

Transdisciplinary Network linking Space-Earth Environmental Science, History, and Archaeology

2nd TranSEHA Young Researchers Seminar: Archaeomagnetism

Venue: Research Institute of Frontier Science and Technology, Okayama University of Science
(20 minutes by bus from Okayama Station)

Note: The seminar will be held in a hybrid format.

October 14 (Tue) — Paleomagnetism and Archaeomagnetism

9:30 Registration

9:50–10:00 Opening Remarks — Minami, Hatakeyama

1. Paleomagnetism, Rock Magnetism, Archaeomagnetism

1-1. 10:00–10:40 What is Geomagnetism and Paleomagnetism? — Hatakeyama

1-2. 10:40–11:20 Remanent Magnetization recorded in Rocks and Other Materials — Kato

1-3. 11:30–12:10 Methods for Measuring and Analyzing Remanent Magnetization — Kato

1-4. 12:10–12:50 Fundamentals of Rock Magnetism — Kato

(Lunch Break)

1-5. 13:40–14:20 What is Archaeomagnetism? — Kitahara

2. Topics related to Archaeomagnetism

2-1. 14:40–15:20 Archaeodirections, Archaeointensities, and Dating in Japan — Kitahara

2-2. 15:20–16:00 Applications of Archaeomagnetism and Rock Magnetism other than Dating
— Hatakeyama

2-3. 16:00–16:40 Alternative Approaches to Dating: Using Viscous Remanent Magnetization
— Sato

2-4. 16:40–17:20 General Discussion:

The Role of Archaeomagnetism in TranSEHA and Collaboration with Other Groups

October 15 (Wed) — Practical Archaeomagnetism

3. Archaeomagnetic Procedures

3-0. Overview of the Procedures: From Sampling to Measurement — Hatakeyama

3-1. 9:50–14:40 (with Lunch Break)

Sampling and Sample Preparation — Kitahara

3-2. Archaeomagnetic Measurements — Kato

3-3. Analysis of Archaeomagnetic Measurement Results — Sato

4. Archaeomagnetic Data and Database

4-1. 15:10–15:50 Current Status of Archaeomagnetic Data — Hatakeyama

4-2. 15:50–16:30 Discussion: Uploading Data to the TranSEHA-DB Database

— Hatakeyama, Hayakawa, Miyoshi

16:30 Closing