

EAGE

EUROPEAN
ASSOCIATION OF
GEOSCIENTISTS &
ENGINEERS

First Announcement and Call for Papers

Near Surface
Geoscience 2013

19th
European Meeting
of
Environmental
and
Engineering Geophysics



Invitation to Near Surface Geoscience 2013



On behalf of the Local Advisory Committee and German applied geophysicists, I cordially invite you to Near Surface Geoscience 2013, the 19th European Meeting of Environmental and Engineering Geophysics to take place in Bochum from 8 - 11 September 2013.

The conference will be held in the recently refurbished conference centre of the Ruhr-Universität Bochum (RUB) overlooking the scenic Ruhr valley. Apart from its rural Southern rim inviting for leisure hikes, the city of Bochum provides a number of cultural highlights covering a spectrum from the unique experience in the mining museum's pit, educational hiking paths about the mining history of the city to the perpetual thrill of the musical "Starlight Express". At night one may enjoy the choices of bars and restaurants in the city's centrally located Bermuda triangle. Attendees and spouses wishing to explore the neighbouring cities can visit Essen with its Villa Hügel, former residence of the Krupp family, follow the route of industrial culture including World Heritage Site "Zeche Zollverein", get fancy on Königsallee, Düsseldorf's well-known shopping district, or climb the famous cathedral in Cologne. All these sites are easily accessible with short trips using public transportation.

Located in the middle of the dynamic and hospitable metropolitan area "Ruhrgebiet" RUB hosts all academic disciplines organized in 20 departments on its compact campus. RUB strives to become a leading European university of the 21st century. The academic programs uniformly offer Bachelor and Master degrees. The RUB research school is a university-wide platform for national and international graduate students from all disciplines. More than 36,000 students from 130 countries and 5,000 employees constitute the lively human face of our university. The motto of RUB is to live the notion of "universitas", a community of people driven by curiosity and the desire to learn from and teach each other.

In addition to the rich program of lectures and posters covering exciting developments in environmental and engineering geosciences, conference participants will also have the opportunity to attend a workshop devoted to the role of state-of-the-art geophysical methods in geothermal exploration and reservoir monitoring. Oral and poster sessions as well as company exhibitions will all be held in one building on a single level guaranteeing a communicative atmosphere. Companies will present their newest equipment on-site right in front of the conference centre at the top of the scenic botanical garden of the university. The garden provides a great opportunity for getting away from the hectic of a meeting at any point of the day.

Near Surface Geoscience 2013 will be an ideal opportunity to catch up with latest developments in environmental and engineering geosciences and the people behind them and to experience a unique metropolitan area at the heart of Europe. Very much looking forward to seeing you all on this occasion.

Joerg Renner

*Chairman of the Local Advisory Committee,
Near Surface Geoscience 2013*

Near Surface Geoscience Division



The Near Surface Geoscience Division committee of the EAGE invites you to participate in our "19th European Meeting of Environmental and Engineering Geophysics", which takes place in Bochum in September 2013.

It is the second time, that this conference is taking place in the facilities of the Ruhr-University of Bochum, where we met for the first time in September 2000. Since then, life in the middle west of Germany has been changing rapidly. While Bochum and its surrounding regions have been dominated by coal mining and steel production during the past centuries, the influence of these industries is decreasing rapidly and especially the coal mining sector will disappear in the near future. Thus, the ongoing process of restructuring is still establishing new hightech industries as well as modern educational and cultural institutions. Increasingly, universities and technology centres have a prominent impact on Bochum and its surroundings.

The "19th European Meeting of Environmental and Engineering Geophysics" is setup to highlight new achievements of geoscientific methods applied to the investigation of the shallow parts of the Earth and its surface, especially related to the restructuring of metropolises. Topics, which deal with the problems and challenges of a changing region like Bochum, are selected and will be highlighted during this conference. Disciplines that deal with both, the application of geophysical methods to engineering and environmental problems and to natural hazard mitigation will be integrated in the technical programme of this event. It is our responsibility, to generate, to search for and to determine appropriate techniques.

We hope that you will enjoy presenting the results of your research and show your colleagues and clients from around the globe what benefits can accrue from Geoscience intelligently applied and with data carefully gathered. Looking forward to meeting you in Bochum!

Dirk Orłowski

*Chairman of the Near Surface Geoscience Division of EAGE
2012-2013*

Welcome by the EAGE Board



On behalf of the Board of the European Association of Geoscientists and Engineers (EAGE), it is a great pleasure to extend you my personal invitation to attend and participate in our Near Surface Geoscience Division's Annual Conference & Exhibition, to be held in Bochum, Germany from 8-11 September 2013. This highly successful annual European event is now in its 19th year.

The meeting of Environmental and Engineering Geophysics disciplines has established itself as the central meeting to highlight scientific innovation and applied methods on near surface geosciences, reflecting the integration of both the application of geophysical methods for engineering and environmental problems to serve our communities.

I would like to thank the local advisory committee, reviewers, speakers, chairs, office members and sponsors, who are creating a meeting that will offer not only excellent symposia, but activities to inform, educate, enrich, and enjoy.

The EAGE Board looks forward to welcoming you to Bochum in 2013, hoping you benefit from the opportunity to share the results from your studies, technologies, as well as to listen, discuss, converse and network with your colleagues. This meeting presents also the opportunity for us to hear your ideas and comments for next Near Surface Geoscience annual event.

Gladys Gonzales

EAGE Vice President 2012-2013



Local Advisory Committee

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|----------------------------------|------------------------|
| Joerg Renner (<i>chairman</i>) | Ruhr University Bochum |
| Wolfgang Friederic | Ruhr University Bochum |
| Kasper Fischer | Ruhr University Bochum |
| Barbara Schmidt | Ruhr University Bochum |
| Mandy Duda | Ruhr University Bochum |
| Laura Fischer | Ruhr University Bochum |
| Bernd Hildebrandt | DMT GmbH&KoKG |

Scientific Committee

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|----------------------------------|------------------------|
| Joerg Renner (<i>chairman</i>) | Ruhr University Bochum |
| Andreas Kemna | University Bonn |
| Buelent Tezkan | University Cologne |
| Horst Rüter | LIAG |
| Wolfgang Friederich | Ruhr-University Bochum |
| Ugur Yaramanci | LIAG |
| Olaf Podlaha | Shell |
| Andreas Schuck | GGL |
| Charlotte Krawczyk | LIAG |
| Gunter Siddiqi | BFE |

About the Event

Near Surface Geoscience 2013 offers an extensive technical programme including workshops, field trips, an exhibition and a social programme in the centre of the Ruhr Valley, Bochum.

Facts

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| Dates | 9 - 11 September 2013 |
| Venue | Ruhr University Bochum, Veranstaltungszentrum |
| Location | Bochum, Germany |
| Expected attendance | 200 - 250 |
| Exhibition space | Approx. 200 m ² |
| Expected exhibitors | 25 |

Technical Programme

The technical programme includes several 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 our Near Surface Geoscience 2013 website at www.eage.org.

Call for Papers

The call for papers will open on 14 September 2012. The deadline for submitting extended abstracts is **15 April 2013**. We intend to have a broadly focused technical programme for Near Surface Geoscience 2013. To stimulate submissions we have listed a number of topics below, which are deliberately applica-

tion-based rather than method-based. This list is indicative rather than exclusive and the scientific committee is free to respond to the demands of the community as shown by submitted extended abstracts and formulate the final programme to reflect this. We encourage submission of extended abstracts that may lie outside the topics on the list below. As usual, all extended abstracts must be submitted in standard format and will be peer reviewed before final selection by the scientific committee.

Topics

- Airborne and Remote Sensing
- Archeological Prospection
- Borehole Geophysics
- Carbon Capture and Storage
- Characterizing and Monitoring Underground Storage Facilities
- Detection and Monitoring of Geo-Hazards and Slope Instabilities
- Environmental Geophysics, Waste Site Investigations and Pollution Characterization and Monitoring
- Exploration of Mineral Deposits
- Geophysical Investigations for Dams, Embankments and Tunnels
- Geophysical Investigations of Urban Areas, Industrial Sites and Landfills
- Geophysics in Engineering Geology and Civil Engineering
- Glacial Environments and Permafrost Characterization
- Hydrogeophysics
- Innovation in Modelling, Inversion Techniques, Data Processing, and Software Development
- Karst Geophysical Investigations
- Laboratory Studies of Soil and Rock Physics
- New Developments in EM
- New Developments in Potential Methods
- New Developments in Shallow Seismic
- New Technologies
- Shallow-water Geophysics
- Soil Mapping and Precision Agriculture
- Studies for Geothermal Sites

Workshops and Field Trips

Near Surface Geoscience 2013 will offer workshops and field trips. The workshops are scheduled on Sunday 8 September and the field trips on Thursday 12 September.



Workshops

- Geophysical Investigations of Former Mining Areas
- Geophysical Investigations for Infrastructure Projects
- Geophysics in Geothermal Exploration and Reservoir Monitoring

Field Trips

- Route Industriekultur
- Mining Museum
- Bus Tour "Capital Of Culture"
- Back to the Future: "Emscher" a River in Change

Exhibition and Sponsoring

Near Surface Geoscience 2013 offers an exhibition of approximately 200 m² exhibit space (net). The exhibition will be held in conjunction with the technical programme. 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 2013 offers a wide variety of sponsor 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.

Social Programme

The Local Advisory Committee and EAGE will organize two social events. The icebreaker reception will be held on 9 September 2013 in the exhibition area and the conference dinner will be held on the evening of 10 September 2013.

Important Dates

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| Opening Call for Papers | 14 September 2012 |
| Opening Registration | 26 March 2013 |
| Deadline for Early Rate | 01 March 2013 |
| Exhibition Space | |
| Deadline for Extended Abstract Submission | 15 April 2013 |
| Deadline for Early Registration | 15 July 2013 |
| Deadline for Registration | 26 August 2013 |
| Near Surface Geoscience 2013 | 9 - 11 September 2013 |

Contact

Should you have any additional questions, please contact the EAGE Head Office at nearsurface@eage.org or by phone via +31 88 995 5055. You can also find all the latest updates on the event on our website, www.eage.org.