

Romanian Society of Applied Geophysics

SGAR

Societatea de Geofizica Aplicata din Romania

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November 22, 2019

Scientific symposium

GEOSCIENCE 2019

Organized by

**Romanian Society of Applied
Geophysics**

in collaboration with

**Institute of Geodynamics
“Sabba S. Stefanescu”
Romanian Academy**



Program

Friday, November 22, 2019

Institute of Geodynamics
19-21 Jean-Louis Calderon Street
Bucharest

OPENING SESSION

10:00 – 11:00

Prof. Dumitru Ioane, President, Romanian Society of Applied Geophysics

Dr. Crisan Demetrescu, Director, Institute of Geodynamics,
Corresponding Member of the Romanian Academy

11:00 – 13:00

INVITED PRESENTATIONS

Dr. Crisan Demetrescu & Dr. Venera Dobrica:

**SUB-CENTENNIAL OSCILLATIONS IN THE GEOMAGNETIC FIELD AND
EARTH'S ROTATION**

Dr. Ioan Seghedi:

**SUBDUCTION-RELATED ARC MAGMATISM VERSUS POST-COLLISIONAL
MAGMATISM. A REVIEW**

Prof. Dumitru Ioane, Drd. Adrian-Iulian Pantia & Drd. Irina Stanciu:

THE TRANS-EUROPEAN SUTURE ZONE IN ROMANIA

Prof. Cristian Marunteanu & Prof. Dumitru Ioane

FIELD TRIP IN ANCIENT MESO-AMERICA

COFFEE BREAK

13:00 – 14:00

Regional Geophysics, Geodynamics & Seismology

Conveners: **Dr. Crisan Demetrescu, Prof. Dumitru Ioane**

- 14:00 – 14:15 Armand Stanica, Dumitru Stanica
GEOMAGNETIC ANOMALOUS SIGNAL ASSOCIATED WITH Mw8.3 COQUIMBO - CHILE EARTHQUAKE ON SEPTEMBER 16-th, 2015)
- 14:15 – 14:30 Horian Mitrofan, Florina Chitea, Mirela-Adriana Anghelache, Constantin Marin, Nicoleta Cadicheanu, Ioan Povara, Alin Tudorache, Daniela Elena Ionita
**IS CERNA-JIU FAULT (SOUTH CARPATHIANS, ROMANIA) BEING REACTIVATED?
BEHAVIOUR PATTERNS RESEMBLING THOSE ENCOUNTERED AT THE WESTERN TERMINATION OF THE NORTH ANATOLIAN FAULT**
- 14:30 – 14:45 R. Dinescu, I. Munteanu, A. Placinta, C. Dinu, E. Oros, M. Popa, M. Radulian
ANALYSIS OF SEISMIC SEQUENCES IN CARANSEBES-MEHADIA BASIN BETWEEN 2014 AND 2016
- 14:45 – 15:00 Rasvan Stochici
CHARACTERISTICS OF THE HIGH-CONDUCTIVITY ELECTRICAL ANOMALY IN THE CARPATHIAN REGION

Environmental Geophysics

Conveners: **Dr. Venera Dobrica, Dr. Radu George Dimitriu**

- 15:00 – 15:15 Venera Dobrica, Crisan Demetrescu
ON THE GEOPHYSICAL INPUT IN ASSESING SPACE WEATHER HAZARD INDUCED BY GEOMAGNETIC STORMS (GICS)
- 15:15 – 15:30 Dimitriu R.G., Dobrinescu, C., Caraivan, G., Barbu, M.B., Bodolică, V.
AN UPDATED ASSESSMENT OF THE SUBMARINE CULTURAL HERITAGE OFF THE SOUTHERN ROMANIAN COAST
- 15:30 – 15:45 Dudu Alexandra, Sava Constantin, Anghel Sorin, Avram Corina
STUDY OF SITES WITH NATURAL CO₂ EMISSIONS FROM BANAT AND HARGHITA

15:45 – 16:00 Georgeta Maris Muntean, Diana Besliu-Ionescu, Venera Dobrica
**COMPLEX CATALOGUE OF HIGH SPEED SOLAR STREAMS IN THE
SOLAR WIND**

16:00 – 16:15 Briceag, A., Yanchilina, A., Ryan, W.B.F., Stoica, M., Melinte-Dobrinescu, M.C.
**BLACK SEA EVOLUTION SINCE THE LAST GLACIAL MAXIMUM
BASED ON MICROFAUNAL AND STABLE OXYGEN ISOTOPE RECORDS**

16:15 – 16:30 Garbacea George
**PREDICTIVE SOIL MAPPING USING MACHINE LEARNING
ALGORITHMS**

16:30 – 16:45 Lucica Nicolae, Florina Chitea, Maria-Lidia Nuțu-Dragomir
**SURFACE RECONSTRUCTION OF A LANDSLIDE AFFECTED AREA
USING GEOMORPHOLOGICAL, GEOLOGICAL AND GEOPHYSICAL DATA**

APPLIED GEOPHYSICS

Conveners: **Dr. Dumitru Stanica, Dr. Florina Tuluca (Chitea)**

16:45 – 17:00 Chitea Florina, Ioane Dumitru, Tolbes Cosmin
**EMI INVESTIGATION OF A BURIED FOUNDATION:
CASE STUDY ADDRESSING REMAINS OF A CONTROLLED
DEMOLISHED BUILDING**

17:00 – 17:15 Barbu Marius Bogdan, Dimitriu Radu George
AN ASSESSMENT OF UXO DUMPSITES IN THE BLACK SEA

17:15 – 17:30 Cristiana Stefan
**DECOMPOSING THE GEOMAGNETIC FIELD BY MEANS OF
EMPIRICAL ORTHOGONAL FUNCTIONS**

17:30 – 17:45 Valentin Furnica
**ELECTRODES AGED UNDER THE INFLUENCE OF ELECTROMAGNETIC
FIELDS EMITTED BY TECTONIC STRESS**

17:45 – 18:00 Diacopolos Constantin, Stochici Rasvan, Visan Madalina
**GEOELECTRIC MEASUREMENTS FOR FAULT DETECTION
IN BUCHAREST. CASE STUDY: BOTANICAL GARDEN**