

BAST FROM THE PAST

WHEN ARCHAEOLOGY MEETS MATERIAL SCIENCE

PROGRAMME

Université Bretagne Sud, Lorient, France
October 30-31, 2025

Supported by the ANUBIS and ASGARD projects, an original conference bridging archaeology and materials science

Thursday 30 October

08:30 - 09:00

Registration

09:00 - 09:15

Welcoming note

SESSION 1: Plant fibre structure and identification
(09:15 – 11:05)

09:15 - 10:00

Introductive and invited Talk: Liudmila Kozlova, INRAE, Nantes: *"Textiles, wood, papyrus: what features of plant fibers dictate their usability?"*

10:00 - 10:45

Invited Talk: Hana Lukesova, University Museum of Bergen: *"Unraveling Textile Heritage: Interdisciplinary Approaches to Fibre Species Identification"*

10:45 - 11:05

Emeline Retournard, Université Clermont Auvergne: *"New light on fibres. The use of the reflection optical microscope to determine archaeological textile fibres"*

11:05 – 11:25

COFFEE BREAK

SESSION 2: Focus on collaborative research projects
(11:25 – 12:25)

11:25 - 11:45

Anita Quiles, CEA, Laboratoire des Sciences du Climat et de l'Environnement:

"MERYT : Use of linen textiles for chronological modelling of the Ancient Egyptian Empire"

11:45 - 12:05

Emmanuelle Delqué-Kolic, CEA, Laboratoire des Sciences du Climat et de l'Environnement: *"ISOPALIN : A multi-isotopic approach to reconstructing the growth media of flax fibres used in Ancient Egypt"*

12:05 - 12 :25

Alain Bourmaud, Université Bretagne Sud: *"ANUBIS : Understanding the durability of flax fibres through the study of ancient Egyptian yarns"*

12:30 – 14:00

LUNCH

SESSION 3: Plant fibres in human societies
(14:00 – 14:45)

14:00 - 14:45

Invited Talk: Sabine Karg, Institut für Prähistorische Archäologie, Berlin: *"Flax as a Multipurpose Resource in European and Egyptian Prehistory"*

14:45 - 15:15

Carlo Santulli, University of Camerino: *"Hemp fabric of pictures' canvases from art gallery in Ascoli Piceno, Italy"*

SESSION 4: Advanced techniques for plant fibre characterization
(15:15 – 16:45)

15:15 - 15:45

Alessia Melelli, Synchrotron Soleil: **"Use of Synchrotron tools for ancient plant fibres characterization"**

15:45 - 16:15

Sanaa Galballah, Institut Français d'Archéologie Orientale, Le Caire: **"Development of flax fibre characterization at IFAO"**

16:15 - 16:45

Camille Berruyer, NOVITOM, Grenoble: **"The use of microtomography in Archaeology: applications on ancient textile"**

16:45 – 17:15

COFFEE BREAK

17:15 – 18:00

Tour of IRDL laboratory / Short demos of fibre characterization

Friday 31 October

SESSION 5: Plant fibres in human societies
(09:00 – 10:10)

09:00 - 09:45 - Invited Talk: Camila

Alday, University of Cambridge: **"Archaeobotany of textile plants: Cases from South America"**

09:45 - 10:10 - Jörg Müssig, University of Bremen: **"Fibre forensics: Unravelling History's textiles with DNA"**

10:10 - 10:40
COFFEE BREAK

SESSION 6: Mechanical properties of ancient plant fibre materials: characterization and simulation
(10:40 – 11:30)

10:40 - 11:05 - Camille

Goudenhooff, ENSTA Bretagne: **"Mechanical and biochemical features of archaeological plant fibres"**

11:05 - 11:30 - Sofiane

Guessasma, INRAE, Nantes: **"Advanced numerical models for the understanding of mechanical behaviour of ancient plant fibres and yarns"**

Continuing the conversation: Pathways for collaboration and shared research
(11:30 - 12:20)

11:30 - 11:40 - Introduction: Brief recap of the conference, identify shared research directions and explain the breakout format and expected outcomes

11:40 - 12:10 - Breakout Group Discussions

12:10 - 12:20 - Wrap-Up & Closing Remarks

12 :30 - 14:00
LUNCH

14:00 - 18:00
SOCIAL ACTIVITY