

Archaeometrical studies using PGAA and INAA

Wednesday, 21 June 2017 11:00 (30 minutes)

PGAA and INAA are ideally suited for a panoramic analysis of the elemental composition in various materials. A bundle of advantages make these two methods attractive for archaeometry and cultural heritage, for instance low-destructiveness, straightforward sample preparation and good detection limits for many elements. Due to the fact that PGAA and INAA are complementary for several elements, a combination of both methods makes sense for certain applications. We have the opportunity to perform additional INAA measurements subsequently after the PGAA irradiation in a separate low background chamber. At our instrument, archaeometrical and cultural heritage applications include provenance analysis of archaeological findings, conservation-restoration research and reverse engineering of ancient aqueduct systems. New instrument developments provide additional variety and flexibility in this field. The presentation will give an overview about the current projects and the new possibilities at the PGAA facility.

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