

REPORT ON INTERNATIONAL WORKSHOP ON TECTONIC AND ITS IMPLICATION WITH SPECIAL REFERNCE TO INDO-BURMA RANGE.

Date: 17-18 January 2020

Place: Auditorium. Govt. Zirtiri Residential Science College.

The first International level workshop for Govt. Zirtiri Residential Science College was organized by Research and Seminar committee and the department of Geology, GZRSC. There were 12 Organizing members, 6 resource persons and 64 participants in the workshop. (Lists attached)

DAY I : 17th January 2020

A short **Inaugural Function for the International Workshop** was held, which was chaired by Dr. Lalzahawmi Chenkual, Organizing Chairman. Two speakers, namely, Dr. R.Lalengmawia, Vice Principal and Samuel Lalmalsawma, Senior Scientific officer, Directorate of Science and Technology delivered a speech.



The inaugural function was followed by Session I, Chaired by Dr. Arup Kumar

There were two resource persons:

1. Dr. C. LALREMRUATFELA, Assistant Professor, Dept. of Geology, GZRSC:

He talked about the meaning of tectonic, how the different plates of the earth move around and how it creates a problem for humankind. He also talks about the evolution and formation of Indo-Burma Ranges and why the study of IBR is important.



2. PRISCILLA RINMUANPUII, Geologist, Geological Survey of India, Govt. of India:

The resource person talked about the implications of tectonic on Indo- Burma Range with a stress on Mass wasting such as Landslide. She highlighted the types of Landslides occurred in Nagaland, Manipur, Tripura and Mizoram and how it affects the life of people inhabiting in the area.



Session II: This session was chaired by Dr. Fanai Lalsangluaii. The resource persons were

1. Dr. LALDINPUIA Assistant Professor, Dept. of Geology, Pachhunga University College:

The resource person spoke on how to monitor a landslide with a case study from Hunthar Landslide, Siaha Landslide, Zuangtui Landslide and NGAIZEL rock fall. He highlighted the importance of monitoring a landslide such that exact mitigation measures could be implemented. He also described the different instruments usually employed for monitoring works.



2. Dr. LALROKIMA CHENKUAL, Asst. Director, Dept. of Disaster Management & Rehabilitation, Govt. of Mizoram:

The speaker speaks on the role of the Government in disaster management. He highlighted how the state government has taken up necessary actions whenever disaster strikes. He also talks about the preparedness for disaster and the problems faced by the government.



DAY II: 18th January 2020

Session III: This session was chaired by Mrs. Lalrinsangi Nginglova. Resource persons were:

1. Dr. PAUL M. BETKA, Assistant Professor, Department of Atmospheric, Oceanic and Earth Sciences, George Mason University, USA:

The speaker talked about the evolution of Indo- Burma Range using a special technique known as surface data of the shallow weak decollement cross section and computer modeling. In his talk, he stressed mainly on how the Indian Plate and Eurasian Plate collide and the east-west compression of the Indian Plate with the Burmese Plate forming what is now known as Indo-Burma Ranges. He also depicted that a Mega thrust blind fault is observed under the IBR which could generate 8-9 magnitude of Mega Earthquake.



2. Dr. RYAN SYNCAVAGE, Department of Geology, Radford University, USA:

The speaker mainly stressed on how the sediment of the fold belt of Indo Burma Ranges originated. He mentioned that the sediments of the IBR originated from the weathering and erosion of Himalayan ranges and also from the Burmese ranges. At around 5-7 Ma, due to the upliftment of the Shillong Massive the Brahmaputra which once flow to Mizoram changed its route and now follow the south of Shillong Massive towards Bangladesh.





The workshop was sponsored by MISTIC, Directorate of Science and Technology (Rs 25,000/-), Department of Higher and Technical Education (Rs 20,000/-) and Department of Disaster Management and rehabilitation (Rs 20,000/-).

The committee thanks all the organizing committee members and different sub committees for their active involvement and collaboration for the success of the workshop. The committee also thanks all the sponsors for their generous contribution for the workshop.

Reported by

(Dr. RICKY LALHMANGAIHZUALA)
Organizing Secretary