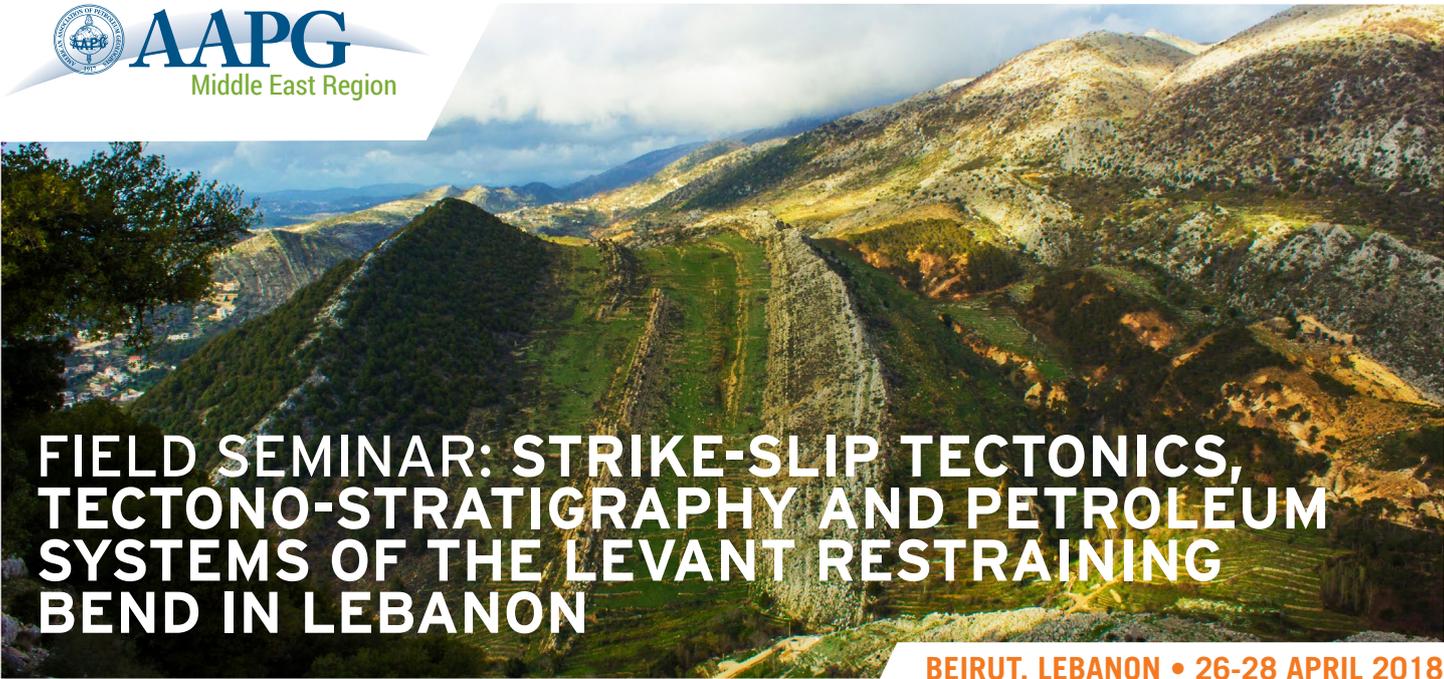




AAPG

Middle East Region



FIELD SEMINAR: STRIKE-SLIP TECTONICS, TECTONO-STRATIGRAPHY AND PETROLEUM SYSTEMS OF THE LEVANT RESTRAINING BEND IN LEBANON

BEIRUT, LEBANON • 26-28 APRIL 2018

OBJECTIVES

To learn about strike-slip faults and associated structures, their evolution, surface expression and their geomorphological impact, articulated within the geodynamic, paleogeographic and tectonostratigraphic regional framework.

ABOUT FIELDTRIP

The Levant margin is located at the intersection of the Arabian and African plates, which are separated by the Levant Fracture System (LFS). Like the San Andreas fault, the LFS ranks as one of the world's outstanding strike-slip faults. It is considered as a classical example of paired bends in which restraining and releasing bends are present along its 1000 km long path. The Lebanese central segment is a large 180 km long restraining bend marking the geology and landscape of Lebanon. It represents a classical field laboratory for the study of strike-slip tectonics and transpression. The deformation is accommodated by multiple structures and faults forming a 'braided' geometry, in which several faults accommodate part of the displacement.

In this field seminar, we will investigate on a first hand the growth and evolution of strike-slip systems by visiting key locations along the Lebanese restraining bend. This will allow having an important overview of the formation of strike-slip fault systems in general, and possessing a clear knowledge of the LFS in particular. On a second hand, we will examine the tectono-stratigraphy of Lebanon to understand the regional geology and sedimentary sequences. At the end of this field seminar, the participant will be able to assess the key challenges of the structural geology and tectono-stratigraphy of Lebanon and be exposed to the latest research on this important geologic province, in light with recent petroleum exploration activities.

ITINERARY

Day 1: General overview of the stratigraphy and geology of Lebanon with a brief description of the LFS and the regional evolution of the Levant region. We will visit northern Mount Lebanon to see the surface expression of the Yammouneh fault and examine pull-apart basins observed across the path of the LFS.

Day 2: Overview and investigation of the E-W lateral strike-slip faults in northern Lebanon by examining their surface expression, their geological history and evolution through time. In the afternoon, we will examine the interaction between the strike-slip faults and anticlines and discuss analogue examples from seismic data offshore Lebanon.

Day 3: Visit of southern Mount Lebanon to examine the along-strike structural style variation of Mount Lebanon. We will have a look at the large Niha overfold and investigate the role of transpression in the uplift of the southern segment of Mount Lebanon. We will review the structures of the Bekaa valley and reconstruct its geological evolution.

WHO SHOULD ATTEND

Geologists with an interest in strike-slip tectonics, the geology of the Levant and petroleum prospects of Lebanon.

FIELD TRIP LEADERS:

Fadi Nader, IFP Energies Nouvelles

Ramadan Ghalayini, Independent Consultant, Lebanese Petroleum Administration

REGISTRATION BROCHURE



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REGISTRATION TYPE & FEES

Rates are inclusive of field trip guides, lunch boxes and a dinner on the 26 April. Rates do not include accommodation.

Member rate \$1,050.00 Local Member rate \$650.00
Non-member rate \$1,250.00 Local Non-member rate \$850.00

PAYMENT

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American Association of Petroleum Geologists Middle Events Coordinator
Email: cnavarro@aapg.org | Tel: +971 4 372 4201 | Fax: +971 4 372 4204

Invoices must be paid within 10 days of receipt. Should your application be received six weeks prior to the commencement of the workshop, please note that we will only accept credit card payment. AAPG will refund the tuition, less a \$100 processing fee, if request is received no later than 30 days prior to the workshop. Cancellation must be made in writing. The registrar will accept cancellation notices by telephone, but all such notices must be followed up by fax or e-mail. No refund will be made for cancellations received less than 30 days prior to a workshop being given. Nonpayment of tuition does not constitute automatic cancellation. If no cancellation notice is received by 30 days prior to a workshop, participant is liable for full tuition. AAPG reserves the right to cancel a workshop if enrollment is insufficient to ensure proper effectiveness. Substitutions for individuals can be made at any time. A paid enrollment may be transferred one time to a future workshop if the request is received prior to the 30 day cut-off date. The American Association of Petroleum Geologists (AAPG) does not endorse or recommend any products and services that may be cited, used or discussed in AAPG publications or in presentations at events associated with AAPG.



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