

“Babeş-Bolyai” University of Cluj-Napoca, Romania
Department of Geology

16th Meeting of the Association of the European Geological Societies

MAEGS-16
9 - 13 July 2009, Cluj-Napoca, Romania
GEOLOGY FOR SOCIETY: EDUCATION AND CULTURAL HERITAGE

SCIENTIFIC PROGRAM

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Thursday, 9 July 2009

- 9:00-13:00 and 14:00-19:00** **Registration** (The Registration Room is located in the Main building of the Babeş-Bolyai University (in short, UBB), at the groundfloor level, in the Biology Chair – see the UBB groundfloor plan).
- 19:00-22:00** **Ice-breaking party** (*Foyer Hall* - see the Map of the UBB surroundings)

Friday, 10 July 2009

- 8:00-9:00** **Registration** (Registration Room located in the Main building, at the groundfloor level, in the Biology Chair)
- 9:00-10:00** **Opening ceremony** (Aula Magna, Main building, second floor - see the UBB groundfloor plan)
1. Welcome: Univ.Prof. Dr. Corina Ionescu (AEGS president)
 2. Univ. Prof. Dr. Şerban Agachi (President of the Babeş-Bolyai University)
 3. Percival Allan Medal Award presented by Dr. Ted Nield (*Geological Society of London*)
 4. Dr. Eduardo de Mulder (*2009 recipient of the Percival Allan Medal Award*): Response
- 10:00-10:30** **Invited lecture: Roger Trend** (*Great Britain*) - *The power of deep time in geoscience education: linking 'interest', 'threshold concepts' and 'self-determination theory'*
- 10:30-10:45** **Invited lecture: Tamás G. Weiszbürg** (Chairman of the International Organizing Committee) IMA 2010, Budapest: Bonds and Bridges. Invitation to celebrate Mineral Sciences and their applications, on behalf of the Austrian Carpathian-Pannonian Consortium
- 10:45-11:10** **Coffee break** (Coffee room A): *Archaeometry, Secondary schools, university curricula & Joint programs, Urban geology & Impact of geohazards sessions* (see the UBB groundfloor plan)
- Coffee break** (Coffee room B): *Building & Dimension stones, Museums & Public Awareness, Geoparks & Geosites sessions* (see the UBB groundfloor plan)

SCIENTIFIC SESSIONS

URBAN GEOLOGY & IMPACT OF GEOHAZARDS (G1 Room)

Chairpersons: Marco Giardino (Italy/Canada), Cristian Mărunțeanu (Romania)

11:10-11:40 Roberts N.J. - Culture and landslide risk in the Central Andes of Bolivia and Peru
(Invited lecture)

11:40-12:00 Barba L., Blancas J., Ortiz A., Ligorred J. - GPR detection of karst and archaeological targets below the historical centre of Merida, Yucatán, Mexico

12:00-12:20 Mărunțeanu C., Maftciu M., Niculescu V. - Cultural heritage facing geomorphologic and anthropogenic hazard in the medieval city of Sighișoara (Romania)

12:20-12:40 Beqiraj A., Gjoka F., Lamaj M., Cenameri M. - Assessment of geohazards and management of their possible impacts in the Kurbini region, Albania

12:40-13:00 Enciu P., Dumitrică C. - The Quaternary in and around Bucharest City, Romania

13:00-13:20 Apostoae L., Iancu O.G. - Heavy metal pollution in the soils of Iași city and the suburban areas (Romania)

13:20-15:00 Lunch break; Coffee and refreshments in the coffee room A

15:00-15:20 Morris J., Stroia F., Rotar C., Sava M., Iftimiu C. - Impact of local geological conditions on Săcuieni railway by-pass bridge (NW Romania)

SECONDARY SCHOOLS, UNIVERSITY CURRICULA, JOINT PROGRAMS (G1 Room)

Chairpersons: Roger Trend (Great Britain), Chris King (Great Britain)

15:20-15:40 King C. - Supporting Earth science education across Europe and the world

15:40-16:00 Barnikel F., Laj C. - Geosciences Information for Teachers (GIFT) – An International Annual Workshop during the European Geosciences Union (EGU) General Assembly

16:00-16:20 Weiszburg T.G., Pop D., Tóth E., Soldatos T.K. - EUROMIN: Bologna-wide Euro-degrees in Mineral Sciences - a Tuning approach

16:20-16:40 *Coffee break: Coffee and refreshments in the coffee room A*

- 16:40-17:00** **Calonge A., Juan X.** - AEPECT, the Spanish Earth Science Teaching Association: 30 years of Geology teaching in Spain
- 17:00-17:20** **Andrășanu A.** - Geoeducation - a key part of geoconservation
- 17:20-17:40** **Summesberger H., Hammer V.M.F., Zulkaschaller G., Meindl R., Grünweis E.** - GEOLAB© - a didactic tool after 10 years experience
- 17:40-18:00** **Greco R., Gualtieri A.F.** - The key factors to Earth Sciences university courses

ARCHAEOLOGY & GEOARCHAEOLOGY Eugen Stoicovici Amphitheater)*Chairpersons: Isabella Memmi-Turbanti (Italy), Bruno Fabri (Italy)*

- 11:10-11:40** **Degryse P.** - Sr-Nd radiogenic isotopes as a means of reconstructing the ancient glass economy (*Invited lecture*)
- 11:40-12:00** **Gligor A., Tămaș C.G.** - Roșia Montană Cultural Heritage in the context of a new mining development
- 12:00-12:20** **Maggeti M., Morin D., Serneels V., Neururer C.** - Contrasting recipes for the kiln furnitures of the faience manufacture Granges-le-Bourg (Haute Saône, France)
- 12:20-12:40** **Hoeck V., Ionescu C., Ghergari L., Precup C.** - Towards mineralogical and geochemical reference groups for some Bronze Age ceramics from Transylvania (Romania)
- 12:40-13:00** **Havancsák I., Bajnóczi B., Tóth M., Kreiter A., Szöllösi S.** - Provenance analysis of Celtic graphitic pottery from Dunaszentgyörgy (South-Hungary)
- 13:00-13:20** **Roy N., Bhiry N., Woollett J.** - Natural landscape evolution and human occupation at Dog Island in the north of Labrador, Canada

13:20-15:00 *Lunch break; Coffee and refreshments in the coffee room A**Chairpersons: Marino Maggetti (Switzerland), Patrik Degryse (Belgium)*

- 15:00-15:20** **Fabbri B., Gligor M., Gualtieri S., Varvara S.** - Archaeometric comparison between the Neolithic pottery of different cultures at the archaeological site of Alba Iulia (Transylvania, Romania)
- 15:20-15:40** **Petrík I.** - Brass Roman helmet from Gerulata, Slovakia
- 15:40-16:00** **Eposi Ntah Z.L., Sobott R., Bente K.** - Archaeometric analyses of pottery fragments from Cameroon.

16:00-16:20 **Přichystal A.** - Metabasites - the key raw material for Neolithic shoe-last celts and axes in Central Europe

16:20-16:40 *Coffee break: Coffee and refreshments in the coffee room A*

16:40-17:00 **Abd El Salam S.** - Wall paintings from the 2nd Century A.D. in Sabratha (Libya): an optical, microchemical and chemical study

17:00-17:20 **Constantinescu B., Bugoi R.** - Obsidian provenance studies of Transylvania's Neolithic tools using PIXE, micro-PIXE, PIGE, RBS and XRF

17:20-17:40 **Tămaş C.G., Cauuet B.** - Advances in ancient mining studies from a geological perspective: Roşia Montană case study (Apuseni Mountains, Romania)

17:40-18:00 **Hoeck V., Ionescu C.** - CEEPUS, 10 Years of an Earth-Science network: experience, problems and proposals

BUILDING AND DIMENSION STONES (Emil Pop Room)

Chairpersons: Roman Koch (Germany), Ryszard Kryza (Poland)

11:10-11:40 **Sobott R.** - The importance of mineralogical and petrophysical properties of natural building stones
(Invited lecture)

11:40-12:00 **Kryza R.** - Wrocław Cathedral: usage of local building stones through the past millennium

12:00-12:20 **Ehling A., Bowitz J.** - Building sandstones in Germany – historical use and modern analytical methods

12:20-12:40 **Răcăţianu, P.C., Koch R.** - Dimension Stones of the Old City Wall of Cluj-Napoca, Romania – An overview on History, Mapping, Weathering and Damages

12:40-13:00 **Weiss C., Koch R., Gerlach I.** - Ancient building stones from the Jabal Makdarah and Jabal Haylan area/Yemen – classification, origin and weathering behaviour

13:00-13:20 **Frank-Kamenetskaya O.V., Vlasov D.Yu., Zelenskaya M.S., Knauf I.V., Timasheva M.A.** - Decaying of the marble and limestone monuments in the urban environment. Case studies from Saint Petersburg, Russia

13:20-15:00 *Lunch break; Coffee and refreshments in the coffee room B*

- 15:00-15:20 **Har N., Gorea M., Benea M.** - Mineralogy of degradation processes of some concretes and mortars
- 15:20-15:40 **Vola, G., Primavori P.** - Coloured "marbles" recently quarried in the Province of Bergamo, Italy
- 15:40-16:00 **Luca A., Mohanu D.** - Use of the petrographic criteria for the comparative studies of fresco mortars at the "Doamnei" Church (Bucharest, Romania)

OPEN SYMPOSIUM (Emil Pop Room)

Chairpersons: Lucian Beșuțiu (Romania), Gheorghe Ilinca (Romania)

- 16:00-16:20 **Ilinca Gh., Ionescu C., Ghergari L.** - The "chalcedony" of Trestia, Maramureș (Romania) – revisited
- 16:20-16:40 *Coffee break: Coffee and refreshments in the coffee room B*
- 16:40-17:00 **Beșuțiu L.** - Geodynamic consideration on the seismicity of the SE Carpathians and their foreland (Romania)
- 17:00-17:20 **Iatan L.E.** - The first occurrence of tellurium-bearing minerals in the Roșia Poieni porphyry copper deposit, South Apuseni Mountains (Romania)
- 17:20-17:40 **Mosonyi E., Forray F.L.** - Metamorphic conditions of the Rebra Group in the Maramureș Mountains, North Romania
- 17:40-18:00 **Hassan G.S.** - Crustal deformation deduced from micro-gravity and geodetic data in the High Dam area, Aswan (Egypt)

GEOPARKS AND GEOSITES (Biology Lab Room)

Chairpersons: Haino Uwe Kasper (Germany), Alexandru Szakacs (Romania)

- 11:30-11:50 **Andrășanu A.** – The key ingredients to create a successful geopark
- 11:50-12:10 **Kasper H.U.** - The relation between the thalassonym Black Sea and the euxinic environment – a discussion
- 12:10-12:30 **Kovacs M., Fülöp A.** - Baia Mare Geological and Mining Park- a possible new geopark in the northwestern part of Romania
- 12:30-12:50 **Seghedi A., Iancu V., Popa M., Rascov M., Ghenciu M.** - The Iron gates Natural park: proposal for geo-tourism related to mining activities

12:50-13:10 **Wiewiórka J., Dudek K., Charkot J., Gonera M.** – Natural and historic heritage of the Bochnia salt mine (S Poland)

13:10-15:00 *Lunch break; Coffee and refreshments in the coffee room B*

Chairpersons: Antoneta Seghedi (Romania), Krzysztof Dudek (Poland)

15:00-15:20 **Hoeck, V., Koller, F.** - Geology and the Hohe Tauern National Park, Austria

15:20-15:40 **Szakács A., Gál A.** - Rock and mineral type localities in Romania: potential geosites and parts of the geological and cultural world heritage

15:40-16:00 **Fülöp A., Kovacs M.** - Managing the geodiversity in the Baia Mare region: from scientific to public interest

16:00-16:20 **Cetean V.** - Natural, cultural and historical heritage: the earthwork vestiges from the Ivanețu Mt. (Eastern Carpathians, Romania)

16:20-16:40 *Coffee break: Coffee and refreshments in the coffee room B*

MUSEUMS & PUBLIC AWARENESS (Biology Lab Room)

Chairperson: Alexandrina Fülöp (Romania)

16:40-17:00 **Broska I., Bezák V., Ďurišová A., Hudáčková N., Jeleň S., Kovčová M., Madarás J., Michalík J., Nelišerová E., Petrík I.** - Exhibition: "The planet, we live on"

17:00-17:20 **Gorđuza V., Jurje, M., Gorđuza A.** – The Baia Mare Museum of Mineralogy: a regional museum

17:20-17:40 **Pop D., Bâlc R., Iancu I., Forray F.** – The „Night of museums” at the Museum of Mineralogy, Babeș-Bolyai University, Cluj-Napoca

Saturday 11 July 2009

9:00-12:00 POSTER SESSION (FOYER HALL) (see the Map of the UBB surroundings)
(8:30-9:00 Mounting the posters)

A. SECONDARY SCHOOLS, UNIVERSITY CURRICULA, JOINT PROGRAMS (Posters)

Chairperson: Marinel Kovacs (Romania)

- A.1. Papp D.C., Papp L., Nitoi E.** - The power of a drop of water: or how to increase pupils' enthusiasm for earth science
- A.2. Steyerer H.P.** - Teaching principal plate tectonic processes by means of analogue modeling
- A.3. Zaharia L., Bucur I.** - The role of student chapters within geological departments – a case study of the Cluj student Chapter of AAPG in Babeş –Bolyai University, Cluj-Napoca, Romania

B. OPEN SYMPOSIUM (Posters)

Chairperson: Ferenc Forray (Romania)

- B.1. Çalik A., Arzoğullari U.** - Geology of the agate and opal – bearing formations in the Dereyalak village (Eskisehir), Turkey
- B.2. Bedeleian H., Măicăneanu A., Stanca M., Burcă S.** - Removal of heavy metal ions from wastewaters using natural materials
- B.3. Iancu O.G., Toda D.P., Iancu G.** - Mineral chemistry of some agates from Gurasada (Mureş Valley, Romania)
- B.4. Juravle D.T., Miclăuş C., Chira C., Grasu C., Juravle V.** - The Priabonian deposits from the Outer Flysch in Bucovina area (Eastern Carpathians – Romania). Sedimentological and palaeogeographic significance

C. MUSEUMS & PUBLIC AWARENESS (Posters)

Chairperson: Dana Pop (Romania)

- C.1. Beqiraj Goga E.** - A new type of Earth Science exhibition: it's called MINERALISM
- C.2. Brustur T.** - Lower Miocene jellyfish imprints in the Poiana Vrancea County, Romania) – a rare case of fossilization

- C.3. **Ciobanu R.** - Geological education in Museums: The Brukenthal National Museum (Sibiu, Romania)
 - C.4. **Fetisova O.** - Spectacular mineral specimens from Central Siberia.
 - C.5. **Fetisova O., Kirichenko, T.** - Geological education for children at the Geological Museum of Central Siberia
 - C.6. **Popescu A.** - The Collection of Minerals and rocks in the Museum of Oltenia - valuation and capitalization
 - C.7. **Seghedi A., Nailia M., Saint-Martin S.** - Increasing public awareness on geodiversity: programs and exhibitions at the National Museum of Geology, Bucharest
 - C.8. **Wolicka D.** - Learning Geology through popular scientific events
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D. GEOPARKS AND GEOSITES (Posters)

Chairperson: Volker Hoeck (Austria/Romania)

- D.1. **Brezinska-Wojcik T., Harasimiuk M., Kociuba W.** - Conservation of the geological heritage in the "Roztocze" biosphere reserve (Polish and Ukrainian borderland area)
 - D.2. **Ghiraldi L., Coratza P., de Biaggi E., Giardino M., Marchetti M., Perotti L.** - Development and usage of geosites: new results from research and conservation activities in the Piemonte region (Italy)
 - D.3. **Porumbescu C., Dedu D.V., Cioaca V.** - Catalogue of the lithological types found in Cheile Bicazului-Hasmas National Park
 - D.4. **Soliman H.A.** - The Gilf Kebir geopark and the Dababiya geosite (Egypt).
 - D.5. **Tabără D., Chirilă G.** - The Șcheia - Iași natural reservation: a reference area for the upper Bessarabian fauna and flora from the Moldavian Platform (Romania)
 - D.6. **Țibuleac P.** - The Lower Jurassic klippe of the Prașca Peak (Rarău Syncline, Eastern Carpathians, Romania) – file for a new scientific reservation
 - D.7. **Žaba J., Ciesielczuk J., Gaidzik K.** - Structural position of Huambo River valley (Central Andes, Peru) and its geoeducational aspects
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E. ARCHAOMETRY & GEORCHAEOLOGY (Posters)

Chairperson: Marino Maggetti (Switzerland)

- E.1. **Benea M., Gorea M., Har N.** - Mineralogical and physical characteristics of some clays and Roman ceramics from Ulpia Traiana Sarmizegetusa (Hunedoara country, Romania)

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- E.2. **Crandell O.** - Romanian Lithothèque Project: Knappable stone resources in the Mureş Valley, Romania
- E.3. **Doncea S.M., Ion R.M., Fierascu R.C., Dumitru I., Bacalum E.** - Extended spectral analysis (FT-IR, EDXRF, ICP-EAS) of cellulose-based artifacts
- E.4. **Kalmár J., Patay R., Kulcsár V.** - Some data concerning the study of stone material with geological methods, Üllö and Vecsés archaeological excavation sites, Hungary
- E.5. **Nagy-Korodi I., Weiszbürg T.G., Szakmány G., Ionescu C., Varga G., Kasztovszky Zs.** - Neolithic polished axes from NW-Romania (Micula, Satu Mare County) – a mineralogical, geochemical and petrographic study
- E.6. **Rusu-Bolindeţ V., Ionescu C., Ghergari L., Simon V.** - Locally-produced roman pottery from Napoca
- E.7. **Stan D., Păuna C., Constantinescu B.** - The use of X-Ray fluorescence for archaeological gold objects provenance studies
- E.8. **Tămaş C.G., Cauuet B.** - Mining archaeology and geological studies of the ancient mines from the Morvan Massif (French Central Massif): the state of the art
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F. BUILDINGS AND DIMENSION STONES (Posters)

Chairpersons: Robert Sobott (Germany), Roman Koch (Germany)

- F.1. **Cetean V.** - Romanian dimension stones: behavior under climatic variations and final use
- F.2. **Ehling A., Bowitz J.** - Building sandstones occurrences in Germany – map and stratigraphical profile
- F.3. **Fiora L., Alciati L.** - Volcanic and volcanoclastic stones: an overview of recent international market
- F.4. **Frank-Kamenetskaya O.F., Vlasov D.Y., Egorova, V.V., Karpenkov, E.M., Rytikova, V.V.** - Creation of the database on a state of Saint Petersburg stone monuments on the basis of complex monitoring results
- F.5. **Kryza R., Prell M., Czechowski F., Domaradzka M.** - Acidic weathering of carbonate building stones: experimental assessment (preliminary results)
- F.6. **Mihăilă A.** - Preliminary studies of raw materials and weathering processes at Cârța Cistercian Monastery (Sibiu County, Romania)
- F.7. **Mosyagin A.V., Knauf I.V., Zelenskaya M.S.** - Deterioration of carbonate rocks used for archeological monuments in Tauric Chersonesos (Crimea)

- F.8. Rajchel J.** - Rock materials in Cracow architecture
- F.9. Răcățăianu P.C.** - Methods of damage mapping and new Damage Database Model applied to the Old City Wall of Cluj-Napoca, Romania
- F.10. Rusakov A., Zelenskayai M.S., Knauf I.V., Plotkina J.V., Gimelbrandi D., Frank-Kamenetskaya O.V., Vlasov D.Y.** - Calcium oxalates in biofilms on the surface of archeological monuments of Tauric Chersonesos (Crimea)
- F.11. Tănăsescu I.** - Evaluation study of an historical building degradation using infrared thermography
- F.12. Vola G., Fiora L., Alciati L.** - Stones used in Bergamo architecture
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G. URBAN GEOLOGY & IMPACT OF GEOHAZARDS (Posters)

Chairperson: Marco Giardino (Italy/Canada)

- G.1. Clague J., Giardino M.** - Geohazards of the Vancouver 2010 Olympic Area (Canada)
- G.2. Ivanov M., Faimon J., Jarmara P., Pešák L.** - Evolution of minesoils at a coal waste pile: A case study from Rosice-Oslavany (Czech Republic)
- G.3. Mășu S., Uruioc S., Dragomir N., Pricop A.** - Decrease of heavy metal bioaccumulation in plants by soil amendment with pillared volcanic tuff
- G.4. Milutinovici E., Iacobescu R., Aspritoiu A., Mihăilescu D.** - Landslide risk mapping in the Băile Govora area, Vâlcea County (Romania)
- G.5. Nagy-Korodi I., Ionescu C., Forray F.L., Hoeck V., Tippelt G.** - Environmental impact and polymetallic mining in the Nistru-Băița, North Romania
- G.6. Petrescu L., Bilal E.** - Dissolved Uranium in stream waters around Crucea uranium mine (East Carpathians, Romania)
- G.7. Stănciucu M., Mărunțeanu C., Samoilă M., Roca M.** - Landslides hazard in the Nehoiu area (Buzău County, Romania)
- G.8. Žaba J., Malolepszy Z., Gaidzik K.** - Landslide geohazard related to structural setting and seismotectonic activity in the Colca River valley, Central Andes, Peru
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12:15-12:30 Dismounting the posters

12:30-14:00 Lunch break

14:00 Closing ceremony (*Aula Magna*, in the Main building, second floor - see the UBB groundfloor plan)

- Summary (Univ. Prof. Dr. Corina Ionescu, AEGS president)
- Awards for the best posters
- General Assembly of AEGS

15:00-18:00 Visits to the Mineralogy Museum and Paleontology Museum (Department of Geology, in Main building - see the UBB groundfloor plan). Please register for the museums visit at the Registration desk, until 10th of July, 11:00 morning.

Contact details for the authors and participants

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