

REPORT

International workshop on “**Emerging Trends in Earthquake Engineering and Structural Dynamics**” was held at IIT Delhi organized by Department of Civil Engineering, IITD from 20th -21st Dec 2014. The resource persons are expert of their respective field as Prof. A S Arya from IITR, Prof S K Jain from IIT GN, Dr. H S Kushwaha from BARC, Prof. S K Deb from IITG, Prof. D K Paul & Prof. I D Gupta from IITR, Prof. R S Jangid from IITB, Prof. T K Duta from IITD, Prof C S Manohar from IISC, Prof A Mehar Prasad from IITM, and Prof. P Banerji from IITR.

The course was well planned by the department. Total twelve sessions were scheduled for the workshop. First day six sessions were conducted. Prof A S Arya delivered lecture on Seismic vulnerability of Non-Engineered structures to give awareness about the importance of engineered structures w.r.t human life. Prof S K Jain has expert talk on Earthquake Engineering in India. A “seismic design and Re-assessment of Nuclear facilities” has been discussed by Dr H S Kushwaha by explaining the importance of seismic design in nuclear power plant structures. Prof S K Deb gave expert views on active and passive control of structural systems. A case study on Tehri Dam has been discussed by Prof D K Paul by on topic of seismic safety of large dams. Prof I D Gupta has delivered lecture on characterization of earthquake ground motions a mathematical modeling.

On second day Prof R S Jangid discussed about the structural control on piping systems. Prof T K Dutta and Prof A Mehar Prasad gave their expert vies on stochastic control on dynamic structures and stochastic processes in structural mechanics respectively. Both of them explained how to deal with stochastic problem that arises while analysis. Prof C S Manohar delivered lecture on Bayesian methods for model updating in instrumented structures by explaining the mathematical design parameters. In last session Prof P Banerji from IITR discussed about structural health monitoring of railway brides.

Dr. D. P. Saha

Coordinator, Workshop