



Contribution ID: 42

Type: **not specified**

## Elemental Analysis Using Parametric X-ray Generated at LEBRA, Nihon University

*Thursday, 27 September 2012 19:25 (1 minute)*

Using the energy-valuable monochromatic X-ray beam sourced by Parametric X-ray radiation at the Laboratory for Electron Beam Research and Application (LEBRA) of Nihon University, distribution map of Sr in the fossil dinosaur eggshell could be revealed by tracing the X-ray absorption edge. The more advanced and smart element detecting system was built at LEBRA. The new system enabled to detect the interested element by taking an image of the higher and the lower side of the X-ray energy for the elemental absorption edge simultaneously.

**Primary author:** Prof. SAKAE, Toshiro (Department of Histology, Nihon Univeristy School of Dentistry at Matsudo)

**Co-authors:** Prof. SATO, Isamu (Nihon University); Dr NAKAO, Keisuke (Nihon University); Prof. HAYAKAWA, Ken (Nihon University); Dr NOGAMI, Kyouko (Nihon University); Dr INAGAKI, Manabu (Nihon University); Dr KUWADA, Takao (Nihon University); Dr SAKAI, Takeshi (Nihon University); Prof. TANAKA, Toshinari (Nihon University); Prof. HAYAKAWA, Yasushi (Nihon University); Dr TAKAHASHI, Yumiko (KEK)

**Presenter:** Prof. SAKAE, Toshiro (Department of Histology, Nihon Univeristy School of Dentistry at Matsudo)

**Session Classification:** PS2 Poster Sesion

**Track Classification:** Poster Session