

## Dates and Deadlines

This workshop is scheduled to be held from October 23, 2023, to October 27, 2023. Nominate participants for this enriching training workshop until October 9, 2023. After careful selection, confirmations will be sent out by October 12, 2023.

## Venue

Human Resource Development Centre, Geoscience Advance Research Laboratories, Geological Survey of Pakistan, Park Road (Off Kurri Road), Shahzad Town, Islamabad

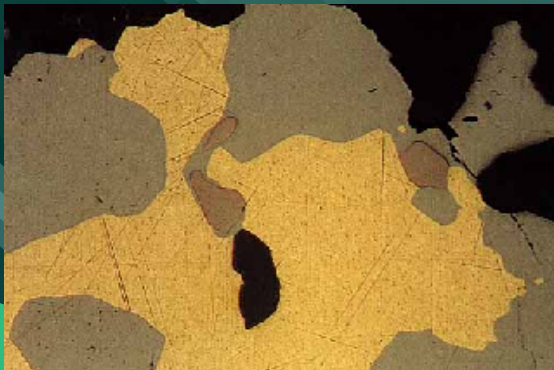
## For Queries

**Ms. Naghma Haider** (Director)

Tel: 051-9255135

Fax: 051-9255136

Email: [naghmahaider@gsp.gov.pk](mailto:naghmahaider@gsp.gov.pk)



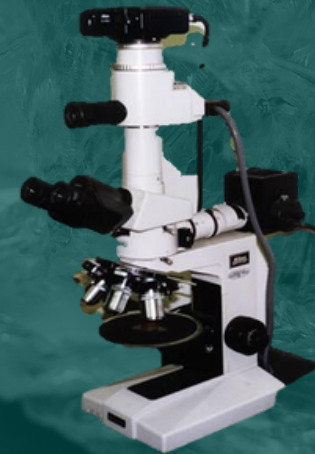
## Location



**Resource Person:**  
**Prof. Dr. Rehan-ul-Haq Siddiqui**

## 9th National Training Workshop on Ore Microscopy

23-27 October, 2023



Government of Pakistan  
Ministry of Energy (Petroleum Division)  
Geoscience Advance Research Laboratories  
Geological Survey of Pakistan  
Islamabad

## Introduction

The mineral resources are considered the backbone of the economy of any country. Their systematic exploration and development bring socio-economic progress and help in achieving self-reliance. The Geoscience Laboratory is well equipped not only with classical but also the most modern and state-of-the-art equipment used for research in the mineral sector.

Ore microscopy is one of the classical and most useful techniques to identify opaque minerals by reflected-light polarizing microscope. It has tremendous applications in the fields of mineralogy, economic geology, rock magnetism, mineral dressing, and metallurgy. It is also implied for the study of opaque minerals in igneous, metamorphic, and sedimentary rocks. The Geoscience Laboratory is well equipped with several research-type polarizing microscopes including an ore microscope, which are used for routine and advanced research.

As a part of its academic support and human resource development program, the Geological Survey of Pakistan is organizing its five days training workshop on ore microscopy.

## Scope

The main objective of this training is to provide some basic theoretical as well as practical knowledge on ore microscopy so that the participants could be able to identify the most common ore minerals and study their texture and paragenesis.

## Contents

The main topics included in this course are

- **Preparation of polished ore sections**
- **Principle and construction of reflected-light polarizing microscope**
- **Optical properties of ore minerals**
- **Common ore textures and their significance**
- **Ore para-genetic studies**

## Who Should Attend

- The course is designed for any geologist studying mineralogy but would be most useful for mineralogists, economic geologists, and metallurgists.
- Age should be in between 25-40 years.

## Course Fee:

Registration can be made by filling in and sending the attached form along with a registration fee of **Rs.20,000/-** (rupees twenty thousand only) per participant. The fee is payable in demand draft in the name of the Director Geoscience Laboratory Islamabad, drawn in any bank operating in Islamabad, which should reach before October 9, 2023.

## Registration Form

Name: \_\_\_\_\_

CNIC: \_\_\_\_\_

Date of Birth: \_\_\_\_\_

Nationality: \_\_\_\_\_

Qualification: \_\_\_\_\_

Designation: \_\_\_\_\_

Organization: \_\_\_\_\_

Postal Address: \_\_\_\_\_

Tel: \_\_\_\_\_

E-mail: \_\_\_\_\_

**Cheque/Draft No. of Registration Fee:**

Signature: \_\_\_\_\_

**Note:** Please return this form duly filled in along with the registration fee by October 9, 2023 to the address below:

**Director  
Geoscience Advance Research  
Laboratories, Geological Survey of  
Pakistan,  
Park Road (Link Kurri Road), Shahzad  
Town, Islamabad**