



# GEOLOGICAL BOOT CAMP

**4-9 September 2016**  
Tremp, Catalonia, Spain



**EAGE**

EUROPEAN  
ASSOCIATION OF  
GEOLOGISTS &  
ENGINEERS





## GEOLOGICAL BOOT CAMP

The Geological Boot Camp provides participants with an overview of integrated play modelling as typically used for exploration and development of georesources. Geological models of a key area in the southern Pyrenees will be constructed almost directly at an outcrop face. Most of the input data required will be measured directly at the outcrop while the remaining data will be supplied in the form of seismic sections and well logs.

The camp familiarises participants with the identification of different plays and will focus on a Cretaceous play for a PBE exercise: making play element maps of structures, a reservoir, seal and source rock as well as devising a final Cretaceous play map. In addition, participants will make a volumetric estimate of an anticline. A conceptual reservoir model will be constructed within the exposed reservoir itself.

The uncertainty of all data sets is assessed and alternative models are considered. Quality control of data versus interpretation is an integral part of the course and a strong emphasis is put on a stratigraphic correlation framework. Property modelling and volumetrics are carried out as a team exercise as team interaction is a fundamental component of this course.

Participants will translate data on a map. Source rock and charge data will be presented on the penultimate day. In their final presentation, students will explain the main exploration risks of the Tremp area and compare these with the southern prolific hydrocarbon province in France and identify the differences.

Upon completion of the course, participants will have a robust knowledge of the integrated modelling process. The difference between data and interpretation and the importance of constant quality control will be evident. Participants will have experienced the entire reservoir modelling process, hands-on.

It is a great opportunity for students and young professionals who have not been on the field and not had the opportunity to work in real situations to bring geological theory into practice together. Young Professionals will also practice their leadership skills by supervising students on the field during the Boot Camp.

Participants of the Boot Camp will be led by acknowledged experts from the industry and Professors from well-known universities. They guide the participants through several activities in the outcrop and guide them throughout the week on the several activities.

At the end of the programme, participants will not only have practical experience but also meet young professionals, other students from universities worldwide and professors and industry experts to share knowledge.

## WHEN AND WHERE ?

The 2016 Boot Camp is to be held in the town of Tremp, Catalonia, Spain. The camp is organized in collaboration with Institut Cartogràfic i Geològic de Catalunya (ICGC) and the University of Barcelona.

The Geological Boot Camp 2016 consists in several learning activities; please find below the programme:

### **4 September - Day 1:**

Arrival airport Barcelona, transportation to Tremp, Introduction on the programme.

### **5 September - Day 2:**

Hands-on in outcrop: Basin / Montsec Nappe - Building a regional setting.

### **6 September - Day 3:**

Hands-on in outcrop: Plays / Boixols Nappe - Constructing a cross section map with key play elements (reservoir/seal/charge/traps).

#### 7 September - Day 4:

Hands-on in outcrop: Play / Prospect - What are key questions/ uncertainties?

#### 8 September - Day 5:

Hands-on in outcrop: Prospect Ranking - Play & Risks, Group presentations.

#### 9 September - Day 6:

Conclusions & Recommendations, Presentations of the Best Projects. Transfer back to Barcelona or airport.

## WHO SHOULD ATTEND?

A maximum of 20 participants can be accommodated to the programme. MSc students and young technical professionals with 1-4 years industry experience are invited. Geologists, petro physicists and reservoir engineers would benefit from this programme. We welcome applicants who enjoy outdoors group work, and who recognize that geophysical fieldwork is an all-weather activity!

## HOW TO MANAGE THE SAFETY ASPECT?

To start the Geological Boot Camp, the participants have to join the mandatory HSSE briefing. In order to train participants on the safety aspects of field work and implement the "no harm to environment and people" principle. Helmets used during the Geological Boot Camp will comply to the appropriate safety standards during geological field work.

## HOW CAN MY COMPANY SUPPORT?

Sponsoring of the Geological Boot Camp 2016 gives the opportunity to expose your company logo to students and young professionals who will be the future of the geoscience industry and possible employees. It exposes your logo to project leaders, acknowledged experts and large EAGE network and Geoscience community. For you it is an opportunity to support and show your commitment to an academic project that stimulates participants to put theory into practice which will be an added value for the rest of their career.

By sending young professionals to the 2016 Boot Camp, your company automatically becomes a sponsor and this is communicated accordingly.

### Young Professional Sponsorship

Young Professional participation is considered as sponsorship to finance the Geological Boot Camp and it enables students to participate to this Boot Camp. The participation fee to attend for one young professional is at a value of €2.500.

A special discount is available if more young professionals from the same company enrol.

EAGE encourages the participation of young professionals from the industry that can also inspire a new generation of students to develop their careers in geosciences.

### Other Sponsorship Opportunities

There are more opportunities to show your commitment to the boot camp, eg. delegate bags, Boot Camp dinners, social programme, in-kind contribution. Please get in contact with the EAGE Events department to discuss possibilities. Contact details can be found at the back cover.

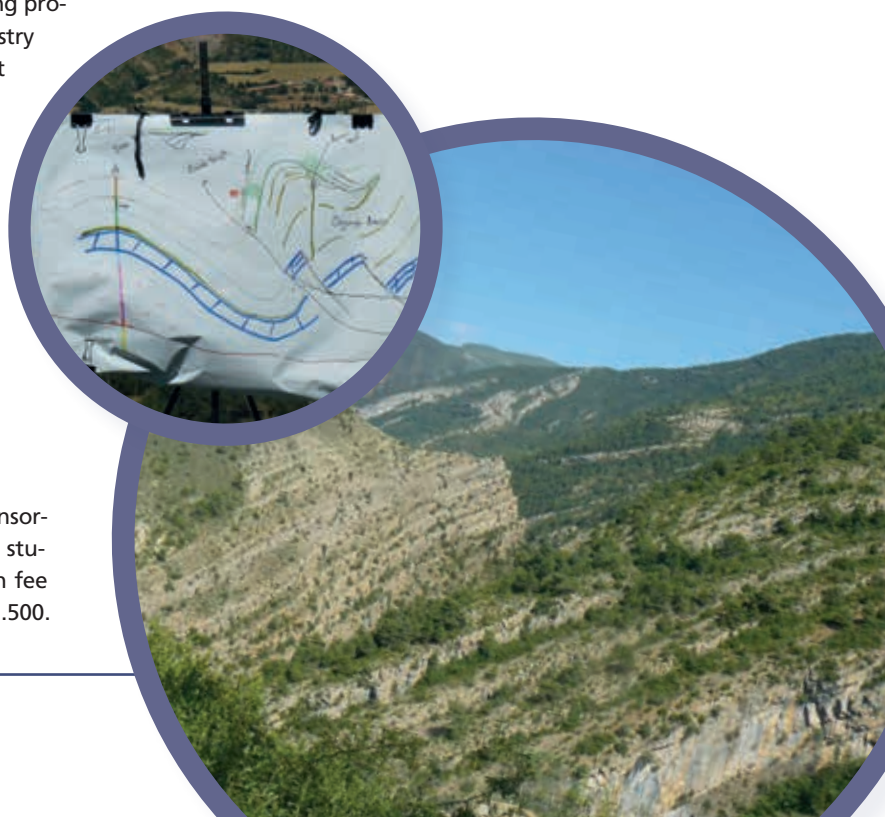
## HOW TO APPLY?

**Young Professional participation** can directly apply by sending an e-mail to [bootcamp@eage.org](mailto:bootcamp@eage.org). Alternatively you can reserve the seats for your young professionals and confirm the names at a later stage.

**Student participation** is free of charge, but living costs during the Geological Boot Camp should be covered by students or respective universities. Living costs (single week of accommodation, meals, on-site transportation) is estimated at €500. In addition students are responsible for arranging their return travel (home - Barcelona - home).

Students may apply via the Learning Geoscience website, we kindly ask you to prepare the following documents:

- Motivation letter (max. 300 words)
- Curriculum Vitae/ Resume
- Copy of your original transcript of records in English
- Optional: Letter of recommendation



#### Contact details

EAGE Events department

Tel: +31 889955055

E-mail: [bootcamp@eage.org](mailto:bootcamp@eage.org)

EAGE Geological Boot Camp 2016 is supported by



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