



International Conference on Ophiolites and the Oceanic Lithosphere

Results of the Oman Drilling Project and Related Research

12th - 14th January 2020, Sultan Qaboos University, Muscat, Sultanate of Oman

<https://conferences.squ.edu.om/icool>

Objectives:

To provide a forum for discussion of the results of the Oman Drilling Project and other recent scientific research on ophiolites and the oceanic lithosphere
To encourage the exchange of knowledge, ideas and experiences, between scientists, regarding the formation and evolution of ophiolites

Conference Themes:

Results of the Oman Drilling Project
Ophiolite genesis and the oceanic lithosphere
Geodynamics and hydrothermal processes of ophiolites at spreading ridges
Chemical and physical processes within oceanic magma chambers
Formation of ore deposits related to ophiolites
CO₂ sequestration, fluids and diagenesis within the oceanic crust.
Geochemical cycles and geobiological studies related to ocean crust formation
Tectonics of emplacement and metamorphism
Hydrogeology of ophiolites
Subsurface microbial ecosystems in gabbro and peridotite

Important Dates:

1st Aug 2019: Deadline for abstract submission
15th Sep 2019: Notification of abstract acceptance
1st Oct 2019: Second Circular and Scientific Program
30th Sep 2019: Deadline for early registration
30th Nov 2019: Deadline for regular registration
11th Jan 2020: Reception 19:00 - 21:00, SQU Faculty Club
12th Jan 2020: Deadline for late registration

Registration Fees (in US dollars):

Regular participants: \$200 (early) / \$300 (regular) / \$400 (late)
Students: \$50
Accompanying person: \$200
Fees will cover conference materials, lunch, dinner, drinks and snacks during the conference



oman
drilling
project



Sultanate of Oman
Public Authority for Mining



وزارة البلديات الإقليمية وموارد المياه
Ministry of Regional Municipalities
and Water Resources



United Nations
Educational, Scientific and
Cultural Organization

Keynote Speakers:

- 1) Peter Kelemen, Columbia University, USA, "Mass transfer at the leading edge of the mantle wedge: Results from Oman Drilling Project Site BT1"
- 2) Marguerite Godard, France, "Fluid fluxes, mass transfers, carbon trapping and hydrogen production during serpentinization of the oceanic mantle lithosphere: Insights from drilling the Oman Ophiolite"
- 3) Damon Teagle, Southampton University, UK, "The impact on ocean chemistry of deep hydrothermal circulation through the lower ocean crust and upper mantle"
- 4) Mike Searle, Oxford University, UK, "Oceanic subduction initiation, ophiolite obduction and continental subduction: evidence from the Oman – UAE Ophiolite"
- 5) Juerg Matter, Southampton University, UK, "The hydrogeology of the active serpentinisation system in the Oman ophiolite"
- 6) Craig Manning, University of California, Los Angeles, USA, "Transformation of Serpentinite to Listvenite as Recorded in the Vein History of Rocks From Oman Drilling Project Hole BT1B"
- 7) Eiichi Tazazawa, Niigata University, Japan, "Petrological and geochemical diversity in mantle section revealed by comparison between northern and southern Oman ophiolite"
- 8) Juergen Koepke, University of Hannover, Germany, "Studies of Ophiolites and Oceanic Lithosphere: Results from the Oman Drilling Project and Related Research"
- 9) Katsu Michibayashi, Nagoya University, Japan "Xray-CT core imaging and its application to test a mantle flow model below a mid-ocean ridge spreading center"

Field Trips:

Pre- and post-conference field excursions will be organized. Please indicate the field trip(s) you may attend, in order of preference, on your registration form.

A: Igneous and metamorphic processes during formation and evolution of oceanic crust at spreading ridges, 11th January 2020

Excursion Guides: Peter Kelemen, Juergen Koepke and Damon Teagle. Cost: 50 OR

B: Wadi Abiad Moho–Nakhal Massif and chromite ores, 11th January 2020

Excursion Guides: Sobhi Nasir, Mohamed Al Kindi and Salah Khirbash. Costs: 50 OR

C: Accretion of the lower crust and initiation of hydrothermal cooling; locations are Samra, Wadi Wariyah, Wadi Gideah, 15th January 2020

Excursion Guide: Juergen Koepke. Costs: 50 OR

D: Deep-seated tectonic, magmatic and hydrothermal processes in a mantle diapir and in the lower oceanic crust: the Maqsad area of the Oman ophiolite, 15th January 2020

Excursion Guide: Georges Ceuleneer. Costs: 50 OR

E: Carbon mineralization and serpentinization in the Samail ophiolite, 15th -16th January 2020

Excursion Guides: Marguerite Godard, Peter Kelemen, Jürg Matter. Cost: 100 OR + accommodation

F: The Northern Oman ophiolite: Oceanic crustal succession, ocean ridge segmentation, hydrothermal system and igneous history of the Oman ophiolite, 15th-16th January 2020

Excursion Guides: Eiichi Tazazawa, Shoji Arai, Sumio Miyashita and Susumu Umino. Costs: 100 OR + accommodation

January is a wonderful time to visit Oman. Fieldtrips into the mountains can expect temperatures of 20-25°C.





Scientific Committee:

Dr. Osman Abdullah, SQU, Oman
Dr Ibrahim Al Ismaili Geological Society of Oman
Dr. Salah Al-Khirkbash, SQU, Oman
Prof. Françoise Boudier, Université de Montpellier, France
Dr. Georges Ceuleneer, CNRS, France
Dr. Issa El-Husaain, SQU, Oman
Prof. Marguerite Godard, Université de Montpellier, France
Dr. Talal Hosni, SQU, Oman
Prof. Peter Kelemen, Columbia University, USA
Prof. Juergen Koepke, Leibniz Universitaet, Germany
Dr Salim Mahruqi, Public Authority of Mining, Oman
Prof. Craig Manning, University of California, USA
Dr. Juerg Matter, University of Southampton, UK
Prof. Katsuyoshi Michibayashi, Shizuoka University, Japan
Prof. Sobhi Nasir, SQU, Oman
Prof. Adolphe Nicolas, Université de Montpellier, France
Dr. Jörg Pfänder, TU Bergakademie Freiburg, Germany
Prof. Hugh Rollinson, University of Derby, UK
Prof. Michael Searle, Oxford University, UK
Prof. Eiichi Takazawa, Niigata University, Japan
Prof. Damon Teagle, University of Southampton, UK

Organizing Committee:

Prof. Sobhi Nasir (Chair), SQU, Oman
Dr. Osman Abdulla SQU, Oman
Dr. Saleh Al-Anboory, Ministry of Oil and Gas, Oman
Dr. Talal Al-Hosni, SQU, Oman
Dr. Arshad Ali, ESRC, Oman
Dr. Rashid Al-Abri, Ministry of Regional Municipalities and Water Resources, Oman
Dr. Salah Al-Khirkbash, SQU, Oman
Dr. M. Al-Kindi, Geological Society of Oman
Dr. Ali Al-Rajhi, Public Authority of Mining, Oman
Mr. Hussam Al-Rawahi, Petroleum Development Oman
Eng. Zaher Al-Suleimani, Director, Oman Water Society
Dr. Issa El-Husaain, SQU, Oman
Dr. Rajnedran Sankaran, ESRC, Oman

VISAs and Travel to Oman:

VISAs can be offered for most European citizens online or at the airport. For information please visit:
www.rop.gov.om/english/dg_passport_visa_tourist.asp
We can assist in issuing the visa which will cost 20 OR

Accommodation:

Hotel accommodation will be arranged upon request. Hotel rates range from US\$70 to US\$300 per day. More expensive luxury hotels are also available. Limited accommodation will be available on the campus. We recommend the following hotels, which will give a special rate for the participants:
Holiday Inn Alseeb, Sundus Rotana, Golden Tulip Seeb.
Transport to the conference venue will be provided only from these hotels.
For more information please visit this website: <http://www.destinationoman.com/hotels.html>
Because Oman is extremely busy in January we kindly recommend you to book your hotel as soon as possible.

Language:

The official language of the Conference is English. There will be no simultaneous translation.

Abstracts:

A model abstract and template are provided on the website (<https://conferences.squ.edu.om/icool>). Please download the abstract template from the website, copy and paste your abstract and submit online or to sobhi@squ.edu.om. Please identify the particular conference theme into which the abstract fits.

Scientific & Social Program:

- Contributing participants will present their research in a diverse range of thematic sessions. The Program will include oral and poster presentations and field trips.
- A series of events and activities for participants and their accompanying persons will be announced in the Second Circular

Contact:

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