

GEOLOGICAL Field Trip

Tectonic Framework of Northern Pakistan
HIMALAYAS to KARAKORAM

April 20 -25, 2018

Organised by PAPG in collaboration with
The University of Peshawar



Affiliated with AAPG

PRESENTERS

Prof. Dr. M. Asif Khan (TI) | VC University of PESHAWAR

Prof. Dr. Sajjad Ahmad | University of PESHAWAR

Prof. Dr. Nawaz Choudhry | University of the PUNJAB

Assoc. Prof. Dr. Asghar Ali | University of PESHAWAR

Prof. Dr. Hafeez ur Rehman | Kagoshima university JAPAN

Asst. Prof. Dr. Sajjad Ahmad | University of PESHAWAR

Registration Details

“First Come First Served Basis”

Limited Seats are available

PAPG Member : 20,000 Pkr

Students : 15,000 Pkr

Non Members : 25,000 Pkr

Intl. Expats : 400 USD

Deadline : March 28 2018

Technical Coordinator (NORTH) PAPG

M. IRFAN KHAN

Deputy Chief Geologist

MOL Pakistan Oil & Gas Co. B.V.

Contact: 03008528367

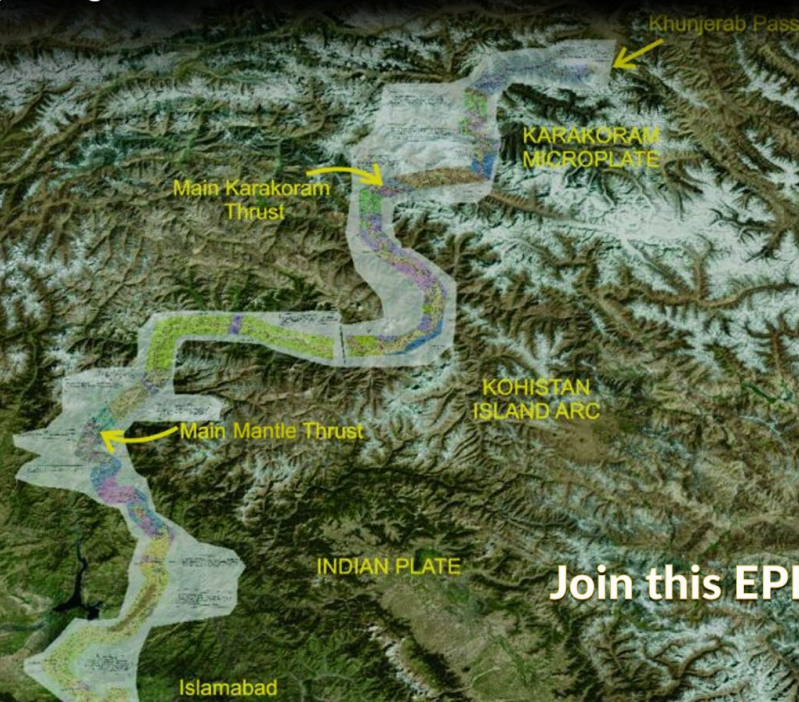
Mail to: irfan.uop.ik@gmail.com



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TRIP HIGHLIGHTS

The participants shall insight into the Sub-Himalaya, Greater Himalaya, interpolate regional faults, remnants of Neo-Tethys / Paleo-Tethys that have been respectively closed along the Main Mantle Thrust (Indus Suture Zone) and Main Karakoram Thrust, Entire Kohistan Island Arc, Main Karakoram Thrust, glaciers, lakes, Karakoram micro-plate which is the most dynamic / active plate boundaries processes, Regional shear zones, the continent ocean transitions, influence of Mantle dynamics paradigm and the role of tectonic inheritance.



Join this EPIC Adventure
papg.org.pk

Travel Programme / Plan

Tectonic Framework of Northern Pakistan

Day 01

April 20, 2018 : Islamabad - Besham

Departure : 7 AM, Islamabad

Stops at key outcrops :

Main Boundary Thrust
Tanaki Conglomerate of the Abbottabad Formation
Panjal Thrust Fault
Pre-Cambrian to Cambrian Rocks
Cambrian Mansehra Granite
Ogai Shear Zone
Thakot Shear Zone
Precambrian Besham Group Metasediments
Overnight stay at Besham

Day 02

April 21, 2018 : Besham - Chilas

Departure : 7 AM, Besham

Stops at key outcrops :

Indian Plate Basement Rocks
The Main Mantle Thrust
Jijal Complex (Tethyan ophiolites)
3 km wide high-strain active Pattan Shear Zone
Cretaceous Kamila Amphibolite
Tertiary granite, pegmatite and aplite
Cretaceous Chilas Complex
Overnight stay at Chilas

Day 03

April 22, 2018 : Chilas - Hunza

Departure : 7 AM, Chilas

Stops at key outcrops :

Cretaceous Chilas Complex
Raikot Fault
Raikot Hot Springs
Kohistan Arc Volcanics
Kohistan Batholith
Cretaceous Gilgit Formation
Rakaposhi Volcanic Complex
Main Karakoram Thrust
Overnight stay at Hunza

Day 04

April 23, 2018 : Hunza - Khunjerab

Departure : 7 AM, Hunza

Stops at key outcrops :

Precambrian Baltit Group Metasediments
Karakoram Batholith
Attabad Lake
Gulmit Glacier
Gulkin Glacier
Pasu Glacier
Carboniferous Pasu Slates
Permian Gircha Formation
Permian Kilik Formation
Jurassic to Cretaceous Gujhal Dolomite
Khunjerab Granitic Belt
Permian Misgar Slate
Khunjerab Pass
Overnight stay at Hunza

Day 05

April 24, 2018 : Hunza - Besham

Departure : 7 AM, Hunza

Stops at key outcrops :

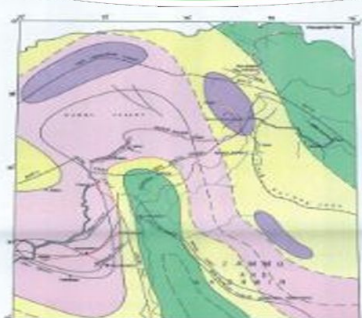
Basha Dam Site
Overnight stay at Besham

Day 06

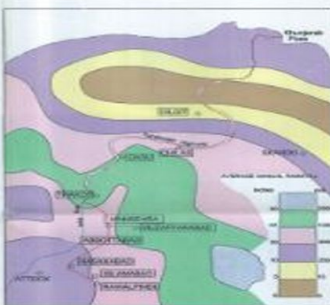
April 25, 2018 : Besham - Islamabad

Departure : 7 AM, Besham

CHILAS - KHUNJERAB PASS SECTION



SEISMIC RISK MAP OF NORTHERN PAKISTAN



MAP SHOWING THE AVERAGE EARTHQUAKE ALONG THE KARAKORAM HIGHWAY FROM ISLAMABAD TO GILGIT (M.S. Ghosh, Geological Department)



Khunjerab Pass



Khunjerab National Park



Main Karakoram Thrust



Karimabad, Hunza Nagar



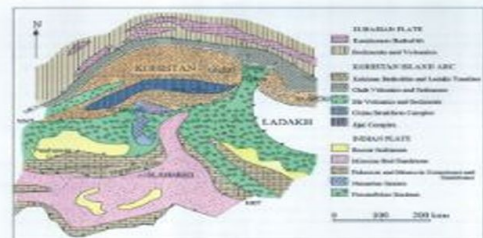
Baltit Fort, Hunza



Mylonitized Zone, Kohistan Island Arc



Kohistan Island Arc Complex



Geological map of Northern Pakistan. MBT - Main Boundary Thrust, MCKT - Main Karakoram Thrust, MBT - Main Mantle Thrust

Karakoram Micro-plate

SOFT
This soft and weakly deformed zone is situated between the Main Karakoram Thrust and the Main Boundary Thrust. It is composed of the Karakoram Micro-plate and the Kohistan Island Arc. The Karakoram Micro-plate is a tectonic plate that is bounded by the Main Karakoram Thrust to the north and the Main Boundary Thrust to the south. It is composed of the Karakoram Mountains and the Kohistan Island Arc. The Kohistan Island Arc is a tectonic arc that is bounded by the Main Boundary Thrust to the north and the Main Mantle Thrust to the south. It is composed of the Kohistan Mountains and the Kohistan Island Arc Complex.

MOUNT KARAKORAM EMBAYMENT
The Karakoram Embayment is a tectonic feature that is bounded by the Main Karakoram Thrust to the north and the Main Boundary Thrust to the south. It is composed of the Karakoram Mountains and the Kohistan Island Arc. The Karakoram Mountains are a tectonic mountain range that is bounded by the Main Karakoram Thrust to the north and the Main Boundary Thrust to the south. The Kohistan Island Arc is a tectonic arc that is bounded by the Main Boundary Thrust to the north and the Main Mantle Thrust to the south.

MAKRAHOLU BASIN
The Makraholu Basin is a tectonic basin that is bounded by the Main Karakoram Thrust to the north and the Main Boundary Thrust to the south. It is composed of the Makraholu Basin and the Kohistan Island Arc. The Makraholu Basin is a tectonic basin that is bounded by the Main Karakoram Thrust to the north and the Main Boundary Thrust to the south. The Kohistan Island Arc is a tectonic arc that is bounded by the Main Boundary Thrust to the north and the Main Mantle Thrust to the south.

KARAKORAM RUBY MINES
The Karakoram Ruby Mines are a tectonic feature that is bounded by the Main Karakoram Thrust to the north and the Main Boundary Thrust to the south. It is composed of the Karakoram Mountains and the Kohistan Island Arc. The Karakoram Mountains are a tectonic mountain range that is bounded by the Main Karakoram Thrust to the north and the Main Boundary Thrust to the south. The Kohistan Island Arc is a tectonic arc that is bounded by the Main Boundary Thrust to the north and the Main Mantle Thrust to the south.

RAKAPOSHI PEAK
The Rakaposhi Peak is a tectonic feature that is bounded by the Main Karakoram Thrust to the north and the Main Boundary Thrust to the south. It is composed of the Karakoram Mountains and the Kohistan Island Arc. The Karakoram Mountains are a tectonic mountain range that is bounded by the Main Karakoram Thrust to the north and the Main Boundary Thrust to the south. The Kohistan Island Arc is a tectonic arc that is bounded by the Main Boundary Thrust to the north and the Main Mantle Thrust to the south.

TO CHILAS
The Karakoram Micro-plate is bounded to the north by the Main Karakoram Thrust, to the south by the Main Boundary Thrust, to the east by the Kohistan Island Arc, and to the west by the Kohistan Island Arc Complex. The Kohistan Island Arc is bounded to the north by the Main Boundary Thrust, to the south by the Main Mantle Thrust, to the east by the Kohistan Island Arc Complex, and to the west by the Kohistan Island Arc Complex.

TO SHARDIA
The Kohistan Island Arc is bounded to the north by the Main Boundary Thrust, to the south by the Main Mantle Thrust, to the east by the Kohistan Island Arc Complex, and to the west by the Kohistan Island Arc Complex. The Kohistan Island Arc Complex is bounded to the north by the Main Mantle Thrust, to the south by the Main Mantle Thrust, to the east by the Kohistan Island Arc Complex, and to the west by the Kohistan Island Arc Complex.

TO ASTOR
The Kohistan Island Arc Complex is bounded to the north by the Main Mantle Thrust, to the south by the Main Mantle Thrust, to the east by the Kohistan Island Arc Complex, and to the west by the Kohistan Island Arc Complex. The Kohistan Island Arc Complex is a tectonic feature that is bounded by the Main Mantle Thrust to the north and the Main Mantle Thrust to the south. It is composed of the Kohistan Mountains and the Kohistan Island Arc Complex.

RAKAT HAT SPRINGS TETIA POINT
The Rakat Hat Springs Tetia Point is a tectonic feature that is bounded by the Main Karakoram Thrust to the north and the Main Boundary Thrust to the south. It is composed of the Karakoram Mountains and the Kohistan Island Arc. The Karakoram Mountains are a tectonic mountain range that is bounded by the Main Karakoram Thrust to the north and the Main Boundary Thrust to the south. The Kohistan Island Arc is a tectonic arc that is bounded by the Main Boundary Thrust to the north and the Main Mantle Thrust to the south.

TO CHILAS
The Karakoram Micro-plate is bounded to the north by the Main Karakoram Thrust, to the south by the Main Boundary Thrust, to the east by the Kohistan Island Arc, and to the west by the Kohistan Island Arc Complex. The Kohistan Island Arc is bounded to the north by the Main Boundary Thrust, to the south by the Main Mantle Thrust, to the east by the Kohistan Island Arc Complex, and to the west by the Kohistan Island Arc Complex.



AVERAGE EARTHQUAKE ALONG THE KARAKORAM HIGHWAY



Khunjerab National Park Wildlife



Attatabad Lake in the Karakoram

BERLA NAGAR
The Berla Nagar is a tectonic feature that is bounded by the Main Karakoram Thrust to the north and the Main Boundary Thrust to the south. It is composed of the Karakoram Mountains and the Kohistan Island Arc. The Karakoram Mountains are a tectonic mountain range that is bounded by the Main Karakoram Thrust to the north and the Main Boundary Thrust to the south. The Kohistan Island Arc is a tectonic arc that is bounded by the Main Boundary Thrust to the north and the Main Mantle Thrust to the south.



Main Karakoram Thrust tectonized rocks



Nanga Parbat Syntaxis

NANGA PARBAT
The Nanga Parbat is a tectonic feature that is bounded by the Main Karakoram Thrust to the north and the Main Boundary Thrust to the south. It is composed of the Karakoram Mountains and the Kohistan Island Arc. The Karakoram Mountains are a tectonic mountain range that is bounded by the Main Karakoram Thrust to the north and the Main Boundary Thrust to the south. The Kohistan Island Arc is a tectonic arc that is bounded by the Main Boundary Thrust to the north and the Main Mantle Thrust to the south.



Nanga Parbat Syntaxis

Registration Form

Please fill this form and send to contact person in left bar

Fee Information

"First Come First Served Basis"

PAPG Member : 20,000 Pkr
Students : 15,000 Pkr
Non Members : 25,000 Pkr
Intl. Expats : 400 USD

Registration fee includes

Hotels
Transportation
All Meals
Field Manual
& HSE Related Items

Payment Information

Mode of Payment

- Cash
- Cheque
- PayOrder

in Favour of
"Pakistan Association
of Petroleum
Geoscientists"

Online Transfer

A/C#
1739173901015860
United Bank Ltd.
Sector F-8, Islamabad, PK

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NAME		PASTE YOUR PICTURE
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COMPANY/ORGANIZATION		
ADDRESS		
CITY	POST CODE	
PHONE #	FAX #	
EMAIL ADDRESS		
PAPG/AAPG/SPE MEMBERSHIP #		
STATUS: Professional/Student		
AMOUNT		
DATED		
SIGNATURE		

For Further Information visit
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VISA Information

- * International Exparts to apply Tourist Visa (**No NOC Requirement**)
- * Visa Reference Letter will be Issued upon request from PAPG by providing complete Passport details
- * Those having business Visa, should apply for NOC to Ministry of Interior Pakistan

For Registration / Seat Reservation/ contact:

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