

Participant Profile



Institution: CNRS
Institute: UMR 5199 PACEA
Full name: H el ene COQUEUGNIOT
Position: CNRS Director of Research
E-mail: helene.coqueugniot@u-bordeaux.fr

Keywords:

(max. 80 characters)

Paleoanthropology; paleoauxology; 3D imaging; virtual retrospect; archeological sciences

Description of Research Interests:

(max. 150 words)

Contributions of 3D digital imaging to biological anthropology and archaeological sciences.

My research topics are focusing on:

- growth processes in humans (paleoauxology) from *Homo erectus* to modern humans;
- individual identification (osteobiography) in forensic and biological anthropology (age at death, facial reconstruction);
- health status among ancient populations (paleopathological processes)
- virtual bone library
- evaluation and development of 3D methods

I patented in 2011 a 3D digital chain, under the name of VIRCOPAL[®] (Virtual Collection of PALeospecimens). The objective of VIRCOPAL[®] is to produce, for research, teaching and heritage preservation, 3D high fidelity reproductions of archaeological specimens (human and animal bones, artefacts ...). The precision of 3D reconstructions is guaranteed by the dedicated software program TIVMI[®] (Treatment and Increased Vision for Medical Imaging), developed in our laboratory by Bruno Dutailly (CNRS).

Participant Profile



Institution: CNRS – Université de Bordeaux
Institute: UMR 5199 PACEA – A3P
Full name: Crevecoeur Isabelle
Position: CNRS Researcher, CR1
E-mail: i.crevecoeur@pacea.u-bordeaux1.fr

Keywords:


(max. 80 characters)

Paleoanthropology, Africa, Modern human, Late Pleistocene, Holocene

Description of Research Interests:

My researches focus on the study of modern human morphometric diversity, behavior and diffusion in Africa at the end of the Upper Pleistocene and beginning of the Holocene. Through the study of key African fossils (i.e. Nazlet Khater, Hofmeyr, Ishango) and African Epipalaeolithic collections (Jebel Sahaba, Wadi Hafla, El Barga ...), my work aims to understand and characterize past modern humans variation in Africa during this crucial period of modern human expansion, diversification and adaptation.

Participant Profile

	Institution:	CNRS
	Institute:	IRAMAT – CRP2A
	Full name:	Floréal DANIEL
	Position:	Research Engineer
	E-mail:	fdaniel@u-bordeaux3.fr

Keywords: (max. 80 characters)	Pigments, Preventive conservation, Hyperspectral imaging, spectrometry, analytical chemistry
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Description of Research Interests:

(max. 150 words)

- Study of pigments essentially for medieval (mural paintings, illuminations) and prehistoric periods to determine the mode of production, origin of raw materials, alteration and preservation, problems connected to the colored perception....
- Development and adaptation of non-invasive analysis techniques for the characterization of coloring materials: SEM/EDXS, Raman spectrometry, Colorimetry, Hyperspectral imaging, accelerated aging

Dayet L., Texier P-J., Daniel F., Porraz G., 2013, Ochre resources from the Middle Stone Age sequence of Diepkloof Rock Shelter, Western Cape, South Africa: procurement, processing and hypotheses of use. *Journal of Archaeological Science*.

Daniel F., Mounier A., Ricarrère P., 2012, Of some blue and bluish grey pigments in medieval mural paintings in the South West of France, *Proceedings of the 39th ISA*, Leuven, 329-334

Mounier A., Daniel F., 2013, Hyperspectral imaging, μ -spectrofluorimetry and XRF for the non-invasive study of a collection of mediaeval miniatures. TechnArt 2013, Amsterdam ICOM, *Heritage Science*.

Presentation title: **Hyperspectral imaging for the non-invasive study of a collection of mediaeval miniatures.**

Participant Profile



Anne Delagnes

Institution: CNRS
Institute: PACEA
Full name: De la Préhistoire à l'Actual : Cultures, Environnements...
Position: Director of Research
E-mail: a.delagnes@pacea.u-bordeaux1.fr

Keywords: Prehistory, Middle Paleolithic, Middle Stone Age, Early Stone Age, western Europe, Africa, Arabian Peninsula
(max. 80 characters)

Description of Research Interests:

(max. 150 words)

I am a researcher in prehistory and archaeology, involved in a number of international study and field projects, mostly in eastern and southern Africa. I am initially a specialist of the west-European Middle Paleolithic complexes and Neandertals' technological and subsistence behaviors. My current researches are focused on the Middle Stone Age complex, in collaboration with the ERC program Tracsymbols directed by Professors and Henshilwood and d'Errico, and they also concern the Early Stone Age in East Africa. I am conducting field researches since 2007 in the lower Omo valley (Shungura Formation, Ethiopia) as part of the OGRE program (PI J.R. Boisserie) that relate to the first phases of the Oldowan and to the adaptative behaviors of the earliest toolmakers.

Participant Profile



Institution: CNRS
Institute: Archaeology
Full name: Bruno DUTAILLY
Position: Computer Science Engineer
E-mail: b.dutailly@pacea.u-bordeaux1.fr

Keywords:

(max. 80 characters)

Digitalization - 3D - Modeling - Cultural Heritage - Archaeology - Repositories

Description of Research Interests:

(max. 150 words)

Multi-scale 3D digitalization using laser scanner and photogrammetry: caves, excavations, under-water photogrammetry, objects...

3D Modeling of disappeared edifices: villas, temples, circus, towns, factories...

Cultural heritage preservation: knowledge data base, repository of 3D data, online access with 3D viewer.

Software development applied to Archaeology: TIVMI for CT-scans (X-rays) and point-cloud or meshes.

Participant Profile



Institution:	Bordeaux-Montaigne University
Institute:	Humanities
Full name:	Alexis Gorgues
Position:	Senior Lecturer
E-mail:	Alexis.gorgues@u-bordeaux-montaigne.fr

Description of Research Interests:

(max. 150 words)

My research is mainly focused in southwest Europe Bronze Age and Iron Age economics. In this area, Mediterranean influences (from Greece, the Phoenician world, or Italy) are a key topic: they are often considered as the origin of every evolution observed in southern Gaul or in the Iberian peninsula for the last two millennia BC. I try to discuss this point of view by the study of settlement patterns, trade and production. Recently, I centered my investigation on social networks analysis, in order to understand how could circulate the technological information in a non-urban society. I try to highlight how the social structure would give shape to a “technical culture” common to the people interested in craftworks, and the role of the elites in such a process.

Participant Profile



Institution: CNRS
Institute: IRAMAT-CRP2A
Full name: Pierre GUIBERT
Position: Research Engineer IR HC CNRS, head of IRAMAT-CRP2A
E-mail: guibert@u-bordeaux-montaigne.fr

Keywords:

(max. 80 characters)

Luminescence dating, chronology, archaeometry, building materials

Description of Research Interests:

(max. 150 words)

My main research interests concern ancient building materials as remaining witnesses of the History of Construction, more specifically since the end of the Roman antiquity period. As a specialist of luminescence dating techniques, I consider that the principal aims of dating methods applied to constructions are focused on the chronology of edification, and on the evolution of construction techniques. Indeed, luminescence dating is also able to detect building elements that were re-employed from previous monuments. So, besides the dating itself, new insights about the recycling of hard materials like bricks or tiles in the middle ages can be elaborated and these data contribute to characterise sources of archeomaterials. Methodological researches are undertaken, according to the questions posed and to the objects to be studied. For instance, in the field of archaeology of construction, methodological investigations on mortar dating by single grain optically stimulated luminescence (SG-OSL) are in progress under my supervision.

Participant Profile



Institution: Kyoto University
Institute: Graduate School of Engineering
Full name: Ari Ide-Ektessabi
Position: Full Professor
E-mail: Ide.ari.4n@kyoto-u.ac.jp

Keywords:

(max. 80 characters)

ultra high resolution-color definition, cultural heritage, multispectral, polarized imaging,

Description of Research Interests:

(max. 150 words)

Our current interest is focused on “Analytical Imaging” with special focus on cultural heritage. The Analytical imaging includes multi-spectral imaging, polarized light imaging, infrared imaging of big objects of a few meter by more than 10 meters. The resolution can be 600 to more than 1200 dpi for big objects. Our lab has organized more than 15 domestic and international conferences under the title of “Science and Technology for Art” in Japan and abroad.

Our recent interests (projects) are:

- **Development of High-resolution Large Flatbed Scanner for Digitizing Large Artworks and Non-Destructive Pigment Estimation**
- **An Integrated System for Secure and Dynamic Display of Cultural Heritage**
- **Developing the Technical Foundation for International Digital Museum,**
- **International Joint Research on High Resolution Digitization of Asian World Heritage**
- **Education of Man Power in the Field of Documentation and utilization of Asian (China, Philippines, Malaysia, Myanmar) World Heritage**

Our group conducted more than 50 big projects on the site in Japan, UK, Italy, China, Philippines, Korea and Egypt related to high resolution digitization of important cultural heritage assets.

Participant Profile



Institution: CNRS
Institute: UMR5199 PACEA
Full name: Maureille Bruno
Position: CNRS Head of research, head of the UMR5199 PACEA
E-mail:

Palaeoanthropology, Human evolution, Neandertal, biology, Mousterian, behavior

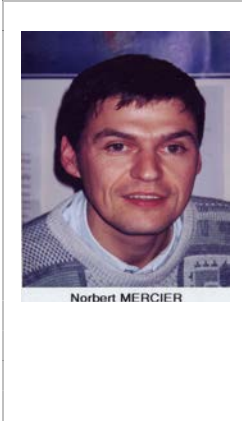
Description of Research Interests:

(max. 150 words)

My main scientific researches are related to a better understanding of the latest part of the humankind evolution, i. e. the human settlement of the ancient world since the first migration outside the African cradle (around 1.8 Ma) until the ancient world complete colonization by anatomically modern humans. For this, I develop four peculiar scientific axes:

- 1) Basic research on the chronological and geographical variability of the skull (morphological metric),
- 2) The metrical and morphological variability of the teeth in the genus Homo,
- 3) the perinate variability in the genus Homo,
- 4) the management of Middle Palaeolithic site excavations (or as a member of scientific teams) which allows me to discuss the behavior of Neandertals and particularly their mortuary or funeral activities.

Participant Profile



Institution: CNRS
Institute: IRAMAT-CRP2A

Full name: MERCIER Norbert
Position: Research Director
E-mail: norbert.mercier@u-bordeaux-montaigne.fr

Keywords:

Development of research tools in luminescence dating and dosimetry.

Description of Research Interests:

(max. 150 words)

Dr. Mercier's PhD thesis in which he developed an improved technique for dating burnt flints on the verge of saturation, provided a new chronology for the Tabun Cave Middle Paleolithic site (Israel), whose lithic industries serve as reference for the entire Near East. In the following years, his main efforts have been devoted to providing thermoluminescence (TL) dates for various Middle Palaeolithic sites around the Mediterranean sea in order to model prehistoric population changes. He set up a laboratory for optical dating (OSL) of sediments using quartz grains and extended his research activities to open-air sites. He participated in several multi-disciplinary projects in Europe, Near-East and South Africa where his interests were focused on the origins of modern humans. After his move to the University of Bordeaux in 2007, he contributed to setting up the largest luminescence dating laboratory in France and worked on the development of new dosimetric tools (minerals, equipments and numerical models) aimed at improving the precision and accuracy of the dating results.

Participant Profile



Institution: University Bordeaux Montaigne
Institute: Institute Ausonius UMR 5607
Full name: Anne MICHEL
Position: Senior Lecturer and Researcher
E-mail: anne.michel@u-bordeaux-montaigne.fr

Keywords:

(max. 80 characters)

Archaeology – Architecture – Urbanism – Late Roman Empire – Eastern Mediterranean – Cultural Transitions.

Description of Research Interests:

(max. 150 words)

- Early Religious Christian Architecture in the Western and Eastern Mediterranean (IVe-VIIIe centuries CE)
- Transformations of the Roman Cities in the Eastern Mediterranean at the Eve of Islam.
- Cultural Transitional Phenomena between the Roman Empire, the Early Byzantine Empire, the Early Islamic Caliphate and the Early Medieval Kingdoms of Western Europe.
- Archaeology of the Construction : Stratigraphical Analysis and Study in a Multidisciplinary Perspective

Participant Profile



Institution: Kyoto University
Institute: International Education Lab., Faculty of Science
Full name: Dr. Arno Suzuki
Position: Senior lecturer
E-mail: arnosuzuki@gmail.com

Keywords:

(max. 80 characters)

Housing, multi-culture, lifestyle, garden, sustainable design, community, preservation

Description of Research Interests:

(max. 150 words)

Dr. Suzuki has been interested in cultural architecture since 1992 when she was an architectural intern in Turin, Italy, and has been looking at materials, space design and lifestyle of different countries. Recently with the accelerated abundance of historical buildings and gardens in Japan, she is also interested in preservation of such assets. Before Kyoto, she taught environmental design at University of California at Davis, USA, and several other universities in Japan. She holds Ph.D. from Kyoto Institute of Technology, Master of Landscape Architecture from University of California at Berkeley, and Bachelor of Agriculture in Wood Science and Technology from Kyoto University. She practiced as a licensed architect in Japan and licensed landscape architect in California, USA. She currently serves as an international student advisor for Graduate School and Faculty of Science. She is also the primary investigator of a national grant research project on international student housing since 2010.

Participant Profile



Institution: Kyoto University
Institute: Centre for Cultural Heritage Studies
Full name: Makoto TOMII (Dr.)
Position: Assistant Professor
E-mail: Tomii.makoto.2e@kyoto-u.ac.jp

Keywords:

(max. 80 characters)

prehistory, archaeology, methodology, logic, excavation, technology, pottery, debitage, *in situ* analysis, archaeological resource management, history of archaeology, natural disaster

Description of Research Interests:

(max. 150 words)

I am interested in the logic and methods of archaeology and prehistory to advance the comprehensive knowledge on the past. My special research interests are in so-called 'chaînes opératoires' in the past of human beings, the application of archaeological studies to natural disaster science, theoretical archaeology including the history of archaeology, and the theory of archaeological resource management. I have tried to extract as much information/data on the past as possible from archaeological materials such as pottery and debitage, as well as from archaeological sites. Both *in situ* analysis of archaeological materials and geological observation of deposition are especially attractive to me. I have also tried to think over the archaeological logic in terms of the reconstruction and presentation of the past, chiefly from the viewpoint of the history of typological studies.