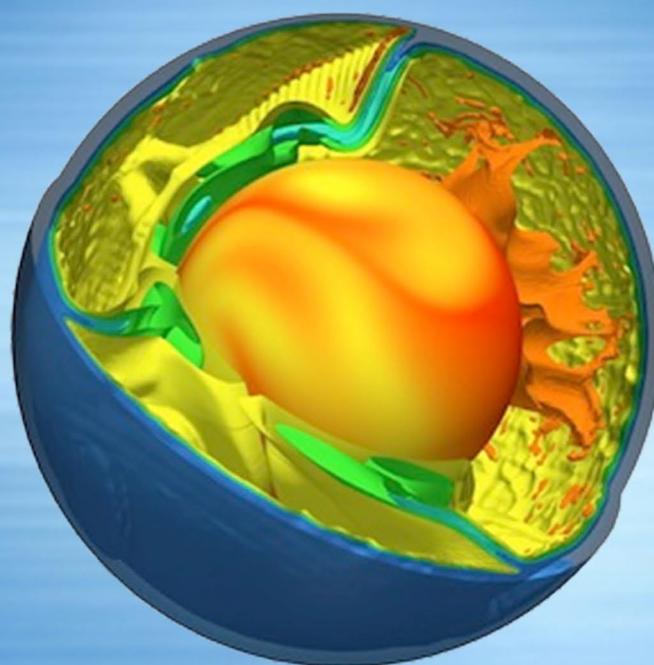


CONFERÊNCIA Paul G. Richards

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SEISMOLOGY - PURE SCIENCE AND APPLIED SCIENCE

Seismology is an observational science, for which the principal data are recordings of the way the surface of the Earth moves, as a consequence of earthquakes, explosions, and other phenomena.

Seismology has provided detailed information about the interior of our planet - for example, the existence of a huge fluid core (that generates the Earth's magnetic field), within which there is a solid inner core approximately the size of the Moon. Seismology provides insight into the physical processes taking place before, during, and after, an earthquake.

Applications of seismology include methods for detecting and identifying explosions. Underground nuclear explosions, in particular, are best detected seismologically and this capability has resulted in the development of networks of seismometers all over the globe. They provide important streams of data that are systematically searched for evidence of nuclear explosions. I shall briefly review evidence for the three underground nuclear explosions conducted so far this century (in 2006, 2009, 2013), all of them in North Korea.

Instituto Superior Técnico
Sala de Reuniões - Pavilhão Central

15 Setembro 2014 | 16h00

Entrada Livre

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>Organização

