

## AOB Seminar

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開催日時: 2015年10月16日(金) 14:00-15:30

場 所: 地震・噴火予知研究観測センター 別館第1会議室

講演題目&要旨:

### **Living with subduction-zone earthquakes and a case history of the recent Illapel earthquake (Mw=8.3) in Chile**

Seismology has made significant advancements in the recent decades. Just to mention a few:

1) Quantitative estimation of strain accumulation rates at plate boundaries with GPS; 2) Combined use of data from various disciplines (e.g., seismology, geodesy, tsunami) for unravelling the details of earthquake rupture processes; 3) Recognition of diversity of rupture process and its implications for hazard mitigation measures; 4) Understanding the general scaling behavior of earthquakes controlled by deterministic earthquake process; 5) Realization of outliers and chaotic behavior resulting from non-deterministic earthquake processes; 6) Realization of importance of real-time hazard warning, given the inevitably chaotic natural hazards. I will review these advancements, discuss future directions on how we should live wisely and cope with subduction-zone earthquakes, and present a brief case history of the recent Illapel earthquake (Mw=8.3) in Chile.