



OrganicaMente

Pisa 4-6 Febbraio

AlAr 2026

Caratterizzare Proteggere Datare
Racconti della materia



**ASSOCIAZIONE
ITALIANA DI
ARCHEOMETRIA**



**UNIVERSITÀ
DI PISA**

Programma

Aula Magna Pontecorvo
Largo Bruno Pontecorvo 3, Pisa



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4 Febbraio 2026

9.00-11.00 REGISTRAZIONE DEI PARTECIPANTI

11.00-11.20 SALUTI DI BENVENUTO

11.20-11.50 Premio Mario Milazzo

NON-INVASIVE SPECTROSCOPY IN CULTURAL HERITAGE: A BRIEF REVIEW

Plenaria a cura di **Mauro Bacci**

Sessione I CONSERVAZIONE, MONITORAGGIO, RESTAURO

Chair: **Maria Perla Colombini - Donata Magrini**

11.50-12.10 THE POTENTIAL OF PADINA PAVONICA L. EXTRACT IN TREATING BIO-CORROSION ON ARCHAEOLOGICAL METAL FINDS, **Çagdas Özdemir** (O-1)

12.10-12.30 STONE CLEANING USING FORMULATIONS DERIVED FROM CRUDE MICROBIAL EXTRACTS AND ESSENTIAL OILS WITH ANTIMICROBIAL PROPERTIES, **Costanza Diliberto Cascio** (O-2)

12.30-12.50 ELECTROCHEMICAL STRATEGIES FOR IMMOBILIZING ESSENTIAL OILS ON MESOPOROUS SILICA: TOWARDS SMART AIR PURIFICATION IN HERITAGE ENVIRONMENTS, **Annalaura Tassi** (O-3)

12.50-13.10 A CONSERVATION PROJECT FOR THE POLYCHROME STONE INLAYS OF THE SOUTHERN TRANSEPT OF THE CATHEDRAL IN PISA, **Carolina Vatteroni** (O-3b)

13.10-14.30 Pranzo

Sessione II MATERIALI ARCHEOLOGICI

Chair: **Rosa Celeste Ponterio - Erika Ribechini**

14.30-14.50 BONDING TECHNOLOGIES IN BONDING SOCIETIES: MAPPING ADHESIVE DISTRIBUTION IN PREHISTORIC ITALY (NEOLITHIC-IRON AGE) THROUGH PY-GC/MS AND GC/MS, **Irene Bertelli** (O-4)

14.50-15.10 ORGANIC AND INORGANIC COMPONENT IN HYDRAULIC ROMAN MORTARS: THE CASE OF CARSLAE CISTERN (ITALY), **Matteo Maria Niccolò Franceschini** (O-5)

15.10-15.30 PRELIMINARY ASSESSMENTS OF DAP TREATMENTS FOR ARCHAEOLOGICAL TUSKS CONSOLIDATION, **Federica Balistreri** (O-6)

15.30-15.50 INTO THE DEEP: REFINING THE PALEODIETARY METHODOLOGICAL APPROACH IN POMPEIAN VESUVIAN SITE, **Valentina Giacometti** (O-7)

15.50-16.10 FIRE, MINERALS, AND MACHINE LEARNING: INSIGHTS FROM RIPARO MOCHI AND RIPARO GABAN, **Alessia Santiglia** (O-8)

16.10-16.40 Coffee Break/Sessione Poster

Sessione III CARATTERIZZAZIONE E DIAGNOSTICA

Chair: **Ilaria Bonaduce - Alessandro Re**

16.40-17.00 REVEALING THE HIDDEN SIGNATURES OF IRON GALL AND LOGWOOD INKS: A CHROMATOGRAPHIC PROTOCOL TO UNCOVER THE COLOURS OF THE PAST, **Adele Ferretti** (O-9)

17.00-17.20 UNVEILING PIGMENTS AND DYES ON A GROUP OF STATUES FROM ARCHAEOLOGICAL MUSEUM OF FORMIA BY A MULTI-MODAL APPROACH, **Roberta Iannaccone** (O-10)

17.20-17.30 THE HABIT OF THE STIGMATA OF ST. FRANCIS OF ASSISI – COMMODITY CHARACTERIZATION OF THE FABRIC, Brachi Testing Services **Primo Brachi** (S)

17.30-17.50 INVESTIGATION OF THE CHEMICAL COMPOSITION AND UV-INDUCED PHOTODEGRADATION PATHWAYS OF COMMERCIAL PROTECTIVE COATINGS FOR STREET ART, **Francesca Caterina Izzo** (O-11)

17.50-18.10 UNMIXING CUPC-YELLOW GREENS THROUGH NON-INVASIVE SPECTROSCOPIES, **Jacopo Orsilli** (O-12)

18.10-18.30 SUSTAINABLE SERS SENSING FOR NON-INVASIVE CULTURAL HERITAGE DIAGNOSTICS: REAL-CASE APPLICATIONS, **Dario Giuffrida** (O-13)

19.00-20.00 Cocktail di benvenuto presso locale Gramigna

5 Febbraio 2026

9.00-9.30 **Organic Materials Through the Lens of Science: Analytical Strategies Between In-House Expertise and Field Specialists** Plenaria a cura di **Federica Pozzi**

Sessione IV CARATTERIZZAZIONE E DIAGNOSTICA

Chair: **Jeannette Jacqueline Lucejko – Francesca Sabatini**

- 9.30-9.50 ADVANCING KNOWLEDGE AND PREVENTIVE CONSERVATION STRATEGIES FOR PLASTIC HERITAGE: A NEW PERSPECTIVE, **Ilaria Degano** (O-14)
- 9.50-10.10 TRACING THE ORGANIC COMPLEXITY OF MONUMENTAL TERRACRUDA SCULPTURE: ANALYTICAL CHALLENGES AND TECHNOLOGICAL INSIGHTS, **Monica Lopez-Prat** (O-15)
- 10.10-10.20 Intelligence That Inspires Confidence: Agilent 6495 triple quadrupole LC/MS system, **Nicola Cimino**, Agilent (S)
- 10.20-10.40 TRACING ORGANIC MATERIALS IN ROMAN WALL-PAINTING SURFACES: A NON-INVASIVE MULTI-TECHNIQUE STUDY OF THE SARNO BATHS FRAGMENTS, **Chiara Giusti** (O-16)
- 10.40-11.00 FROM CLAY TO CRAFT: ORGANICS AND FIBERS IN THE ANCIENT MUD MORTARS FROM THE AJANTA UNESCO WORLD HERITAGE SITE, **Simona Raneri** (O-17)
- 11.00-11.30** **Coffee Break/Sessione Poster**

Sessione V PROVENIENZA E DATAZIONE

Chair: **Anna Galli – Emma Cantisani**

- 11.30-11.50 COMBINED FTIR AND CHEMOMETRIC ANALYSIS FOR AMBER RESINS PROVENIENCE AND DATATION, **Francesco Armetta** (O-18)
- 11.50-12.10 DECODING YELLOW TUFF IN POMPEIAN ARCHITECTURE: KEY MINERALOGICAL AND GEOCHEMICAL CONSTRAINTS FOR A (RE-)EVALUATION OF ITS GEOLOGICAL ORIGIN, **Chiara Germinario** (O-19)
- 12.10-12.30 FROM MORTARS TO TERRITORY: CHRONOLOGY, ENVIRONMENT AND RESOURCES IN THE TIMES OF CASTLES PROJECT, **Mauro Buonincontri** (O-20)
- 12.30-12.50 CHRONOLOGICAL MODELLING AND PROBABILITY DENSITY MAPPING OF A CORALLIGENOUS BUILD-UP OFF SE SICILY WITHIN THE CRESCIBLUEREEF PROJECT, **Francesco Maspero** (O-21)
- 12.50-13.00 CHEMICAL IMAGING AND MOLECULAR SPECTROSCOPY: FUTURE IS NOW, Bruker **Diego Sali** (S)
- 13.00-14.30** **Pranzo**

Sessione VI NUOVE METODOLOGIE

Chair: **Giacomo Fiocco – Simone Caglio**

- 14.30-14.50 SPECTROSCOPY AND MACHINE LEARNING FOR CULTURAL HERITAGE, **Giulia Festa** (O-22)
- 14.50-15.10 ADVANCING COMPUTED TOMOGRAPHY IN HERITAGE SCIENCE: HOUNSFIELD UNIT CT IMAGING FOR WOOD SPECIES DETERMINATION, **Sveva Longo** (O-23)
- 15.10-15.30 EXPLORING STONE WEATHERING IN CULTURAL HERITAGE THROUGH GEOCHEMICAL MODELLING, **Alessia Pantuso** (O-24)
- 15.30-15.50 CHARACTERIZATION AND USES OF OPUNTIA DILLENI'S MUCILAGE AS MORTAR ADDITIVE, **Federica Balistreri** (O-25)
- 15.50-16.40 **Sessione Poster /Coffee Break**
- 16.40 **Assemblea dei Soci e Premiazioni AIAR**
- 20.00 **Cena Sociale La Tana**

6 Febbraio 2026

9.00-9.30 Ancient proteins: current challenges in identification and characterization
Plenaria a cura di **Leila Birolo**

Sessione VII MATERIALI DELL'ARTE

Chair: Ilaria Degano – Mauro La Russa

- 9.30-9.50 INSIDE LUCIO FONTANA'S ATELIER: MOLECULAR INSIGHTS INTO THE COMPOSITION AND PROPERTIES OF NON-TRADITIONAL PAINTING MATERIALS, **Francesca Sabatini** (O-26)
- 9.50-10.10 A CHEMICAL INVESTIGATION OF PAINT FILM FORMATION IN AZURITE-BASED OIL PAINTS, **Giulia Caroti** (O-27)
- 10.10-10.30 COMPOSITE GEMSTONES AND THE ART OF COUNTERFEITING IN THE MIDDLE AGES: A FORGOTTEN CRAFT TRADITION, **Stefania Martiniello** (O-28)
- 10.30-10.50 PLASTICS IN MUSEUM COLLECTIONS: COUNTERACTING MICROBIAL DETERIORATION BY ESSENTIAL OIL, **Ileana Longobardi** (O-29)
- 10.50-11.10 ORGANIC MATERIALS IN STUCCO DECORATIONS: SOURCES, FUNCTIONS, AND ANALYTICAL CHALLENGES, **Marta Caroselli** (O-30)
- 11.10-11.40 Coffee Break/Sessione Poster**

Sessione VIII CONSERVAZIONE, MONITORAGGIO, RESTAURO

Chair: Francesca Modugno – Monica Gulmini

- 11.40-12.00 FROM ANALYSIS TO INTERVENTION: A SCIENTIFIC APPROACH TO THE RESTORATION OF SAINT ONOFRIO'S PARCHMENTS, **Andrea Busto** (O-31)
- 12.00-12.20 DEVELOPMENT AND ASSESSMENT OF NANOCOMPOSITES FOR THE CONSERVATION OF PEPERINO STONE, **Agostino Porcari** (O-32)
- 12.20-12.40 LIME-BASED MORTARS WITH THE INCORPORATION OF AGRICULTURAL WASTES: THE CASE OF POWDERED OLIVE STONE (POS), **Maria Antonietta Zicarelli** (O-33)
- 12.40-12.50 BEYOND THE SURFACE: UNRAVELLING THE GENESIS OF ART USING SCANNING MICRO-XRF, Bruker, **Michele Gironda** (S)
- 12.50-13.10 PREMIAZIONI E CHIUSURA**
- 13.10-14.30 Pranzo**
- 14.00-15.30 VISITA AL CAMPOSANTO**

orario	mercoledì 4 febbraio	orario	giovedì 5 febbraio	orario	venerdì 6 febbraio
9.00-11.00	Registrazione	9.00-9.30	PLENARY LECTURE	9.00-9.30	PLENARY LECTURE
11.00-11.20	Saluti e apertura lavori	9.30-11.00	Sessione IV	9.30-11.10	Sessione VII
11.20-11.50	PREMIO MARIO MILAZZO			11.10-11.40	Pausa Caffè/ Sessione Poster
11.50-13.10	Sessione I	11.00-11.30	Pausa Caffè/Sessione Poster	11.10-11.40	Pausa Caffè/ Sessione Poster
		11.30-13.00	Sessione V	11.40-12.40	Sessione VIII
				12.40-13.10	Premiazioni e Chiusura
13.10-14.30	Pranzo	13.00-14.30	Pranzo	13.10-4.30	Pranzo
14.30-16.10	Sessione II	14.30-15.50	Sessione VI	Conservazione, Monitoraggio, Restauro	
				Materiali archeologici	
16.10-16.40	Pausa Caffè/ Sessione Poster	15.50-16.40	Sessione Poster/Coffee Break	Caratterizzazione e Diagnostica	
				Provenienza e Datazione	
16.40-18.30	Sessione III	16.40	Assemblea Soci	Nuove metodologie	
19.00-20.00	Cocktail di benvenuto	20.30	Cena sociale	Materiali dell'arte	