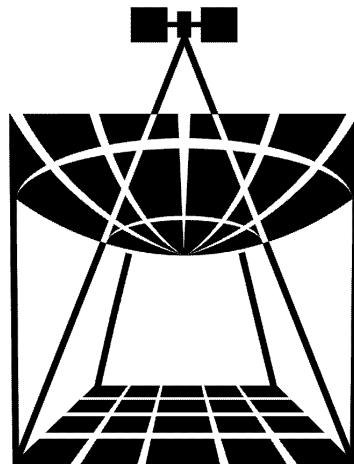


**Institute of Geodesy, Faculty of Civil Engineering
Brno University of Technology, Czech Republic**

**Institute of Geodesy and GeoInformatics,
Wrocław University of Environmental and Life Sciences, Poland**



4th Czech–Polish Symposium Brno–Wrocław

**“ACTUAL PROBLEMS OF GEODESY,
CARTOGRAPHY AND PHOTOGRAMMETRY”**

PROGRAMME

Circular 2

**Lądek-Zdrój, Poland
15–17 May, 2014**

Institute of Geodesy, Faculty of Civil Engineering
Brno University of Technology, Czech Republic

Institute of Geodesy and Geoinformatics,
Wrocław University of Environmental and Life Sciences, Poland

Scietific Committee

doc. Ing. Dalibor Bartoněk, CSc.

doc. Ing. Vlastimil Hanzl, CSc.

doc. RNDr. Lubomil Pospíšil, CSc.

prof. Ing. Otakar Švábenský, CSc.

doc. RNDr. Miloslav Švec, CSc.

prof. Ing. Viliam Vatrt, DrSc.

doc. Ing. Josef Weigel, CSc.

prof. dr hab. inż. Andrzej Borkowski

prof. dr hab. inż. Jarosław Bosy

prof. dr hab. inż. Stefan Cacoń

dr hab. inż. Halina Klimczak, prof. nadzw.

prof. dr hab. inż. Bernard Kontny

prof. dr hab. inż. Edward Osada

dr hab. inż. Kazimierz Bęcek

dr hab. inż. Kazimierz Ćmielewski

Organizing Committee

prof. dr hab. inż. Andrzej Borkowski (PL Chairman)

dr inż. Mirosław Kaczałek

mgr Wojciech Dach

mgr inż. Mieczysław Łyskawa

mgr inż. Stanisław Rogowski

doc. Ing. Josef Weigel, CSc. (CZ Chairman)

Ing. Jiří Bureš, Ph.D.

RNDr. Ladislav Plánka, CSc.

Ing. Radim Kratochvíl, Ph.D.

Ing. Radovan Machotka, Ph.D.

Věra Žmolová

PROGRAMME

Thursday, 15.05.2014

12⁰⁰ – 14⁰⁰ Reception, coffee

13⁰⁰ – 14⁰⁰ Lunch

14⁰⁰ – 14¹⁰ Opening seminar **(Andrzej Borkowski, Josef Weigel)**

14¹⁰ – 15⁵⁰ I. Session **(Chairmen: Andrzej Borkowski, Josef Weigel)**

Stefan Cacoń, Josef Weigel: *Twenty years of cooperation between the Institute of Geodesy – Wrocław University of Environmental and Life Science and the Brno University of Technology*

Lubomil Pospíšil, Otakar Švábenský, Josef Weigel: *GPS networks, geophysics and remote sensing – tools for more detail common cooperation*

Josef Weigel, Radim Kratochvíl: *Activities of Institute of Geodesy Brno University of Technology in Moravian Karst*

Olgierd Jamroz, Janusz Badura, Monika Łój, Sławomir Porzucek: *Wilkanów framework fault based on geophysical data, Sudety Mts., SW Poland*

Radovan Machotka, Richard Kratochvíl: *MAAS-1 – modern measuring system for determination of astrogeodetic vertical deflections*

15⁵⁰ – 16¹⁰ Coffe break

16¹⁰ – 17²⁵ II. Session **(Chairmen: Stefan Cacoń, Otakar Švábenský)**

Josef Jurčík: *ALTNET – creation of homogenous set of altimetry data for long-term analysis*

Tomasz Hadaś: *In house developed software for GNSS PPP real-time positioning – GNSS-WARP*

Radim Kratochvíl, Kateřina Brátová, Tereza Hynčicová: *Geometrical and temporal characteristics determination of device for antenna calibration*

Paweł Hordyniec, Witold Rohm: *Comparison of radiosonde and GPS-RO profiles over Poland*

17²⁵ – 17⁴⁰ Coffe break

17⁴⁰ – 19¹⁵ III. Session **(Chairmen: Bernard Kontny, Dalibor Bartoněk)**

Vlastimil Kratochvíl: *Transformation of plane coordinates based on a regular grid of identical points on the territory of the Czech Republic*

Wojciech Sowa: *An attempt to identify the movements of selected Polish tectonic structures on the basis of velocities of ASG-EUPOS permanent stations*

Dalibor Bartoněk, Jiří Bureš, Irena Opatřilová: *Processing of enormous amounts of geographical data*

Viliam Vatrt, Josef Jurčík: *Vertical shift of the Kronstadt Height Datum to global vertical reference frame in central part of Europe (Czech Republic, Poland)*

Kazimierz Ćmielewski, Janusz Kuchmister, Piotr Gołuch: *Contactless geodetic measurements of elongated engineering objects by using laser beams*

19³⁰ Gala dinner

Friday, 16.05.2014

08⁰⁰ – 09⁰⁰ Breakfast

09⁰⁰ – 10³⁵ IV. Session **(Chairmen: Andrzej Klimczak, Lubomil Pospíšil)**

Otakar Švábenský: *TPS and GNSS monitoring of interaction between railway track and bridge construction*

Izabela Anna Wilczyńska, Kazimierz Ćmielewski: *Modern measurement techniques in safety issues of the construction elements*

Jiří Bureš, Otakar Švábenský, Marek Kalina: *Conclusions from long-term monitoring of large span roof timber construction*

Krzysztof Mąkolski, Janusz Kuchmister, Kazimierz Ćmielewski, Piotr Gołuch: *A determination of subsidence of buildings belonged to the Wrocław University of Environmental and Life Sciences*

Jiří Bureš, Otakar Švábenský, Alexej Vitula, Zdeněk Fišer, Michal Vojkůvka: *Geodetic monitoring for the diagnostics of a historical railway bridge*

10³⁵ – 10⁵⁵ Coffe break

10⁵⁵ – 12⁵⁰ V. Session (Chairmen: Kazimierz Ćmielewski, Vlastimil Kratochvíl)

Małgorzata Jarząbek-Rychard: *3D building modeling using roof topology graphs*

Dalibor Bartoněk: *Algorithm for finding a Hamiltonian Path in graph*

Marcin Ziaja, Andrzej Borkowski: *Accuracy analysis on 3D building models reconstructed from co-registered terrestrial and airborne laser scanning point clouds*

Małgorzata Mendela, Andrzej Borkowski: *Comparison of alpha shape and draw polygons algorithms for delineation of water bodies in airborne laser scanning point clouds*

Przemysław Tymków, Mateusz Karpina, Edyta Hadaś, Małgorzata Jarząbek-Rychard, Andrzej Borkowski, Anna Bogoliubova: *3D spatial database supplying in aspect of CityGML standard*

Edyta Hadaś: *Acquisition of digital water surface model from ISOK flood hazard maps*

13⁰⁰ – 14⁰⁰ Lunch

14⁰⁰ – 15¹⁵ VI. Session (Chairmen: Jarosław Bosy, Miloslav Švec)

Marek Trojanowicz, Krzysztof Gawron, Edward Osada: *Accuracy of gravity data prediction and its effect on the accuracy of local quasigeoid modelling – case study for the area of Poland*

Adam Michalski, Wiwiana Szalińska, Tamara Tokarczyk: *The effect of digital elevation model source on hydrological applications*

Michał Kuruc, Radovan Machotka, Tomáš Volařík: *Evaluation of quasigeoid model created by GNSS/levelling method*

Stanislava Dermeková, Dalibor Bartoněk: *Integrated support for complex decision making in relation to the price-setting factors*

15¹⁵ – 15³⁵ Coffe break

15³⁵ – 17¹⁰ VII. Session (Chairmen: Przemysław Tymków, Vlastimil Hanzl)

Katarzyna Kopańczyk, Magdalena Fitryk: *The potential of remotely-sensed data for supplying chosen layers of zoological map – the study case in Sudety Mountains*

Jiří Ježek: *Cycle path GIS of Moravian wine trails*

Marek Strzelecki, Adam Iwaniak: *Spatial feature characteristics extraction for ontology creation process*

Jaromar Łukowicz, Adam Iwaniak: *Identification of events and processes in linked open data generated from SDI resources*

Grzegorz Mianowski, Adam Iwaniak: *Towards automatic urban landscape character assessment using geotagged images*

17¹⁰ – 18³⁰ Trimble UAV system presentation / Technical session Lądek-Zdrój

18³⁰ – 19⁰⁰ Dinner

19⁰⁰ Bonfire

Saturday, 17.05.2014

08⁰⁰ – 09⁰⁰	Breakfast
09³⁰ – 13⁰⁰	Technical session in Kletno: – Exploring of former uranium mine adits – Exploring of geodetic monitoring system in Niedźwiedzia Cave
13⁰⁰	Closing the Seminar

Hints for presenters:

Your talk should be limited to 15 minutes. An additional, up to 5 minutes, should be left for discussion.

Field Session:

The Niedźwiedzia Cave and dissused uranium mine – temperature +8°C.
Please wear warm clothes.

Accommodation:

Ośrodek Rekreacyjno-Wypoczynkowy "MELAFIR"
ul. L. Zamenhofa 4
57-540 Łądek Zdrój

tel. +48 74 814 62 74
mobile: +48 731 231 322

<http://melafir.biz.pl/>