



PRESS TOUR

ARCHEOLOGY

Programme

12 July 2018

PRESS TOUR PROGRAMME

**From past to future:
With TRACES, discover the archeology of the 21st century
New challenges, new methods, new tools**

**Thursday 12 July, 13h – 16h30
Université Toulouse Jean Jaurès**

From assessment to excavation, archeology has taken the turn of the 21st century, using both remote sensing tools, like satellites and drones, as well as spatial analysis and geophysical methods.

The TRACES laboratory (jointly operated by the French National Center for Scientific Research, or CNRS, and the Université Toulouse – Jean Jaurès) invites you to discover their research work on the Mirail campus of the Université Toulouse -Jean Jaurès.

The ArchéoScience platform, created in 2015, is the shared work tool of this research center. It is composed of 13 elements including technical platforms, material repositories (Archeotheques), a resource center etc. Its purpose is to open up to a large scientific community, both regional, national and international.

The TRACES laboratory is one of the members who founded the GIS Micro-drones (ISAE Supaero - ONERA - ENAC – LAAS-CNRS - IMFT - LAPLACE -CNRS-GAME - GEODE) which is attached to the global competitiveness cluster Aeronautics, Space and Embedded Systems.

The GIS promotes a mutual knowledge of research activities which are carried out sometimes in isolation in the different laboratories or research groups.

It is set to coordinate means or methods for publications or joint responses to a call for projects, through in particular the hosting of visiting researchers, and to ensure national and European academic visibility to the research projects conducted by its members in the field of Micro-Drones through the organization of workshops or conferences.



Programme

13h

Welcome at the Maison de la Recherche (Campus Mirail – Université Toulouse – Jean Jaurès)
Presentation of TRACES by Nicolas Valdeyron, head of the laboratory
Informal exchanges with members of TRACES
Buffet lunch at the Maison de la Recherche

14h-15h

Presentation of TIG-3D, technological platform
Geomatics and 3D Imaging with Carine Calastrenc and Nicolas Poirier (CNRS researchers, TRACES)

New perspectives are proposed thanks to the ever greater use of new technologies in archeology- such as drones equipped with various sensors (multispectral, lidar, THRS photography), 3D scanners, ground penetrating radar or photogrammetry.

Remote sensing, topography, 3D imaging: the TIG 3D platform provides support for the acquisition and processing of specialized archaeological information. The TIG-3D board has instrument storage, a photo room with associated equipment and a computer room.

The members of this platform work, not only in France but also abroad, in various research programs carried out by researchers of the Traces laboratory or by other laboratories, such as the Géode laboratory UMR 5602 (Toulouse Jean Jaurès/CNRS) or the Archéorient laboratory UMR 5133 (CNRS/ Université Lyon 2).

They also work for organizations and companies of preventive archeology in the form of contributions or services.

Since 2016 27 operations have been carried out: 12 lidar coverages per drone in France, Spain and Romania, 3 in multispectral data acquisitions by drone and satellite in Egypt and France, 2 thermal images in France and Italy, 8 georadar operations in France, 1 study in magnetometry and 7 topographic surveys on French, Spanish and Emirati sites.

15h-16h

Presentation of the platform dedicated to materials' characterization with Luc Robbiola (CNRS researcher, TRACES)

Material remains have no more secrets thanks to this technical platform that explores their physical and chemical nature.

A valuable tool for archaeologists, whether by simple observation of surfaces or by using samples.

This observation makes it possible to provide answers on the manufacture and use of tools shaped by humans and discovered during excavations (artifacts), but also on the raw materials used, the use, the diffusion and even when those objects are abandoned.

A real science of materials emerges, irrigating other scientific communities (geology, chemistry, physics), with which the TRACES laboratory has built up numerous links.

16h-16h30

Informal questions and interviews

16h30

End of the visit



About the Université Toulouse – Jean Jaurès

The Université Toulouse - Jean Jaurès is a public institution of higher education and research. Located in the Mirail district (Toulouse) since the end of the 60s, the university proposes courses in arts, letters, languages and humanities and social sciences, as well as a renowned research in those fields. Its expertise in both academic and research teaching is internationally recognized. It now has nearly 2,000 staff and more than 30,000 students, spread over several campuses in Occitanie, but also in Hanoi (Vietnam) and Kuala Lumpur (Malaysia). In the early 2000s, it has been involved in the integral reconstruction of its historic Mirail campus, a unique project within Europe. In addition to the State-Region Project Contract (CPER) operations, which have been lead for some decades for approximately 150 million euros, the State has paid and will pay more than 450 million euros for the UT2J. An historic investment !

www.univ-tlse2.fr

About the CNRS

The French National Center for Scientific Research is Europe's largest public research institution. It produces knowledge for the benefit of society. With nearly 33,000 employees, a budget exceeding 3.3 billion euros in 2015 (including a self-generated income of 769 million euros), and offices throughout France, the CNRS is present in all scientific fields through its 1100 laboratories. With 20 Nobel laureates and 12 Fields Medal winners, the organization has a long tradition of excellence. It carries out research in mathematics, physics, information sciences and technologies, nuclear and particle physics, Earth sciences and astronomy, chemistry, biological sciences, the humanities and social sciences, engineering and the environment.

<http://www.cnrs.fr/en>



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