

The
Anthropocene
through
**DIFFERENT
LENSES**

**INTEGRATING GEOLOGICAL, ENVIRONMENTAL
AND SOCIETAL PLANETARY PERSPECTIVES
IN PAKISTAN**

📍 Ramada Hotel, Islamabad, Pakistan

WORKSHOP PROGRAMME

SESSION 1

IGCP 732 and the Anthropocene

Session Chair: Shahid Iqbal

Talk title	Presenter	Time
Introduction of IGCP 732 (Invited)	Mehwish Bibi	9:00–9:30
The Future of the Anthropocene in the Geosciences and from an Interdisciplinary Perspective (Keynote Talk)	Michael Wagreich	9:30–10:00
Anthropocene Signals in Natural Analogues of Ocean Warming and Acidification	Caroline Marie B. Jaraula	10:00–10:15
Temporal Distribution and Aging Characteristics of Buried Microplastics in Marine Sediments within the Anthropocene	Zouxia Long	10:15–10:30
Coffe/Tea Break		10:30–10:45

SESSION 2

The Geological Anthropocene

Session Chair: Veronika Koukal

Talk title	Presenter	Time
Tracing regional nuclear activities with Iodine isotopes of lake sediments in China, Austria and Pakistan	Luyuan Zhang	10:45–11:00
Case Studies Show Foraminifera Track Human Influence in Transitional Environments	Sandra Donnici	11:00–11:15
Fluvio-Deltaic Processes of the Mahakam Delta in the Anthropocene: Modern Sedimentological Evidence	Jamaluddin	11:15–11:30
Anthropocene Megastrata in the Making and Geologically Long-Lived Anthropogenic Markers	Michael Wagreich	11:30–11:45
The Stratigraphic Utility of Microplastics as Global Anthropocene Markers	Juliana A. Ivar Do Sul	11:45–12:00
Response Assessment of Poultry Waste to Heavy Metal Pollution in Agricultural Soil: Mechanisms and Anthropogenic Drivers	Zenab Tariq Baig	12:00–12:15
Lunch		12:15–13:30

**FRIDAY
14 AUGUST
2026**

**SESSION 3****Anthropocene, Archaeology, & Society****Session Chair: Michael Wagreich**

Talk title	Presenter	Time
Geological Evidence For A Chronostratigraphic Anthropocene (Keynote Talk)	Colin N. Waters	13:30-14:00
Tracing the Anthropocene in Archaeological Sites: Trace Metal Evidence of Historical Human Contamination in The Peshawar Basin, Pakistan	Shahid Iqbal	14:00-14:15
Landscape Instability and Human Settlement Dynamics in the Swat Valley	Maria Giuditta Fellin	14:15-14:30
Air Quality Dilemma in Karachi: Composition, Sources and Health Implications for Urban Centers	Muhammad Kamran Khan	14:30-14:45
The Ground in Cities: The Technogenic Approach and the Materiality of the Anthropocene	Érika Cristina NESTA Silva	14:45-15:00
Land Subsidence in Italian Coastal Plains: An Overview	Naveed Ullah	15:00-15:15
Representation of Anthropocene anxiety in Fallout: human exceptionalism, ecological collapse and posthuman futures	Sonia Salam	15:15-15:30
Coffee/Tea Break		15:30-15:45

SESSION 4**Climate change and its impacts****Session Chair: Jamaluddin**

Talk title	Presenter	Time
The Anthroposphere and Anthropocene, two separate but complementary concepts relating to significant and overwhelming human impacts on our planet (Keynote Talk)	Martin J. Head	15:45-16:15
Climate Change, Monsoon Variability, and Human-Amplified Disasters in Pakistan: An Anthropocene Perspective	Shahid Iqbal	16:15-16:30
Spatio-temporal Appraisal of Glacial Lakes, Susceptibility Assessment and Potentials of Glacial Lake Outburst Floods Under Changing Climate in the Peri-Glacial Environment of Western Himalayas	Atta-ur Rahman	16:30-16:45
Earthquake Precursor Research in the Anthropocene: Multi-Satellite Monitoring of Earth-System Interactions and Hazard Resilience	Munawar Shah	16:45-17:00
Integrated Multi-Hazard Vulnerability and Risk Assessment in the Hindu Kush Mountains of Northern Pakistan: Challenges and Way Forward	Muhammad Shafique	17:00-17:15
Concluding remarks and closing ceremony		17:15-17:30