive 3D Visualization of the Elected Area**
- *Dr. V. Gershenzon, Elena Ash*, RDC ScanEx, Moscow, Russia: **ScanEx R&D Center Projects**

6:30 p.m. **proclamation of the prizes and social evening party**

Thursday, 28th February:

9:00 a.m. - 10:15 a.m. block of lectures: **OUR PROFESSION IN EUROPE WITHOUT BARRIERS I**
chairman: Ing. Milan Talich, Ph.D.

- *Henning Elmstroem*, President of The European Council of Geodetic Surveyors (CLGE), Denmark: **Challenges ahead for the European Surveyor**
- *Doc. Ing. Jiří Šíma, CSc.*, Westbohemian University at Plzeň, Faculty of Applied Sciences: **Surveying, Mapping and Cadastre in the Czech Republic at the Beginning of 21st Century**
- *Ing. Vladimír Stromček*, President of the Board of Geodesists and Cartographers of the Slovak Republic: **Slovak Surveyors Contacts with Europe**

10:15 a.m. - 10:30 a.m. coffee break

10:30 a.m. - 11:30 a.m. block of lectures: **OUR PROFESSION IN EUROPE WITHOUT BARRIERS II**
chairman: Ing. Milan Talich, Ph.D.

- *Alain Gaudet*, Honorary President of the OGE, President of Geometer Europas, *Michel Patrick Lagoutte*, President of the Paris region of the OGE, *Rafic Khouri*, secretary general of Geometer Europas, France: **Developments in the Professional Practice of French Licensed Surveyors, and their Impact on Educational Standards**
- *MSc. Václav Slaboch, PhD.*, the ex-vice-president of the CLGE for Professional Education: **Does the Professional Qualification of the Public Appointed Surveyors in Czechia Satisfies the Requirements of the European Professional Organisations**
- *Ing. Zdeněk Fišer, doc. RNDr. Miloslav Švec, CSc., Ing. Petr Kalvoda, Ing. Jiří Vondrák, Ph.D.*, Brno University of Technology, Faculty of Civil Engineering, Institute of Geodesy: **Education of Real Estate Cadastre and Mapping in Brno**
- *Ing. Tomáš Cajthaml*, Research Institute of Geodesy, Topography and Cartography (VÚGTK): **Quality Assurance Platform in National Mapping and Cadastral Agencies**

11:30 a.m. - 11:45 a.m. coffee break

11:45 a.m. - 0:45 p.m. block of lectures: **OUR PROFESSION IN EUROPE WITHOUT BARRIERS III**
chairman: Ing. Vladimíra Žufanová, Ph.D.

- *Emmanuel Ouranos*, Hellenic Mapping and Cadastral Organization, director general, Dipl. Surveying Engineer, Msc Regional Development, CLGE delegate, representative of HARSE, Greece: **Prevention and Management of Physical Disasters and the Surveyor's Involvement**
- *Ing. Pavla Tryhubová*, Research Institute of Geodesy, Topography and Cartography (VÚGTK): **Analysis of Inspire Directive Impacts on Information Contents of Zabaged**
- *Doc. RNDr. Eva Mičietová, Ph.D., Ing. Juraj Vališ, Ph.D.*, Comenius University in Bratislava, Faculty of Natural Sciences, Department of Cartography, Geoinformatics and Remote Sensing, Slovakia: **Distribution of Geographic Information in Relation to Inspire – Current Condition in the Slovak Republic**
- *Prof. univ. dr. ing. Mat. Gheorghe M.T. Radulescu, Dr. Sc., ing. Adrian T.G. Radulescu*, North University Baia Mare, Faculty of Natural Resources, Department of Surveying, Romania: **Upon a National Concept of GIS as Basis of the Strategy for Integration in the Euro-Atlantic Structures, the Case Study of the Baia Mare Municipality**

0:45 p.m. - 2:00 p.m. lunch break

2:00 p.m. - 3:00 p.m. block of lectures: **CADASTRE OF REAL ESTATE I**
chairman: doc. Ing. Jiří Šíma, CSc.

- *Dr. Eng. Gabriel Bădescu*, North University Baia Mare, Faculty of Mineral Resources and Environment, Romania: **RTK (Real-Time Kinematics) – GPS Technology with Data Transmission through UHF Radio Waves, Used in Cadastre**
- *Ing. Vít Suchánek, MSc.*, Czech Office of Surveying, Cartography and Cadastre (ČÚZK): **Cadastre of Real Estates of the Czech Republic**
- *Ing. Jiří Poláček, CSc.*, Czech Office of Surveying, Cartography and Cadastre (ČÚZK): **Services and Products of the Information System of Cadastre of Real Estates**
- *Anna Ilieva, Yordanka Mizova*, the Municipality of Pazardzhik, Bulgaria: **Cadastral Map of the City of Pazardzhik**

3:00 p.m. - 3:15 p.m. coffee break

3:15 p.m. - 4:15 p.m. block of lectures: **CADASTRE OF REAL ESTATE II, PHOTOGRAMMETRY AND REMOTE SENSING**
chairman: doc. Ing. Jiří Šíma, CSc.

- *Ing. Jana Zaoralová*, Research Institute of Geodesy, Topography and Cartography (VÚGTK): **Land Adaptation Processing in New Exchange Format**
- *Luis Miguel Cotrim Mateus*, Technical University of Lisbon, Faculty of Architecture, Portugal: **Evaluating a Low Cost Photogrammetry Method with 3D Laserscanning**
- *Ing. Jan Řezníček*, Czech Technical University in Prague, Laboratory of Photogrammetry: **Triangulation and Smoothing of Terrestrial Laserscanner Dataset by Using Method of Point Projection from 3D to 2D (plane)**
- *Dr. Ing. Lubomír Soukup*, Research Institute of Geodesy, Topography and Cartography (VÚGTK), Academy of Sciences of the Czech Republic, Institute of Information Theory and Automation: **Matching by Ground Control Lines**

4:15 p.m. end of the conference programme
Ing. Milan Talich, Ph.D.

LIST OF POSTERS

- *Dr. Eng. Gabriel Bădescu*, North University Baia Mare, Faculty of Mineral Resources and Environment, Romania: **Comparative Study Concerning the Transformation of Coordinates Determined Using GNSS Technology into the Stereo 70 Projection System**
- *Hassen Abdellaoui, director of Production; Mahdi Haddad*, National Institute of Cartography and Remote Sensing, Alger, Algeria: **Algerian Permanet GPS Network: Comparison of Results Obtained by the Bernese 5.0 Software in Interactive and Automatic Mode**
- *Ing. Jindřich Hodač, Ph.D.*, Faculty of Civil Engineering of the Czech Technical University, Department of Mapping and Cartography: **Photogrammetric Documentation of Historical Sites - Simple Methods**
- *Prof. univ. dr. ing. mat. Gheorghe M.T. Radulescu, Dr. Sc., ing. Adrian T. G. Radulescu, ing. Ovidiu Stefan, Dr.Sc.*, North University Baia Mare, Faculty of Natural Resources, Department of Surveying, Romania: **As Means to Assure Structure Safety – Dynamic Surveying**
- *Ing. Petr Skála*, Czech University of Life Sciences, Faculty of Environment: **How Recognise a Good Geodetical Office**
- *Ing. Pavel Tesař*, Faculty of Civil Engineering of the Czech Technical University, Department of Advanced Geodesy: **NTRIP – Using of IP Multicasting**
- *Ing. Lenka Vlčková*, Technical University of Ostrava, Faculty of Mining and Geology, The Institute of Geodesy and Mine Surveying, Czech Republic: **Optimalization of Horizont in Observatory and Planetarium of Johann Palisa in Ostrava**
- *Ing. Jaroslava Kraftová*, chief executive, board of directors GIS-STAVINVEX a.s., Petřvald, Czech Republic: **Trend, Value and Development of Engineering Geodesy**



Organizer of the conference



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