



## 15<sup>th</sup> INTERNATIONAL CONFERENCE ON GROUND PENETRATING RADAR (GPR 2014)

NGUYỄN VĂN GIẢNG

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*Viện Vật lý Địa cầu, Viện Hàn lâm Khoa học và Công nghệ Việt Nam*

Brussels, Belgium, from June 30 to July 4, 2014

### Welcome to GPR 2014!

Dear Colleagues,

It is our great pleasure to invite you to the 15<sup>th</sup> International Conference on Ground Penetrating Radar (GPR 2014), which will be held in Brussels, Belgium, from June 30 to July 4, 2014. The International Conference on Ground Penetrating Radar is a longstanding traditional event making the premier forum of research and applications in the field of GPR. GPR 2014, the 15<sup>th</sup> in the series that has been held biannually since 1986, will bring together high-standard scientists, engineers, industrial delegates and end-users working in all GPR areas, ranging from fundamental electromagnetics to the so various fields of application. Topics covered include novel developments of GPR systems and antennas, advanced data processing algorithms for improved subsurface imaging, radar data modeling approaches and inversion strategies for quantitative reconstruction of soil and material properties, and finally, data interpretation in a range of fields, including geology and sedimentology, glaciology, environmental and agricultural engineering (e.g., hydrological monitoring, digital soil mapping, forestry), civil and military engineering (e.g., utility detection, monitoring of transport infrastructures, nondestructive testing, landmine detection), archeology and cultural heritage, and planetary exploration, among others.

The GPR 2014 venue is located at the Square Brussels Meeting Centre in Brussels, situated at a few steps from the Grand Place. The Grand Place is considered as one of the most beautiful places of the world and is registered on the World Heritage List of the UNESCO. Brussels has a rich history, from ancient medieval buildings to strikingly modern edifices, and serves as capital of the European Union, hosting major institutions such as the European Commission and the European Parliament. A walk through Brussels will take you through a dense architectural wealth, cosmopolitan culture and lively nightlife. Gastronomy plays a significant part in Belgian culture, with its delicious, work-of-art, chocolates and beers, among many other pleasures.

Topics include, but are not limited to: Radar systems and antenna design: novel time and frequency domain radars, surface and borehole radars, antenna design, antenna arrays, multi-offset systems, polarimetric radars, holographic radars, airborne systems.

Radar data processing and analysis: numerical modeling, finite difference time domain (FDTD) methods, Finite Element Methods (FEM), Method of Moments (MoM), full-wave modeling, effective modeling approaches, antenna modeling, inverse problems, tomography, electromagnetic characterization, improved imaging, migration, holography, data fusion with other geophysical

data, time-lapse analyses, human media interaction, 2D/3D visualization.

Geotechnical applications: pipe detection, water leak detection, road and pavement inspection, railways, concrete evaluation, nondestructive testing, tunneling, mining.

Security applications: UXO and landmine detection, human detection .

Geological applications: Geology, sedimentology, glaciology, permafrost, planetary exploration.

Environment and agriculture: hydrology, hydrogeophysics, remote sensing, digital soil mapping, soil characterization, soil moisture mapping, soil contamination.

Archeology: Archeology, cultural heritage, diagnostic of historical buildings.

**Important deadlines:**

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Expression of interest (1500-character abstract): ( <a href="#">Abstract Submission Form</a> )	November 1st, 2013
Submission of full-length papers (camera-ready format): (4-6 pages)	February 1st, 2014
Notification of acceptance:	March 15th, 2014
Submission of final camera-ready papers:	April 15th, 2014

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