



「留学生の皆さんへの科学セミナー」

English Lectures for Foreign Students

Date: **December 20(Thu)**

Venue: **Meeting room 1 in 2nd Science Faculty Bldg.**
(理学部2号館 2F 第1会議室)

10:10 - 11:00 AM Seminar in Chemistry

Prof. Akira NAGASAWA (Department of Chemistry)

“Color of metal ions - Introduction to the coordination chemistry - ”

Some metal ions have various colors although others are colorless. Where does this difference come from, and what is the cause of the color? Coordination of molecules or ions onto the metal ion to form metal complexes is responsible for this phenomenon. We will outline the fundamental concepts of coordination chemistry.



13:00 - 13:50 PM Seminar in Astrophysics

Prof. Mario BERTAINA (Department of Physics, University of Torino, Italy)

“Cosmic Ray Physics and its interplay with other disciplines”

The seminar aims to give a general description of the origin and nature of cosmic rays and their connection with astrophysics and particle physics. A short summary on how they are measured from the ground, using stratospheric balloons, and from space will be presented. At the end some aspects that make the study of cosmic rays very interesting for its interplay with other disciplines will be briefly reported.



14:40 - 15:30 PM Seminar in Biology

Prof. Junichi OHNISHI (Department of Molecular Biology)

“How are we living? The Mechanism of ATP synthesis”

Living creatures, including humans, are constantly metabolizing nutrients and synthesizing / utilizing ATP (adenosine triphosphate) as an energy currency. ATP synthesis is performed by a mitochondrial molecular machine. We detail the metabolic importance of the intricate mechanism.



These are English lectures on natural science. Interesting content is presented in easy English on advanced topics in the fields of Chemistry, Biology and Astrophysics. We warmly welcome all foreign students studying at SAITAMA Univ. This is also a great opportunity for all Japanese students.

日本人学生の聴講も歓迎します！

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