

# 8<sup>th</sup> Congress of the Balkan Geophysical Society



## TECHNICAL PROGRAMME & CATALOGUE

Hellenic Geophysical Union  
Bulgarian Geophysical Society  
Association of Hungarian Geophysicists  
Assoc. of Geophysicists & Environmentalists of Serbia  
The Chamber of Geophysical Engineers of Turkey  
Romanian Societies of Geophysics  
Albanian Geophysical Society

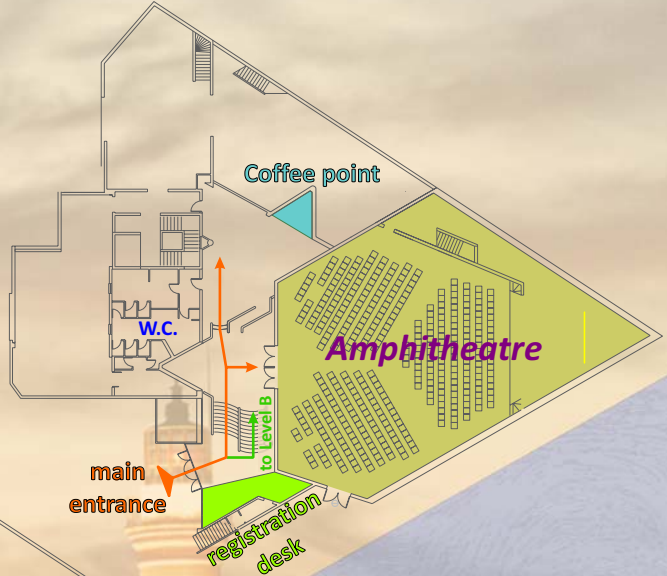
4 - 8 October 2015  
Chania, Crete, Greece

ORGANIZERS:  
Hellenic Geophysical Union  
Region of Crete -  
Regional Unit of Chania



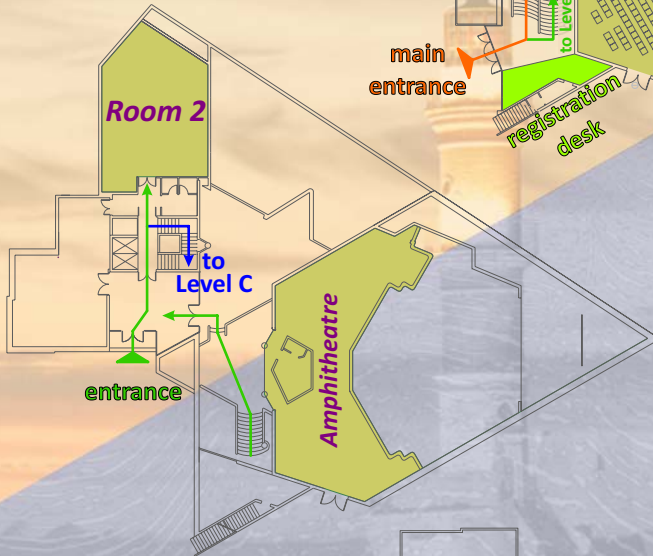
### Level A

- main entrance
- registration desk
- Amphitheatre
- W.C.
- Coffee point



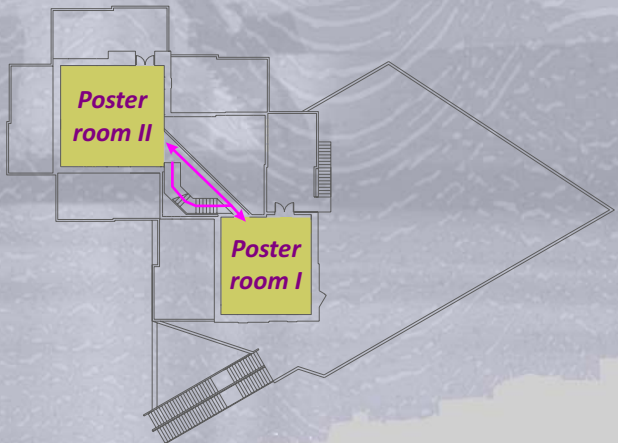
### Level B

- ← entrance
- ← Amphitheatre
- ← Room 2



### Level D

- Poster room I
- Poster room II



## Welcome

We are honored to invite you to attend the 8<sup>th</sup> Congress of the Balkan Geophysical Society (BGS), scheduled to take place in Chania, Greece, on the 4 -8 October 2015. The 8<sup>th</sup> BGS Congress is the largest and most comprehensive geophysical event in the Balkan region. The program consists of a large conference and technical exhibition providing information on the role that geophysics plays in the realms of geology, reservoir petroleum, mining, seismology, geothermal energy, engineering and environment in the Balkan region. The 8<sup>th</sup> BGS Congress aims to bridge the basic with the applied research in the domain of Geophysics. We particularly welcome active and young geophysicists. The congress is held in the facilities of the Chania Cultural Center located at the center of the city, 76, Andrea Papandreou str. We are pleased to welcome you here in Chania.

On behalf of the Steering Committee



Professor Antonis Vafidis  
President



The old harbor of Chania

## General Information

### About Chania

The City of Chania, the capital of Chania prefecture, is located at the northeastern part of the prefecture and constitutes the administrative, economic, commercial, and transport center of the homonymous prefecture.

The City of Chania is the capital of the Municipality and the second largest city of Crete with 108.642 residents, built over the ruins of the Minoan city Kydonia. The Venetian, Turkish, traditional and modern architecture coexist in harmony in the city of Chania, creating a unique and attractive scenery for the visitors. Archaeological sites, temples, squares and unique buildings adorn this attractive city. The old city of Chania constitutes a unique historical monument, for which have been made many efforts by the State and the local authorities to preserve and project its historical character. Despite the intense touristic development of the last few decades, the interventions, the disasters and the aspect of modern architecture, the old city managed to preserve its historical and its unique architectural character to a great extent.



**The marina in the old harbor**



**Archaeological Museum of Chania**



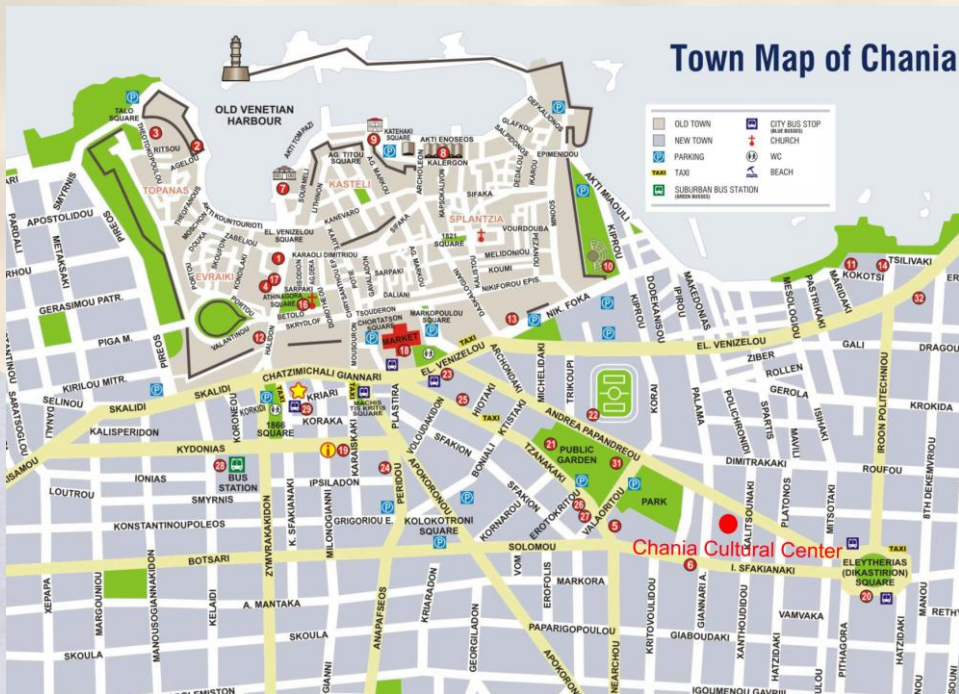
**Center of Mediterranean architecture**



**The central Market Square ("Agora")**



**The Orthodox Cathedral**



City map of Chania

Chania is surrounded by numerous options for sightseeing, exploration and discovery. The Samaria and many other gorges can be hiked, and archaeological sites can be explored. Food is offered in great variety. There are many restaurants and also cafes, at which you can relax and enjoy local cuisine.



Archaeological site of Falasarna



Samaria gorge

## Facts for Chania

Country	Greece
Administrative region	Crete
Language	Greek
Time zone	GMT+02:00Athens, Beirut, Istanbul, Minsk
Currency	Euro
International dialing code	0030
Area dialing code	28210
Postal code	73100
Population size of Chania	108,642
Electricity	220 V AC, 50 Hz
Temperature in October at Chania	15° C -23° C
Precipitations (average)	80 mm

## Transport

The Chania International Airport, hosts daily 5 direct flights to and from Athens and 2 direct flights to and from Thessaloniki with Aegean Airlines and Ryan Air. Daily ferry connects Piraeus and Souda port, departing at 21:00'. There are 27 bus roots connecting the center of Chania and the airport "Daskalogiannis". One way ticket costs 2.30 €. The bus center is located at Kydonias & Partheniou Kelaidi GR-73100 Chania. Up-to-date information for buses can be retrieved from <http://www.e-kstel.com/en/2-uncategorised/70-pros-aerodromio>.

## Information

If you have any questions regarding the Technical Programme, please visit the Registration Desk on the ground floor, entrance of the Cultural Center. Speakers are requested to retrieve information about how and when to upload their presentation file(s) as Microsoft Power Point file(s) before the sessions.

## Conference bag

Every participant having a full registration will get a Conference Bag at the registration desk, containing all of the conference materials available at the time of opening.

## Proceedings USB flash



EUROPEAN  
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GEOCHEMISTS &  
MINERALOGISTS

As a courtesy of EAGE, the extended abstracts of the papers submitted for presentation at the Congress, are available in a USB flash stick. This can be found in your Conference Bag.

### On-site payment

If you have not registered yet but you would like to attend, please register at the Registration Desk. Daily registration is possible, as well as participation at the conference Gala evening and field trip.

### Catering, Coffee



ΠΕΡΙΦΕΡΕΙΑ ΚΡΗΤΗΣ  
REGION OF CRETE

Free coffee/tea is provided during the breaks of all registered participants. Coffee points (sponsored by the “Region of Crete – Regional Unit of Chania”) are located both in the Level A and Level C (see maps on cover page).

### Icebreaker reception

This event (traditional for geophysical conferences with technical exhibition) will be on Monday evening, 5<sup>th</sup> October at the venue (Cultural Center of Chania). This is the typical opportunity to meet your colleagues, while you can walk along the (partially set) poster rows and look around the Technical Exhibition in an informal way. The reception, starting at 19:00 and finishing around 21:00, is open for all registered participants of the congress.

### Conference Evening (Tuesday, 6<sup>th</sup> of October 2015, 19:00 – 23:00)

The Gala dinner will give the opportunity to the participants to taste the Cretan cuisine, which is the base of the Mediterranean Diet, as proven by scientific studies and documented by international literature. Full delegates and first exhibitors will get their vouchers for the conference evening at the reception desk, while junior delegates and family members can purchase this voucher on the “On-site Payments” desk on Monday, 5<sup>th</sup> October.

### Awarding the best young authors

An important role of the Congress is to recognize and honor the efforts of young scientists. To do so, the BGS Organizing Committee offers an award for the best presentations of a young scientist (age below 35). Proposals for the awards will be made by the chairmen and the final decision will be taken by the BGS Organizing Committee. The best presentations will be awarded during the closing ceremony.

### Additional events

#### Social Program

The Social program is a good opportunity to socialize. Entertainment for participants and family members will be part of the program, including an icebreaker reception, a conference Gala evening and a family member’s tour. Since Chania has much to offer, we will make sure you will not regret coming to this beautiful city.

### Sightseeing

A tour will be organized for sightseeing at Chania city. This will be held on Tuesday the 6<sup>th</sup> October. The main history and cultural institutions of Chania are the Archaeological Museum, the Naval Museum, the Agora, the Venizelos Graves, the old Venetian harbor etc. The atmosphere has a flavor of Florence and Venice, combined with the culture and character of Cretan people and traditions. This will be a chance to see some of the old buildings of Venetian and Turkish design. Details can be retrieved from the Registration Desk on the ground floor, entrance of the Cultural Center.

### **Field trip (8<sup>th</sup> of October, 2015)**

Field trip is one of the most amusing parts of the Congress; it is an opportunity to see new things, work and learn at field and to have positive memories. Participants to the field trip must be sent to the Secretary (e-mail: [bgs2015@easy-conference.gr](mailto:bgs2015@easy-conference.gr)). Deadline: 15<sup>th</sup> September 2015. Field trip expenses are not included in the registration fee.

Field trips guides can be downloaded from the website of the Congress:

<http://www.balkangeophysoc.gr/menu/congresses/bgs2015/#fieldtrip>

The field trip is planned to be in western Crete, at the ancient Falasarna, which is located on the West coast of Crete and is almost 50 km far from the city center of Chania.

It has both archaeological and geophysical interest:

The participants will visit the remains of a fortified Hellenistic harbor. This harbor is nowadays located inland due to a sudden 9m uplift of the West Crete 1500 years ago. Moreover, they will be informed about the seawater intrusion problem of Falasarna from a geophysical perspective.



**Sandy beach at Falasarna**



**The ancient harbor at Falasarna**



## The Balkan Geophysical Society

The BGS was founded in May 1993, when a group of eminent Balkan geophysicists met in Florina, Greece, during the 2<sup>nd</sup> Congress of the Hellenic Geophysical Union and agreed to found a pan-Balkan society aimed at securing the future of geophysics in the region. The aim is to invest in scientific innovation, influence policymaking with the best scientific advice, and improve education in geophysics in the region.

An agreement was made to found the society between the Albanian Geophysical Society (AGS), the Bulgarian Geophysical Society (BgGS), the Hellenic Geophysical Union (HGU), the Association of Hungarian Geophysicists (MGE), the Romanian Society of Geophysics, the Association of Geophysicists and Environmentalists of Serbia (AGES) and the Chamber of Geophysical Engineers of Turkey (CGET), all of which are Associated Societies of EAGE. At the 2013 Congress in Tirana, another member joined the BGS namely the Romanian Society of Applied Geophysics. All the member societies of the BGS are committed to enhancing geophysics and education in the region, and increasing access to the best scientific solutions for the benefit of their respective countries and the Balkan region. Many of the issues it tackles are global in nature and require collaboration among member states. Each biennial meeting also focuses on how technological innovation can facilitate sustainable development.



Romanian Society of Applied Geophysics

**SGAR**

Societatea de Geofizica Aplicata din Romania



## Committees

### International steering committee

Antonis Vafidis (Chairman)	Hellenic Geophysical Union
Stefan Shanov	Bulgarian Geophysical Society
George Apostolopoulos	Hellenic Geophysical Union
Salvatore Bushati	Albanian Geophysical Society
Istvan Kestmarky	Association of Hungarian Geophysicists
Lazlo Vero	Association of Hungarian Geophysicists
Dumitru Ioane	Romanian Society of Applied Geophysics
Paul Georgescu	Romanian Geophysical Society
Snezana Komatina	Association of Geoph/ists and Environ/ists of Serbia
Sevket Demirbas	Chamber of Geophysical Engineers of Turkey
Ahmet Basokur	Chamber of Geophysical Engineers of Turkey
Gavril Mirakovski	F.Y.R.O.M.
Petar Stavrev	Bulgarian Geophysical Society

### Local organizing committee

Antonis Vafidis	Hellenic Geophysical Union
Panagiotis Tsourlos	Aristotle University of Thessaloniki
Grigoris Tsokas	Hellenic Geophysical Union
Yiannis Grigoriou	Hellenic Petroleum Company
George Apostolopoulos	Hellenic Geophysical Union
Costas Tzimeas	Energean Oil&Gas
George Vargemezis	Aristotle University of Thessaloniki
Apostolos Sarris	Institute for Mediterranean Studies, Foundation for Research and Technology (F.O.R.T.H.)
Kostas Papazachos	Aristotle University of Thessaloniki
Nikos Voulgaris	Kapodistrian University of Athens
Pantelis Soupios	Technological Educational Institute of Crete
George Kritikakis	Technical University of Crete
Nikos Economou	Technical University of Crete
Nikos Andronikidis	Technical University of Crete

### Scientific Committee

Grigoris Tsokas (Chairman)	Hellenic Geophysical Union
Alfred Frashëri	Albanian Geophysical Society
Hakan Karšli	Chamber of Geophysical Engineers of Turkey
Tamás Bodoky	Association of Hungarian Geophysicists

### **Reviewers list**

*Apostolopoulos George, Bektaş Özcan, Büyüksaraç Aydın, Celik Cengiz, Chitea Florina, Çinar Hakan, Correia Antonio, Dushi Edmond, Economou Nikos, Frasheri Neki, Frashëri Alfred, Grigorova Maya, Kritikakis George, Majcin Dusan, Milushi Ibrahim, Moser Tijmen Jan, Ormeni Rrapo, Pamuk Eren, Paoletti Valeria, Papadopoulos Nikos, Reci Hamza, Sari Mahmut, Sarris Apostolos, Shanov Stefan, Soupios Pantelis, Spanoudakis Nikos, Szalai Sandor, Timur Emre, Tsokas Gregory, Tsourlos Panagiotis, Turan Secil, Turkelli Niyazi, Tzanis Andreas, Tzankov Christian, Vafidis Antonios and Vargemezis George.*

### **Technical Topics**

Seismic, Seismic Interpretation / Oil & Gas Exploration  
Goelectrical & Electromagnetical Geophysics  
Engineering & Environmental Geophysics  
Geophysical Modeling and Inversion  
Potential Fields (Gravity, Magnetics)  
Geophysics for Historical Heritage  
Seismology and Lithosphere  
Ground Penetrating Radar  
Marine Geophysics  
Hydrogeophysics  
Well Logging  
Geothermy

### **Workshop**

**SEG DISC Course “Engineering Seismology with Applications to Geotechnical Engineering”**

The workshop will be held at the **Centre for Mediterranean Architecture (CAM)** under the auspices of Society Exploration Geophysicists (SEG) & KEPPEDIH - CAM.

**Room:** Conference Room, 2<sup>nd</sup> floor, CAM, Katechaki Square and 31<sup>st</sup> Akti Tompazi, Old Venetian Harbor, Chania 731 32

<http://www.balkangeophysoc.gr/menu/congresses/bgs2015/#workshops>

**Date:** Sunday, 4<sup>th</sup> of October, 09:00 - 16:00.

**Instructor:** Öz Yilmaz (GeoTomo LLC).

**Workshop fee:** Full registration 200 \$, Student registration 50 \$.

For the registration please visit the site:

<http://shop.seg.org/Default.aspx?TabId=177&ProductId=6365856>

Short Workshop Description:

The near surface is the subject of seismology – earthquake seismology, exploration seismology, and engineering seismology. This course is devoted to application of the seismic method to delineate the near-surface geology primarily for geotechnical remediation of the soil column for civil engineering structures. Nevertheless, the course also includes case studies for the broader scope of engineering seismology.

**List of events****SUNDAY, 4<sup>th</sup> OCTOBER**

<b>Workshop</b>	
9:00 – 16:00	SEG DISC Course “Engineering Seismology with Applications to Geotechnical Engineering”

**MONDAY, 5<sup>th</sup> OCTOBER**

Registration	
8:00 – 17:00	Technical programme and exhibition
10:00 – 19:00	Ice-breaker reception at the Congress Center
19:00 – 21:00	

**TUESDAY, 6<sup>th</sup> OCTOBER**

Registration	
8:00 – 17:00	Technical programme and exhibition
9:00 – 17:15	Sightseeing tour
10:30 – 12:30	Conference evening gala dinner
19:00 – 23:00	

**WEDNESDAY, 7<sup>th</sup> OCTOBER**

Registration	
8:00 – 17:00	Technical programme and exhibition
9:00 – 17:00	Closing ceremony - Awards for the best young authors
17:00 – 17:30	Meeting of BGS board members and EAGE representatives
17:30 – 18:30	

**THURSDAY, 8<sup>th</sup> OCTOBER**

9:00 – 17:00	Field trip
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## Technical Programme of 8<sup>th</sup> Congress of BGS at a Glance

MONDAY, 5 <sup>th</sup> OCTOBER		
8:00 – 17:00	Registration	
10:00 – 12:00	Opening Session - Amphitheatre	
12:00 – 13:30	Lunch Break	
Hour	Amphitheatre	Poster Room I
13:30 – 15:00	Engineering Geophysics I	Seismology & Lithosphere I
15:00 – 15:30	Coffee Break	
15:30 – 17:00	Seismic, Seismic Interpretation / Oil and Gas Exploration	Seismology & Lithosphere I (cont.)
17:00 – 19:00	Walk-around in the technical exhibition	
19:00 – 21:00	Ice-breaker reception at the Congress Center	

TUESDAY, 6 <sup>th</sup> OCTOBER		
8:00 – 17:00	Registration	
Hour	Amphitheatre	Poster Room I & II
9:00 – 10:30	Environmental Geophysics I	Geoelectrical & Electromagnetics I
10:30 – 11:00	Coffee Break	
11:00 – 12:30	Seismology & Lithosphere II	Environmental Geophysics II
12:30 – 14:00	Lunch Break – Field Demonstrations	
14:00 – 15:30	Modeling & Inversion I	Gravity & Magnetics I
15:30 – 16:00	Coffee Break	
16:00 – 17:15	Ground Penetrating Radar	Marine, Hydrogeophysics, Geothermy & Well Logging
19:00 – 23:00	Conference evening gala dinner	

WEDNESDAY, 7 <sup>th</sup> OCTOBER			
8:00 – 17:00	Registration		
Hour	Amphitheatre	Room 2	Poster Room I & II
9:00 – 10:30	Gravity & Magnetics II	Marine Geophysics & Well Logging	Engineering & Environmental Geophysics
10:30 – 11:00	Coffee Break		
11:00 – 12:30	Geophysics for Historical Heritage	Geothermy & Energy	Engineering & Environmental Geophysics (cont.)
12:30 – 14:00	Lunch Break – Field Demonstrations		
14:00 – 15:30	Engineering Geophysics II		Modeling & Inversion II
15:30 – 16:00	Coffee Break		
Hour	Amphitheatre	Poster Room I	Poster Room II
16:00 – 17:00	Geoelectrical & Electromagnetics II	Ground Penetrating Radar & Magnetics	Modeling & Inversion II (cont.)

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GEOSCIENTISTS &  
ENGINEERS**

## Technical Programme

MONDAY, 5 <sup>th</sup> OCTOBER, MORNING	
Amphitheatre	
Hour	Opening Session: Petroleum Exploration in Greece
10:00 – 10:30	<i>Welcome &amp; Greeting speeches</i>
10:30 – 11:00	<p><b>New marine seismic offshore western Greece and south of Crete: Insights to the interpretation and the petroleum geology controls</b></p> <p><i>S. Bellas (Greek Ministry of Reconstruction of Production, Environment &amp; Energy, General Secretariat for Energy &amp; Raw Minerals, General Directorate for Energy, Hydrocarbons Directorate)</i></p>
11:00 – 11:30	<p><b>Unlocking the oil prospectivity of Greece; Hellenic Petroleum experience</b></p> <p><i>Y. Grigoriou (Exploration &amp; Production of Hydrocarbons, Hellenic Petroleum SA)</i></p>
11:30 – 12:00	<p><b>The Hydrocarbon E&amp;P Sector in Greece and the SE Mediterranean from the Operator's view: Projects, Opportunities and Challenges</b></p> <p><i>C. Tzimeas (Energean Oil &amp; Gas S.A.)</i></p>
12:00 – 13:30	Lunch Break

**MONDAY, 5<sup>th</sup> OCTOBER, AFTERNOON**
**Amphitheatre**

Hour	<b>Engineering Geophysics I</b> (chair: A. Basokur & D. Ioane)
13:30 – 13:45	<b>27206 Application of ERT to map earth fissures at the Valtonera area (Amyntaion, NW Greece)</b> <i>P. Tsourlos* (Aristotle University of Thessaloniki, Greece-AUTH), G. Vargemezis (AUTH) &amp; I. Fikos (AUTH)</i>
13:45 – 14:00	<b>27211 Application of Electrical Resistivity Tomography method to the mapping of explored caves and detection of possible new chambers: case studies from Greece</b> <i>G. Vargemezis* (Aristotle University of Thessaloniki), I. Fikos (Aristotle University of Thessaloniki) &amp; P. Tsourlos (Aristotle University of Thessaloniki)</i>
14:00 – 14:15	<b>27201 Geotechnical characterization of a tailing pond dam</b> <i>Zs. Pronay* (MFGI), E. Törös (MFGI), G. Taller (MFGI) &amp; P. Tildy (MFGI)</i>
14:15 – 14:30	<b>26450 Geophysical characterization of the Havuzlu landslide in Artvin Dam area, Eastern Turkey</b> <i>K. Gelisli (Karadeniz Technical University), S. Goren* (Karadeniz Technical University), H. Ersoy (Karadeniz Technical University) &amp; C. Celik (Karadeniz Technical University)</i>
14:30 – 14:45	<b>26667 Fracture system mapping using pessure probe method</b> <i>S. Szalai* (Hungarian Academy of Sciences), M. Metwaly (King Saud University), K. Szokoli (Hungarian Academy of Sciences), Á. Tóth (Eötvös Loránd University) &amp; V. Wesztergom (Hungarian Academy of Sciences)</i>
14:45 – 15:00	<b>26584 Geophysical investigation for environmental and geotechnical projects in the Lavrion technological and cultural park</b> <i>G. Apostolopoulos* (National Technical University of Athens - NTUA), A. Kallioras (NTUA), G. Amolochitis (NTUA) &amp; G. Makris (NTUA)</i>
15:00 – 15:30	Coffee Break



**MONDAY, 5<sup>th</sup> OCTOBER, AFTERNOON****Poster Room I****Seismology & Lithosphere I***(chair: A. Kilic & K. Vassileva)*

Hour	
13:30 – 13:45	<b>26677 Long term earthquake prediction in Turkey</b> <i>Y. Aydin (Karadeniz Technical University) &amp; N. Sayil* (Karadeniz Technical University)</i>
13:45 – 14:00	<b>26793 A study of the 2012 Mw5.6 earthquake aftershock sequence</b> <i>D. Solakov (NIGGG-BAS), S. Simeonova (NIGGG-BAS), P. Raykova* (NIGGG-BAS), V. Protopopova (NIGGG-BAS), I. Aleksandrova (NIGGG-BAS) &amp; M. Popova (NIGGG-BAS)</i>
14:00 – 14:15	<b>26796 Fluctuations in plates-coupling strength suggested by episodic triggering of shallow earthquakes at the Carpathians Bend</b> <i>H. Mitrofan (Institute of Geodynamics of Romanian Academy - IGRA), M.A. Anghelache (IGRA), M. Visan (IGRA) &amp; F. Chitea* (University of Bucharest)</i>
14:15 – 14:30	<b>26774 Initial stage of the project for research seismicity of Livingston Island</b> <i>L. Dimitrova* (NIGGG - BAS), G. Georgieva (SU "St. Kliment Ohridski"), R. Raykova (SU "St. Kliment Ohridski"), V. Gurev (SU "St. Kliment Ohridski"), P. Raykova (NIGGG - BAS), V. Protopopova (NIGGG - BAS) &amp; M. Popova (NIGGG - BAS)</i>
14:30 – 14:45	<b>26972 Mapping b-value in the seismogenic zones of Albania region</b> <i>R. Ormeni* (Polytechnic University of Tirana)</i>
14:45 – 15:00	<b>26753 P-wave tomography of the Western Mediterranean region and the gulf of Cadiz. Constraints on regional geodynamic models</b> <i>M.N. Beghoul* (USTHB)</i>
15:00 – 15:30	Coffee Break

**MONDAY, 5<sup>th</sup> OCTOBER, AFTERNOON**
**Amphitheatre**

Hour	<i><b>Seismic, Seismic Interpretation/Oil and Gas Exploration</b></i> <i>(chair: A.M. Popovici &amp; H. Karsli)</i>
15:30 – 15:45	<b>27105 High resolution diffraction imaging of small scale fractures in shale and carbonate reservoirs</b> <i>A.M. Popovici (Z-Terra Inc.), I. Sturzu (Z-Terra Inc.), T.J. Moser* (MGS and Z-Terra Inc.) &amp; C. Tsingas (Saudi Arabian Oil Company)</i>
15:45 – 16:00	<b>26724 Examples of multiple suppression of land seismic data</b> <i>M.H. Toshev (REXIMseis) &amp; D.H. Dabovski (REXIMseis)</i>
16:00 – 16:15	<b>26702 How many iterations are necessary for obtaining proper depth velocity model?</b> <i>M.L. Grigorova* (REXIMseis Ltd.) &amp; D.H. Dabovski (REXIMseis Ltd.)</i>
16:15 – 16:30	<b>26743 Colored inversion and acoustic model-based inversion techniques.</b> <i>T. Pindzhurova* (Reximseis Ltd.)</i>
16:30 – 16:45	<b>27204 Spectral domain local cancellation procedure of harmonic noise in seismic data</b> <i>H. Karsli* (Karadeniz Technical University) &amp; D. Dondurur (Dokuz Eylül Univ, Science and Technology Institute)</i>
16:45 – 17:00	<b>27174 The challenge of static corrections in high dune areas / Area 201 Kufra basin, Libya</b> <i>W. Elboashi* (Wintershall Libya)</i>
17:00 – 19:00	Walk-around in the technical exhibition
19:00 – 21:00	Ice-breaker reception at the Congress Center

**MONDAY, 5<sup>th</sup> OCTOBER, AFTERNOON****Poster Room I*****Seismology & Lithosphere I (cont.)****(chair: A. Kılıç & K. Vassileva)*

Hour	
15:30 – 15:45	<b>26716 Application of finite elements method in space for deformation analysis of the territory of Bulgaria</b> <i>K. Vassileva (Nat. Inst. of Geophysics, Geodesy and Geography, BAS) &amp; G. Valev* (Shumen University)</i>
15:45 – 16:00	<b>26694 Basic aspects of Albanian seismic activity during 2014</b> <i>R. Ormeni* (Polytechnic University of Tirana)</i>
16:00 – 16:15	<b>26769 Source effects of Vrancea earthquakes Vs. site effects recorded in Bucharest city, Romania</b> <i>A. Bala* (National Institute for Earth Physics), C. Arion (UTCB) &amp; D. Toma (National Institute for Earth Physics)</i>
16:15 – 16:30	<b>27212 Physically based ground motion simulation methodology and validation with mid-sized Marmara Sea earthquakes</b> <i>A.M. Mert* (Kandilli Observatory Earthquake Research Inst), Y.F. Fahjan (Gebze Technical University) &amp; L.H. Hutchings (Lawrence Berkeley National Laboratory)</i>
16:30 – 16:45	<b>27259 Recognition and restoration of shelf in the Bay of Vlora</b> <i>M. Bonjako, (University Pavaresia of Albania), S. Bonjako* (National Agency of Natural Resources, Albania) &amp; S. Dhima (Ministry of Energy and Industry, Albania)</i>
16:45 – 17:00	<b>27446 The tectonic style of carbonates in the Kurvelesi structures belt according to seismic data</b> <i>K. Jano*, (National Agency of Natural Resources, Albania), I. Gjermani (Ministry of Energy and Industry, Albania) &amp; M. Sina (Immovable Properties Registration Office, Albania)</i>
17:00 – 19:00	Walk-around in the technical exhibition
19:00 – 21:00	Ice-breaker reception at the Congress Center

**TUESDAY, 6<sup>th</sup> OCTOBER, MORNING**
**Amphitheatre**
***Environmental Geophysics I***
*(chair: K. Gelisli & M. Dobroka)*

Hour	
9:00 – 9:15	<b>26980 Study of products from neutrophilic iron bacteria by prompt gamma/neutron activation analysis and x-ray diffraction</b> <i>K. Krezhov* (Bulgarian Academy of Sciences), R. Angelova (Faculty of Biology, University of Sofia) &amp; I. Sziklai-Laszlo (Hungarian Academy of Sciences)</i>
9:15 – 9:30	<b>27176 Subsurface structure of Tympaki basin (Crete, Greece) based on well and geophysical data</b> <i>G. Panagopoulos* (Energean Oil &amp; Gas), E. Manoutsoglou (Technical University of Crete - TUC), A. Vafidis (TUC), P. Soupios (Technological Educational Institute of Crete) &amp; S. Bellas (Ministry of Reconstruction of Production, Environment)</i>
9:30 – 9:45	<b>27441 Two dimensional joint inversion of seismic refraction, radiomagnetotelluric and DC resistivity data: an example from Bafra plain, Turkey</b> <i>M.E. Candansayar* (Ankara University), I. Demirci (Ankara University), A. Vafidis (Technical University of Crete - TUC), P. Soupios (Technological Educational Institute of Crete), N. Economou (TUC), N. Andronikidis (TUC), H. Arslan (Ondokuz Mayıs University)</i>
9:45 – 10:00	<b>27005 Remote sensing techniques in soil degradation detection</b> <i>R. Kancheva (Space Research and Technology Institute - SRTI-BAS), D. Borisova* (SRTI-BAS) &amp; G. Georgiev (SRTI-BAS)</i>
10:00–10:15	<b>26748 Tsunami modeling scenarios for some of the seismic sources in the Black Sea area, using tsunami analysis tool software</b> <i>R. Partheniu* (National Institute for Earth Physics - NIEP), M. Diaconescu (NIEP), D. Ioane (Faculty of Geology and Geophysics) &amp; A. Marmureanu (NIEP)</i>
10:15 – 10:30	
10:30 – 11:00	Coffee Break

**TUESDAY, 6<sup>th</sup> OCTOBER, MORNING****Poster Room II**

<b>Hour</b>	<b><i>Geoelectrical &amp; Electromagnetics I</i></b> <i>(chair: H. Çinar &amp; N. Papadopoulos)</i>
9:00 – 9:15	<b>26740 Utilisation of magnetotelluric sounding for geological interpretation of crustal structures (Western Carpathians)</b> <i>V. Bezák* (Geophysical Institute of SAS), J. Pek (Geophysical Institute AS CR), D. Majcin (Geophysical Institute of SAS) &amp; D. Bilčík (Geophysical Institute of SAS)</i>
9:15 – 9:30	<b>26668 Field Applicability of the g11n Configuration</b> <i>S. Szalai* (Hungarian Academy of Sciences), V. Wesztergom (MTA CSFK GGI), K. Szokoli (MTA CSFK GGI), A. Frigy (West-Hungarian University) &amp; E. Prácsr (MTA CSFK GGI)</i>
9:30 – 9:45	<b>26988 Mapping the bedrock using ERT for slope stability studies at Mavropigi lignite open pit mine, Northern Greece</b> <i>N. Andronikidis* (Technical University of Crete - TUC), G.S. Kritikakis (TUC), Z. Agioutantis (University of Kentucky), A. Vafidis (TUC), C. Steiakakis (GEOSYSTA), C. Papageorgiou (GEOSYSTA), P. Schilizzi (Public Power Corporation), P. Tsourlos (Aristotle University of Thessaloniki - AUTH) &amp; G. Vargemezis (AUTH)</i>
9:45 – 10:00	<b>27004 Preliminary results of an ERT in a vineyard in Estremoz, Portugal</b> <i>A.M. Correia* (Evora University) &amp; J. Passos (R&amp;P Business, Lda., Évora, Portugal)</i>
10:00–10:15	
10:15 – 10:30	<b>26776 Application of the DC resistivity method to landslide study; Case study - Church Ratesti</b> <i>D. Constantin* (Instiute of Geodynamic of the Romanian Academy), S. Rasvan (Instiute of Geodynamic of the Romanian Academy) &amp; P. Razvan (Instiute of Geodynamic of the Romanian Academy)</i>
10:30 – 11:00	Coffee Break

**TUESDAY, 6<sup>th</sup> OCTOBER, MORNING**
**Amphitheatre**

Hour	<b><i>Seismology and Lithosphere II</i></b> <i>(chair: S. Shanov &amp; K. Jano)</i>
11:00 – 11:15	<b>27170 Initial results from the Central Anatolian seismic experiment: Local seismicity and shear wave splitting</b> <i>N. Turkelli* (Bogazici University - BU), M. Kahraman (Bogazici University), M.U. Teoman (Bogazici University), G. Polat (Bogazici University), R. Polat (Bogazici University), D. Kalafat (Bogazici University), M. Ozer (Bogazici University) &amp; O. Cok (Bogazici University)</i>
11:15 – 11:30	<b>26739 Spatial variations of seismotectonic b and DC-values in and around the East Anatolian Fault Zone (EAFZ), Turkey</b> <i>S. Öztürk* (Gümüşhane University) &amp; M. Sari (Gümüşhane University)</i>
11:30 – 11:45	<b>26741 First result of the seismic monitoring of Mecsek mountains</b> <i>A. Csaba* (Geological and Geophysical Institute of Hungary), E. Bujdoso (Geological and Geophysical Institute of Hungary), R. Csabafi (Geological and Geophysical Institute of Hungary), E. Hegedűs (Geological and Geophysical Institute of Hungary), I. Török (Geological and Geophysical Institute of Hungary) &amp; I. Tóth (Geological and Geophysical Institute of Hungary)</i>
11:45 – 12:00	<b>26688 Earth crust movements of the territory of Bulgaria and North Greece from the results of new GPS data Processing</b> <i>K. Vassileva* (Nat. Inst. of Geophysics, Geodesy and Geography, BAS) &amp; M. Atanasova (Nat. Inst. of Geophysics, Geodesy and Geography, BAS)</i>
12:00 – 12:15	<b>26711 Crustal structure beneath Central Anatolia from receiver functions</b> <i>B. Çıvgın* (Ankara University) &amp; B. Kaypak (Ankara University)</i>
12:15 – 12:30	<b>26697 Determination of earthquake hazard parameters using different earthquakes catalogues in Izmir, Turkey</b> <i>A.N.C. Kılıç* (Suleyman Demirel University)</i>
12:30 – 14:00	Lunch Break – Field Demonstrations



<b>TUESDAY, 6<sup>th</sup> OCTOBER, MORNING</b>	
<b>Poster Room II</b>	
<b>Hour</b>	<b><i>Environmental Geophysics II</i></b> (chair: D. Borisova & F. Chitea)
11:00 – 11:15	<b>27171 Preliminary results from lab experiments on the use and sensitivity of Spectral Induced Polarization (SIP) method</b> <i>K. Gerodimou* (Technical University of Crete - TUC), P. Kirmizakis (Technological Educational Institute of Crete), P. Soupios (Technological Educational Institute) &amp; A. Vafidis (TUC)</i>
11:15 – 11:30	<b>26991 Imaging the saline/fresh water interface at Bafra, Turkey using joint inversion of seismic refraction and ERT data</b> <i>H. Hamdan (Arab Center for Engineering Studies (ACES), Dubai), E. Candansayar (Ankara University), I. Demirci (Ankara University), N. Economou (Technical University of Crete), N. Andronikidis (Technical University of Crete), H. Arslan (Ondokuz Mayıs University), P. Soupios (Technological Educational Institute of Crete) &amp; A. Vafidis* (Technical University of Crete)</i>
11:30 – 11:45	<b>27164 Application of Self- Potential (SP) method for monitoring contaminants movement</b> <i>P. Soupios* (Technological Educational Institute) &amp; M. Karaoulis (Deltares, Geology and geophysics group (TGG))</i>
11:45 – 12:00	<b>26731 Interpretation of IP measurements using an inversion based TAU-Transform method</b> <i>E. Turai (University of Miskolc), M. Dobroka* (University of Miskolc), E. Prácser (MTA CSFK Geodetic and Geophysical Institute), T. Ormos (University of Miskolc) &amp; Á. Gyulai (University of Miskolc)</i>
12:00 – 12:15	<b>27190 Investigation of roadside pollution related to traffic density by using magnetic susceptibility method</b> <i>C. Erkmen* (Dokuz Eylul University, Engineering Faculty), E. Timur (Dokuz Eylul University) &amp; C. Sari (Dokuz Eylul University)</i>
12:15 – 12:30	<b>26734 An investigation of environmental radioactivity effects of Moloz (Trabzon, Turkey) municipal waste dump site</b> <i>H. Çınar* (Karadeniz Technical University)</i>
12:30 – 14:00	Lunch Break – Field Demonstrations

**TUESDAY, 6<sup>th</sup> OCTOBER, AFTERNOON**
**Amphitheatre**

Hour	<b><i>Modeling and Inversion I</i></b> <i>(chair: M.E. Candansayar &amp; T. Bodoky)</i>
14:00 – 14:15	
14:15 – 14:30	<b>26809 Seismic coherence driven sparse mesh for CSEM inversion</b> <i>Z. Guo* (Norwegian University of Science &amp; Technology) &amp; H. Dong (Norwegian University of Science &amp; Technology)</i>
14:30 – 14:45	<b>26699 Two dimensional inversion of resistivity data by an adaptive parameterization approach</b> <i>I. Akca* (Ankara University) &amp; C. Öztürk Akca (AFAD)</i>
14:45 – 15:00	<b>27208 SYstem for Modelling and INterpreting of GRavity ANomalies (SYMINGRAN)</b> <i>Ch. Tzankov* (University of Mining and Geology)</i>
15:00 – 15:15	<b>27195 Optimization methods for least squares time migrations</b> <i>R. Guney* (Karadeniz Technical University) &amp; H. Karsli (Karadeniz Technical University)</i>
15:15 – 15:30	<b>26759 Lithosphere-asthenosphere system in the Mediterranean region in the framework of polarized plate tectonics</b> <i>R.B. Raykova* (Sofia University "St. Kliment Ohridski") &amp; G.F. Panza (University of Trieste)</i>
15:30 – 16:00	Coffee Break



**TUESDAY, 6<sup>th</sup> OCTOBER, AFTERNOON****Poster Room II**

<b>Hour</b>	<b>Gravity &amp; Magnetics I</b> (chair: G.A. Tassis & F. Dogru)
14:00 – 14:15	<b>26715 High-resolution geophysical study of Somma-Vesuvius offshore (Southern Italy)</b> <i>V. Paoletti (Università Degli Studi di Napoli Federico II), C. Marino* (Università Degli Studi di Napoli Federico II), M. Fedi (Università degli Studi di Napoli Federico II), S. Passaro (IAMC-CNR Istituto per l'Ambiente Marino Costiero) &amp; S. Tamburrino (IAMC-CNR, UOS di Capo Granitola)</i>
14:15 – 14:30	<b>26761 Determination of beam-position dependent transfer functions for tidal recording LCR gravimeters</b> <i>M. Kis* (Geological and Geophysical Institute of Hungary), A. Koppán (Geological and Geophysical Institute of Hungary), J. Benedek (Geodetic and Geophysical Institute, RCAES, HAS), G. Papp (Geodetic and Geophysical Institute, RCAES, HAS), P. Kovács (Geological and Geophysical Institute of Hungary), L. Merényi (Geological and Geophysical Institute of Hungary), E. Szűcs (Geodetic and Geophysical Institute, RCAES, HAS) &amp; G. Vadasz (Geological and Geophysical Institute of Hungary)</i>
14:30 – 14:45	<b>27159 First results of an investigation for the ionospheric conductivity variation using lunar tide</b> <i>C. Celik* (Bogazici University)</i>
14:45 – 15:00	<b>27213 Consideration about deep structure in Vrancea zone from gravity data</b> <i>N.S. Asimopolos* (Geological Institute of Romania)</i>
15:00 – 15:15	<b>27214 The impact of geomagnetic storms for the energy sector</b> <i>L. Asimopolos* (Geological Institute of Romania) &amp; N.S. Asimopolos (Geological Institute of Romania)</i>
15:15 – 15:30	<b>26706 The efficiency of vertical magnetic gradient in the discovery of archaeological</b> <i>M. ALmutairi* (KACST)</i>
15:30 – 16:00	Coffee Break

**TUESDAY, 6<sup>th</sup> OCTOBER, AFTERNOON**
**Amphitheatre**

Hour	<b>Ground Penetrating Radar</b> <i>(chair: A. Gianopoulos &amp; A.M. Coreira)</i>
16:00 – 16:15	<b>27178 Employing CEEMD for improving GPR images: A case study from a Neolithic settlement in Thessaly, Greece</b> <i>M. Manataki* (Institute Mediterranean Studies), A. Sarris (Institute for Mediterranean Studies) &amp; A. Vafidis (Technical University of Crete)</i>
16:15 – 16:30	<b>27210 Performance of a Ground Penetrating Radar antenna in heterogeneous environments</b> <i>C. Warren* (University of Edinburgh), I. Giannakis (University of Edinburgh) &amp; A. Giannopoulos (University of Edinburgh)</i>
16:30 – 16:45	<b>26998 GPR survey at the Venetian fortification walls of Chania</b> <i>N. Spanoudakis* (Technical University of Crete), A. Vafidis (Technical University of Crete) &amp; C. Bourbou (Chania Ephorate of Antiquities)</i>
16:45 – 17:00	<b>26729 Investigation of disturbance on gallery floor of Hagia Sophia museum with GPR method</b> <i>Y.C. Kurban* (Eskisehir Osmangazi University), C.C. Yalciner (Canakkale Onsekiz Mart University), E. Altunel (Eskisehir Osmangazi University), A. Buyuksarac (Bitlis Eren University), M.I. Topcu (Canakkale Onsekizmart University) &amp; E. Belce (Canakkale Onsekizmart University)</i>
17:00 – 17:15	<b>26728 Investigation of Sultana and Sultan Hamam walls at Topkapı Palace with non-destructive GPR-CX method</b> <i>C. Yalciner* (Canakkale Onsekizmart University), Y.C. Kurban (Eskisehir Osmangazi University), E. Altunel (Eskisehir Osmangazi University), A. Buyuksarac (Bitlis Eren University), M.I. Topcu (Canakkale Onsekizmart University) &amp; E. Belce (Canakkale Onsekizmart University)</i>
17:15	End of Day
19:00 – 23:00	Conference evening gala dinner

**TUESDAY, 6<sup>th</sup> OCTOBER, AFTERNOON****Poster Room I****Hour*****Marine, Hydrogeophysics, Geothermy & Well Logging****(chair: V. Radulescu & Á. Tóth)*

16:00 – 16:15	<b>26700 Bathymetric features of the Levant Basin on the basis of modern processing techniques</b> <i>E. Kokinou* (TEI Crete / GEOMAR, Helmholtz Centre for Ocean Research Kiel) &amp; H. Kopp (GEOMAR, Helmholtz Centre for Ocean Research Kiel)</i>
16:15 – 16:30	<b>26733 The use of magnetotelluric to exploration the groundwater in central of Saudi Arabia</b> <i>R. ALmutairi* (KACST), Y.A. ALmutairi (KACST), H.H.G. Alghtani (KACST), K.H.D. Aldamegh (KACST) &amp; E.S.S. Aboud (KAU)</i>
16:30 – 16:45	<b>26719 A Newton-Raphson approach for geophysical well logs interpretation in complex lithology formations</b> <i>B.M. Niculescu* (University of Bucharest) &amp; A. Negut (University of Bucharest)</i>
16:45 – 17:00	<b>27008 Thermal water sources and features of seismicity in the Elbasani Zone, Albania</b> <i>A. Shatro* (Institute of Geosciences, Energy, Water and Environment, Polytechnic University of Tirana, Albania)</i>
17:00 – 17:15	<b>26686 Anaximander mountains and deep sea mud volcanoes south of Turkey</b> <i>M. Senoz* (Dokuz Eylul University-IMST)</i>
17:15	End of Day
<b>19:00 – 23:00</b>	<b>Conference evening gala dinner</b>

**WEDNESDAY, 7<sup>th</sup> OCTOBER, MORNING**
**Amphitheatre**
**Gravity & Magnetics II**
*(chair: C.H. Tzankov & S. Demirbas)*

Hour	
9:00 – 9:15	<b>26241 An amplitude/phase approach to the interpretation of magnetic anomalies</b> <i>G.R.J. Cooper* (University of the Witwatersrand)</i>
9:15 – 9:30	<b>26259 Gravity and magnetic potential fields for the western Black Sea region – marine and on land maps with high resolution</b> <i>B.K. Rangelov* (MGU), M.S. Bayraktutan (TOU), R.S. Radichev (MGU) &amp; A.S. Kisyov (MGU)</i>
9:30 – 9:45	<b>26257 Nonlinear inverse modeling of magnetic anomalies due to thin sheets and cylinders using Occam's method</b> <i>R. Ghanati* (University of Tehran, Insitute of Geophysics), H.A. Ghari (University of Tehran, Insitute of Geophysics), M. Mirzaei (University of Arak, Faculty of Sciences) &amp; M.K. Hafizi (University of Tehran, Insitute of Geophysics)</i>
9:45 – 10:00	<b>27194 Western boundary of east european platform in Romania as interpreted on gravity and magnetic data</b> <i>D. Ioane* (University of Bucharest) &amp; I. Caragea (University of Bucharest)</i>
10:00–10:15	<b>27165 Determination of discontinuities using Bouguer gravity map of Hatay (Turkey) and its surroundings</b> <i>F. Dogru* (Dokuz Eylul University, Geophysical Engineering)</i>
10:15 – 10:30	<b>27205 Depth determination of simple shaped bodies from gravity and magnetic anomalies by using Walsh transforms</b> <i>C. Sari* (Dokuz Eylul University, Engineering Faculty), M.A. Gungor (Dokuz Eylul University) &amp; F. Uzun (Dokuz Eylul University)</i>
10:30 – 11:00	Coffee Break

**WEDNESDAY, 7<sup>th</sup> OCTOBER, MORNING****Room 2**

<b>Hour</b>	<b><i>Marine Geophysics &amp; Well Logging</i></b> <i>(chair: A. Negut &amp; E. Kokinou)</i>
9:00 – 9:15	
9:15 – 9:30	<b>27175 Imaging Folegandros basin by using seismic reflection data from a part of seismic line AEG-1</b> <i>N. Andronikidis (Technical University of Crete - TUC), M. Gialitaki* (TUC), A. Mouchou (TUC), G. Kritikakis (TUC), E. Manoutsoglou (TUC) &amp; A. Vafidis (TUC)</i>
9:30 – 9:45	<b>26730 EUXINUS - Black Sea security system - Two years of operation</b> <i>V. Radulescu* (GeoEcoMar), G. Oaie (GeoEcoMar) &amp; I. Samoila (GeoEcoMar)</i>
9:45 – 10:00	<b>26810 Drilling technology influence on boreholes quality with geophysical measurements implications</b> <i>C. Ciuperca (Weatherford International), G.T. Jackson* (Weatherford International), B.M. Niculescu (University of Bucharest, Department of Geophysics) &amp; B.M. Popina (OMV Petrom S.A. Bucharest)</i>
10:00–10:15	<b>26788 Solar influence on decadal climate cycles over Balkan Peninsula</b> <i>Ya. Chapanov (NIGGG-BAS), M. Atanasova* (NIGGG-BAS) &amp; N. Nikolova (Sofia University)</i>
10:15 – 10:30	<b>26656 To determine a place for the new production well by seismic inversion</b> <i>R. Aliev* (Azerbaijan State Oil Academy) &amp; T. Akhmedov (Azerbaijan State Oil Academy)</i>
10:30 – 11:00	Coffee Break

**WEDNESDAY, 7<sup>th</sup> OCTOBER, MORNING**
**Poster Room I**

Hour	<b>Engineering &amp; Environmental Geophysics</b> (chair: Zs. Pronay & K. Krezhov)
9:00 – 9:15	<b>26744 Determination of the amplitude values with Nakamura (H/V) method and Standard Spectral Ratio (SSR) method at Ktu Campus</b> <i>Y.B. Beker* (Gumushane University), N. Sayil (Karadeniz Technical University) &amp; Ö. Akin (Karadeniz Technical University)</i>
9:15 – 9:30	<b>27189 Determination of buildings period and vulnerability index using microtremor measurements</b> <i>E. Timur* (Dokuz Eylul University, Engineering Faculty), S. Ozicer (Bornova Municipality), C. Sari (Dokuz Eylul University) &amp; O. Uyanik (Suleyman Demirel University)</i>
9:30 – 9:45	<b>26502 Refraction and amplitude tomography based methodologies on evaluation of engineering properties of rocks - A case study</b> <i>A.E. Babacan* (Karadeniz Technical University) &amp; K. Gelisli (Karadeniz Technical University)</i>
9:45 – 10:00	<b>27203 Analysis of reliability of the microtremor method</b> <i>D. Bolbol* (Dokuz Eylul University, Engineering Faculty) &amp; E. Timur (Dokuz Eylul University)</i>
10:00–10:15	<b>27202 Relationship between quasi transfer spectrums and dynamic amplification factor</b> <i>E. Ozel* (Dokuz Eylul University IMST), Ö.C. Özdağ (Dokuz Eylul University Rectorate), M. Akgün (Dokuz Eylul University Engineering Faculty), A. Uluğ (Dokuz Eylul University IMST), E. Pamuk (Dokuz Eylul Universitesi Engineering Faculty) &amp; Y. İpek (Dokuz Eylul University Engineering Faculty)</i>
10:15 – 10:30	<b>26994 Imaging of Alpine and Post-Alpine formations using ERT at Loutsas- Remeri open pit mine, Scourta, Viotia, Greece</b> <i>A. Vafidis (Technical University of Crete - TUC), N. Andronikidis* (TUC), H. Hamdan (TUC), I. Pylotis (TUC), G. Panagopoulos (Energean Oil &amp; Gas), E. Manoutsoglou (TUC), L. Kikidis (TITAN SA) &amp; N. Botos (TITAN SA)</i>
10:30 – 11:00	Coffee Break

**WEDNESDAY, 7<sup>th</sup> OCTOBER, MORNING****Amphitheatre**

Hour	<b>Geophysics for Historical Heritage</b> (chair: C. Sari & V. Radeva )
11:00 – 11:15	<b>26839 Amalgamation of satellite remote sensing and geophysical prospection for the investigation of ancient cities: Two case studies from Demetrias and Pherai at the region of Magnesia, Thessaly, Greece</b> <i>A. Sarris* (Institute for Mediterranean Studies - IMS - FORTH), J. Donati (IMS - FORTH), T. Kalayci (IMS - FORTH), F. Simon (IMS - FORTH), M. Manataki (IMS - FORTH), C. Garcia (IMS - FORTH) &amp; G. Cantoro (IMS - FORTH)</i>
11:15 – 11:30	<b>27070 Investigating the interior of tumuli: problem setting and case studies from N. Greece</b> <i>P. Tsourlos (Aristotle University of Thessaloniki) &amp; G.N. Tsokas* (Aristotle University of Thessaloniki)</i>
11:30 – 11:45	<b>27177 Data integration in archaeological prospection: A synthetic approach</b> <i>M. Manataki* (Institute for Mediterranean Studies - IMS - FORTH), T Kalayci (IMS - FORTH), N. Papadopoulos (IMS - FORTH) &amp; A. Sarris (IMS - FORTH)</i>
11:45 – 12:00	<b>26903 Imaging of shallow underwater ancient ruins with ERT and seismic methods</b> <i>G.S. Kritikakis* (TUC), N. Papadopoulos (Institute for Mediterranean Studies – IMS - FORTH), K. Simyrdanis (IMS - FORTH) &amp; T. Theodoulou (Ephorate of Underwater Antiquities)</i>
12:00 – 12:15	<b>27167 Geophysical survey at the area of the ancient theater of Aptera</b> <i>N.S. Spanoudakis* (Technical University of Crete - TUC), A. Vafidis (TUC), A. Paganis (TUC), N. Andronikidis (TUC), N. Hatzidakis (Chania Ephorate of Antiquities) &amp; V. Niniou-Kindeli (Chania Ephorate of Antiquities)</i>
12:15 – 12:30	<b>26993 AncientCity: A new frontier in ancient greek urbanization through geoinformatics</b> <i>N.G. Papadopoulos* (IMS-FORTH), J. Donati (IMS-FORTH), G. Cantoro (IMS-FORTH) &amp; I. Moffat (IMS-FORTH)</i>
12:30 – 14:00	Lunch Break – Field Demonstrations

**WEDNESDAY, 7<sup>th</sup> OCTOBER, MORNING**
**Room 2**
**Hour**
**Geothermy & Energy**
*(chair: M.L. Grigorova & A. Ardali)*

11:00 – 11:15	<b>27207 Geothermal anomalies of gas hydrate deposit</b> <i>A. Vasilev* (Institute of Oceanology of BAS)</i>
11:15 – 11:30	<b>25816 Low enthalpy geothermal resource development in India</b> <i>S.K.S. Sharma* (Carman School)</i>
11:30 – 11:45	<b>26768 Natural discharge related geothermal evaluation of carbonate ranges, example of Transdanubian Range, Hungary</b> <i>Á. Tóth* (Eötvös Loránd University) &amp; J. Mádl-Szőnyi (Eötvös Loránd University)</i>
11:45 – 12:00	<b>26811 Pre-production pressure evaluation for geothermal purposes in the Duna-Tisza interfluve, Hungary</b> <i>S. Simon* (Eötvös Loránd University) &amp; J. Mádl-Szőnyi (Eötvös Loránd University)</i>
12:00 – 12:15	<b>26658 On the fractal behavior of the Total Organic Carbon in shale gas reservoirs with an example from the Barnett Shale (USA)</b> <i>S. Ouadfeul* (Algerian Petroleum Institute) &amp; L. Aliouane (LABOPHYT, FHC, UMBB)</i>
12:15 – 12:30	
12:30 – 14:00	Lunch Break – Field Demonstrations



**WEDNESDAY, 7<sup>th</sup> OCTOBER, MORNING**
**Poster Room I**
***Engineering & Environmental Geophysics (cont.)***
*(chair: Zs. Pronay & K. Krezhov)*

Hour	
11:00 – 11:15	<b>26814 Measuring natural radiation backgrounds for natural hazard evaluation in the aspiring Buzău Land Geopark, Romania</b> <i>R.G. Popa (Institute for Petrology and Geochemistry ETH Zurich) &amp; R. Stochici* (Institute of Geodynamics of the Romanian Academy)</i>
11:15 – 11:30	<b>26987 Remote sensing observations of the total solar eclipse and incident solar radiation</b> <i>D. Krezhova* (Space Research and Technology Institute), A. Krumov (Space Research and Technology Institute) &amp; K. Krezhov (Institute for Nuclear Research and Nuclear Energy)</i>
11:30 – 11:45	<b>26995 Numerical study of the air quality in the city of Sofia</b> <i>I. Georgieva* (NIGGG-BAS), G. Gadzhev (NIGGG - BAS), K. Ganev (NIGGG - BAS), M. Prodanova (NIMH - BAS), D. Syrakov (NIMH - BAS) &amp; N. Miloshev (NIGGG - BAS)</i>
11:45 – 12:00	<b>26738 Nonlinear dynamics of regional cyclogenesis with wind speed variations</b> <i>N.S. Erokhin (Space Research Institute - RAS), N.N. Zolnikova (Space Research Institute - RAS), L.A. Mikhailovskaya (Space Research Institute - RAS) &amp; R.S. Shkevov* (Space Research and Technology Institute - BAS)</i>
12:00 – 12:15	<b>26737 The first steps for a joint Romanian-Bulgarian regional early-warning system for marine geohazards</b> <i>N.D. Dobrev* (Geological Institute), O.V. Dimitrov (Institute of Oceanology), G.P. Nikolov (Geological Institute) &amp; K.S. Kostov (Geological Institute)</i>
12:15 – 12:30	<b>26735 A rapid mapping of Sarıççek Pluton from in-situ gamma ray measurements</b> <i>S. Altundas* (Karadeniz Technical University) &amp; H. Çınar (Karadeniz Technical University)</i>
12:30 – 14:00	Lunch Break – Field Demonstrations

**WEDNESDAY, 7<sup>th</sup> OCTOBER, AFTERNOON**
**Amphitheatre**

Hour	<b>Engineering Geophysics II</b> <i>(chair: G. Vargemezis &amp; S. Szalai)</i>
14:00 – 14:15	<b>26757 Development of an earthquake shake map routine with low cost accelerometers: Preliminary results</b> <i>G. Tanircan* (Boğaziçi University. KOERI), H. Alçık (Boğaziçi University. KOERI) &amp; Y. Kaya (The University of British Columbia)</i>
14:15 – 14:30	<b>27071 Prospection of wind farm site using geophysics</b> <i>P.S. Soupios* (Technological Educational Institute)</i>
14:30 – 14:45	<b>27209 Strong motion network in the Bodrum Peninsula, Turkey</b> <i>H. Alcik* (Bogaziçi University Kandilli Observatory &amp; ERI), G. Tanircan (Bogaziçi University Kandilli Observatory &amp; ERI), A. Korkmaz (Bogaziçi University Kandilli Observatory &amp; ERI), O. Cırag (Bogaziçi University Kandilli Observatory &amp; ERI) &amp; E. Ozdemir (Bogaziçi University Kandilli Observatory &amp; ERI)</i>
14:45 – 15:00	<b>26678 Sedimentological model of Lom Lignite Basin (North Bulgaria): Integrated use of geophysical and geological data</b> <i>M. Yaneva (Geological Institute) &amp; S.B. Shanov* (Bulgarian Geophysical Society)</i>
15:00 – 15:15	<b>27000 Application of machine learning method in classification of rock types in open pit mines</b> <i>H.S. Nikolov* (Space research and technology institute – BAS)</i>
15:15 – 15:30	<b>27003 Remote sensing methods in studying stone quarries</b> <i>D. Borisova* (Space Research and Technology Institute - SRTI-BAS), H. Nikolov (Space Research and Technology Institute - SRTI-BAS), D. Petkov (Space Research and Technology Institute - SRTI-BAS) &amp; B. Banushev (University of Mining and Geology)</i>
15:30 – 16:00	Coffee Break

**WEDNESDAY, 7<sup>th</sup> OCTOBER, AFTERNOON****Poster Room II**

<b>Hour</b>	<b><i>Modeling &amp; Inversion II</i></b> <i>(chair: I. Akca &amp; P. Tsourlos)</i>
14:00 – 14:15	<b>27001 Empirical background TOC model over Bulgaria</b> <i>P. Kaleyna* (NIGGG-BAS)</i>
14:15 – 14:30	<b>27188 Moho depth determination of the Adriatic Sea region using a new Bouguer anomaly database</b> <i>G.A. Tassis* (Geological Survey of Norway - NGU), C.B. Papazachos (Aristotle University of Thessaloniki), G.N. Tsokas (Aristotle University of Thessaloniki), I.N. Tziavos (Aristotle University of Thessaloniki), I. Vasiljević (University of Belgrade) &amp; A. Stampolidis (Aristotle University of Thessaloniki)</i>
14:30 – 14:45	<b>26708 Laboratory P and S wave velocity measurements to confirm the developed petrophysical model for acoustic hysteresis</b> <i>J.S. Molnar* (University of Miskolc), M. Dobroka (University of Miskolc), A. Kiss (University of Miskolc), T. Ormos (University of Miskolc), Á. Gyulai (University of Miskolc) &amp; E. Prácsér (MTA CSFK Geodetic and Geophysical Institute)</i>
14:45 – 15:00	<b>26698 Effect of pressure on compression, shear and Young's moduli</b> <i>A. Kiss (University of Miskolc), J.S. Molnar* (University of Miskolc), M. Dobroka (University of Miskolc), T. Ormos (University of Miskolc) &amp; Á. Gyulai (University of Miskolc)</i>
15:00 – 15:15	<b>26971 Anticlinal structure modeling with feed forward neural networks for residual gravity anomaly profile</b> <i>A. Eshaghzadeh* (ARAD) &amp; R.S. Kalantary (ARAD)</i>
15:15 – 15:30	<b>26749 RefPick: a GUI application to pick first arrival times and data processing on seismic refraction data</b> <i>K.H. Coban* (Karedeniz Tecnical University), M. Senkaya (Karedeniz Tecnical University) &amp; H. Karanlı (Karedeniz Tecnical University)</i>
15:30 – 16:00	Coffee Break

**WEDNESDAY, 7<sup>th</sup> OCTOBER, AFTERNOON**
**Amphitheatre**

Hour	<b><i>Geoelectrical &amp; Electromagnetics II</i></b> (chair: Z. Guo & D. Constantin)
16:00 – 16:15	<b>27168</b> Frequency-normalised impedance for the efficient data visualization in magnetotellurics <i>A.T. Basokur* (Ankara University)</i>
16:15 – 16:30	<b>27163</b> Geoelectrical and geoelectromagnetic imaging in Durusu Basin, Istanbul <i>A. Ardali* (Istanbul University), A. Gurer (Istanbul University) &amp; B. Tezkan (University Of Cologne)</i>
16:30 – 16:45	<b>27007</b> Geoelectrical exploration of mineral deposits using gradient array <i>P. Georgescu (University of Bucharest) &amp; F. Chitea* (University of Bucharest)</i>
16:45 – 17:00	<b>26802</b> Results of geoelectrical surveys in the area of Crater 70, Deception Island, Maritime Antarctica <i>A.M. Correia* (Evora University) &amp; G. Vieira (University of Lisbon)</i>
17:00 – 17:30	<b>Closing Ceremony - Awards for the best young authors</b>

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**REGION OF CRETE**  
**REGIONAL UNIT OF CHANIA**

**WEDNESDAY, 7<sup>th</sup> OCTOBER, AFTERNOON**
**Poster Room I**

Hour	<b>Ground Penetrating Radar &amp; Magnetics</b> <i>(chair: N. Spanoudakis &amp; C. Warren)</i>
16:00 – 16:15	<b>26992 A GPR study in the Roman Villa of Tourega, Portugal</b> <i>A.M. Correia* (Evora University), J.M. Maillol (Pointsource Consulting, Canada) &amp; B. Berard (University of Calgary)</i>
16:15 – 16:30	<b>26736 Investigating the geophysical characteristics of gypsum through GPR</b> <i>M.S. Sari* (Gümüşhane University) &amp; Ö.B. Bektaş (Cumhuriyet University)</i>
16:30 – 16:45	<b>26685 Mapping of the bauxite ore surface using 3D Ground Penetrating Radar data</b> <i>Y.A. Almutairi* (KACST)</i>
16:45 – 17:00	<b>27162 Determination of heavy metal contamination in Aliğa-Izmir industrial region with magnetic susceptibility measurements</b> <i>C. Sari* (Dokuz Eylul University, Engineering Faculty)</i>
17:00 – 17:30	<b>Closing Ceremony - Awards for the best young authors (Amphitheatre)</b>

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**Society of Exploration Geophysicists**
*The international society of applied geophysics*

**WEDNESDAY, 7<sup>th</sup> OCTOBER, AFTERNOON**
**Poster Room II**
**Modeling & Inversion II (cont.)**
*(chair: I. Akca & P. Tsourlos)*

Hour	
16:00 – 16:15	<b>26997 Analysis of capture and surfatron ultra-relativistic acceleration of electrons with initial relativistic energy</b> <i>N.S. Erokhin (Space Research Institute - RAS), N.S. Erokhin (People's Friendship University of Russia), R.S. Shkevov* (Space research and technology institute - BAS), N.N. Zolnikova (Space Research Institute - RAS) &amp; L.A. Mikhailovskaya (Space Research Institute - RAS)</i>
16:15 – 16:30	<b>27445 Seismic monitoring for automatic rockfall detection along transportation corridor</b> <i>N. Economou*(Technical University of Crete - TUC), G. Kritikakis (TUC), A. Tripolitsiotis (TUC), P. Partsinevelos (TUC), G. Vlachou (TUC), Z. Agioutantis (University of Kentucky) &amp; A. Vafidis (TUC)</i>
16:30 – 16:45	
16:45 – 17:00	
17:00 – 17:30	<b>Closing Ceremony - Awards for the best young authors (Amphitheatre)</b>

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## Exhibition & Sponsoring

The exhibition offers a great opportunity to network and be informed about the latest geophysical technologies. The exhibition is held at the base floor of the Cultural Center of Chania. We suggest you to have a walk around the exhibition and be informed about the latest developments in geophysical instrumentation together with meeting experts from the industry. Field demonstrations will take place by exhibitors on Tuesday and Wednesday outside the Cultural Center of Chania at 12:30-14:00.

### Opening hours

<u>Monday 5<sup>th</sup> October</u>	08:00-19:00 (exhibition)
<u>Tuesday 6<sup>th</sup> October</u>	08:00-12:30 (exhibition) 12:30-14:00 (field demonstrations) 14:00-17:15 (exhibition)
<u>Wednesday 7<sup>th</sup> October</u>	08:00-12:30 (exhibition) 12:30-14:00 (field demonstrations) 14:00-17:00 (exhibition)

### Profiles of the Exhibitors & Sponsors

#### **Advanced Geosciences Europe, S.L.**

**Booth 8**

Calle de Aire, 85, 28042, Madrid, Spain

Tel.: +34 913056477 Fax: +34 911311783

e-mail: [hasan@agiusa.com](mailto:hasan@agiusa.com) (Cont. person: Dr H. Aktarakci)

[www.agiusa.com](http://www.agiusa.com)

Advanced Geosciences, Inc. (AGI) is a high-tech manufacturer of Electrical Imaging systems since 1989 and with its European office, Advanced Geosciences Europe (AGE), located in Madrid, Spain since 2006 offer sales, rentals, seminars, free training with purchase, onsite instrument demonstrations, repair, maintenance, and technical support in English, Spanish, Turkish, Portuguese. Our Resistivity/IP systems will challenge your electrical imaging knowledge through their powerful and portable high-tech instruments for 1D, 2D, and 3D earth imaging, remote monitoring on land, aquatics and in boreholes. We are your one-stop shop for resistivity and induced polarization needs!

**Balkan Geophysical Society (BGS) & Hellenic Geophysical Union (HGU) Booth 10**

Balkan Geophysical Society

P.O.Box 30412, 100 33 Athens, Greece

Tel: +302821037643, Fax: +302821006901

Tel: +302107722195, Fax: +302107722203

[vafidis@red.tuc.gr](mailto:vafidis@red.tuc.gr), Dr A. Vafidis[gapo@metal.ntua.gr](mailto:gapo@metal.ntua.gr), Dr G. Apostolopoulos

The analytical profile of the Balkan Geophysical Society (BGS) is described in page 7.

The Hellenic Geophysical Union (H.G.U.) was founded in 1983. The expertise of the members of H.G.U. covers a wide range of geophysical scientific fields. H.G.U. is willing to maintain a leading role within the BGS and to strengthen its links with EAGE, SEG and other professional bodies.

**DMT GmbH & Co. KG****Booth 15**

45307, Am Technologiepark 1, Essen, Germany

Tel.: +49 201 172 2019 Fax: +49 201 172 1693

[Info.summit@dmf-group.com](mailto:Info.summit@dmf-group.com)[www.dmf-group.com](http://www.dmf-group.com)

DMT GmbH & Co. KG provides geophysical services and is one of the leading geophysical instrument suppliers for seismic exploration and seismological monitoring. Geophysical instruments made by DMT: - SUMMIT X One - 1 Channel exploration seismograph for high resolution seismic exploration - SUMMIT II Compact - Multi-channel seismograph for LVL and engineering seismic applications - SUMMIT II Ex - Exploration seismograph for seismic acquisition in explosion hazard areas - SUMMIT X Stream Pro - 24 channel seismograph with integrated PC and Screen for engineering applications - SUMMIT M Vipa - Three channel seismograph for vibration monitoring with an additional channel for noise monitoring [www.summit-system.de](http://www.summit-system.de).

**EAGE (European Association of Geoscientists & Engineers****Booth 13**

3990 DB, PO Box 59, Houten, The Netherlands

Tel.: +31 889955055 Fax: +31 306343524

[age@eage.org](mailto:age@eage.org), [www.eage.org](http://www.eage.org)

EAGE is a professional association for geoscientists and engineers. Founded in 1951, it is an organization with a worldwide membership (close to 19,000 members), 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. EAGE operates two divisions: the Oil & Gas Geoscience Division and the Near Surface Geoscience Division. The Head Office of EAGE is located in the Netherlands, with regional offices in Moscow, Dubai and Kuala Lumpur. The main activities of EAGE are: Events (conferences, exhibitions, workshops); Publications (journals, books); Educational Programmes (short courses, lectures); Student Programmes and Recruitment.



**Hellenic Petroleum****Sponsor**

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<http://www.helpe.gr>

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Supply, Refining and Trading of oil products, both in Greece and internationally; Fuels Marketing, both in Greece and abroad; Petrochemicals/Chemicals Production and Trading; Oil & Gas Exploration and Production; Power Generation & Trading; Renewable Energy Sources; Provision of Consulting and Engineering services; Supply, Transportation & Trading of Natural Gas.

**Georesources Technology S.A.****Booth 12**

P.O Box 1431, Perigiali 83 Str., 65201, Kavala, Greece

Tel: +30 2510 231852, Fax: +30 2510 620953

e-mail: [info@georesources.gr](mailto:info@georesources.gr)[www.georesources.gr](http://www.georesources.gr)

GEOTECH SA founded in 1993 is a diversified oilfield service Company in Greece, which throughout the time has emerged in being with significant expertise in Operations of Oil and Gas Production. Oilfield services provided by GEOTECH are: Drilling and Production of HC resources, offshore and onshore; Oilfield Services, including Wireline Logging, Slick Line Applications and Mud Logging; Geological and Geophysical Logging Services in Water wells and Geothermal Energy; Consulting services on exploration and exploitation of underground energy resources, preparation of geotechnical and environmental impact assessment. GEOTECH provides services in a very solid mode, with an in depth knowledge and commitment to deliver superior results to a variety of Clients to the upstream sector of Oil & Gas industry. Our Staff mainly consists of Petroleum Engineers and Geologists, committed to ensure an outstanding project performance. GEOTECH operates under an ISO certified Integrated Management System.

**Iris Instruments****Booth 11**

45060, 1 av. Buffon, Orleans, France

Tel.:+33-2-38-63-81-00 Fax:+33-2-38-63-81-82

[info@iris-instruments.com](mailto:info@iris-instruments.com) (Orlando Leite)[www.iris-instruments.com](http://www.iris-instruments.com)

IRIS Instruments, a BRGM and OYO group joint venture based in Orleans, France, designs, manufactures and markets a wide range of geophysical instruments for environmental, groundwater, geotechnical and mining applications: Resistivitymeters

for 1D resistivity sounding and 2D-3D imaging (SYSCAL, SYSCAL Pro types, including for marine surveys); Induced Polarisation systems for shallow and deep mining exploration (VIP and ELREC types); Magnetic Resonance Sounding (MRS) system for groundwater investigation (NUMIS type); Electro Magnetic equipment (PROMIS multi-frequency, multi-spacing system, VLF system) for lateral variation of resistivity surveys in mining and groundwater. IRIS Instruments supplies training and interpretation software for these geophysical products, in France or at customer's site.

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### **Society of Exploration Geophysicists (SEG)**

**Booth 9**

8801 S. Yale, Suite 500, Tulsa, Oklahoma 74137, USA

Tel: +1 918 497 5597

[dpressel@seg.org](mailto:dpressel@seg.org) (Diane Pressel)

[www.seg.org](http://www.seg.org)

The Society of Exploration Geophysicists is a not-for-profit organization that promotes the science of applied geophysics and the education of geophysicists. SEG, founded in 1930, fosters the expert and ethical practice of geophysics in the exploration and development of natural resources, in characterizing the near surface, and in mitigating earth hazards. The Society, which has more than 33,000 members in 138 countries, fulfills its mission through its publications, conferences, forums, Web sites, and educational opportunities.

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### **Zonge International Inc**

**Booth 14**

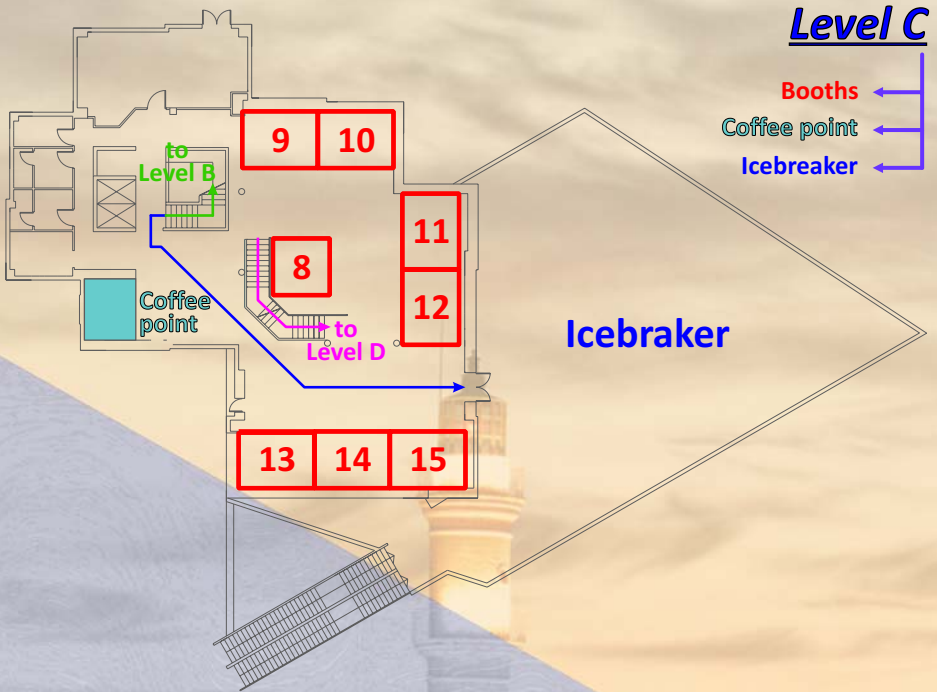
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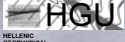



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**List of Exhibitors**

<p><b>8</b> Advanced Geosciences Europe S.L. </p>	<p><b>12</b> Georesources Technology S.A. </p>
<p><b>9</b> SEG </p>	<p><b>13</b> EAGE </p>
<p><b>10</b> BGS &amp; HGU  </p>	<p><b>14</b> Zonge International Inc </p>
<p><b>11</b> Iris Instruments </p>	<p><b>15</b> DMT GmbH &amp; Co. KG </p>



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