	Monday June 29, 2026	Tuesday June 30, 2026	Wednesday July 1, 2026			Thursday July 2, 2026			Friday July 3, 2026			Saturday July 4, 2026
Location	Amphi B5 PABA	Amphi B5 PABA **Lectures Macroscale**	Amphi B5 PABA **Lectures Morphometrics**			Room Archéovision	Imaging & Informatic rooms (B8)	B2 R+4	PC Room Archéovision	Imaging & Informatic rooms (B8)	B2 R+4	
8h15-8h30	**Welcome / Registration**					**Macroscale**	**Morphometrics**	**Microscale**	**Macroscale**	**Morphometrics**	**Microscale**	Meeting point: B8 at 8h15 departure by bus
8h30-8h45		**Computer graphics - from pixels to 3D rendering**. B. Dutailly	**An Introduction to Morphometrics. From traditional to geometric morphometrics -** The concepts of shape & form - Landmarking and sample size - A discussion on ordination. **L. Courtenay + L. Holbrecht**			**Practice: photogrammetry - N. Zwyns**	Practice - Data segmentation and landmarking on 3DSlicer - **A. Thibeault + A. Sourbé**	Practice - **confocal microscopic acquisition R. Hanon + A. Queffelec**	**Practice: 3D modeling for architectural restitution - V. Baillet (+M. Rouca)**	Practice: Morphometrics with R - **C. Lauer & F. Santos**	**Extract textural data; Data comparison with the ExOsTechBank.** (Licence DigitalSurf to be requested - participants must bring their PC and download R on it) **- R. Hanon + A. Queffelec**	Fieldwork - Saint-Césaire (Charente-Maritime, France)
8h45-9h	Welcome Speech **A. Le Cabec**											
9h-9h15	Keynote - **P. Bayle** (PACEA)											
9h15-9h30	**From the field to the laboratory: 3D imaging in archaeological sciences**											
9h30-9h45	Round table											
9h45-10h												
10h-10h15												
10h15-10h30						***Coffee Break***	***Coffee Break***	***Coffee Break***	***Coffee Break***	***Coffee Break***	***Coffee Break***	
10h30-10h45	***Coffee Break***	***Coffee Break***	***Coffee Break***			Continuation	Continuation	Continuation	Continuation	Continuation	Continuation	
10h45-11h	Digitization in Archaeology: From the physical to the virtual object **A. Le Cabec + N. Vanderesse**											
11h-11h15		Continuation	Fourier analyses - **L. Courtenay**									
11h15-11h30												
11h30-11h45												
11h45-12h												
12h-12h15		**Lunch for all**	**Lunch for all**			**Lunch for all**			**Lunch for all**			**Lunch for all**
12h15-12h30												
12h30-12h45												
12h45-13h	**Lunch for all**											
13h-13h15												
13h15-13h30												
13h30-13h45		Amphi B5 PABA **Lectures Microscale**	Room Archéovision	Amphi B5 PABA	PACEA microscopy + B2 R+4 salle de réunion	Room Archéovision	Imaging & Informatic rooms (B8)	B2 R+4	PC Room Archéovision	Imaging & Informatic rooms (B8)	B2 R+4	
13h45-14h		**What is 3D surface analysis?** What tools are used to investigate the subject? When and why is it relevant to undertake such study? **A. Souron + A. Queffelec**	**Macroscale**	**Morphometrics**	**Microscale**	**Macroscale**	**Morphometrics**	**Microscale**	**Macroscale**	**Morphometrics**	**Microscale**	Fieldwork - Saint-Césaire (Charente-Maritime, France)
14h-14h15	Amphi B5 PABA **Lectures AI**		**Practice: laser scan - I. Intxaurbe**	**An overview of some concrete dilemnas to tackle in geometric morphometrics.** Integration & modularity **(A. Sourbé + T. Colard) -** The study of asymmetry **(Y. Heuzé) -** The study of developmental heterochronies **(A. Souron)**	**Concrete applications at PACEA** + demo with the confocal microscope rooms **L. Courtenay + A. Queffelec**	**Practice: 3D modeling - basics - M. Rouca (+ V. Baillet)**	Practice - 2D Landmarking on TPSdig - **A. Souron + L. Holbrecht**	**Cleaning the acquisitions**; Creating a template; Applying a template on multiple acquisition (Licence DigitalSurf to be requested - participants must bring their PC) **- R. Hanon + A. Queffelec**	**Practice: putting all together in 3DRIS - B. Dutailly & V. Baillet**	Continuation Practice: Morphometrics with MorphoJ - **Y. Heuzé**	**Making figures and table ready for publication**; Writing the "Methods" and "Results" section. (Participants must download R on their PC) **R. Hanon + A. Queffelec**	
14h15-14h30	Open Science **A. Queffelec**											
14h30-14h45												
14h45-15h												
15h-15h15												
15h15-15h30	Epistemology of the Digital Revolution **M. Lequin**											
15h30-15h45	***Coffee Break***	***Coffee Break***	***Coffee Break***	***Coffee Break***	***Coffee Break***	***Coffee Break***	***Coffee Break***	***Coffee Break***	***Coffee Break***	***Coffee Break***	***Coffee Break***	
15h45-16h												
16h-16h15	An introduction to the Power and Pitfalls of Machine Learning **L. Courtenay**	Mahr presentation	Continuation	Continuation	Continuation	**Practice: color sampling - A. Mounier & S. Petitcolas**	Practice: General introduction to R - **C. Lauer & F. Santos**	Continuation	Continuation	Continuation	Continuation	
16h15-16h30												
16h30-16h45												
16h45-17h	AI and Computer Vision **N. Vanderesse**	**Visit of the micro-CT scanner at PLACAMAT** (2h15 max) **N. Vanderesse + A. Le Cabec** 2 groups minimum (10 pers. max), 15 mins signature/ group										
17h-17h15												
17h15-17h30	Using LLM for data extraction and analysis **P. Guérin**		Keynote Speaker: **Andreu Ollé** (IPHES-CERCA, Spain) Facing the study of use-wear and residues on stone tools through a multi-technique approach Online (Amphi B5 PABA + Chouette)			Keynote Speaker: **Markus Bastir** (Museo Nacional de Ciencias Naturales CSIC, Madrid, Spain) Reconstructing the Past: 3D Geometric Morphometrics and Virtual Anatomy in Human Evolution (Amphi B5 PABA)			Keynote Speaker: **Nadia Spang Bovey** (Université de Lausanne, Faculté des Lettres, Centre NUCLEUS, Switzerland) Preservation of 3D Models and Data on the Long Term: Why and How to Mitigate the Risks of Technological Obsolescence Odeon, UBM			Return by bus
17h30-17h45												
17h45-18h	Prompt design for code generation **B. Dutailly**											
18h-18h15	Cocktail 1		Diner in town (TBD) for group leaders, keynote speakers, organizers, lab directors						Cocktail 2			
18h15-18h30												
18h30-18h45												
18h45-19h												