

# ***SOME INTERESTING APPLICATIONS OF RADIOCARBON DATING TO ART AND ARCHAEOLOGY AND SOME HUNGARIAN CONNECTIONS***

A. J. Timothy Jull

Departments of Geosciences and Physics

University of Arizona

Tucson, Arizona USA

Radiocarbon dating is a critical tool in the estimated of the age of many samples and covers the time period of approximately the last 50,000 years. We can use radiocarbon dating to estimate the age of a wide variety of carbon-containing materials. Both organic or inorganic materials at the earth's surface and in the oceans form in equilibrium with atmospheric carbon-14. This makes it an incredibly important tool for the understanding of processes during the time-scale of modern humans, from the last glacial-interglacial transition, to recent archaeology studies of art works. I will give a non-specialist overview of the technique, its advantages, assumptions and limitations. I will emphasize dating interesting objects and archaeological applications. Radiocarbon has been applied to dating many historical artifacts. Some specific examples including dating of famous artifacts of artistic, religious and scientific interest will be included.