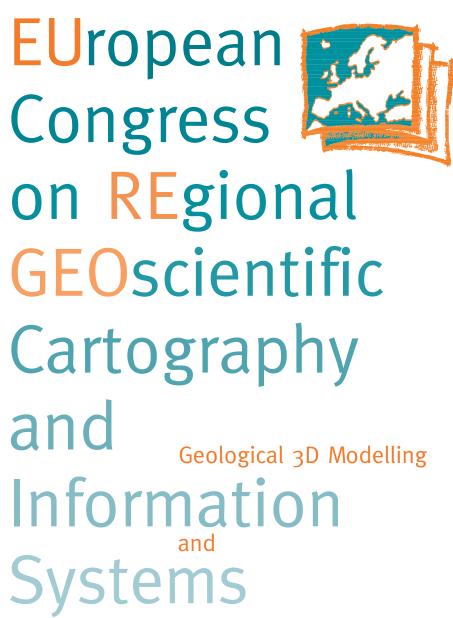






# 8th EUREGEO

Barcelona | Catalonia | Spain | june 15th - 17th 2015



Soils: functions and threats





# 8th EUropean Congress on REgional GEOscientific Cartography and Information Systems

Geological 3D Modelling and Soils: functions and threats

#### **Welcome of the Organising Committee**

The Organising Committee of the 8th European Congress on Regional Geoscientific Cartography and Information Systems (EUREGEO) is pleased to welcome you to the eight' conference which will be held in Barcelona from June 15th to 17th, 2015. It continues the dialogue started in 1994 by the European Regions of Bavaria, Catalonia and Emilia-Romagna, the Joint Research Centre (EC) and EuroGeoSurveys. Again, it shall serve as a platform for experts from regional and national geological surveys, from universities, research institutes and from the economy, building a bridge between scientific research and practical application.

If the 6th EUREGEO (Munich, 2009) contributed to the celebration of the International Year of Planet Earth, this edition supports the celebration of the International Year of Soils, declared by the General Assembly of the UN to increase awareness and importance of soil for food security and essential ecosystem functions.

Reflecting the current importance of two major applied geoscientific issues, this 8th EUREGEO congress focusses on Geological 3D modelling and on Soil functions and threats.

#### **Welcome of the Local Organizing Committee**

On behalf of the Local Organising Committee, we would like to take this opportunity to express our most warm welcome to all of you to the 8th EUREGEO at the Casa de Convalescència, in Barcelona.

The EUREGEO'2015 will bring together geoscientists and technicians from Geological Surveys, Research Centres and Academics under the themes of Geological 3D Modelling and Soils. The participation and discussion in the sessions will encourage exchange of ideas and sharing experiences among the participants. Two postcongress fieldtrips, from June 17 to June 19, 2015 to the world class geological natural laboratory of the Southern Pyrenees will allow the participants to visit and enjoy some of the most relevant geologic and pedologic features in an area famous by its spectacular exposures and landscapes.

Additionally, the delegates will have the opportunity to visit the host city, Barcelona, which is one of the favourite tourist destinations in Southern Europe. In addition to its culture and exquisite architecture, the town has much to offer to the conference delegates.

Finally, we would like to welcome you to this conference which will be a milestone event in the new stage of the Cartographic and Geologic Institute of Catalunya. We hope that you will join us for what promises to be a stimulating and rewarding experience.

#### **Scientific Program**

Oral and poster contributions will cover two themes:

Geological 3D Modelling

COORDINATOR: Gerold Diepolder (LfU)
CONVENERS: Holger Kessler (BGS), Magdalena Bottig
(GBA), Josep Anton Muñoz (UB)

Geology by nature is a three-dimensional science. 3D geological models are the obvious extension of traditional 2D geological maps into the third dimension, portraying subsurface layers, structures, and properties within a 3D volumetric space. 3D models are created by combining geological data, a sound geological interpretational knowledge and mathematical methods.

During the past decade geological surveys and academia have made considerable efforts in applying existing technologies to create 3D models for a wide range of geoscientific issues. However, the results have mainly been deployed and maintained in proprietary formats and in IT environments. With the improvement of web visualization and database tools it is now possible to interconnect and integrate proprietary models from different sources and to provide them to a wider audience of customers, even beyond the geoscientific community.

#### Topics

- Towards a transnational geo data infrastructure from isolated applications to cross-border interoperability.
- How to integrate the academic research.
- From external sources to external users: Emerging solutions to overcome technological and cultural barriers.

#### Soils: functions and threats

COORDINATOR: Luca Montanarella (JRC) CONVENERS: Ana Paya-Pérez (JRC), Panos Panagos (JRC), Rosa M. Poch (UdL)

With the aim to increase awareness and understanding of the importance of soil for food security, and its essential ecosystem functions, the 68<sup>th</sup> UN General Assembly declared 2015 the International Year of Soils (IYS) (A/RES/68/232). The Food and Agriculture Organization (FAO) of the United Nations has been nominated to implement the IYS 2015, within the framework of the Global Soil Partnership and in collaboration with Governments and the secretariat of the United Nations Convention to Combat Desertification.

#### **Topics**

#### Soil Contamination:

CONVENER: Ana Paya-Pérez (JRC)

- Diagnostics and Methodologies for assessing soil contamination.
- Technologies and case studies on restoring contaminated sites.
- Socio-economic and environmental processes in the management of contaminated sites.

#### Soil Erosion:

- CONVENER: Panos Panagos (JRC)
- Strategies to mitigate restore and manage soil erosion.
- Modelling soil erosion processes, achievements and challenges.
- Developments in map design and cartographic visualization of soil erosion.

#### Soil Mapping:

- CONVENER: Rosa M. Poch (UdL)
- Advances in digital soil mapping.
- Proximal soil sensing for precision agriculture.
- Soil quality assessment.
- Survey and mapping for soil carbon inventories.



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#### **Congress Schedule**

Monday, 15th June

**15.00 - 16.00** Registration **16.00 - 18.00** Opening Session

**18.00 - 19.00** lcebreaker

Tuesday, 16th

**08:30 - 13:00** Morning Sessions

**15:00 - 18:30** Afternoon Sessions

Wednesday, 17th

**08:30 - 13:00** Morning Sessions **13:00 - 13:30** Closing Ceremony

#### Field trips

From Wednesday 17<sup>th</sup> to Friday 19<sup>th</sup>, two optional post-congress fieldtrips are planned to the Southern Pyrenees in the spectacular Tremp area, a world class natural laboratory for Geology and Southern Pyrenean Soils.

Field trip on Regional Geology, will allow the participants to enjoy some of the most relevant structural and stratigraphic features of the Southern Pyrenees and their connection to their 3D modelling.

Field trip on Soils, will provide a unique opportunity to enjoy some of the most relevant Southern Pyrenean soil features on selected sections, showing their relations to the geological, landform and climatic parameters and their relations with the vineyards in the region.

Departure from Barcelona: Wednesday 17<sup>th</sup> of June, afternoon.

Return to Barcelona: Friday 19th of June. Arrival to the airport is scheduled at 11:00h.

#### Field trip fees

Fee for each field trip is 280 €, including guidebook, ground transportation, accommodation and meals.

Please check the Congress webpage http://www.igc.cat/euregeo2015 for detailed information.

#### **Social Dinner**

A Social Dinner is scheduled on Tuesday 16<sup>th</sup> at 20:30h. Please note that dinner registration is needed. Cost is 35 € per person.

#### **Hosted meetings**

The June 2015 Executive Committee of Eurogeosurveys will be held in Barcelona during the days of the Congress.

#### Information about contributions

Time slots for oral presentation are 15 minutes plus 5 for discussion. A permanent poster exhibition is planned from 15<sup>th</sup> to 17<sup>th</sup> of June. Participants interested on contributing with an oral or poster presentation are invited to submit their contributions before the 13<sup>th</sup> of March 2015.

Authors proposing an oral or poster presentation are requested to use the abstract template <a href="http://www.igc.cat/web/files/euregeo2015\_template.dot">http://www.igc.cat/web/files/euregeo2015\_template.dot</a>. Contributions are limited to 2 pages A4, including tables, figures and references.

#### **Publication**

**Congress Proceedings** 

After a review by the Scientific Committee, the authors will be notified on acceptance or rejection by 17<sup>th</sup> April 2015. Accepted abstracts will be published on the Congress Proceedings in pdf format under Creative Commons License (CC BY-NC-ND 4.0), and will be downloadable from the ICGC website as the official publication of the EUREGEO 2015.

#### Languages

Congress language will be English.

#### **Registration fees**

To register, please use the **on-line form** available at the **congress website**.

#### **Congress fees:**

Senior participants:

**150** € Before 29th May, 2015. **200** € After 29th May, 2015.

#### Students:

50 € Deadline for students registration, 17th April, 2015

Please note that due to the capacity of the conference rooms, student attendance will be limited to 20 Master degree, Doctoral or Postgraduate courses.

#### Congress fees include:

- Full access to the sessions.
- Congress documentation.
- Coffee breaks at the Poster exhibition area.
- Opening, Icebreaker, Closing and Farewell ceremonies.

### Field trips fee:

**280** € Deadline for fieldtrips registration is 29th May, 2015.

## **Social Dinner fee:**

**35** € per person.

#### Payment

Fees payments can be made using bank transfer or credit card (Visa, MasterCard and Eurocard).

For any queries regarding registration, contact to: Technical Secretariat

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E-mail: euregeo2015@mondial-congress.com



## 8th EUropean Congress on REgional GEOscientific Cartography and Information Systems

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#### **Deadlines**

February 2<sup>nd</sup>, 2015 Open registration and call for abstracts March 13th, 2015 Deadline for submission of abstracts April 17th, 2015 Information regarding accepted

contributions

May 29th, 2015 End of registration at reduced fee

End of field trips registration

Third circular

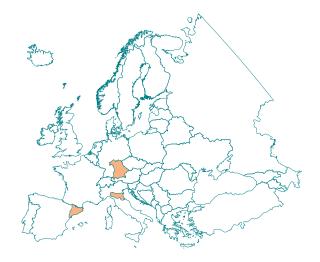
June 15th - 17th, 2015 Congress June 17<sup>th</sup> - 19<sup>th</sup>, 2015 Field trips



Freistaat Bayern







#### **Promoting Committee**

Artur Mas President of the Government of Catalonia.

Minister of Territory and Sustainability Santi Vila

of the Government of Catalonia.

Stefano Bonaccini Presidente della Regione Emilia-Romagna.

Assessore alla difesa del suolo e Paola Gazzolo

della costa, protezione civile e politiche ambientali e della montagna.

Regione Emilia-Romagna.

Horst Seehofer Bayerischer Ministerpräsident.

Baverische Staatsministerin für Umwelt **Ulrike Scharf** 

und Verbraucherschutz.

#### **Organising Committee**

Generalitat de Catalunya Antoni Roca

Xavier Berástegui Freistaat Bayern Claus Kumutat

Roland Eichhorn

Raffaele Pignone **Emilia-Romagna** 

Michela Grandi

**European Commission** Luca Montanarella

**EuroGeoSurveys** Luca Demicheli

#### **Scientific Committe**

Geological, Seismic and Soil Survey, Regione Emilia-Romagna Michela Grandi

**Roland Eichhorn** Bavarian Environment Agency. Geological Survey Xavier Berástegui Cartographic and Geological Institute of Catalonia

#### COORDINATION

GEOLOGICAL 3D MODELLING: Gerold Diepolder (Bavarian Environment Agency, LfU)

Soils: Functions and THREATS: Luca Montanarella (Joint Research Centre- European Commission; JRC)

Magdalena Bottig (Geologische Bundesanstalt Austria; GBA), Holger Kessler (British Geological Survey; BGS), Josep Anton Muñoz (University of Barcelona, Catalonia; UB), Panagiotis Panagos (Joint Research Centre-European Commission; JRC), Ana Paya Pérez (Joint Research Centre-European Commission; JRC), Rosa M. Poch (University of Lleida, Catalonia; UdL)

Casa Convalescència. Sant Antoni Mª Claret, 171 – 08041 Barcelona

#### **Local Organising Committee**