



## International Conference on Climate Change: Impacts and Responses

8-9 March 2022, Karachi Pakistan

Organized by

**Society of Economic Geologists & Mineral Technologists (SEGMIITE)**

**Department of Geology, University of Karachi**

**Pakistan Council of Research in Water Resources (PCRWR)**

**Pakistan Science Foundation (PSF)**

In collaboration with

**Pakistan Meteorological Department (PMD)**

**Preamble:** Climate change is taking place because human activities are releasing excessive amount of Green House Gases (GHG) into the atmosphere by burning fossil fuels and through removal of forests. Presently, about 8gt. carbon is being emitted into the atmosphere from various sources including industry, agriculture, forest and land use. Nitrous oxide is released from industry, fertilizers and polluted stagnant water. Methane sources are paddy fields, animal dung and swamps, whereas sulfur dioxide is emitted mainly by chemical industries. According to the World Meteorological Organization report (2021), the average global temperature in 2020 was about 1.2°C above the pre-industrial (1850-1900) level. Under the Paris Agreement (2015), all countries agreed to limit the increase of average global temperature to 1.5°C and well below 2°C. Though at global scale, Pakistan is a small GHG emitter with 0.8% of the total global emissions, but it is one of the five worst affected countries in the world by climate change. The hottest temperature (53.7 °C) ever recorded in Pakistan (Turbat, Balochistan) in 2017 was also the maximum temperature measured in Asia, and the fourth ever highest on Earth. Whereas, second ever highest temperature of 53.5°C recorded in Pakistan (Mohenjodaro, Sindh) in 2010, was also the fifth highest temperature on Earth. The climate change triggered weather related disasters increased five folds during the last 50 years, and have hit about 40 countries in Europe, North America, Asia, Oceania and Africa in 2021. The record increase in average global temperature resulted in devastating floods, droughts, heat waves and the wildfires, which destroyed forest lands in many parts of the world including Turkey, Italy, Spain, Greece, Russia, United States and Canada.

A two-day International Conference on Climate Change is aimed to provide an opportunity to researchers, scientists, and technologists from academia and industry, and representatives from the regulatory departments, national/international NGOs to share their research work and exchange knowledge about climate change mitigation and adaptation options by reducing emissions of greenhouse gases, increasing renewable energy generation, and controlling environmental degradation. Moreover, good governance for implementing environmental laws, behavioral transformation, and public awareness are necessary steps for promoting environmental sustainability in the world by 2030.

### Key Themes

- ✓ Global Warming
- ✓ Environmental Pollution
- ✓ Climate Change Impacts on
  - Agriculture and Food Security
  - Fresh Water Resources
  - Marine Water Resources
  - Human Health
  - Aquatic Life
  - National Economy
- ✓ Renewable Energy
- ✓ Solid Waste Management
- ✓ Advanced Biofuels
- ✓ Mining /Mineral Processing Impacts on Climate Change
- ✓ Rapid Urbanization and Climate Change
- ✓ Impact of Deforestation on Climate Change
- ✓ Climate Change and Land Degradation/Desertification
- ✓ Sea Water Intrusion and Sea Level Rise
- ✓ Green Economy
- ✓ Glaciers Melting and other Hazards

### Venue

Department of Geology & HEJ Institute, University of Karachi

### Abstract Submission

Interested participants are invited to submit their Abstracts before 25<sup>th</sup> January, 2022 at [segmiteinternational@gmail.com](mailto:segmiteinternational@gmail.com)

### Registration Fee

The registration fee covers the conference material, lunches and refreshments during the event. Duly filled in registration form should be emailed at [segmiteinternational@gmail.com](mailto:segmiteinternational@gmail.com)

Category	Registration timeline	
	Until 15 Jan 2022	On-site Registration
<b>Physical</b>		
Foreign Delegates	\$100	\$125
Local participants (Public sector)	Rs. 3000	Rs. 4000
Local participants (Private sector/NGOs)	Rs. 4500	Rs. 5500

**Note: No Registration Fee for Online Speakers**  
30% concession will be given to the SEGMIITE life members

**Payment:** Registration fee may be paid by Cheques/Draft drawn in favor of SEGMIITE and sent to the Treasurer SEGMIITE: Assoc. Prof. Suhail Anjum or transfer directly to the Account # **IBAN: PK12NBPA1081004141231410** in NBP, Urdu University Branch, Karachi, Pakistan.

Papers presented (online/physical) in this Conference, will be published after peer Review in the Special Issue of International Journal of Economic and Environmental Geology (IJEEG). It is an Open access, Online HEC recognized 'Y' Category International Journal with Impact factor of 1.467, Indexed in DOAJ, ISI, ASI and Cross Ref DOI.

**International Conference on Climate Change: Impacts and Responses****March 8-9, 2022, Karachi**Physical **Registration Form**Online 

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

Affiliation: \_\_\_\_\_

Title of the paper: \_\_\_\_\_

E-mail: \_\_\_\_\_ Cell: \_\_\_\_\_ WhatsApp: \_\_\_\_\_

Author(s): \_\_\_\_\_

Accommodation Type:  University Guest House (single bed Rs.5000-8000 per night) Hotel**Core Organizing Committee****Assoc. Prof. Suhail Anjum** (Treasurer SEGMITE)  
Former Chairman Dept. of Geology, FUUAST, Karachi  
[anjum\\_52@hotmail.com](mailto:anjum_52@hotmail.com) Cell: +92 321 2100421**Prof. Dr. Viqar Husain** (Convener SEGMITE)  
Water & Environmental Consultant, Karachi  
[prof.dr.v.husain@gmail.com](mailto:prof.dr.v.husain@gmail.com) Cell: +92 302 0258683**Prof. Dr. Erum Bashir** (Chairperson)  
Department of Geology, University of Karachi  
[geology@uok.edu.pk](mailto:geology@uok.edu.pk)**Dr. Ghulam Murtaza** (Director)  
PCRWR Regional Office, Karachi  
[perwr.karachi@gmail.com](mailto:perwr.karachi@gmail.com)**Engr. Mahboob Khan** (Director P&D)  
Pakistan Science Foundation, Islamabad  
[psopndpsf@gmail.com](mailto:psopndpsf@gmail.com)**Dr. S. Sarfaraz** (Chief Meteorologists)  
Pakistan Meteorological Department, Karachi  
[sarfrazmet@hotmail.com](mailto:sarfrazmet@hotmail.com)**Abstract & Technical Committee****Dr. Adnan Khan** (Asst. Prof. & Managing Editor IJEEG)  
Department of Geology, University of Karachi  
[adkhan@uok.edu.pk](mailto:adkhan@uok.edu.pk)**Dr. Khan Alam** (Assistant Professor)  
Department of Physics, University of Peshawar  
[khanalam@uop.edu.pk](mailto:khanalam@uop.edu.pk)**Dr. Shehla Bano** (Asst. Prof. & Asst. Managing Editor IJEEG)  
Department of Geology, University of Karachi  
[shehla.geo@gmail.com](mailto:shehla.geo@gmail.com)**Mr. Ahmed Raza** (Editorial Assistant)  
Int. J. of Econ. and Environ. Geol. (IJEEG)  
[segmiteinternational@gmail.com](mailto:segmiteinternational@gmail.com)**Organizing Committee****Prof. Dr. Azizan Marzuki**  
Universiti Sains Malaysia, Pulau Pinang,  
Malaysia**Prof. Dr. Chiara Calligaris**  
Faculty of Mathematics, Physics and Natural Sciences  
University of Trieste, Italy.**Dr. Azmat Hayat**  
Chief Meteorologist  
Pakistan Meteorological Department, Islamabad**Mr. Imran Sabir**  
Director  
Sindh Environmental Protection Agency (SEPA), Karachi,**Dr. Mirza Naseer Ahmad**  
HOD, Earth Science Department  
Abdus Salam School of Sciences, Nusrat Jahan College, Rabwah, Pakistan**Dr. Javed Akhter Qureshi**  
Head/Assistant Professor, Department of Earth Sciences  
Karakoram International University, Gilgit, Pakistan.**Prof. Dr. Shahina Tariq**  
COMSATS University,  
Islamabad**Dr. Ahmad Ali Gul**  
Director, Center for Disaster Management,  
University of Management and Technology, Lahore**Mr. Nadeem Ahmed Khan**  
Manager VEPP, L.E.J. National Science Information Center  
University of Karachi**Dr. M. Basharat** (Associate Professor)  
Department of Geology  
University of Azad Jammu & Kashmir, Muzaffarabad**Mr. Ghazanfar Zahid** (President & CEO)  
GazServ, Geoscience Consulting Services  
Calgary, Alberta, Canada**Dr. Azizuddin Shaikh** (Assistant Professor)  
Department of Chemistry  
FUUAST, Karachi, Pakistan**Dr. Mehdi Nezhadnaderi**  
Assistant Professor,  
Islamic Azad University, Iran**Dr. Reshad Md, Ekram Ali**  
Former Director General,  
Geological Survey of Bangladesh, Dhaka. Bangladesh**Dr. Sitara Perveen**  
Assistant Professor  
Fatima Jinnah Degree College for Women, Gilgit.**Dr. Maria Kaleem**  
Assistant Professor  
Department of Geology, University of Karachi**Ms. Ulfat Akram**  
Environmentalist  
Asst. Managing Editor IJEEG, Karachi**Ms. Ayesha Kanwal**  
Assistant Meteorologist  
Pakistan Meteorological Department, Karachi**Accommodation Committee****Mr. M. Arsalan** (Senior Lecturer)  
Department of Geology, University of Karachi  
[arsalangeol@uok.edu.pk](mailto:arsalangeol@uok.edu.pk); Cell: +92 322 2401639**Mr. M. Shumail** (Lecturer)  
Department of Geology, Federal Urdu University, Karachi  
[muhammadshumail@gmail.com](mailto:muhammadshumail@gmail.com); Cell: +92 322 2576036**Mr. M. Noor** (Student)  
Department of Geology, University of Karachi  
+92 331 0329448**Mr. Salman Arif** (Student)  
Department of Geology, University of Karachi  
+92 320 2207751