

THE RESPONSE SPECTRUM

*A Technical Seminar on the Development and
Application of the Response Spectrum Method for
Seismic Design of Structures*

LECTURE # 2

1-2 June 2007

**Seismic Hazard Analysis to obtain Uniform
Hazard Response Spectrum (NBCC 2005)**

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Gail Atkinson, Professor of Geophysics at University of Western Ontario, has devoted her career to working at the engineering-seismology interface. She has authored more than 100 research articles on the subjects of earthquake ground motions and seismic hazards; among these are well-known prediction equations for ground-motion amplitudes as a function of magnitude and distance that have been used in national seismic hazard maps. She has been responsible for seismic hazard analyses for dozens of major engineering projects, and participates in committees responsible for developing seismic design regulations for buildings and critical structures such as dams and nuclear power plants. Gail is President of the POLARIS Consortium, a non-profit research organization that has installed and operates more than 100 satellite-linked geophysical observatories across Canada. She uses POLARIS data to improve ground-motion forecast models, and develop real-time seismological applications. Gail has been a member of both the Seismological Society of America and the Earthquake Engineering Research Institute for over 20 years. She served on the Board of Directors of the Seismological Society of America for over a decade, culminating with a term as President from 2001-2003; she continues to serve SSA through an Associate Editorship of the Bulletin.