

Lecture series “*Frontier in Science*”

Dr. Sambuddha DHAR

Osaka Metropolitan University

Title: Crustal deformation studies with rock rheology and numerical simulation

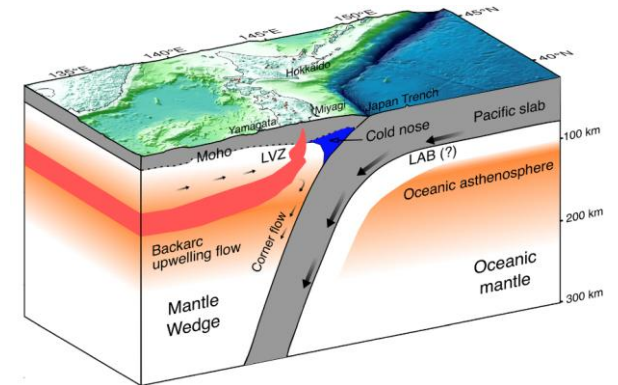
Date & Time : April 23, 15:00~16:30

April 30, 15:00~16:30, 16:45~18:15

Jun 04, 15:00~16:30, 16:45~18:15

Jun 11, 15:00~16:30, 16:45~18:15

Venue : Sci. Bldg., C505 (Sugimoto Campus)



This lecture series explains how decade-long Global Navigation Satellite System (GNSS) observations reveal complex surface deformation in northeastern Japan after the 2011 Mw9.0 Tohoku-oki earthquake. These postseismic deformations provide a strong evidence that the mechanical properties of the lower crust and upper mantle vary across space and time. We will explore how researchers infer this heterogeneous rheology using time-series analysis, physics-based numerical simulations, and laboratory-derived rock properties.



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