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#### First results on radiometric dating of metals by alpha spectrometry #



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STATE OF THE PARTY.

#### ABSTEACT

A new TSAC (Thick Source Aligha Particle Counting spectrometry) setup of high geometrical efficiency and low intrinsic background was half to measure the affection coming from the <sup>200</sup>U and <sup>200</sup>Th decay chaims socional mackets within occount on shown to the ppm level. It was designed to test the <sup>200</sup>U and <sup>200</sup>Th method, which is the only direct metal dating method proposed to date. Me no 2000, micro-805 and SEA EDS were used as complementary analytical techniques in order to search for heterogenesies and/or impurities that could bin the TSAC atta. Ones, resulting slags and metallic pulls from two recent uneiting experiments that reproduced arcient techniques and two accient coins sweet studied to determine how radionactions fractions from occurs thering smelling. With this TSAC setup the background's ignal was extremely love, but comparable to the signal from the measured metals. Perliminary results show no evidence of a preferential depletion of <sup>200</sup>Es in smelted metal with one post to the support that property is the observable property in the original from the opening of the property and the property of the support of th

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#### 1. Introduction.

Archaeometallurgical research focuses in the reconstruction of early trade routes in terms of location of metal sources (ore deposits) and in the study of metallic artifacts and metallurgical remains through various analytical and examination techniques. Important information can be derived from these studies, like ore provenance, contact between different ancient societies and their technological development.

It's not an overstatement to say that the Holy Grail of archaeometallurgists is to achieve a method that can directly give the date of the manufacture of a metallic artifact.

Until now, the dating of metallurgical processes is made indirectly, under favor able conditions, by [1]; a) thermoluminescence (TL) and optical stimulated luminescence (CSL) of burnt soil in kilns and cracibles, or of remaining over material in the metal artifact and slag products [2]; b) radiocurbon (\*\*C) applied on carbon found in trupped slag inclusions (mainly iron a rtifacts); c) as sociation with other archeological artifacts found in the same archeological context; and d) some aging or degradation specificities that may differentiate an old from a new object (e.g. interpretallar corrosion is a slower corrosion process).

in 2006 [1] I. Liritzis proposed a radiometric dating method for metals that are produced from ones (native metals excluded), based on the isotopic fractionation that may occur during one smelting. This fractionation disrupts the secular equilibrium in the 2 <sup>20</sup>U series. In this sense, 2<sup>20</sup>Ka, a radiomudide that occurs naturally in the decay chain of 2 <sup>20</sup>U with a half-life of 1602 years, tends to be withdrawn by slag products away of the melted metal, as are sult of its low-specific gravity, 5-6 g/cm<sup>3</sup>, and its lower melting point (700 °C) when compared to some metals, as for example copper (8.9 g/cm<sup>3</sup>: 1083 °C).

As a consequence, in a metal, <sup>200</sup>Ra would appear from the decay of its parent. <sup>210</sup>Th (half-life, t<sub>1,0</sub> = 80000 years). Assuming that initially in the metal <sup>220</sup>Ra is not present, then at time t, the ratio between the activities of <sup>220</sup>Ra and <sup>220</sup>Th is given by Eq. (1) [1]

$$\frac{A_{\text{SSMs}}}{A_{\text{SSMs}}} = \frac{A_{\text{SSMs}}}{\lambda_{\text{SSMs}} - \lambda_{\text{SSMs}}} \left[1 - e^{-i\lambda_{\text{SSMs}} - \lambda_{\text{SSMs}}}\right],$$
 (1)

where  $\lambda_{\rm COLO_{1}}$  and  $\lambda_{\rm COLO_{2}}$  are the decay constants ( $\lambda = \ln(2)/\Gamma_{\rm LO}$ ) of  $^{23.6}{\rm Ra}$  and  $^{2.66}{\rm Th}$ , respectively. As  $\lambda_{\rm COLO_{2}} > \lambda_{\rm COLO_{2}}$  (4.3.3 × 10  $^{-6}{\rm yr}^{-1} > \infty$  8.56 × 10  $^{-6}{\rm yr}^{-1}$ ) the ratio of activities tend to the value  $\lambda_{\rm COLO_{2}} / (\lambda_{\rm COLO_{2}} / \lambda_{\rm COLO_{2}} / \lambda_{\rm$ 

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<sup>\*</sup> Over-exponeding auditor.

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Krisztina Buczkó, János Korponai, Judit Padisák, Scott W. Starratt

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