

ELSI Annual Public Lecture FY2024

Seismic Exploration of Planets

2024.11.28 (Thu.)

19:00-20:50 (Doors open at 18:30)

Lecture 1



CHRISTINE HOUSER

Specially Appointed Assistant Professor
Earth-Life Science Institute,
Tokyo Institute of Technology

What do earthquakes tell us about life on Earth?

Earthquakes outline crustal blocks called plates, and their interactions—sliding, colliding, or spreading are known as plate tectonics, which forms continents and ocean basins as well as maintaining stable ocean water for billions of years. Seismic waves reveal how these plates are recycled in the Earth's deep mantle. In this lecture, I will introduce how earthquakes and seismic waves reveal how our dynamic planet creates the conditions for life.

Lecture 2



KEISUKE ONODERA

Project Researcher
Earthquake Research Institute,
The University of Tokyo

Are there quakes outside our planet?

The internal dynamics of a planet cause various natural phenomena, such as earthquakes, volcanism, and so on, which are direct evidence that a planet is alive. In this lecture, I will introduce how to retrieve information about the planetary interior through seismic wave observations, how important the internal structure is in planetary science, and what kind of quakes were observed outside our planet, such as the Moon and Mars.

MODERATOR



SHINTARO KADOYA

Specially Appointed Assistant Professor
Earth-Life Science Institute,
Tokyo Institute of Technology

Venue: Multi-Purpose Digital Hall,
Ookayama West Bldg. 9
Tokyo Institute of Technology
(Ookayama station, Tokyu Line, 3 min. walk)

Organiser: Earth-Life Science Institute (ELSI),
Tokyo Institute of Technology

Language: Japanese/English
(Simultaneous Interpretation)

Fee: Free

Registration: Prior registration is required.
Use the code or website to register.
Capacity at 300 people.

Registration deadline: 27 November 2024 (Wed) noon
(Application will be closed when the number of applicants reaches the limit.)



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