Contribution ID: **786** Contribution code: **TUPB116** Type: **Poster Presentation**

Evaluation of the impact of pretreatment on the quality of AMS environmental sample analysis

Tuesday 3 June 2025 16:00 (2 hours)

In Accelerator Mass Spectrometry (AMS) laboratories, chemical pretreatment is vital for reducing sample contamination and improving the accuracy of the data. Specifically, in radiocarbon dating with AMS, chemical pretreatment is used to eliminate carbonates and humic acids, leading to more precise measurement results. This technique has been traditionally method applied to ancient archaeological and geological samples and is now also used for environmental samples. This study evaluates three distinct chemical pretreatment methods for AMS and the findings of the corresponding measurements are presented in this paper.

Footnotes

Paper preparation format

Word

Region represented

Asia

Funding Agency

This work was supported by the National Research Foundation of Korea (NRF), grant funded by the Korea government (Ministry of Science and ICT, No. 2022R1A2C2006213).

Author: LEE, Seung Won (Dongguk University)

Co-authors: PARK, Sae-Hoon (Dongguk University); KIM, Yu-Seok (Dongguk University)

Presenter: LEE, Seung Won (Dongguk University)

Session Classification: Tuesday Poster Session

Track Classification: MC8: Applications of Accelerators, and Engagement for Industry and Society: MC8.U06 Environment