

INTERNATIONAL
SYMPOSIUM ON
ARCHAEOLOGY

18-22
MAY
TURIN
ITALY

BOOK OF
ABSTRACTS

Draft – subject to minor changes

CHEMISTRY PHYSICS LI
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ISA
2026

Organized by



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DI TORINO



ASSOCIAZIONE
ITALIANA DI
ARCHEOMETRIA



CENTRO
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RESTAURO *La Venaria Reale*



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1824 — 2024



Istituto Nazionale di Fisica Nucleare



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T T A
By Fulvio Fantino



Start-test



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Università di Torino:



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Studi Storici



Scuola di specializzazione
in Beni archeologici
Giorgio Gullini

Under the auspices of

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ARCHEOMATICA

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Welcome to ISA 2026 in Torino

The Organising Committee is delighted to welcome you to Torino, a city where science, history, and cultural heritage have long been intertwined, and where research extends beyond the laboratory to engage continuously with the wider community. ISA 2026 has been conceived with this vision in mind: not only as a forum for scientific exchange among experts, but also as an open and dynamic meeting point between archaeometry experts and society.

Throughout the symposium, the programme will alternate between sessions reserved for ISA 2026 participants and initiatives designed to engage a broader audience. This approach reflects a shared vision among the organising institutions, all deeply committed to moving beyond the boundaries of academia and fostering meaningful dialogue with the public. Science, particularly when it relates to our shared past, gains deeper significance when it is communicated, discussed, and experienced collectively.

In this perspective, the congress is intentionally distributed across three different venues, each representing a distinct facet of Turin's identity. Moving between them, you will experience the city itself: its spaces, its history, and its vibrant cultural fabric. In addition, oral sessions will be live-streamed, allowing ISA 2026 to extend beyond physical locations and unfold across both urban and virtual spaces, inviting broader exploration and connection.

Particular attention has been given to the poster session, conceived as a central moment of exchange. Posters will be physically displayed and presented by the authors in the remarkable setting of the Palazzo Reale, fostering a direct dialogue between cutting-edge research and one of the city's most iconic historical sites. At the same time, dedicated digital tools ensure that all contributions remain accessible on participants' personal devices, including those attending online, allowing discussion and interaction to extend beyond space and time constraints.

We hope that you will experience this congress not only as a scientific meeting, but as a shared journey—across disciplines and people, and between science and the city.

Welcome to ISA 2026, and welcome to Torino!

Statement by the Organising Committee on ethical, regulatory, and contested heritage contexts

The Organising Committee of the International Symposium of Archaeometry (ISA 2026) is aware that some scientific contributions presented at the conference may address archaeological materials, sites, or datasets originating from regions affected by territorial conflicts or situations of contested sovereignty.

To ensure scientific rigour, transparency, and institutional responsibility, the Committee sets out below the principles and procedures that guide the organisation of the Symposium under such circumstances.

1. Scientific evaluation and scope of the International Symposium on Archaeometry

The ISA is a scientific forum for discussing analytical methods, data interpretation, and interdisciplinary research on cultural heritage.

The scientific evaluation of abstracts and submissions is the responsibility of the ISA Standing Committee (SC) and is conducted solely on the basis of scientific merit.

2. No political or legal recognition implied

The acceptance and presentation of a contribution at ISA 2026 does not constitute recognition, endorsement, or legitimisation of any territorial claims, political positions, institutional authorities, or funding bodies related to the areas or materials under discussion.

3. Roles and responsibilities of the Organising Committee

The ISA 2026 Organising Committee (**OC**) is responsible for ensuring a welcoming, inclusive, and safe setting for all participants in the 45th International Symposium on Archaeometry to be held in Turin, regardless of gender, gender identity, sexual orientation, disability, physical appearance, ethnicity, nationality, religion, or career stage.

In fulfilling this responsibility, the OC undertakes to adopt practices aimed at preventing situations that may conflict with national and international regulations and the ethical standards respected by the institutions represented within the Committee.

4. Legal and ethical models

The OC confirms its commitment to international legal instruments for the protection of cultural heritage, including the 1954 Convention for the Protection of Cultural Property in the Event of Armed Conflict (*The Hague Convention*) and its related protocols.

In the context of ongoing international developments, ISA 2026 pays particular attention to the ethical and compliance-related implications of the provenance of materials, the historical background of their acquisition, institutional affiliations, and funding sources.

5. Disclosure and provenance of materials

Authors are encouraged to showcase transparency by detailing:

- the provenance of the materials analysed,
- the historical and executive context of their acquisition,
- the legal and ethical models applicable to their research.

6. Handling of reasonable doubts

In cases of reasonable doubt concerning provenance, ownership, or compliance with applicable ethical standards, the OC promotes disclosure, contextualisation, and open scientific dialogue.

Any reported concerns will be taken seriously and dealt with promptly by designated members of the OC.

7. Distinction between researchers and institutions

The OC recognises the distinction between individual researchers and the institutions or political entities with which they may be affiliated, and supports the principle that scientific exchange, when carried out transparently and responsibly, is a fundamental tool for knowledge production, critical assessment, and international dialogue.

8. Measures and editorial oversight

The ISA 2026 OC reserves the right, at any time, to take appropriate measures, including requesting clarifications, applying editorial conditions (such as disclaimers or context-related notes) in consultation with the author(s), or, where necessary, rejecting contributions or removing them from the Book of Abstracts, should a contribution be found to be in conflict with the principles outlined above.

In situations where an institutional affiliation may raise ethical, legal, or regulatory concerns — for example in contexts of contested sovereignty or ongoing conflict — the Committee may consider proportional editorial measures. These may include, where appropriate, the acceptance of the individual researcher's contribution while requesting the removal or modification of the institutional affiliation in the programme, abstracts and presentations, in order to avoid any implicit institutional or political legitimisation.

Three Prestigious and Historical Venues



The Congress Centre of the Association of the Industrials

Entrance for attendees:

[Via Vincenzo Vela, 17 - 10128 Torino](#)

How to reach: [here](#)

Auditorium of the Aldo Moro Complex, University of Turin

Entrance for attendees:

[Corner of Via G. Verdi and Via Sant'Ottavio Street,
Lower Ground Floor \(-1\)](#)

How to reach: [here](#)

Royal Palace

Entrance for attendees:

[Piazzetta Reale 1 - 10122 Torino](#)

How to reach: [here](#)

Social events (more info [here](#))

Museo Egizio

Monday May 18th, [via Accademia delle Scienze 6](#)

Special tour to Aosta

Saturday May 23rd

Sessions

TS - Theme Session - Cultural heritage experiences and community engagement through archaeometry

This special session explores how museums and cultural or scientific institutions can serve as visitor-centred platforms for interdisciplinary dialogue and innovative, yet rigorous, narratives. We invite contributions showcasing projects or best practices that engage broader audiences and creatively communicate the value of archaeometry. Relevant topics include communication strategies, objectives, challenges, and social or cultural impacts.

S1 - Field methods and remote sensing in archaeological science

This session welcomes presentations on archaeological science field methods including surveying and remote sensing techniques such as aerial survey, geophysical survey, surface survey, satellite imaging and LiDAR applications.

S2 - Dating methods

This session welcomes presentations on chronometric applications in archaeology (radiocarbon, dendrochronology, fission track, potassium-argon, luminescence, archaeomagnetic, U-series, etc) relating to artefacts, archaeological landscapes, food remains, shells and skeletal material.

S3 - Bioarchaeology and biomolecules

This session welcomes presentations on the molecular study of archaeological human, faunal, and plant remains. Research on organic residue in use wear is also included.

S4 - Material Culture 1 - Stone, pigments, plasters

This session welcomes presentations on the archaeometric study of stone (artefacts, including the obsidian ones, monuments, stone arrangements and megaliths) pigments, and plasters with a focus on spatial analysis and production technology to facilitate greater understanding of provenance, raw material preference and functionality.

S5 - Material culture 2 - Ceramic, vitreous materials

This session welcomes presentations on the study of ceramic and vitreous materials (including glass and glaze) with a focus on provenance, production technology and raw material trade.

S6 - Material culture 3 - Metals

This session welcomes presentations on the latest research in metal artefacts from archaeological contexts. Topics of interest include, but are not limited to, metallurgical techniques, material characterization, provenance studies, and the role of metals in past societies.

S7 - Human-environment interactions

This session welcomes papers that discuss the dynamic interplay between humans and the environments they have inhabited throughout the past, from deep time to the recent past. How have humans responded to climatic change, how did they adapt to changing environments and how did they modify their environments? This session embraces research from all fields of inquiry including palaeoclimatology, palaeoenvironmental sciences, geoarchaeology, palaeoecology, geomorphology, archaeobotany and zooarchaeology. This session especially welcomes papers incorporating traditional ecological knowledge from across the globe.

S8 - Digital tools for archaeometry

This session invites contributions that showcase digital tools and computational approaches designed to enhance the interpretation of scientific data in archaeometry. We are particularly interested in methods that help bridge the gap between data acquisition and historical understanding — including data integration platforms, modelling techniques, visualisation tools, and AI-assisted analysis. The aim is to explore how digital science can support more nuanced, reproducible, and interdisciplinary reconstructions of the past.

Invited Lectures

Keynote lecture – May 18th, 2026

'Let the coffin speak': New perspectives through a material approach

Alessia AMENTA

Vatican Museums (Vatican City – Vatican City State)

Alessia Amenta is curator of the Department of Egyptian and Ancient Near Eastern Antiquities of the Vatican Museums. Currently she coordinates the Vatican Coffin Project, an international team project for the study and conservation of the 'yellow coffins' of the Third Intermediate Period.

Keynote lecture – May 19th, 2026

New frontiers in Japanese archaeology through interdisciplinary research

Joseph RYAN

Research Institute for the Dynamics of Civilizations

Okayama University (Okayama – Japan)

Joseph Ryan is an archaeologist working in Japan whose research focuses on the production and circulation of metal weapons and tools during Japan's Yayoi and Kofun periods (4th C. BC - 7th C. AD)

Focus lecture 1- May 20th, 2026

Technologies Supporting Archaeometry

Thilo REHREN

The Cyprus Institute Archaeological Science Laboratories

Trained in geology and archaeological materials, he worked at the Deutsches Bergbau-Museum and then at the UCL Institute of Archaeology before taking up his post as A. G. Leventis Professor for Archaeological Sciences at the Cyprus Institute.

Focus lecture 2- May 20th, 2026

European Research Council funding opportunities for Archaeometry

Pedro DÍAZ-DEL-RÍO

European Research Council Executive Agency

Pedro Díaz-del-Río is a prehistoric archaeologist at the Spanish CSIC. He currently serves as a Scientific Officer for the ERCEA's SH6 Panel, The Study of the Human Past.

Keynote lecture – May 22nd, 2026

Scientific Diplomacy and International Law: a framework of necessary interaction in the perspective of archeometric studies

Alberto ODDENINO

Department of law – University of Turin (Turin – Italy)

Alberto Oddenino is Professor of International law and international arbitration law at the University of Turin and Visiting Professor at several universities worldwide. He is an expert in the interaction between law and technology.

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18-22
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ISA 2026 – Full schedule

Monday 18 May 2026

Place: Auditorium of the Aldo Moro Complex - University of Turin ([here](#))

- 08:30 – 10:00 Registration
- 10:00 – 10:30 Conference Opening – Institutional Welcome
- 10:30 – 11:30 **Keynote**
[‘LET THE COFFIN SPEAK’: NEW PERSPECTIVES THROUGH A MATERIAL APPROACH](#)
A. Amenta
- 11:30 – 13:30** **SPECIAL SESSION TS – Cultural Heritage Experiences**
Chairs: A. Amenta, P. Degryse
- 11:30 – 11:50 [FROM UNWRAPPING TO VIRTUAL IMAGING: ARCHAEOLOGY AND THE EXHIBITION OF EGYPTIAN MUMMIES AT THE MUSÉE CHAMPOLLION \(VIF, FRANCE\)](#)
C. Berruyer*, L. Antunes and C. Dugand
- 11:50 – 12:10 [FROM INVISIBLE ANALYSIS TO SHARED KNOWLEDGE: TEN YEARS OF ARCHAEOLOGY AT THE MUSEO EGIZIO](#)
E. Ferraris*
- 12:10 – 12:30 [HOW TO GAIN ATTENTION FOR ARCHAEOLOGY ON THE WORLD’S BIGGEST SAILING EVENT – AND HOW TO MAKE IT HAPPEN ACROSS THE GERMAN-DANISH BORDER](#)
H. Groß*, T. Zeeck, J. Steffen, A. Løchte Jørgensen, B. Jørgensen, C. Bratt Lauridsen, and L. Kienle
- 12:30 – 12:50 [RECONSTRUCTING KNOWLEDGE TOGETHER: COMMUNITY EXPERIMENTATION WITH CERAMIC NEGATIVE DECORATION TECHNIQUES IN THE NARIÑO HIGHLANDS \(COLOMBIA\)](#)
C. Klesner*, S. Eraso, L. Campos, and M. Martinon-Torres
- 12:50 – 13:10 [CLAY AS A MEETING POINT: ARCHAEOLOGICAL SCIENCE AND COMMUNITY ENGAGEMENT THROUGH CERAMICS](#)
C. Gardner*

- 13:10 – 13:30 ["PERCEIVE ISIS' COLOURS": BRIDGING SCIENTIFIC DATA AND EXPERIENTIAL COMMUNICATION OF ANCIENT POLYCHROMY](#)
F. Bonifazi*, I. Cerato, R. Iannaccone, D. Magrini, M. Massidda, and S. Pescarin
- 13:30 – 15:00 Lunch at Musei Reali Torino ([here](#))
Transfer to Aldo Moro Complex

Place: Auditorium of the Aldo Moro Complex - University of Turin ([here](#))

15:00 – 17:00 SESSION S2 – Dating methods
Chairs: A. Gueli, A. Galli

- 15:00 – 15:20 [FIRST DATES AND CHEMICAL ANALYSIS OF ROCK ART FROM POTOSÍ, BOLIVIA](#)
R. A. Armitage*, M. R. Gomez Saavedra, R. Saavedra, M. Strecker, and D. Holmes
- 15:20 – 15:40 [CERAMIC REHYDROXYLATION DATING: A METHODOLOGICAL INTEGRATION OF INFRARED SPECTROSCOPY AND FTIR-TGA FOR HYDROXYL QUANTIFICATION AND GRAVIMETRIC KINETICS, AND ITS APPLICATION TO LOW-FIRED EARTHWARES](#)
F. Maspero*, C. Stevenson, M. Gurnick, O. Misiats, J. Orsilli, M. Martini, and A. Galli
- 15:40 – 16:00 [ADVANCES IN USING OXALATE-RICH MINERAL COATINGS AS DATING TOOLS IN AUSTRALIAN ROCK ART SHELTERS](#)
H. Green*, F. Ruzain, R. Popelka-Filcoff, B. Martin, A. Unghango., and I. Waina
- 16:00 – 16:20 [DEVELOPING A THERMOLUMINESCENCE APPROACH TARGETING THE CARBONATE FRACTION IN MORTARS: PRELIMINARY VALIDATION AGAINST SINGLE-GRAIN OSL](#)
R. Galvagno*, C. Lahaye, M. Liuzzo, G. Margani, R. Reitano, G. Stella, C. Tardo, P. Urbanová, and A.M. Gueli
- 16:20 – 16:40 [CHRONOLOGICAL RECONSTRUCTION OF THE BUILDING PHASES OF THE LARGEST URBAN CENTER OF EUROPE'S PREHISTORY; A COMBINED TL AND RADIOCARBON DATING STUDY IN POLIOCHNE, LEMNOS](#)
G.S. Polymeris*, G. Tampakopoulou, J. Sanjurjo-Sánchez, I.K. Sfampa, G. Kitis, K. Stamoulis, A. Hein, A. Vafiadou, Y. Soukantos, P. Triantafyllidis, and Y. Facorellis
- 16:40 – 17:00 [ARCHAEOMAGNETISM AS AN ABSOLUTE DATING TECHNIQUE FOR BAKED CLAYS: NEW PERSPECTIVES AND CHALLENGES](#)
E. Tema
- 17:00 – 17:30 Transfer break
- 17:30 – 18:30 Visit to Museo Egizio ([here](#))**

Tuesday 19 May 2026

Place: Congress centre of the Association of the Industrialists ([here](#))

- 08:30 – 09:00 Registration
- 09:00 – 11:00** **SESSION S4 – Material Culture 1 – Stone, pigments, plasters**
Chairs: F. Pozzi, J. Pérez Arantegui
- 09:00 – 09:20 ENHANCING IN-SITU DIAGNOSTICS THROUGH AUTOMATED MULTIMODAL PIGMENT ANALYSIS
I. Ferrara*, S. Gallo, A.M. Gueli, G. Politi, and G. Stella
- 09:20 – 09:40 ARCHAEOLOGICAL INSIGHTS INTO MIDDLE KINGDOM PAINTED SCULPTURES FROM ASYUT
N. Manfredda*, P. Buscaglia, P. Del Vesco, M. Borla, A. Re, L. Guidorzi, F. Tansella, M. Magalini, L. Vigorelli, T. Poli, C. Ricci, T. Cavaleri, and A. Lo Giudice
- 09:40 – 10:00 A PREHISTORIC COLORED LANDSCAPE: UNDERSTANDING THE SUPPLY OF THE PICTORIAL MATTER
E. Chalmin*, H. Salomon, A.L. Develle, C. Theron, W. Bouits, A. Molard, A. Gaudin, and C. Defrasne
- 10:00 – 10:20 SYNCHROTRON-INDUCED MICRO-X-RAY FLUORESCENCE IMAGING OF PREHISTORIC PIGMENTS FROM THE PALEOLITHIC CAVE OF LA GARMA, NORTHERN SPAIN
I. Reiche*, J. Tapia, K. Müller, S. Schöder, and P. Arias
- 10:20 – 10:40 IMPROVING MINOR COMPOUND IDENTIFICATION IN PIGMENTS VIA AUTOMATED, HIGH RESOLUTION CONFOCAL RAMAN SPECTROSCOPY
M.A. Johns*, H. Groß, T. Boyadzhieva, F. Handberg, S. Ayvaz, L. Kienle, and J. Fiutowski
- 10:40 – 11:00 “FORGOTTEN COLORS” OF EARLY MEDIEVAL WALL PAINTINGS IN THE RAETIA CURIENSIS. NATURAL, ARTIFICIAL, ALTERED BLUE PIGMENTS
G. Cavallo*, P. Cassitti, L. Villa, M. Aceto, and C. D’Erme
- 11:00 – 11:30 Coffee break
- 11:30 – 13:30** **SESSION S4 – Material Culture 1 – Stone, pigments, plasters**
Chairs: F. Rademakers, B. Mac Donald
- 11:30 – 11:50 THE ROLE OF EGYPTIAN BLUE IN EARLY ROMAN JUDEA: PRODUCTION TECHNOLOGY AND PROVENANCE
Y. Asscher*, A. Leviant, D. Yogev, L.N. Sharabi, A. Baragona, and A. Rodler
- 11:50 – 12:10 UNVEILING THE HYDRAULICITY ENIGMA OF THE MASONRY PLASTERS OF THE ROMAN THEATER OF AUGUSTA RAURICA
M.T. Affonso* and E. Boehm-Courjault
- 12:10 – 12:30 FROM HISTORIC TO RESTORATION MORTARS: A MULTI-ANALYTICAL APPROACH FOR THE FORMULATION AND TESTING OF POZZOLANIC BINDERS PRODUCED WITH EUGANEAN VOLCANIC BRECCIA
V. Razzante*, M. Secco, E. Garbin, A. Famengo, and A. Arizzi
- 12:30 – 12:50 THE HUNT FOR GARNET PROVENANCE: MULTIVARIATE RAMAN DATA ANALYSIS OF MIGRATION PERIOD POLYCHROME JEWELRY
L. E. Aradi*, E. Horváth, V. Mozsai, B. Bajnóczi, and T. Vácsi
- 12:50 – 13:10 BLACK IS BACK – THE IGNEOUS LONG BLADES CIRCULATION IN SOUTHWEST IBERIA ON 3rd MILLENNIUM BCE
P. Jordão*, S. Soares, C. Neves, A. C. Valera, and A. Morgado-Rodríguez

13:10 – 13:30 [HIGH-RESOLUTION PHOTOGRAMMETRY AS AN ARCHAEOLOGICAL TOOL FOR THE REASSESSMENT AND DECAY ANALYSIS OF THE TĀQ-E BOSTĀN ROCK RELIEFS](#)
A. Shekofteh* and F. Salehi

13:30 – 15:00 Transfer break

Place: Musei Reali Torino ([here](#))

15:00 – 16:00 Keynote - Hall of the Swiss Guards

[NEW FRONTIERS IN JAPANESE ARCHAEOLOGY THROUGH INTERDISCIPLINARY RESEARCH](#)

J. Ryan

16:00 – 19:00 POSTER (ALL sessions) & coffee – Court of Honour

18:00 – 19:00 Optional free visit to Musei Reali Torino

Wednesday 20 May 2026

Place: Congress centre of the Association of the Industrialists ([here](#))

- 08:30 – 09:00 Registration
- 09:00 – 10:40** **SESSION S1 – Field methods and remote sensing**
Chairs: L. Barba, M. Serino
- 09:00 – 09:20 [BEFORE DIGGING: INTEGRATING RADAR, ELECTRICAL, MAGNETIC, LIDAR SURVEYS FOR ARCHAEOLOGICAL PROSPECTION AT SELINOUS, SICILY](#)
M. Serino, F. Diara, A. Pane, P. Capizzi, R. Martorana, V. Sapia, V. Romano, V. Materni, G. Sapio, A. Merico, C. Comina, and A. Vergnano*
- 09:20 – 09:40 [A COMBINED SATELLITE, UAV, GEOPHYSICAL AND GNSS-PPP APPROACH TO ARCHAEOLOGICAL PROSPECTION AT ZAR TEPE \(UZBEKISTAN\)](#)
J. Angás*, P. Uribe, V. Martínez-Ferreras, C. Iranzo J.M. Gurt, A. Zakirov, I. Yanbukhtin, U. Musaev, H. Hoshimov, E. Ariño, O. Lanzas, and S.R. Pidaev
- 09:40 – 10:00 [MULTI-SCALE LIDAR, FIELD SURVEY, AND GEOCHEMICAL APPROACHES FOR STONE PROVENANCE ANALYSIS: INITIAL RESULTS FROM THE EUQUGEA PROJECT \(EUGANEAN HILLS, ITALY\)](#)
J. Olah*, M. Secco, S. Dilaria, C. Previato, and J. Bonetto
- 10:00 – 10:20 [GEOPHYSICAL INVESTIGATIONS AT THE NEOLITHIC SETTLEMENT OF ÇAYÖNÜ TEPE, TURKEY](#)
I. Akca*, S. Sarialtun, S. S. Lalli, and E. U. Ulugergerli
- 10:20 – 10:40 [GEOCHEMISTRY AND REMOTE SENSING: THE PASTORAL LANDSCAPE OF DHOFAR, OMAN FROM ABOVE](#)
A. Koutroumpas*, S. Lischi, and S. Biagetti
- 10:40 – 11:10 Coffee break
- 11:10 – 12:00** **Focus lecture I (as part of SAS anniversary celebrations)**
[TECHNOLOGIES SUPPORTING ARCHAEOMETRY](#)
Th. Rehren
- 12:00 – 13:00** **Session IS - Technologies supporting archaeometry**
Chairs: M. Gulmini, A. Re
- 12:00 – 12:15 [ISOCORE \(SRL\), ACADEMIC SPIN-OFF: CURRENT STATUS AND PERSPECTIVES IN THE FIELD OF HIGH-SENSITIVITY ISOTOPIC METHODOLOGIES APPLIED TO CULTURAL HERITAGE](#)
F. Marzaioli*, F. Terrasi, A. D’Onofrio, L. Gialanella, G. Porzio, R. Buompane, V. Roca, and I. Passariello
- 12:15 – 12:30 [HERA: A FOURIER-TRANSFORM BASED HYPERSPECTRAL CAMERA FOR THE ANALYSIS OF CULTURAL HERITAGE OBJECTS](#)
M. Ghirardello
- 12:30 – 12:45 [CHEMICAL IMAGING AND MOLECULAR SPECTROSCOPY: FUTURE IS NOW](#)
D. Sali* and F. Knechtel
- 12:45 – 13:00 [SPECTRAL IMAGING ANALYSIS WITH HMI. A CASE STUDY: FRAGMENTS OF ANCIENT EGYPTIAN CARTONAGE](#)
M. Melis*, F. Bigghi, X. Chen, S. Hanlou, D. Scalabrin, and G. Tescarollo
- 13:00 – 14:00 Lunch at the Congress Center

14:00 – 14:30

Focus Lecture II

EUROPEAN RESEARCH COUNCIL FUNDING OPPORTUNITIES FOR ARCHAEOLOGY

P. Díaz del Río

14.30 - 16.30

SESSION S3 – Bioarchaeology and biomolecules

Chairs: R. A. Armitage, B. Demarchi

14:30 – 14:50

POMPEII ADDICTION: INTEGRATED ISOTOPIC AND ARCHAEOLOGICAL APPROACHES TO LIFE, ECONOMY, AND MOBILITY

V. Giacometti*, N. Mantile, S. Altieri, M. R. di Cicco, V. Amoretti, C. Comegna, Y. Naime, S. Soncin, G. Zuchriegel, and C. Lubritto

14:50 – 15:10

FROM FISH TO RABBITS: ARCHAEOLOGY INSIGHTS INTO FIVE CENTURIES OF DIETARY ADAPTATION IN A MEDIEVAL MUSLIM MINORITY (TUDELA, NAVARRE, 11th-15th C.)

P. Pérez-Ramallo*, J. Sesma Sesma, O. Villanueva Zubizarreta, A. M. Gomes, D.I. Hernández-Zaragoza, R. Barquera, and P. Roberts

15:10 – 15:30

UNLOCKING BIOMOLECULES WITH SUPERCRITICAL CO₂: A NEW ANALYTICAL FRAMEWORK IN ARCHAEOLOGY

T. Devière*, E. Badens, C. Crampon, Y. Fagault, M. Fernandez, A. Joly, I. Lhoste, O. Pollet, K. Seaudeau-Pirouley, L. Spanneut, and K. Wilk

15:30 – 15:50

REDEFINING ANCIENT EGYPTIAN WOODCRAFT THROUGH ARCHAEOLOGY: MULTIDISCIPLINARY CASE STUDIES FROM THE MEDJEHU PROJECT

G. Eschenbrenner Diemer, A.G. De Marco*, P. Marini, and M. Serpico

15:50 – 16:10

GC-MS AND HS-SPME-GC-MS ANALYSIS OF OXALATE-RICH ROCK COATINGS

J. Russ

16:10 – 16:30

MICROBOTANICAL STUDY OF PHYTOLITHS AND STARCH GRAINS FROM GRINDING STONE AT OUED BEHT (MOROCCO)

G. R. Bartuli*, M. Jovanovic, F. M. Rega, N. Garcia Tuset, Y. Bokbot, S. Biagetti, C. Broodbank, and G. Lucarini

16:30 – 17:00

Coffee break

17:00 – 18:30

SESSION S7 – Human-environment interactions

Chairs: M. Radivojevic, C. Mazzucato

16:30 – 16:50

PLOUGH, CART AND ADAPTATION: TRACING HUMAN-ENVIRONMENT INTERACTION THROUGH BOVID TRACTION IN HARAPPAN GUJARAT

A. Lamba*, P. Ajithprasad and S. Channarayapatna

16:50 – 17:10

THE FIRST INDUSTRIAL AGE: BRONZE AGE METALLURGY AND ITS LEGACY OF CARBON EMISSIONS

M. Radivojević*, C.J. Stevens, R. Roberts, and D. Fuller

17:10 – 17:30

(RE)MODELLING NORTH AFRICA. INVESTIGATING LAND USE IN THE HOLOCENE

S. Scaglia*, G. Lucarini, K. Manning, and S. Biagetti

17:30 – 17:50

ADVANCING MULTI-PROXY APPROACHES TO RECONSTRUCT HUMAN-ENVIRONMENT DYNAMICS IN NEOLITHIC AND DYNASTIC EGYPT

H. Sheisha

17:50 – 18:10

A LIBS-BASED ARCHAEOLOGICAL APPROACH TO PALAEOCLIMATE VARIABILITY AND HUMAN-ENVIRONMENT DYNAMICS

D. Theodoraki* and N. Hausmann

18:10 – 18:30

STANDARDIZING REE PATTERNS TO INTERPRET ANTHROPOGENIC FEATURES
IN MESOLITHIC AND NEOLITHIC SITES OF THE IBERIAN MEDITERRANEAN
BASIN

G. Gallelo*, O. García-Puchol, M. Ramacciotti, S. Pardo, A. Cortell-Nicolau, L. Molina-Balanguer, S. B. McClure, J. Bernabeu, S. Chenery, D. Stump, A. Diez-Castillo, J.J. Cabanilles, and A. Pastor

Thursday 21 May 2026

Place: Congress centre of the Association of the Industrialists ([here](#))

- 08:30 – 09:00 Registration
- 09:00 – 11:00** **SESSION S6 – Material Culture 3: Metals**
Chairs: A. Franjic, J. Pinar Jil
- 09:00 – 09:20 COMPOSITION AND COPPER SOURCES OF METAL OBJECTS IN ITALY DURING THE EARLY BRONZE AGE: NEW AND OLD DATA IN CONTEXT
I. Angelini*, G. Artioli, M. Rapi, and R.C. de Marinis
- 09:20 – 09:40 LEADED COPPER CRESCENT-SHAPED OBJECTS FROM MEDIEVAL GAO, MALI: INTENTIONALLY ALLOYED?
A. B. Babalola*, M. Desai, F. W. Rademakers, M. Cissé, P. Degryse, and Th. Rehren
- 09:40 – 10:00 PAST CORROSION, FUTURE CHALLENGES: TRACING CORROSION FROM SHIPWRECKS TO FUTURE CLIMATE SCENARIOS
L. P. Cesareo*, C. Mondelli, F. Salvemini, L. Germinario, I. D. MacLeod, C. Ambrosi, S. Demesticha, L. Donnarumma, F. Martins, E. Loizides, F. Ruberti, A. Sorci, and C. Mazzoli
- 10:00 – 10:20 HOW TO PICTURE SILVER COINS: A CO-SPATIAL μ -RAMAN AND IBA MAPPING OF ARGIVE COINAGE
N. Gros*, L. Baseil, C. Flament, J. L. Colaux, and F. Cecchet
- 10:20 – 10:40 THE USE OF STEEL IN SCANDINAVIA FROM THE IRON AGE TO THE VIKING AGE
A. Jouttijärvi
- 10:40 – 11:00 RECONSTRUCTING EARLY HARAPPAN COPPER SMELTING PRACTICES THROUGH SLAG ANALYSIS FROM KUNAL, INDIA
A. P. Kanth
- 11:00 – 11:30 Coffee break
- 11:30 – 13:30** **SESSION S6 – Material Culture 3: Metals**
Chairs: Th. Rehren, V. Orfanou
- 11:30 – 11:50 THE NORTHERN STEPPE METALLURGICAL LINK: TRANSMISSION OF EARLY 2nd MILLENNIUM BC COPPER PRODUCTION FROM THE URALS TO CENTRAL KAZAKHSTAN
I. Calgaro*, M. Radivojević, I. Shevnina, A. Logvin, and A. S. Yermolayeva
- 11:50 – 12:10 FROM THE SURFACE TO THE HEART OF METAL: A CROSS-ANALYTICAL APPROACH IN THE ITINERIS PROJECT
S. Many*, V. Cicolani, B. Mille, and J. Legendre
- 12:10 – 12:30 RETHINKING EFFICIENCY: COMPARING TWO AFRICAN IRON SMELTING TECHNIQUES
M. Morel*, C. Robion-Brunner, C. Radimilahy, H. T. Kienon Kabore, and V. Serneels
- 12:30 – 12:50 SARDINIAN BRONZE AGE FIGURINES: ON THE TRAIL OF METAL-DRIVEN INTERACTION AND MIXING PRACTICES IN THE EARLY FIRST MILLENNIUM BCE
H. W. Nørgaard*, D. Berger, H. Vandkilde, and G. Salis

- 12:50 – 13:10 [UNDERSTANDING THE END OF THE BRONZE AGE IN THE EASTERN MEDITERRANEAN THROUGH METALLURGICAL TECHNOLOGY AND KNOWLEDGE NETWORKS](#)
V. Orfanou*, K. Aktypi, A. Batziou, E. Borgna, Th. Giannopoulos, A. Franjic, O.A. Jones, C. Kleitsas, K. Kostanti, Y. Lavallée, I. Lemos, D. Müller, P. Degryse, and P.W. Stockhammer
- 13:10 – 13:30 [TWO THOUSAND YEARS OF HERRERA AND MUISCA GOLDWORK: BIOGRAPHIES OF METAL OBJECTS AT NUEVA ESPERANZA](#)
A. Benzonelli*, S. Rivas Estrada, J. Otero Santillan, G. Calderon Rodriguez, R. Crawford, J. Vieri, L. Campos-Quintero, and M. Martín-Torres
- 13:30 – 14:30 Lunch at the Congress Centre
- 14:30 – 15:30** **SESSION S8 – Digital tools for archaeometry**
Chairs: E. Ferraris, D. Nykonenko
- 14:30 – 14:50 [BEYOND ATTRACTIVE RECONSTRUCTIONS: THE ROLE OF 3D MODELLING IN ANALYSING MEDIEVAL AND POST-MEDIEVAL SUGAR CONES FROM THE WESTERN MEDITERRANEAN](#)
R. Montesana*, J. Coso, A. Hein, and J. Buxeda i Garrigós
- 14:50 – 15:10 [THE HERCULANEUM PAPYRI THROUGH A NEW POINT OF VIEW: AN OPEN-SOURCE FRAMEWORK FOR MORPHOLOGY AND TEXTUAL INSPECTION](#)
S. Ceccarelli*, C. F. Amadei, B. Fanini, E. D’Annibale, G. Ranocchia, and C. Miliani
- 15:10 – 15:30 [VISUALISING MARTU ROCK ART WITH HYPERSPECTRAL IMAGING: VIRTUALLY UNTANGLING SUPERIMPOSED PAINTINGS FROM AUSTRALIA'S WESTERN DESERT](#)
A. Papasergio*, S. Mutch, K. Thompson, G. Marini, Z. Southam, J. McDonald, R. Popelka-Filcoff, and Jamukurnu-Yapalikurnu Aboriginal Corporation
- 15:30 – 16:00 Transfer break
- Place: Musei Reali Torino ([here](#))**
- 16:00 – 19:00** **POSTER (ALL sessions) & coffee - Court of Honour**
- 18:00 – 19:00 Optional free visit at Musei Reali Torino

Friday 22 May 2026

Place: Congress centre of the Association of the Industrialists ([here](#))

- 08:30 – 09:00 Registration
- 09:00 – 10:00 Keynote speech**
- [SCIENTIFIC DIPLOMACY AND INTERNATIONAL LAW: A FRAMEWORK OF NECESSARY INTERACTION IN THE PERSPECTIVE OF ARCHEOMETRIC STUDIES](#)
A. Oddenino
- 10:00 – 10:30 Coffee break
- 10:30 – 12:50 SESSION S5 – Material Culture 2: Ceramic, vitreous materials**
Chairs: M. Costa, A. Silvestri
- 10:30 – 10:50 [ARCHAEOLOGY ON A HOT PLATE: TRACING THE ORIGINS OF EARLY IRON AGE GLASS IN SOUTH EAST EUROPE](#)
A. Franjic*, I.C. Freestone, and P. Degryse
- 10:50 – 11:10 [FRAGMENTS OF CONNECTION: ANCIENT GLASS AS EVIDENCE OF MALTA'S LONG-TERM TRADE](#)
M. Grima*, S. Cagno, and D.A. Vella
- 11:10 – 11:30 [GEOCHEMICAL INDICATORS FOR THE ORGANIZATION OF IRON AGE GLASS NETWORKS FROM PORTUGAL](#)
V. Lončarić*, M. Costa, A.M. Arruda, C. Pereira, J. Pimenta, P. Albuquerque, T. do Pereiro, L. Miguel, A. Franjić, and P. Degryse
- 11:30 – 11:50 [CHEMICAL AND ISOTOPIC EVIDENCE FOR EASTERNMOST PLANT-ASH GLASS PRODUCTION IN XINJIANG, CHINA](#)
Q.-Q. Lü*, M. Martinon-Torres, and Th. Rehren
- 11:50 – 12:10 [GLASS CONSUMPTION AND CIRCULATION IN GREECE DURING LATE ANTIQUITY: A REASSESSMENT](#)
A. Oikonomou
- 12:10 – 12:30 [MEDIÉVAL GLASS BEADS IN THE NORTH-EASTERN BALKANS \(9th- 12th C.\) - AN OVERVIEW OF THE CHEMICAL COMPOSITIONS](#)
A. Cholakova* and B. Gratuze
- 12:30 – 12:50 [ISLAMIC GLAZED WARE FROM TRANSOXIANA. PRODUCTION AND TRADE IN TERMEZ AND SAMARKAND \(UZBEKISTAN\) WITHIN THE SILK ROAD FRAMEWORK](#)
V. Martínez Ferreras*, A. Panagopoulou, A. Fusaro, B. Lyonnet, J.M. Gurt Esparraguera, and S.R. Pidaev
- 12:50 – 14:00 Lunch at the Congress Centre
- 14:00 – 16:20 SESSION S5 – Material Culture 2: Ceramic, vitreous materials**
Chairs: A. Oikonomou, I. Dias
- 14:00 – 14:20 [SOME POTENTIAL ECOLOGICAL EFFECTS OF COASTAL MANGROVES ON PLUMBATE POTTERY PRODUCTION](#)
W. Gilstrap*, L. Vargas, A. Allanore, and H. Neff
- 14:20 – 14:40 [FIRST INSIGHTS ON CHALCOLITHIC BELL BEAKER AND PENHA-TYPE CERAMICS: ARCHAÉOMETRIC EVIDENCE FOR THE MEGALITHIC NECROPOLIS OF MOTAS \(NW PORTUGAL\)](#)
R. Marques*, A.L. Rodrigues, A.C. Valera, A.C. Basílio, D. Russo, M.I. Dias, I. Harsányi, Z. Kasztovszky, V. Szilágyi, and K. Gméling

14:40 – 15:00	<u>TECHNOLOGICAL FEATURES OF RED-FIGURE VASES BETWEEN SICILY AND MAGNA GRAECIA: AN ARCHAEOLOGICAL VIEWPOINT ON HUMAN MOBILITY AND KNOWLEDGE TRANSMISSION</u> P. Davit*, M. Serino, D. Elia, A. Mangone, L. C. Giannossa, C. Biscotti, and M. Gulmini
15:00 – 15:20	<u>DANCING WITH FIRE: ETNOARCHAEOLOGICAL APPROACH TO TRADITIONAL MAYA POTTERY</u> S. Ortiz* and O. G. de Lucio
15:20 – 15:40	<u>INVESTIGATING THE TECHNOLOGY OF BLACK-GLAZED WARES FROM THE COLONY OF ARIMINUM (RIMINI, ITALY)</u> S. Vettori, E. Cantisani, M.M.N. Franceschini, F. Di Benedetto, J. Orsilli*, F. D'Acapito, V. Colagrossi, M. Turchiano, and T. Ismaelli
15:40 – 16:00	<u>ARCHAEOLOGY ANALYSIS OF MEDIEVAL GLAZED POTTERY FROM 12th – 13th C. CE IN SOUTHEASTERN BULGARIA</u> V. Karailieva*, G. Avdeev, V. Chakarova, and P. Karailiev
16:00 – 16:20	<u>THE SINCEREST FORM OF FLATTERY: POTTERS, PRACTICE, AND LOCAL FINE ORANGE IMITATIONS IN CENTRAL CHIAPAS</u> J.L. Meanwell*, E.H. Paris, R.L. Bishop, R. López Bravo, and T. Sullivan
16:20 – 16:40	Coffee break
16:40 – 18:00	SESSION S8 – Digital tools for archaeology Chairs: A. Palmisano, A. Benzonelli
16:40 – 17:00	<u>USING LARGE LANGUAGE MODELS (AI) TO CREATE ARCHAEOLOGICAL TOOLS WITHOUT CODING SKILLS: INNOVATIVE SOFTWARE SOLUTIONS FOR ROCKS AND MORTARS</u> D. Miriello* and R. De Luca
17:00 – 17:20	<u>3D SURVEYS AND DEEP LEARNING FOR MAPPING DEGRADATION IN HISTORIC ARCHITECTURE: THE CASE OF THE CHURCH OF SAN BRUZIO (GROSSETO – ITALY)</u> G. Rossi*, F. Gabbrielli, M. Giamello, and E. Tavarnelli
17:20 – 17:40	<u>REFRAMING ANTHROPOLOGICAL ACTIVITY MARKERS THROUGH COMPOSITIONAL DATA ANALYSIS</u> A. Ruiz-Giralt*, S. Biagetti, C. Lancelotti, A. Koutroumpas, K. Rix, J. Ibañez-Insa, and M. Madella
17:40 – 18:00	<u>UNFOLDING THE KAPULUKAYA HOARD: AN INTERACTIVE FRAMEWORK FOR NUMISMATIC STORYTELLING</u> M. Bakr, Z. Çizmeli Öğün, and S. Aslan*
18:00 – 19:00	Awards and Prizes + Final remarks

Saturday 23 May 2026

ALL DAY	Post conference excursion at Aosta. Reservation requested (refundable deposit required) - waiting list only
ALL DAY	For those who didn't find a spot to Aosta Free access to the entire Royal Complex upon presentation of your ISA badge at the ticket office

ORALS

Keynote

- Keynote_1 ['LET THE COFFIN SPEAK': NEW PERSPECTIVES THROUGH A MATERIAL APPROACH](#)
A. Amenta
- Keynote_2 [NEW FRONTIERS IN JAPANESE ARCHAEOLOGY THROUGH INTERDISCIPLINARY RESEARCH](#)
J. Ryan
- Keynote_3 [SCIENTIFIC DIPLOMACY AND INTERNATIONAL LAW: A FRAMEWORK OF NECESSARY INTERACTION IN THE PERSPECTIVE OF ARCHEOMETRIC STUDIES](#)
A. Oddenino

Focus lecture

- Focus_1 [TECHNOLOGIES SUPPORTING ARCHAEOMETRY](#)
Th. Rehren
- Focus_2 [EUROPEAN RESEARCH COUNCIL FUNDING OPPORTUNITIES FOR ARCHAEOMETRY](#)
P. Díaz del Río

IS Innovation session – Technology supporting archaeometry

- IS_O_001 [ISOCORE \(SRL\), ACADEMIC SPIN-OFF: CURRENT STATUS AND PERSPECTIVES IN THE FIELD OF HIGH-SENSITIVITY ISOTOPIC METHODOLOGIES APPLIED TO CULTURAL HERITAGE](#)
F. Marzaioli, F. Terrasi, A. D'Onofrio, L. Gialanella, G. Porzio, R. Buompane, V. Roca, and I. Passariello
- IS_O_002 [HERA: A FOURIER-TRANSFORM BASED HYPERSPECTRAL CAMERA FOR THE ANALYSIS OF CULTURAL HERITAGE OBJECTS](#)
M. Ghirardello
- IS_O_003 [CHEMICAL IMAGING AND MOLECULAR SPECTROSCOPY: FUTURE IS NOW](#)
D. Sali and F. Knechtel
- IS_O_004 [SPECTRAL IMAGING ANALYSIS WITH HMI. A CASE STUDY: FRAGMENTS OF ANCIENT EGYPTIAN CARTONAGE](#)
M. Melis*, F. Bighi, X. Chen, S. Hanlou, D. Scalabrin, and G. Tescarollo

TS Theme session – Cultural heritage experiences and community engagement

- TS_O_001 [FROM UNWRAPPING TO VIRTUAL IMAGING: ARCHAEOMETRY AND THE EXHIBITION OF EGYPTIAN MUMMIES AT THE MUSÉE CHAMPOLLION \(VIF, FRANCE\)](#)
C. Berruyer, L. Antunes and C. Dugand
- TS_O_002 [FROM INVISIBLE ANALYSIS TO SHARED KNOWLEDGE: TEN YEARS OF ARCHAEOMETRY AT THE MUSEO EGIZIO](#)
E. Ferraris

- TS_O_003 [HOW TO GAIN ATTENTION FOR ARCHAEOOMETRY ON THE WORLD'S BIGGEST SAILING EVENT – AND HOW TO MAKE IT HAPPEN ACROSS THE GERMAN-DANISH BORDER](#)
H. Groß, T. Zeeck, J. Steffen, A. Løchte Jørgensen, B. Jørgensen, C. Bratt Lauridsen, and L. Kienle
- TS_O_004 [RECONSTRUCTING KNOWLEDGE TOGETHER: COMMUNITY EXPERIMENTATION WITH CERAMIC NEGATIVE DECORATION TECHNIQUES IN THE NARIÑO HIGHLANDS \(COLOMBIA\)](#)
C. Klesner, S. Eraso, L. Campos, and M. Martinon-Torres
- TS_O_005 [CLAY AS A MEETING POINT: ARCHAEOLOGICAL SCIENCE AND COMMUNITY ENGAGEMENT THROUGH CERAMICS](#)
C. Gardner
- TS_O_006 ["PERCEIVE ISIS' COLOURS": BRIDGING SCIENTIFIC DATA AND EXPERIENTIAL COMMUNICATION OF ANCIENT POLYCHROMY](#)
F. Bonifazi, I. Cerato, R. Iannaccone, D. Magrini, M. Massidda, and S. Pescarin

S1 [Field methods and remote sensing](#)

- S1_O_001 [BEFORE DIGGING: INTEGRATING RADAR, ELECTRICAL, MAGNETIC, LIDAR SURVEYS FOR ARCHAEOLOGICAL PROSPECTION AT SELINOUS, SICILY](#)
M. Serino, F. Diara, A. Pane, P. Capizzi, R. Martorana, V. Sapia, V. Romano, V. Materni, G. Sapio, A. Merico, C. Comina, and A. Vergnano
- S1_O_002 [A COMBINED SATELLITE, UAV, GEOPHYSICAL AND GNSS-PPP APPROACH TO ARCHAEOLOGICAL PROSPECTION AT ZAR TEPE \(UZBEKISTAN\)](#)
J. Angás, P. Uribe, V. Martínez-Ferrerías, C. Iranzo J.M. Gurt, A. Zakirov, I. Yanbukhtin, U. Musaev, H. Hoshimov, E. Ariño, O. Lanzas, and S.R. Pidaev
- S1_O_003 [MULTI-SCALE LIDAR, FIELD SURVEY, AND GEOCHEMICAL APPROACHES FOR STONE PROVENANCE ANALYSIS: INITIAL RESULTS FROM THE EUQUGEA PROJECT \(EUGANEAN HILLS, ITALY\)](#)
J. Olah, M. Secco, S. Dilaria, C. Previato, and J. Bonetto
- S1_O_004 [GEOPHYSICAL INVESTIGATIONS AT THE NEOLITHIC SETTLEMENT OF ÇAYÖNÜ TEPESESİ, TURKEY](#)
I. Akca, S. Sarıaltun, S. S. Lalli, and E. U. Uluggerli
- S1_O_005 [GEOCHEMISTRY AND REMOTE SENSING: THE PASTORAL LANDSCAPE OF DHOFAR, OMAN FROM ABOVE](#)
A. Koutroumpas, S. Lischi, and S. Biagetti

S2 [Dating methods](#)

- S2_O_001 [FIRST DATES AND CHEMICAL ANALYSIS OF ROCK ART FROM POTOSÍ, BOLIVIA](#)
R. A. Armitage, M. R. Gomez Saavedra, R. Saavedra, M. Strecker, and D. Holmes
- S2_O_002 [CERAMIC REHYDROXYLATION DATING: A METHODOLOGICAL INTEGRATION OF INFRARED SPECTROSCOPY AND FTIR-TGA FOR HYDROXYL QUANTIFICATION AND GRAVIMETRIC KINETICS, AND ITS APPLICATION TO LOW-FIRED EARTHWARES](#)
F. Maspero, C. Stevenson, M. Gurnick, O. Misiats, J. Orsilli, M. Martini, and A. Galli
- S2_O_003 [ADVANCES IN USING OXALATE-RICH MINERAL COATINGS AS DATING TOOLS IN AUSTRALIAN ROCK ART SHELTERS](#)
H. Green, F. Ruzain, R. Popelka-Filcoff, B. Martin, A. Unghango., and I. Waina

- S2_O_004 [DEVELOPING A THERMOLUMINESCENCE APPROACH TARGETING THE CARBONATE FRACTION IN MORTARS: PRELIMINARY VALIDATION AGAINST SINGLE-GRAIN OSL](#)
R. Galvagno, C. Lahaye, M. Liuzzo, G. Margani, R. Reitano, G. Stella, C. Tardo, P. Urbanová, and A.M. Gueli
- S2_O_005 [CHRONOLOGICAL RECONSTRUCTION OF THE BUILDING PHASES OF THE LARGEST URBAN CENTER OF EUROPE'S PREHISTORY; A COMBINED TL AND RADIOCARBON DATING STUDY IN POLIOCHNE, LEMNOS](#)
G.S. Polymeris, G. Tampakopoulou, J. Sanjurjo-Sánchez, I.K. Sfampa, G. Kitis, K. Stamoulis, A. Hein, A. Vafiadou, Y. Soukantos, P. Triantafyllidis, and Y. Facorellis
- S2_O_006 [ARCHAEOMAGNETISM AS AN ABSOLUTE DATING TECHNIQUE FOR BAKED CLAYS: NEW PERSPECTIVES AND CHALLENGES](#)
E. Tema

S3 [Bioarchaeology and biomolecules](#)

- S3_O_001 [POMPEII ADDICTION: INTEGRATED ISOTOPIC AND ARCHAOMETRIC APPROACHES TO LIFE, ECONOMY, AND MOBILITY](#)
V. Giacometti, N. Mantile, S. Altieri, M. R. di Cicco, V. Amoretti, C. Comegna, Y. Naime, S. Soncin, G. Zuchtriegel, and C. Lubritto
- S3_O_002 [FROM FISH TO RABBITS: ARCHAOMETRY INSIGHTS INTO FIVE CENTURIES OF DIETARY ADAPTATION IN A MEDIEVAL MUSLIM MINORITY \(TUDELA, NAVARRE, 11th–15th C.\)](#)
P. Pérez-Ramallo, J. Sesma Sesma, O. Villanueva Zubizarreta, A. M. Gomes, D.I. Hernández-Zaragoza, R. Barquera, and P. Roberts
- S3_O_003 [UNLOCKING BIOMOLECULES WITH SUPERCRITICAL CO₂: A NEW ANALYTICAL FRAMEWORK IN ARCHAOMETRY](#)
T. Devières, E. Badens, C. Crampon, Y. Fagault, M. Fernandez, A. Joly, I. Lhoste, O. Pollet, K. Seaudeau-Pirouley, L. Spanneut, and K. Wilk
- S3_O_004 [REDEFINING ANCIENT EGYPTIAN WOODCRAFT THROUGH ARCHAOMETRY: MULTIDISCIPLINARY CASE STUDIES FROM THE MEDJEHU PROJECT](#)
G. Eschenbrenner Diemer, A.G. De Marco, P. Marini, and M. Serpico
- S3_O_005 [GC-MS AND HS-SPME-GC-MS ANALYSIS OF OXALATE-RICH ROCK COATINGS](#)
J. Russ
- S3_O_006 [MICROBOTANICAL STUDY OF PHYTOLITHS AND STARCH GRAINS FROM GRINDING STONE AT OUED BEHT \(MOROCCO\)](#)
G. R. Bartuli, M. Jovanovic, F. M. Rega, N. Garcia Tuset, Y. Bokbot, S. Biagetti, C. Broodbank, and G. Lucarini

S4 [Material Culture 1 – Stone, pigments, plasters](#)

- S4_O_001 [ENHANCING IN-SITU DIAGNOSTICS THROUGH AUTOMATED MULTIMODAL PIGMENT ANALYSIS](#)
I. Ferrara, S. Gallo, A.M. Gueli, G. Politi, and G. Stella
- S4_O_002 [ARCHAOMETRIC INSIGHTS INTO MIDDLE KINGDOM PAINTED SCULPTURES FROM ASYUT](#)
N. Manfreda, P. Buscaglia, P. Del Vesco, M. Borla, A. Re, L. Guidorzi, F. Tansella, M. Magalini, L. Vigorelli, T. Poli, C. Ricci, T. Cavaleri, and A. Lo Giudice

- S4_O_003 [A PREHISTORIC COLORED LANDSCAPE: UNDERSTANDING THE SUPPLY OF THE PICTORIAL MATTER](#)
E. Chalmin, H. Salomon, A.L. Develle, C. Theron, W. Bouits, A. Molard, A. Gaudin, and C. Defrasne
- S4_O_004 [SYNCHROTRON-INDUCED MICRO-X-RAY FLUORESCENCE IMAGING OF PREHISTORIC PIGMENTS FROM THE PALEOLITHIC CAVE OF LA GARMA, NORTHERN SPAIN](#)
I. Reiche, J. Tapia, K. Müller, S. Schöder, and P. Arias
- S4_O_005 [IMPROVING MINOR COMPOUND IDENTIFICATION IN PIGMENTS VIA AUTOMATED, HIGH RESOLUTION CONFOCAL RAMAN SPECTROSCOPY](#)
M.A. Johns, H. Groß, T. Boyadzhieva, F. Handberg, S. Ayvaz, L. Kienle, and J. Fiutowski
- S4_O_006 ["FORGOTTEN COLORS" OF EARLY MEDIEVAL WALL PAINTINGS IN THE RAETIA CURIENSIS. NATURAL, ARTIFICIAL, ALTERED BLUE PIGMENTS](#)
G. Cavallo, P. Cassitti, L. Villa, M. Aceto, and C. D'Erme
- S4_O_007 [THE ROLE OF EGYPTIAN BLUE IN EARLY ROMAN JUDEA: PRODUCTION TECHNOLOGY AND PROVENANCE](#)
Y. Asscher, A. Leviant, D. Yogev, L.N. Sharabi, A. Baragona, and A. Rodler
- S4_O_008 [UNVEILING THE HYDRAULICITY ENIGMA OF THE MASONRY PLASTERS OF THE ROMAN THEATER OF AUGUSTA RAURICA](#)
M.T. Affonso and E. Boehm-Courjault
- S4_O_009 [FROM HISTORIC TO RESTORATION MORTARS: A MULTI-ANALYTICAL APPROACH FOR THE FORMULATION AND TESTING OF POZZOLANIC BINDERS PRODUCED WITH EUGANEAN VOLCANIC BRECCIA](#)
V. Razzante, M. Secco, E. Garbin, A. Famengo, and A. Arizzi
- S4_O_010 [THE HUNT FOR GARNET PROVENANCE: MULTIVARIATE RAMAN DATA ANALYSIS OF MIGRATION PERIOD POLYCHROME JEWELRY](#)
L. E. Aradi, E. Horváth, V. Mozgai, B. Bajnóczi, and T. Vácz
- S4_O_011 [BLACK IS BACK – THE IGNEOUS LONG BLADES CIRCULATION IN SOUTHWEST IBERIA ON 3rd MILLENIUM BCE](#)
P. Jordão, S. Soares, C. Neves, A. C. Valera, and A. Morgado-Rodríguez
- S4_O_012 [HIGH-RESOLUTION PHOTOGRAMMETRY AS AN ARCHAEOMETRIC TOOL FOR THE REASSESSMENT AND DECAY ANALYSIS OF THE TĀQ-E BOSTĀN ROCK RELIEFS](#)
A. Shekofteh and F. Salehi

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A MULTIDISCIPLINARY APPROACH TO THE STUDY OF THE HUMAN RESPONSE TO CLIMATE CHANGE IN THE ALPINE ENVIRONMENT: THE CASE OF THE SAN GRATO VALLEY, ISSIME

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The Interreg Italy-France ALCOTRA project DAHU has the overall objective to investigate, on a landscape scale and through interdisciplinary cooperation, the long-term climate change in the mountain valleys of High-Savoy (France) and Aosta Valley (Italy), its impact on the landscape and the constant adaptation of humans to the environment.

Within the framework of this project, a multidisciplinary research group was set up to conduct an in-depth study of the San Grato Valley, Issime (AO). San Grato is a lateral watershed of the Lys valley (Western Italian Alps), located at an altitude between 1.400 and 2.300 metres. This valley has been inhabited by a German linguistic minority population, the Walser, from the 13th century onwards. Although it is believed that this area has been inhabited even before, the Walser people have deeply influenced the landscape and morphology of the watershed since their colonisation. Meanwhile, the population has adapted to climate change occurring over the centuries, modifying its habits and exploiting buildings and land located at higher altitudes in different ways. The valley has been almost completely abandoned by humans since the 19th century and it is now extremely well preserved.

The team of archaeologists, historians, linguists, specialists in rural architecture, forest ecologists, soil scientists, wood specialists, geomorphologists, and paleoecologists is producing an accurate landscape-scale analysis about how climate influenced the behaviours of populations and how in turn their traditional activities (e.g., agriculture, forestry, animal grazing) impacted the landscape with both temporary interventions and more permanent landmarks (e.g., terraces, charcoal kilns, stone walls).