



UAA Professional Development Seminar Series

Analysis of November 30th, 2018 Anchorage Earthquake (Mw 7.0)

Presented by Utpal Dutta, Associate
Professor

An Mw 7.0 earthquake vigorously shook Anchorage, the largest city in the state of Alaska on November 30th, 2018. The quake was located about 14 km northwest of Anchorage, and at a depth of 41.8 km on the subducting Pacific plate, underneath the North American plate. The earthquake provided a wealth of recorded motions of engineering interest. Approximately thirty station sensors, deployed at various parts of the Anchorage bowl covering major geological units and various structures, have recorded these motions. We will present overall information of the data collected at such sites, and an analysis of recorded motions to understand the variability of the ground motions.

Utpal Dutta graduated from the Indian School of Mines at Dhandad, India with a M.Sc (Tech) in Applied Geophysics in 1988, and then received his Ph.D from the same institute in 1992. After a brief assignment for one year as a Research Fellow at University of Delhi South Campus, Dr. Dutta joined the faculty as a Lecturer (Assistant Professor Level) in Geophysics at Guru Nanak Dev University (GNDU), Amritsar, India. He taught various graduate courses in Exploration and Solid Earth Geophysics at GNDU from 1992-1998. He joined the faculty as a Visiting Research Scientist at the Geophysical Institute, University of Alaska Fairbanks in 1998. In 2003, Dr. Dutta became a Research Associate at the Environment and Natural Resource Institute, under the joint appointment of University Alaska Anchorage and Geophysical Institute, UAF.

Friday, March 29, 2019

11:45 am-12:45 pm

UAA College of Engineering, EIB 211