

EAGE

First Announcement

— 22nd —
EUROPEAN MEETING OF
ENVIRONMENTAL
AND ENGINEERING
GEOPHYSICS

— SECOND —
APPLIED SHALLOW
MARINE
GEOPHYSICS
CONFERENCE

— FIRST —
CONFERENCE ON
GEOPHYSICS
FOR MINERAL
EXPLORATION
AND MINING

NEAR SURFACE GEOSCIENCE CONFERENCE & EXHIBITION



Welcome to Barcelona!

Barcelona has been chosen to host Near Surface Geoscience 2016. The 2016 event consists of the 22nd European Meeting of Environmental and Engineering Geophysics, the second Applied Shallow Marine Geophysics Conference, and the first Conference on Geophysics for Mineral Exploration and Mining.

The conferences have their own technical programme and are aimed to attract people specialized in the conference topics, as well as people with a broader Near Surface Geoscience. The combination of conferences offers participants from different disciplines a chance to follow a technical programme specialized in their area of expertise while also being exposed to other disciplines.

Delegates will register for the conference of their interest. The registration gives them access to the technical programme of that specific conference. Moreover, they are free to also attend the technical programs of the other conferences and visit the exhibition. The social programme, consisting of a welcome reception and a conference dinner, is also included in each conference registration.

The exhibition is the central place where companies from all disciplines display their products and services. The coffee breaks and welcome reception take place at the exhibition and provide excellent networking opportunities in an informal setting.

About the Event

Near Surface Geoscience 2016 offers an extensive technical programme as well as workshops, field trips, an exhibition, and a social programme in Barcelona.

Facts

Dates	4-8 September 2016
Venue	Palau de Congressos de Catalunya
Location	Barcelona, Spain
Expected attendance	250-300
Exhibition space approx.	Approx. 225 m ²
Expected exhibitors	25

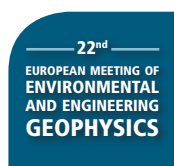
Near Surface Geoscience Overview

Near Surface Geoscience Workshops	4 September 2016
22 nd European Meeting of Environmental and Engineering Geophysics	5-7 September 2016
Second Applied Shallow Marine Geophysics Conference	5-7 September 2016
First Conference on Geophysics for Mineral Exploration and Mining	5-6 September 2016
Near Surface Geoscience Exhibition	5-7 September 2016
Near Surface Geoscience Field Trips	8 September 2016

Important Dates

Call for Papers Open	15 September 2015
Deadline Early Exhibition Rate	1 March 2016
Registration Open	1 April 2016
Deadline Call for Papers	15 April 2016
Deadline Early Registration	15 July 2016
Deadline for Registration	31 August 2016
Near Surface Geoscience 2015	4-8 September 2016





22nd European Meeting on Environmental and Engineering Geophysics

Much has changed in our science and in our profession since the meeting was last held in the “Head and Hearth of Catalonia,” the impressive cultural centre and major tourist destination that is Barcelona. Eighteen years ago in 1998, the 4th Meeting of Environmental and Engineering Geophysics was a focal point for a small but rapidly growing community of researchers and professionals with a keen interest in near-surface geophysics and its wide range of applications.

Fast forward to 2016, a new generation of geophysicists returns to Barcelona as a strong, well-established, and forward-looking division of EAGE, having attracted more than 3300 affiliated members and contributing measurably to the overall success of our Association. In particular, it is most satisfying to see the Near Surface Geoscience meeting going from strength to strength in its modern format – as we are now able to incorporate an even wider range of subjects and professional interests under the Near Surface Geoscience umbrella.

The 22nd Meeting of Environmental and Engineering Geophysics aims to showcase the state of the art in geophysical methodology; highlight the latest innovation in theory, algorithm development, data processing, modelling and interpretation; and chart out the road ahead for the future of our science. Our commercial exhibitors will present the latest achievements in geophysical equipment, technology, and services.

Local Advisory Committee

Albert Casas (<i>Chair</i>)	University of Barcelona
Beatriz Benjumea	Institut Cartogràfic i Geològic de Catalunya
Sara Figueras	Institut Cartogràfic i Geològic de Catalunya
Juanjo Ledo	University of Barcelona
Alex Marcuello	University of Barcelona
Vega Pérez	Universitat Politècnica de Catalunya
Lluís Rivero	University of Barcelona

Scientific Committee

Albert Casas (<i>Chair</i>)	University of Barcelona
Torleif Dahlin	Lund University
Alberto Godio	Politecnico Torino
Ángel Granda	International Geophysical Technology
Alfonso Muñoz	Universidad Complutense de Madrid
Pedro Martínez Pagán	Universidad Politécnica de Cartagena
Antoni Roca	Institut Cartogràfic i Geològic de Catalunya
José Félix Rubio	Instituto Geológico y Minero de España

Technical Programme

The technical programme includes a variety of oral and poster presentations on a broad selection of Near Surface Geoscience related topics. Should you wish to contribute to the technical programme, please refer to the 22nd European Meeting of Environmental and Engineering Geophysics website: www.eage.org/event/environmental-engineering-2015.

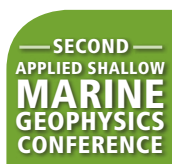
Call for Abstracts

The call for papers will open on 15 September 2015. The deadline for submitting extended abstracts is **15 April 2016**. All extended abstracts must be submitted in standard format and will be peer-reviewed before final selection by the scientific committee.

Topics

For the 22nd European Meeting of Environmental and Engineering Geophysics we will accept papers on the following topics:

- Archaeological Prospecting
- Carbon Capture and Storage
- Environmental and Geohazard Studies
- Engineering Geology and Geotechnical Investigations
- High Resolution Engineering Seismic Studies
- Hydrogeophysics
- Investigations of Landfills, Urban Areas, and Industrial Sites;
- Modelling, Inversion, and Data Processing
- Monitoring and Characterization
- New Technologies and Research Trends
- Radioactive Waste Disposal
- Slope Instabilities, Tunnel, and Dam Investigations



Second Applied Shallow Marine Geophysics Conference

Developing a detailed understanding of the shallow geology (seabed and overburden) is essential for a proper and safe assessment of site conditions for all types of fixed marine installations and infrastructure. Modern survey approaches commonly make extensive use of geophysical methods and integration with other datasets, including geotechnical and geomechanical to provide this information. Following the success of the *Applied Shallow Marine Geophysics* conference in Athens, 2014, professionals from academia, service companies, operators, and offshore energy companies will reconvene in Barcelona to further present and discuss the state of the art in characterizing the shallow overburden from coastal areas to the deep sea.

Organizing Committee

Maarten Vanneste (Chair)	Norwegian Geotechnical Institute
John Arthur	Top-Hole Site Studies
Eric Cauquil	TOTAL
Carl Fredrik Forsberg	Norwegian Geotechnical Institute
Ken Games	Gardline
Andy Hill	BP Houston
Marion Jegen-Kulcsar	GEOMAR - Helmholtz Centre for Ocean Research
Richard Salisbury	Fugro GeoConsulting
Leiv R. Stensen	STATOIL
Mark E. Vardy	National Oceanography Centre Southampton

Technical Programme

The technical programme includes a variety of oral and poster presentations on a broad selection of Shallow Marine Geophysics related topics. Should you wish to contribute to the technical programme, please refer to the second Applied Shallow Marine Geophysics Conference website: www.eage.org/event/shallow-marine-2016.

Call for Abstracts

The call for papers will open on 15 September 2015. The deadline for submitting extended abstracts is **15 April 2016**. All extended abstracts must be submitted in standard format and will be peer-reviewed before final selection by the scientific committee.

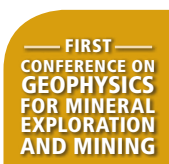
Topics

For the Second Applied Shallow Marine Geophysics Conference, we will accept papers on the following topics:

- Advances and Challenges in Geophysical Data Collection and Processing Techniques - including shallow imaging, novel seismic technologies, innovations for engineering purposes
- Non-seismic Methods - (CS)EM, gravity, magnetic (including UXO smart tools), resistivity, and integration
- Environmental Applications - including decommissioning and clean-up, leakage, injection, and deep-sea mining
- Seismic Interpretation and Integration - including the interpretation of geohazards, integration of geology, geophysics, geotechnics and geomechanics (ground modelling), seismic anomalies
- Quantitative Methods - including geophysics to rock physical models at low stresses, static vs. dynamic properties, inversion, and attenuation
- Monitoring and Overburden Integrity - including pore pressure prediction, results from time-lapse surveys, subsidence, fluid migration phenomena, leakage and drilling hazard analysis

The committee particularly encourages case studies and assessment after action reviews on as many topics as possible. In other words:

- What were the implications of the geophysical analyses for the engineering phase?
- What was overlooked or interpreted differently when the assessment revealed site conditions that deviated from predictions?
- Which specific analyses or novel approaches were utilized to get it right for complex conditions?



First Conference on Geophysics for Mineral Exploration and Mining

The First EAGE Conference on Geophysics for Mineral Exploration and Mining provides an international forum for sharing the recent advances, trending topics, and novel methods of the use of geophysical techniques in the mining industry. Although European research groups have contributed significantly to the development and application of geophysical methods, this will be the first conference with a focus on geophysics in mineral exploration and mining, organized by EAGE in Europe.

We encourage contributions from all over the world, especially those with a European focus and application. Emphasis will be placed on emerging geophysical techniques for mineral exploration, novel interpretation schemes, and challenging case studies.

The aim of the conference is to promote international cooperation on geophysical methods that lead to sustained mineral exploration and development.

Organizing Committee

Michael Zhdanov (Chair)	University of Utah/TechnoImaging LLC
Xavier Garcia (Co-chair)	CSIC - Institute of Marine Sciences
George Apostolopoulos	National Technical University of Athens
Oliver Kuras	BGS
Jean Legault	Geotech
Alireza Malehmir	Uppsala University
Kazuya Okada	Sumitomo
Louis Plolome	Spectrem
Valentina Socco	Politecnico di Torino
Michael Welch	Danish Technical University

Technical Programme

The technical programme includes a variety of oral and poster presentations on a broad selection of geophysics for mineral exploration and mining related topics. Should you wish to contribute to the technical programme, please refer to the First Conference on Geophysics for Mineral Exploration and Mining website:

www.eage.org/event/mineral-exploration-2016.

Call for Abstracts

The call for papers will open on 15 September 2015. The deadline for submitting extended abstracts is **15 April 2016**. All extended abstracts must be submitted in standard format and will be peer-reviewed before final selection by the scientific committee.

Topics

For the First Conference on Geophysics for Mineral Exploration and Mining, we will accept papers on the following topics:

- Physical Properties of Mineral Deposits and their Geophysical Signatures
- Ground and Airborne Potential Field Methods;
- Ground and Airborne EM Methods
- Hyperspectral Remote Sensing
- 3D Inversion for Mining and Mineral Exploration Methods;
- Downhole and In-Mine Geophysical Methods
- Ground and Airborne Spectral Induced Polarization Methods
- Seismic Imaging of Mineral Deposits and their Host Environment
- Emerging Geophysical Techniques for Mineral Exploration
- Joint Inversion and Integration of Multimodal Geophysical Data.
- Deep Exploration Under Cover
- Geophysical Studies of Deposits Hosting Critical Raw Materials
- Integration of Geophysics and Geochemistry
- Geophysical Monitoring of Mining Activities



Workshops and Field Trips

Near Surface Geoscience 2016 will offer workshops and field trips. The workshops are scheduled on Sunday 4 September and the field trips on Thursday 8 September 2016. More information will follow soon. Please refer to the event websites to stay updated.

Exhibition and Sponsoring

Near Surface Geoscience 2016 offers an exhibition of approximately 225 m² exhibit space (net). Together with the technical programmes, the exhibition will be held in the Palau de Congressos de Catalunya from 5-7 September 2016. Should you be interested in participating at this event as an exhibitor, please refer to the EAGE website or contact us at exhibition@eage.org.

Besides the exhibition programme Near Surface Geoscience 2016 offers a wide variety of sponsoring opportunities. As a sponsor, you will have dedicated exposure at the event. If you are interested in sponsoring this event, please refer to the EAGE website or contact us at sponsoring@eage.org.

Venue

The Near Surface Geoscience 2016 conference will be held at the Palau de Congressos de Catalunya in Barcelona.

About Barcelona

Barcelona is the capital of Catalonia and the second largest city in Spain. The city is a cosmopolitan Mediterranean city that incorporates in its urban street pattern Roman remains, medieval districts, and the most beautiful examples of Modernism and 20th century avantgarde art. Barcelona is an important cultural centre and a major tourist destination and has a rich cultural heritage. Particularly renowned are the architectural works of Antoni Gaudí and Lluís Domènech i Montaner, which have been designated UNESCO World Heritage Sites.

Contact

For more information or enquiries please visit the event websites www.eage.org/event/environmental-engineering-2016, www.eage.org/event/mineral-exploration-2016, and www.eage.org/event/shallow-marine-2016 or contact the EAGE Europe Office via nearsurface@eage.org.