

INTRODUCTION

The mineral resources are considered as the backbone of economy of a country. Any effort in the exploration of these resources can bring socio-economic progress and help in achieving self-reliance. In recent years the Government of Pakistan is supportive of expansion in exploration for mineral resources, especially for base metals, gold and other precious metals. Pakistan Mineral Development Corporation (PMDC) and the Directorate General of Mines and Minerals (DGMM), Khyber Pakhtunkhwa in collaboration with Australian experts carried out stream sediments geochemical exploration for gold and base metals in the northern areas of Pakistan. In order to take this work further and identify the source rocks of gold mineralization, recently National Centre of Excellence in Geology, University of Peshawar and the Department of Earth and Atmospheric Sciences, University of Houston, are awarded a grant through Pak-US Academic and Research Collaborative program. Under this collaborative research program the faculty and students of the University of Peshawar and University of Houston USA will be using geochemical and geo-informatic tools such as Geographic Information System (GIS) and Remote Sensing (RS) for delineating the source bed rocks for gold, silver and other precious metals in the northern areas of Pakistan.

This workshop will introduce graduate students, early career faculty members, and professionals to the modern geochemical and geo-informatic tools for mineral exploration and environmental degradation studies. The workshop will have lectures on important concepts, case studies on mineral exploration in Chitral, Gilgit and Baltistan regions of Pakistan as well as hands on exercises. This workshop will provide foundation for more advanced courses next year.

TOPICS TO BE COVERED

- ❑ Present and future prospects of mineral deposits in Pakistan
- ❑ Geochemical dispersion patterns
- ❑ Geochemical surveys for mineral exploration
- ❑ Geochemical stream sediment survey in Chitral and Gilgit Baltistan Regions
- ❑ GIS and Remote Sensing studies
- ❑ Use of Geochemical and geo-informatic tools in mineral exploration and environmental degradation
- ❑ Hands-on exercises on the GIS/RS



REGISTRATION FORM

Name:

Position/Designation:

Institution/Organization:

Mailing Address:

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Telephone:

Fax:

Email:

Date:

Signature:

Nominating Authority (if any)

(Last date of submission of Registration Form is May 31, 2011)



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VENUE

Seminar Hall

National Centre of Excellence in Geology
University of Peshawar
Peshawar-2512

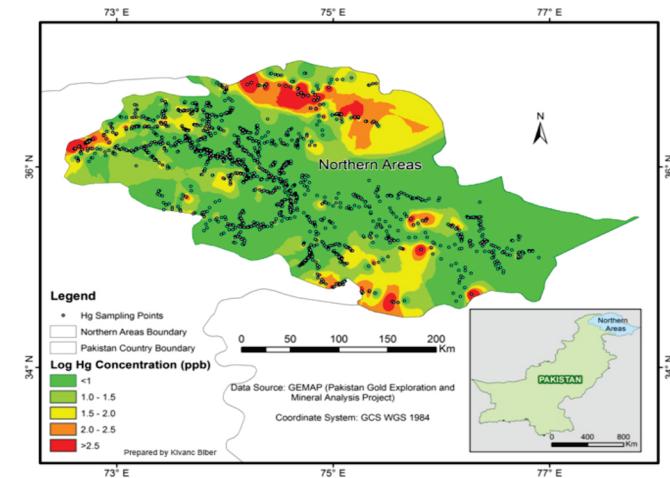
Sponsored By

Higher Education Commission of Pakistan
NCE in Geology, University of Peshawar
US Department of State

Workshop on

Geochemical and Geo-Informatic Tools for Use in Mineral Exploration & Environment Degradation

(June 02-03, 2011)



At
NCE in Geology
University of Peshawar

Organized By



National Centre of Excellence in Geology
University of Peshawar
Peshawar

WORSHOP PROGRAM

Geochemical and Geo-informatic Tools for use in Mineral Exploration and Environmental Degradation

Thursday June 2, 2011

8.30-9.00	Registration
INAUGURATION	
9:00-9.05	Welcome and purpose of the workshop (<i>Prof. Dr. M. Tahir Shah University of Peshawar</i>)
9:05-9.20	Introduction to the collaborative project (<i>Dr. Shuhab D. Khan University of Houston, USA</i>)
9:20-9.30	Opening Address (<i>Prof. Dr. Azmat Hayat Khan T.I. Vice Chancellor University of Peshawar</i>)
9:30-9:40	Vote of Thanks (<i>Prof. Dr. M. Asif Khan T.I. Director NCE in Geology, University of Peshawar</i>)
9.40-10.00	Tea Break
TECHNICAL SESSION	
10.00-11.30	Prospects of mineral deposits in Pakistan (<i>Prof. Dr. M. Tahir Shah</i>)
11.30-1.00	Geochemical survey for gold exploration in Gilgit Baltistan Region <i>Mr. Yaqoob Shah (Ex-Manager Pakistan Mineral Development Corporation)</i>
1:00-2:00	Lunch break
2:00-4.00	Geo-informatics (ArcGIS/RS) (<i>Dr. Shuhab D. Khan</i>)
4:00-4.15	Tea Break
4:15-5.00	Geochemical survey for gold exploration in Chitral Region (<i>Mr. Shakirullah Khan, Director Exploration Directorate General Mines and Minerals, Peshawar</i>)
8:30-10:00	Dinner (<i>Sponsored by the US State Department</i>)

Friday June 3, 2011

8.30-10:00	Hands on exercises – introduction to ArcGIS <i>(Dr. Shuhab D. Khan)</i>
10:00-10:15	<i>Tea Break</i>
10:15-11:15	Hands-on exercise on Remote Sensing data <i>(Dr. Shuhab D. Khan)</i>
11:15-12.30	GIS and remote sensing data presentation as maps and charts <i>(Dr. Shuhab D. Khan)</i>
12:30-2:00	<i>Jumma Break</i>
2:00-3:00	<i>Lunch Break</i>
3.00-4.00	<i>Closing and certificate distribution</i>