

INFRARED BASED ADVANCED ANALYTICAL METHODS IN ART AND ARCHAEOLOGY

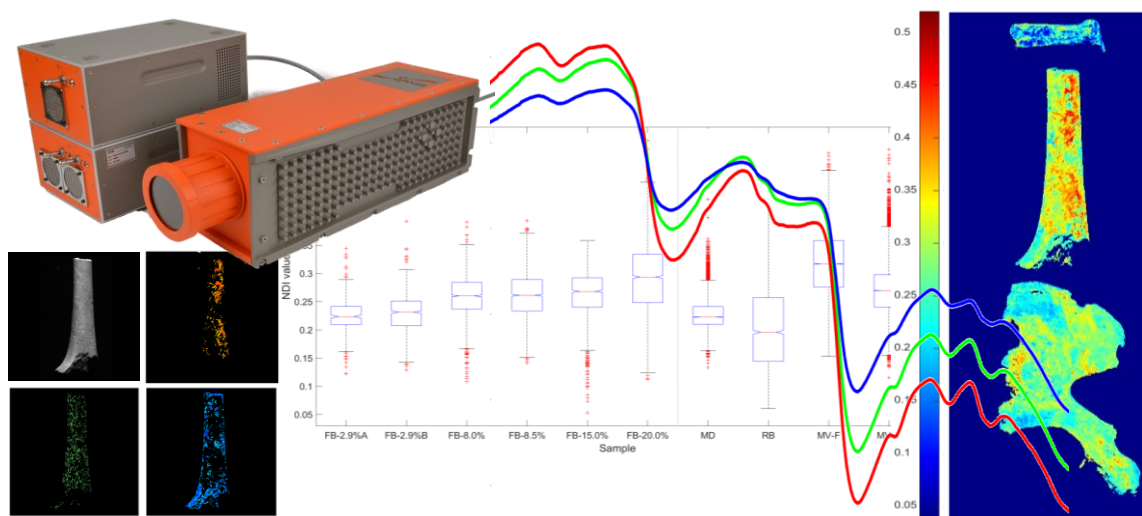
Rocco Mazzeo

Department of Chemistry "*Giacomo Ciamician*",

Microchemistry and Microscopy Art Diagnostic Laboratory (M2ADL)

University of Bologna, Via Selmi 2, Bologna

The lecture will deal with different application and development of advanced analytical chemistry methods with particular emphasis to non-invasive reflectance point and imaging infrared spectroscopy in heritage science. Particular emphasis will be given to elemental, immunochemical and Near-infrared hyperspectral imaging (NIR-HSI) analyses used to characterize diagenetic alteration patterns and map collagen in ancient skeletal remains.



Near-infrared hyperspectral imaging (NIR-HSI) for the mapping of collagen in ancient bones