



**LITHOSPHERE DYNAMICS, SEDIMENTARY BASINS
AND GEOHAZARDS IN THE
ARABIAN PLATE AND SURROUNDING AREAS**

**ILP-FACULTY OF EARTH SCIENCES
KING ABDULAZIZ UNIVERSITY
JEDDAH 2014**

Following the previous successful meetings of the ILP Task Force on Sedimentary Basins held in Paris (2005), Québec (2006), Morocco (2007), Ensenada (Baja California, (2008), Abu Dhabi (2009), Tirana (2010), Cape Town (2011), Brisbane (2012) and Marseille 2013 the 2014 -workshop of this task force will take place in Jeddah, Saudi Arabia from 16-20 November 2014.

The conference presentations and discussions will be held on 16-18 November at the University King Abdulaziz and hosted by the Faculty of Earth Sciences, with a two-days post-conference field trip (19-20 November).

Key notes dealing with important themes involving international teams are programmed covering a wide spectrum of ongoing researches both from Academic and Industry perspectives.

Organizing Committee

Faculty of Earth Sciences, King Abdulaziz University

Scientific Committee

(as on January 28)

Abdallah Sabtan (KAU)
Abdullah Al Amri (Saudi Society for Geosciences)
Ahmed Al Shanti (KAU)
Ali Sebiani (KAU)
Dominique Frizon de Lamotte (Cergy-Pontoise U.)
Dominique Janjou (BRGM, France)
Fadi Nader (IFP-Energies-Nouvelles, France)
François Guillocheau (Rennes 1 Univ., France)
François Roure (IFP-Energies Nouvelles, France)
Hassen Naji (KAU)
Jean-Claude Ringenbach (Total, France)
Livi Matenco (Utrecht Univ., the Netherlands)
Magdalena Scheck-Wenderoth (GFZ, Germany)
Mansour Al Garni (KAU)
Mourad Bedir (CERTe, Tunisia)
Mustapha Meghraoui (Strasbourg Univ., France)
Sami Khomsi (KAU)
Sierd Cloething (Utrecht Univ., the Netherlands)
Tim Pharaoh (BGS, UK)

Themes and sessions

- Basin architecture and salt tectonics
- Configuration of the crust and lithosphere
- Deformation and heat flow today and in the past
- Ongoing processes
- Geohazards
- Tectonic map of the Arabian Plate
- Basin histories, fill and behaviours
- Regional deformation features
- Structural evolution
- Volcanic activities
- Petroleum geology
- Frontier exploration
- Economic geology

Contributions linking deep and shallow processes in sedimentary basins of the Arabian peninsula plate and surrounding areas are welcomed together with works and papers dealing with Geohazards related to structural behaviour, tectonic evolution, seismicity and volcanic activity.

The Task Force on Sedimentary Basins of the International Lithosphere Programme promotes the dialogue between researchers studying the basin fill and behaviour with those investigating the deeper lithospheric structures as well as with those developing numerical and analogue experiments and modelling of processes that take place in basins. Therefore we welcome contributions analyzing the structure and physical properties of the basins as well as of their underlying crust and mantle as well as the interactions between deep earth and surface processes, i.e., thermicity, phase-transitions, fluid circulations and transfers, fluid-rock interactions as major governing factors controlling fracturation and the implications of these interactions for basin dynamics.

The Arabian plate and related areas is a region with a large variety of tectonic settings including passive, active and transform margins, exhibiting different structural styles and Basin histories. Moreover the sediment fill was additionally influenced by salt tectonics, uplifting and inversion movements and recorded by the sedimentary cover.

We particularly encourage studies that aim to decipher the superposed signals resulting from deep and shallow levels as for example influences induced by deeper lithospheric levels, by the presence of a decoupling salt layer or by migrating fluids of various compositions.

Key Note speakers

(as on January 28)

- Ahmed Al Shanti; Dominique Frizon de Lamotte;
- Fadi Nader; Francois Guillocheau; Francois Roure;
- Jean-Claude Ringenbach; Juliette Lamarche; Karim Yelles; Mustapha Meghraoui;
- Mohamed Bassiouni; Renata Schmit; Sami Khoms; Sierd Cloetingh

FIELD TRIP

Two days post-conference field trip are planned around Jeddah on the Arabian Shield, aiming to observe and outline the tectonic events and structural styles in Wadi Fatima around Jeddah on the Arabian shield and along the Red sea coast.

Key observations: Precambrian sediments, Thrust tectonics, Passive roof duplexes, Arabian shield, impact of the Oligo-Miocene opening, transcurrent faults, Oligocene-Miocene sediments.

Leaders: Abdallah Sonbol and Sami Khoms

DEADLINE FOR ABSTRACT SUBMISSION: 15 APRIL 2014

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and Francois.Roure@ifpen.fr
Inquiries and questions:
skhoms@kau.edu.sa and
Francois.Roure@ifpen.fr

A four page extended abstract with maximum two coloured figures and 12 bold Times New Roman lettering are allowed. During submission please indicate your interests in poster or oral sessions together with your interests to the participation of the field trip.

Registration

On-line registrations are mandatory.

Please register on-line

- before August 15 for the field trips,
- before September 15 for the conference at:
www.geosoc.fr/ilp2014

Fees

Prices for the conference
(not including the field trips):

- Students: 75 €
- Universities and research Institutes: 200 €
- Companies: 300 €
- Prices for the Field trip (including two days and two meals, not including the conference and without the hotel):
150 € (limited to 50 Participants)

