



EINLADUNG

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von

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**Current research activities with cosmogenic nuclides
at KIGAM, Daejeon, Korea**

In 2008, the Korea Institute of Geoscience and Mineral Resources (KIGAM) installed a 1-MV HVEE Tandatron as the second AMS machine for the country. Since then KIGAM's AMS lab has successfully served for the nation's need for the research fields of archaeology, geology, and environmental studies, etc. KIGAM's AMS chemistry laboratories consists of both radiocarbon and cosmogenic nuclide laboratories. Especially, the cosmogenic nuclide laboratory at KIGAM is associated with various research programs focusing on both paleoclimate and environmental studies. Recent research activities were strongly associated with atmospheric Beryllium-10 for studies of rain, lake sediments from Argentina, marine sediments from Korea and Arctic marine environments. In situ C-14 extraction line has been installed for studies on active landscape changes. Investigation of various archaeological sites has been continuously accomplished using radiocarbon dating techniques to understand the plaeoclimate, environmental, and cultural studies in Korea. This presentation introduces KIGAM's AMS facility and various research activities since 2008.

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