ELSI Annual Public Lecture 2022

From Deep Earth to Deep Space

LECTURE 1

Exploring the Origin of the Earth from its Metallic Core

The Earth's core contains impurities other than iron, and recent studies revealed that hydrogen is the major impurity. While a large amount of water was delivered to growing Earth, most of it was incorporated into the core in the form of hydrogen. Therefore, our planet avoided deep sea but instead provided a diverse environment in which sea and land coexist, which may have been important for the origin of life.

Kei Hirose
Director/Professor
Earth-Life Science Institute,
Tokyo Institute of Technology

LECTURE 2

Forefront of Solar System Life Exploration

Is there life beyond Earth in the Solar System? Thanks to recent space explorations, we now know that Mars was once an aquaplanet, possessing lakes and oceans on the surface. In the interior of icy moons of Jupiter and Saturn, there are liquid oceans, called subsurface oceans. In my talk, I will introduce these advances in the space explorations and how to find life there.

Yasuhito Sekine
Vice Director/Professor
Earth-Life Science Institute,
Tokyo Institute of Technology

MODERATOR

Takashi Sakurai
Administrative Director
Earth-Life Science Institute,
Tokyo Institute of Technology

2022
1.19 WED
19:00-21:00

Participation: Live stream

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

Fee: Free

THIS EVENT WILL BE HELD IN JAPANESE

Registration:
Prior registration required.
Use the code or website to register.

Registration deadline: 12:00 PM, January 19 (Wed), 2022

www.elsi.jp
pr@elsi.jp
@ELSI_origins

EARTH-LIFE SCIENCE INSTITUTE
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