

# REIMEI International workshop: New insights of Oklo natural fission reactors elucidated from isotopic studies using state-of-the-art analytical techniques

## Outline

Three consortium studies of the Oklo natural reactor were developed since the discovery of the natural reactor in 1972, however the deposit itself was closed in 1999 due to maintenance and management difficulties, and little new research has been conducted since then. In 2022, a symposium commemorating the "Oklo natural nuclear reactors - 50th anniversary" was held at Strasbourg University, which was one of the research centers of the consortium study, and new resumption of the study was discussed among the experts. In 2024, we have started a new research collaboration with Nagoya University, Japan Atomic Energy Agency, Strasbourg University, Khemis Miliana University and Washington University to elucidate the reaction mechanism in Oklo natural reactors.

In this workshop, we will introduce the past research on Oklo natural reactors, issues that have yet to be resolved, and future research plans to be carried out. The results obtained in FY2024 will also be presented. We will invite collaborators who had been at the forefront of Oklo research, to give a lecture.

**Date: 26th Mar. (Wed.) 2025**

**Location: Ceratopia Toki, Toki, Gifu, JAPAN** (<https://www.city.toki.lg.jp/sangyo/sangyo/1004873/1004352.html>)

## Speakers:

H. Hidaka (Nagoya University)  
B. Gall (Strasbourg University)  
D. Durastanti-Rabenga Mombo (Strasbourg University)  
S. Bentridi (Khemis Miliana University)  
A. Meshik (Washington University)  
O. Pravdivtseva (Washington University)  
R. Okazaki (Kyushu University)  
E. Sasao (JAEA)

**Registration (deadline: 19th Mar. (Wed.) 2025)**

<https://forms.office.com/Pages/ResponsePage.aspx?id=IbIWDX8PH0GuifIA8SY48585e8dSw3tBnivpl2fRbaNUMjdVTzNOMjdLTdHUjFVN1YxMUJJOERJVC4u>

\*Participation fee: free

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**Support :** REIMEI Program of JAEA

