Appendix 1

Publications

Soko, L., Chimuka, L., Cukrowska, E., Pole, S., Extraction and preconcentration of manganese(II) from biological fluids(water, milk and blood serum) using supported liquid membrane and membrane probe methods, *Analytica Chimica Acta* **485** (2003) 25-35.

Cukrowska, E.M., McCarthy, T.S., Pole, S., Backwell, l. & Steininger, C. The chemical removal of manganese dioxide coatings from fossil bones from the Cradle of Humankind. *South African Journal of Science* 101 (2005) 101-103.

Cukrowska, E.M., McCarthy, T.S., Pole, S., Backwell, l. & Steininger, C. 2004. The chemical removal of manganese dioxide coatings from fossil bones from the Cradle of Humankind. Geosciences Africa 2004 Congress abstract, 12 – 16 July 2004, School of Geosciences, University of the Witwatersrand (Johannesburg).

Conferences

S. Pole, E.M. Cukrowska, T.S. McCarthy, (2004). The chemical removal and speciation of manganese dioxide from bones originating from South African caves – SACI 2004 37th Convention, 4 –9 July 2004 (Pretoria).

S. Pole, E.M. Cukrowska, T.S. McCarthy, L.R. Backwell, and C. Steininger, (2004). The chemical removal of manganese dioxide coatings from fossil bones from the Cradle of Humankind. Geosciences Africa 2004 Convention, 12 – 16 July 2004, School of Geosciences, University of the Witwatersrand (Johannesburg).

S. Pole, E.M. Cukrowska, T.S.McCarthy, L.R. Backwell, and C. Steininger (2005), The chemical removal of manganese dioxide coatings from fossil bone. V International Bone Diagenesis Conference, 28-31 August 2005, University of Cape Town.

S. Pole, E.M. Cukrowska, L.R. Backwell, C. Steininger, Non destructive chemical methods for the removal of manganese oxide from fossil specimens located in the Cradle of Humankind. SACI 2006 38th Convention, 3-8th December 2006 (Durban).

Environmental chemistry workshops on 8th September 2004 at the University of the Witwatersrand Johannesburg (Also for Metrohm and Swiss Lab). A demonstration and introductory lecture on a Computrace 757 VA instrument regarding the basic principles of use for the trace determination of metals and the potential scope of the software applications and hardware.

(2003-2005 and 2007) Demonstrations on a VA Computrace on Adsorptive Stripping Voltammetry and Anodic Stripping Voltammetry. Methods and applications. Presented to 2003, 2004 and 2005 honors students of Rand Afrikaans University Johannesburg.

(2007) Guest lecturer at the American International School of Johannesburg (Dawn McMaster's dmcmaster@aisj_jhb.com). A 60 minute lecture was given on new chemical techniques and their application developed in PhD research. The students were aged between 16 - 17 years old and are children from prominent families (i.e. ambassadors, CEO's). A workshop/practical session was run with the students allowing them to test one of the methods developed and the power of it usefulness in Palaeontology, Archaeology and Palaeoanthropolgoy. This was part of a special 4 day course on Human

Evolution developed by a Christine Steininger (palaeoanthropologist) to bring this multidisciplinary subject to high school students. The course applies a hand on approach. It also brings students into contact with the scientist in various disciplines so they can interact with them. I was employed by a company called Human Origins cc to give the above lecture and workshop.

(2007) 50th Anniversary Polish Chemical Society Congress & 11th EuCheMS International Conference on Chemistry and the Environment. 9-12.09.2007 – Toruń

Title: The Cleaning of 'MRS PLESS' Non-Destructive Chemical methods for the removal of metal oxides From Hominid fossil specimens from The Cradle of Humankind, South Africa