

## EAGE - European Association of Geoscientists and Engineers

EAGE is a professional association for geoscientists and engineers. Founded in 1951, it is an organization with a worldwide membership providing a global network of commercial and academic professionals. The association is truly multi-disciplinary and international in form and pursuits. All members of EAGE are professionally involved in (or studying) geophysics, petroleum exploration, geology, reservoir engineering, mining and civil engineering. The EAGE operates two divisions: the Oil & Gas Geoscience Division and the Near Surface Geoscience Division.

EAGE organizes the following activities for its members: Events (conferences, exhibitions, and workshops), Publications (journals, books), Educational Programmes (short courses, lectures) and Student Programmes Recruitment.

EAGE's Head Office is located in the Netherlands with Regional Offices in Moscow, Dubai and Kuala Lumpur.

### Associated Societies

In the past years EAGE introduced the Associated Society Membership. Through this membership local and national geoscientific societies are given the opportunity to use the knowledge and network of an international, professional society like EAGE.

**Current President** (June 2010 - May 2011): **Davide Calcagni**

Head office Visiting address:

EAGE, De Molen 42, 3994 DBHOUTEN, The Netherlands

Tel.: +31 88 995 5055\*, Fax: +31 30 6343524, [eage@eage.org](mailto:eage@eage.org)



Barcelona 2008: Visit of the EAGE Board in the CAAG stand. From the left: two members of the EAGE, Zsuzsanna Hegybíró (Membership and Cooperation Officer, EAGE), Zdeněk Kaláb (president of the CAAG), Mahmoud Abdulbaqi (EAGE outgoing president), and Davide Calcagni (EAGE president).

# EGRSE



*International Journal of Exploration Geophysics, Remote Sensing and Environment*



**XVII.2**  
2010  
**CZECH REPUBLIC**  
(CD-ROM) ISSN 1803-1447



---

## EXPLORATION GEOPHYSICS, REMOTE SENSING AND ENVIRONMENT

---

Journal "Exploration Geophysics, Remote Sensing and Environment" (EGRSE) publishes original contributions dealing with:

- **application of geophysical methods in geology, engineering geology, hydrogeology,**
  - **geofactors of environment and geothermal energy,**
  - **remote sensing and its application in geology, geodesy, GIS and ecology,**
  - **tectonophysics, physics of the interior of the Earth, seismology, seismotectonics and seismic hazard**
- 

### **Editorial board:**

#### **Chairman:**

BLÁHA Pavel, Assoc. Prof. RNDr. DrSc., GEOtest Brno, a.s., Brno, Czech Republic

#### **Members:**

GAJDOŠ Vojtech, Assoc. Prof. RNDr. CSc., Comenius University, Faculty of Sciences, Bratislava, Slovakia

IDZIAK Adam, Prof. zw. Dr. hab., Uniwersytet Śląski, Sosnowiec, Poland

KALÁB Zdeněk, Prof. RNDr. CSc., Institute of Geonics of the Academy of Sciences of CR, v.v.i., Ostrava, Czech Republic

MÜLLER Karel, Prof. Ing. DrSc., VŠB - Technical University of Ostrava, Emeritus Professor, Czech Republic

PALACKÝ Jiří, Mgr. PhD., Geological Survey of Canada, Ottawa, Canada, (retired)

SUK Miloš, Prof. RNDr. DrSc., Masaryk University, Brno, Emeritus Professor, Czech Republic

RYŠAVÝ František, RNDr., Karotáž a cementace s.r.o., Hodonín, Czech Republic, (retired)

ZAMARSKÝ Vítězslav, Prof. Ing. CSc., Technical University, Ostrava, Emeritus Professor, Czech Republic

#### **Editor in chief:**

RYŠAVÝ František, RNDr.

---

**All correspondence to Exploration Geophysics, Remote Sensing and Environment Journal; František Ryšavý, Lesní 3, 695 03 Hodonín, Rysavy.Frantisek@seznam.cz**

---

EGRSE is the official Journal of ČAAG - the Czech Association of Geophysicists, issued twice a year. Deadlines for submission of articles are: January 10; July 10. ČAAG is associated with EAGE from 1997.

---

**Issued price** 60 Kč. Single issue price: 100 Kč (two issues), exclusive of postage. Journal is distributed by the editors.

**Advertising:** Advertisements are accepted. Information on prices can be received from the editors.

---

**COVER:** A photo of the lower part of a wadi of the massif Khan Bogd - expedition Mongolia 2009 (to the paper Kynický et al: New perspectives of applications of the Earth satellite research in South Mongolia; the part I: Wadis like the hopeful collectors of drinking water; author of the photo: David Juříčka)

---

© ČAAG - PRAHA, Czech Republic; **IČO: 60460253**

---

### **Acknowledgements**

EGRSE thanks the following contributor for its financial support:

- **Council of Scientific Societies of the Czech Republic**

### **Editorial Board**

**All contrubutions have been reviewed**

## CONTENT

Bárta, J., Kněz, J., Budínský V., Jirků, J.

**Seven years of experience in experimental testing of granite rocks in the gallery serving as water conduit from the Josefův Důl hydraulic structure to water treatment plant in Bedřichov (Northern Bohemia).**

*Sedm let zkušeností s experimentálním testováním granitových hornin ve štolě sloužící jako přivaděč vody z vodní nádrže Josefův Důl k úpravě vody v Bedřichově (Severní Čechy)*

1

Bláha P., Černý V., Duras, R., Fousek, J., Horský, O., Lazecký, M., Oprchal, J., Tábořík, P., Peshawa, A., Aziz, B. Q.

**Geoelectrical surveys for the feasibility study of the Bawanur dam site**

*Orientační geoelektrický průzkum přehradního místa Bawanur*

14

Gajdoš, V., Rozimant, K.

**Geofyzikální výzkum riečnych terás na lokalite Domašín**

*Geophysical research of the river terraces in the locality Domašín*

48

Issawy, E. A., Othman, A. A., Mrlina, J., Saad, A. M., Radwan, A. H., Elhafeez, T. A., Emam M. S.

**Engineering and geophysical approach for construction site selection at Al-Amal area, southeast of Cairo, Egypt**

*Inženýrský a geofyzikální přístup k výběru stavebního prostoru v oblasti Al-Amal jihovýchodně od Káhiry, Egypt*

56

Kaláb, Z., Lednická, M.

**Doprava v obci Světí z hlediska seizmického zatížení**

*The traffic in the Světí village (Czech Republic) from seismic loading viewpoint*

68

Kynický, J., Juříčka, D., Novotná J.

**Nové možnosti aplikací dálkového průzkumu země v jižním Mongolsku, část I: Vádí jako perspektivní kolektory pitné vody**

*New perspectives of applications of the Earth satellite research in South Mongolia; the part I:*

*Wadis like the hopeful collectors of drinking water*

77

Pospíšil, L.

**Využití gravimetrie pro identifikaci podložních karbonátových komplexů v mineralizovaném prostředí východoslovenského neogénu.**

*Application of the gravimetry survey for identification of the basement carboniferous complexes*

*in the salt water geological formations of the East Slovakia Neogen*

87

**Instructions for authors**