

CONGRESSO

ABC2023

*XX Congresso Nazionale della
Divisione di
Chimica dell'Ambiente
e dei Beni Culturali*

**ISCHIA (NA), 28 SETTEMBRE –
1 OTTOBRE 2023**

Hotel Continental,
Via Michele Mazzella 70, 80077 Ischia

Giovedì 28 settembre 2023

12:00 – 15:00	Registration of the participants	
	AULA 1 <i>Environmental Chemistry and Cultural Heritage Session</i> Chairperson: A. Proto	
15:00 – 15:15	Welcome and opening	
15:15 – 15:30	M. Trifuggi The thermal resources of the island of Ischia	
15:30 – 16:00	IS01 - A. Marcomini Environmental chemistry: advances and challenges towards a pollution free society	
16:00 – 16:15	SP01 – R. Carvalho (Metrohm) Adsorbable Organic Fluorine (AOF) – a sum parameter for non-targeted screening of per- and polyfluorinated alkyl substances (PFAS) in waters	
16:15 – 16:30	SP02 – F. Scibona, V. Capaccio (Prometeon Tyre Group) Sustainable strategies for minimizing environmental impact: Prometeon tyre group's journey	
16:30 – 17:00	Coffee break	
	AULA 1 <i>Environmental Chemistry Session</i> Chairperson: R. Cucciniello	AULA 2 <i>Environmental Chemistry and Cultural heritage Session</i> Chairperson: N. Marchettini
17:00 - 17:15	OP01 - L. Ciacchi, C. Torri, C. Samorì, I. Vassura Cross-life: poly(vinyl acetate-co-crotonic acid) from bio-based synthesis - preliminary LCA results	OP09 - E. Badetti, A. Brunelli, M. Blosi, A. Costa, A. Serrano Lotina, M. A. Bañares, D. Hristozov, A. Marcomini Characterization of multi-composite nanomaterials for supporting safe & sustainable by design strategies
17:15 - 17:30	OP02 - T. Nacci, J. Gambetta Vianna, F. De Falco, R.C. Thompson, I. Degano, F. Modugno Life Cycle Assessment of wet wipes by means of chromatographic and mass spectrometric techniques	OP10 - F. Pellegrino, A. Rossi, F. Sordello, E. Alladio, R. Santalucia, A. Primieri, D. Drobne, V.-D. Hodoroaba, J. Radnik, V. Maurino Safe by design synthesis of 2D materials

17:30 - 17:45	OP03 - <u>F. Sporchia</u>, N. Patrizi, M. Bruno, E. Neri, F.M. Pulselli, S. Bastianoni Wood-based building materials sustainability assessment via Energy evaluation and life cycle assessment: insights from complementary methods	OP11 - <u>V. Guglielmi</u>, A. Bergomi, C. A. Lombardi, V. Comite, M. Borelli, M. Ricciardi, A. Proto, P. Fermo The synergy of indoor air quality assessment and artwork materials characterization: the Santuario della Beata Vergine in Saronno as a case study
17:45 - 18:00	OP04 – <u>V. Niccolucci</u>, E. Neri, M. Marchi, M. Meffo Kemda, A. Ruini, S. Bastianoni Towards a simplified LCA for agrifood products: evidence from Agritech national project	OP12 - <u>A. Di Gilio</u>, J. Palmisani, M. Nisi, L. Pastore, G. de Gennaro Indoor air quality in a naturally ventilated church: emission characteristics of air pollutants from incense burning
18:00 - 18:15	OP05 - <u>R. Rosa</u>, E.I. Cedillo-González, G. Foca, C. Siligardi, M. Buttazzo, A.M. Ferrari Environmental impact assessment and optimization of chemicals for ceramic production processes	OP13 - <u>A. Genga</u>, T. Siciliano, P. Cotugno, F. Natali, D. Chionna, I. Manco, G. Martelli, D. Muscogiuri, A. Ventrella Study of particulate matter, wet and dry deposition in a sub urban site of south Italy
18:15 - 18:30	OP06 - <u>M. Menegaldo</u>, E. Giubilato, E. Badetti, E. Semenzin Life cycle safety and sustainability assessment of innovative solutions for art restoration	OP14 - <u>R. Elliani</u>, A. Naccarato, A. Tagarelli An analytical method for the assay of nitrophenols in indoor dust using microwave-assisted extraction and gas chromatography-tandem mass spectrometry
18:30 - 18:45	OP07 – <u>E. Rossi</u>, D. Cespi, I. Maggiore, F. Passarini, L. Setti Life Cycle Assessment (LCA) of a lab scale bio-fuel cell fed with waste biomass: can it be an alternative to traditional treatment scenarios?	OP15 – <u>V. Comite</u>, A. Bergomi, P. Fermo, C. Castellano, M. Borelli, C. A. Lombardi, M. Formenti, C. Cavaterra, C. Della Pina Experiments in accelerated ageing chambers to understand the sulphation process
18:45 - 19:00	OP08 - <u>J. Palmisani</u>, A. Di Gilio, F. Di Leo, V. Pizzillo, G. De Gennaro	OP16 – <u>R. Punis</u>, A. Zoleo

VOCs emission by gasoline service stations in residential areas:
evaluation of the impact on ambient air quality

CW-EPR spectroscopy characterization of copper-organic binder complexes in pictorial layers

19:30 - 20:30

Welcome Cocktail

Venerdì 29 Settembre 2023

AULA 1

Environmental Chemistry and Cultural Heritage Session

Chairperson: E. Zendri

9:00 – 9:30	IS02 – L. Monico Prevent the color changes in paintings: a multi-material, multi-technique and multi-scale approach
9:30 – 9:45	SP03 – C. Gallo (Istemi) In situ diagnostic analyses of the fresco paintings San Pietro a Corte complex (Salerno, Campania, Italy) and assessment of environmental effects on their state of conservation

AULA 1

Environmental Chemistry Session

Chairperson:
L. Rivoira

AULA 2

Cultural Heritage Session

Chairperson:
L. Toniolo

9:45 – 10:00	OP17 - L. Favilli, V. Isajia, P. Inaudi, A. Giacomino, M. Malandrino, A. Diana, R. Cecire, S. Bertinetti, O. Abollino Biomonitoring strategies to assess metal pollution through analysis of lemurs biological samples: a non-invasive approach	OP20 - R. Mazzeo, G. Sciutto, S. Prati The services provided by the Integrated Platforms for the European Research Infrastructure ON Heritage Science (IPERION HS) project: towards the establishment of a permanent E-RIHS infrastructure
10:00 - 10:15	OP18 - C. Petroselli, R. Baraldi, M.V. Salomon, F. d'Acapito, P. Piccoli Arsenic speciation in grapevine by x-ray absorption spectroscopy: implications for food safety	OP21 – E. Greco, A. M. Gennaro, D. Piombino-Mascali, D. Costanzo, S. Accardo, S. Licen, P. Barbieri, S. Fornasaro, S. Semeraro, E. Marin, S. Signoretti, C. Gabriele, M. Gaspari Dental proteomic analyses and Raman spectroscopy for the determination of biological sex and age of human remains from Hellenistic cemetery in Reggio Calabria (Italy)
10:15 - 10:30	OP19 - F. Arfelli, L. Ciacci, D. Cespi, F. Passarini	OP22 - L. Gatti, F. Lugli, G. Sciutto, S. Prati, R. Mazzeo, T. Tütken, A. Martínez García

		Life Cycle Assessment of recipes served in food canteens and elaboration of a new environmental indicator	Amino acid preservation in fossil tooth enamel up to 48 million years
10:30 – 11:00		Coffee break/Session Poster Ambiente	
		AULA 1	AULA 2
		<i>Environmental Chemistry Session</i>	<i>Cultural Heritage Session</i>
		Chairperson: A. Amoresano	Chairperson: F. Modugno
11:00 – 11:15	OP23 – <u>L. Montano</u>	EcoFoodFertility research project: the role of human semen as an early and reliable tool of environmental impact assessment	OP31 - L. Pagnin, N. Guarnieri, F.C. Izzo, S. Goidanich, <u>L. Toniolo</u> Contemporary muralism conservation: preserving painting materials of a pilot site in Milan
11:15 – 11:30	OP24 – <u>O. Motta, M. Ricciardi, E. Giorgini, V. Notarstefano, T. Notari, M. Piscopo, L. Montano</u>	First evidence of microplastics in human semen and urine samples	OP32 - L. Giuliani, V. Stagno, C. Biribicchi, C. Genova, D. J. Adams, S. Capuani, <u>G. Favero</u> Characterization of a high viscosity polymer dispersion encapsulating essential oil of glycyrrhiza glabra for the cleaning of biodeteriorated stones
11:30 – 11:45	OP25 - <u>G. Biale, J. Lykkemark, M. Mattonai, A. Vianello, F. Modugno, J. Vollertsen</u>	Py-GC-MS analysis of microplastics in sediments: effects of matrix components	OP33 - E. Vivar-García, A. García-Bueno, S. Germinario, L. Bergamonti, C. Graiff, A. Casoli, <u>M. Potenza</u> Evaluation of cleaning methods on decorated plaster in artistic Hispano-Muslim artworks
11:45 – 12:00	OP26 - <u>F. A. Monikh, S. Bogianni, A. Tapparo, P. Pastore</u>	An analytical approach to quantify nanoplastics in the food web: from vegetable to fishnatural environment	OP34 - <u>C. Genova, A. Ciccola, S. Sennato, M. Beccaccioli, L. Rumpf, L. Giuliani, S. Capuani, R. Curini, G. Favero</u> New insights in the protection of wooden materials from fungal biodeterioration: chitosan-based nanoparticles loaded with R-(+)-Pulegone
12:00 – 12:15	OP27 - <u>G. Falco, A. Fenti, S. Galoppo, P.Iovino</u>		OP35 - Y. Zhang, F. Zenucchini, Chiara Ricci, <u>D. Scalarone</u>

	Anodic oxidation of polystyrene: treatment of microplastics in water	Analytical evaluation of the effectiveness of laser cleaning in the context of contemporary muralism
12:15 – 12:30	OP28 - D. Vione, M. Minella, L. Carena, M. Passananti Fate of semivolatile polystyrene photodegradation products in surface waters and the atmosphere	OP36 – M. L. Weththimuni, C. Lee, M. Ferretti, G. Fiocco, F. Volpi, M. Malagodi, M. Licchelli Cleaning tools for removing aged polymer coating from stone artifacts
12:30 – 12:45	OP29 - A. Brunelli, C. Salgado, J. J. Reinosa, J. Fernandez, D. Hristozov, A. Marcomini, E. Badetti Accelerated weathering of nano-based food packaging material: investigation of potential migration into a food simulant	OP37 – G. D'Agostino, M. Caruso, S. Milioto, G. Cavallaro, G. Lazzara Hydrophobic microparticles/halloysite nanotubes composites: a versatile material from pickering emulsion strategy
12:45 – 13:00	OP30 - A. Illiano, C. Fontanarosa, M. Spinelli, E. Pignoli, G. Pinto, S. Serpico, A. Amoresano Wildlife and livestock animals as sentinels of environmental pollution: quantification of persistent, bioaccumulative, toxic substances and potentially toxic elements	OP38 – G. D'Agostino, G. Lazzara, M. Caruso, S. Milioto, G. Cavallaro A new use of Funori in cultural heritage: preliminary thermal and rheological investigations
13:00 – 14:30	Lunch (Libero)	

	AULA 1 <i>Environmental Chemistry Session</i> Chairperson: D. Vione	AULA 2 <i>Cultural Heritage Session</i> Chairperson: S. Prati
14:30 – 14:45	OP39 – A. Cardito, M. Carotenuto, O. Sacco, L. Albarano, V. Vaiano, P. Iannece, G. Libralato, V. Romano Spica, G. Lofrano Photocatalytic degradation of acid orange by Fe ⁰ /ZnS and effluent toxicity effects	OP47 – A. Abdelmohsen, A. Calia, D. Fico, E. Vasanelli, M. Destefani, E. Balliana, M. Zucchelli, E. Zendri Investigating the effectiveness of consolidation material in earthen building heritage
14:45 – 15:00	OP40 – A. Faggiano, M. Ricciardi, O. Motta, A. Fiorentino, A. Proto	OP48 – M. R. Caruso, G. D'Agostino, L. Lisuzzo, G. Cavallaro, S. Milioto, G. Lazzara

	Greywater treatment and disinfection through combined foam fractionation and persulfate-iron based Fenton process	New treatment for the consolidation and the protection of wool yarns from a Flemish tapestry of the XVIth century
15:00 – 15:15	OP41 – A. Fenti, S. Chianese, J. Blotevogel, D. Musmarra, P. Iovino	OP49 – M. V. Chavez Lozano, E. Bernardi, C. Martini, A. Balbo, C. Chiavari
	Comparison evaluation of trimethoprim removal efficiency using adsorption and electro-oxidation techniques	Conservation of World War II aircraft heritage: an assessment of innovative protective coatings through accelerated ageing tests
15:15 – 15:30	OP42 – A. Fiorentino, A. Faggiano, F. Cerrato, C. A. Garcia Junior, A. Proto	OP50 - A. Casini, D. Chelazzi, R. Giorgi
	Organic matter, nutrients removal and sludge production minimization in landfill leachate treatment by Fenton process	Jin Shofu starch nanoparticles for the consolidation of paint layers
15:30 – 15:45	OP43 - S. Galoppo, A. Fenti, G. Falco, S. Chianese, D. Musmarra, P. Iovino	OP51 - G. Pellis, B. Giussani, P. Letardi, P. Rizzi, B. Salvadori, A. Sansonetti, D. Scalarone
	Electro-oxidation of ammonia from livestock farm wastewater (LWW): a preliminary investigation	Investigation and formulation of sustainable protective coatings for outdoor bronze artworks
15:45 – 16:00	OP44 - P. Prete, F. Di Nardo, A. Proto, R. Cucciniello	OP52 - F. Porpora, C. Forcellini, E. Carretti, L. Dei, R. Weiss, M. De Sanctis, M. Pischedda
	Fe-IDS: A biomass-derived catalyst in photo Fenton-like processes at circumneutral pH for the degradation of surfactants	Proposal for a remediation method for the “vinegar syndrome” in cellulose acetate-based motion picture films
16:00 – 16:15	OP45 – D. Savoca, A. Maccotta, S. Orecchio	OP53 – C. Rigon, M. Ioele, M. Pitocco, A. Antonacci, A. Masi, G. Gasperuzzo, G. Favero
	Uptake and photoinduced degradation of phthalic acid esters (PAES) in <i>Ulva lactuca</i> highlight its potential application in environmental bioremediation	Preliminary study on consolidating properties of a microalgae extract called NYMPHA on paper
16:15 – 16:30	OP46 - M. Zannotti, G. Bartolucci, A. Vassallo, S. Pucciarelli, R. Giovannetti	OP54 - L. Bergamonti, M. Potenza, A. Casoli, C. Graiff, M. Ioele, C. Rigon, M. Torre, M. Pitocco, S. Donati, A. Malintoppi

Light-induced photoreduction of Cr(VI) in wastewater by valuable bacterial pigments

Crystalline nanocellulose in the restoration of hemp strings of the work "La Torre" by artist Maria Lai

16:30 – 17:00

Coffee break/Session Poster Beni Culturali

AULA 1

Environmental Chemistry and Cultural Heritage Session

Chairperson: A. Proto

17:00 - 18:00

Awards and Medals of the Divisions

18:00 - 19:00

Assembly of the Division

Sabato 30 Settembre 2023

AULA 1

Environmental Chemistry and Cultural Heritage Session

Chairperson: A. Marcomini

9:00 – 9:30	IS03 - D. Cespi Chemical industry and Life Cycle Assessment
9:30 – 9:45	SP04 – Y. Miele (ClePrIn) Bio-sustainable and low-environmental impact formulations for automatic cleaning systems
9:45 – 10:00	SP05 – D. Sofia (Sense Square) The protection of archaeological and environmental heritage through the use of new monitoring technologies: the case of the eco-archaeological park of Pontecagnano
10:00 – 15:00	Social trip and lunch

AULA 1

Environmental Chemistry

Session

Chairperson:

L. Rivoira

AULA 2

Corso di aggiornamento

Ordine Regionale dei Chimici

e dei Fisici della Campania

*“Dal Rifiuto all’End-of-Waste:
il recupero come reale spinta
all’economia circolare”*

Chairpersons:

A. Tapparo, M. Di Serio

15:00 – 15:15	OP55 – L. Calgaro, M. Aghito, E. Giubilato, J.P. Jalkanen, C. Ferrarin, E. Majamäki, E. Semenzin, A. Marcomini ChemicalDrift 1.0: a new open-source Lagrangian chemical-fate and transport model for organic aquatic pollutants: the northern Adriatic sea case study	14:30 – 15:00	G. Stocco Rifiuto e materia recuperata, il delicato intreccio tra le normative per la conformità dei processi e dei prodotti
15:15 – 15:30	OP56 – V. Canaletti, A. Bonetto, A. Brunelli, A. Marcomini, E. Semenzin, E. Badetti Pollutants released from wastes stored in eco-centers: detection and quantification	15:00 – 15:30	A. Baldisseri I criteri di autorizzazione degli impianti di recupero rifiuti per la produzione di End of Waste, alla luce delle nuove Linee Guida ISPRA

15:30 – 15:45	OP57 - A.S. Gaetano, S. Semeraro, S. Fornasaro, E. Greco, S. Licen, V. Gelao, S. Briguglio, S. De Martin, C. Ametrano, F. Malfatti, A. Cain, MG Perrone, F. Barbon, A. Pallavicini, P. Barbieri	16:00 – 16:30	A. Tapparo Tecniche analitiche di screening per caratterizzazione dei rifiuti e dei materiali recuperati
	Workflows for assessing pressure, state and impacts of antibiotics released in waste waters in a coastal city (Trieste, NE-Italy)		
15:45 – 16:00	OP58 - D. Chionna, T. Siciliano, F. Natali, A. Genga		
	Groundwater quality in south Apulia peninsula		
16:00 – 16:15	OP59 – A. Sperotto, B. Sambo, S. Balbi, F. Villa, A. Critto		
	Improving water quality assessment under multiple stressors: exploring the potential of AI-driven technologies		
16:15 – 16:30	OP60 - M. Cecchetto, E. Giubilato, C. Bettiol, M. Picone, A. Volpi Ghirardini, F. Corami, M. Milan, I. Bernardini, V. Matozzo, D. Asnicar, A. Marcomini, E. Semenzin		
	Extending a quantitative weight of evidence approach to include 'omics in sediment quality assessment: the case study of a Venice lagoon canal		

16:30 –17:00

Coffee break

AULA 1	AULA 2
Environmental Chemistry Session Chairperson: E. Zendri	Corso di aggiornamento Ordine Regionale dei Chimici e dei Fisici della Campania "Dal Rifiuto all'End-of-Waste: il recupero come reale spinta all'economia circolare" Chairpersons: A. Tapparo, M. Di Serio

17:00 – 17:15 **OP61 – S. Alfei, F. Grasso, V. Orlandi, E. Russo, R. Boggia, G. Zuccari**

17:00 – 17:30 **P. Mainolfi**
Valutazione del rischio e comunicazione nei siti

	Low-cost and up-scalable adsorbent hydrogels for anionic dyes remediation and industrial wastewater decontamination by electrostatic interactions		contaminati
17:15 – 17:30	OP62 – L. Bergamonti, E. Michelini, D. Ferretti, L. Fornasini, D. Bersani, P.P. Lottici, A. Casoli, C. Graiff Microstructural and mechanical characterization of slag-based one-part geopolymers binders and mortars	17:30 – 18:00	S. Moro Iacopini Sostanze chimiche in articoli e materiali recuperati: la transizione verso materiali e prodotti più sicuri
17:30 – 17:45	OP63 – T. Chenet, E. Sarti, V. Costa, C. Stevanin, M. Cescon, L. Pasti Adsorption of humic acids monomers onto zeolites: effects on the removal of organic contaminants	18:00 – 18:30	M. Ortenzi Plastica riciclata o bioplastica: problemi, opportunità e criticità a livello analitico
17:45 – 18:00	OP64 – F. De Paola, G. De Tommaso, M. Iuliano, O. Tarallo, G. Roviello, C. Ferone, E. Adsorption of toxic bivalent cations Pb(II) and Cd(II) onto hybrid geopolymers from environmental samples	18:30 – 19:00	A. Tapparo, M. Di Serio Discussione e conclusioni
18:00 – 18:15	OP65 - J. J. Lucejko, R. D'Orsi, C. Vlad Irimia, B. Kahraman, Y. Kanbur, C. Yumusak, M. Bednorz, F. Babudri, M. Irimia-Vladu, A. Operamolla Lignin - a high potential waste material		
18:15 – 18:30	OP66 - R. Paparo, M. Fortunato, G. Carotenuto, F. Uggeri, V. Russo, M. Di Serio, M. Trifuoggi, L. Nicolais Adsorption kinetics of Iopamidol onto activated carbon		
18:30 – 18:45	OP67 – L. Rivoira, A. Zambotti, M. Biesuz, G.D. Sorarù, A. Bruni, B. Onida, M.C. Bruzzoniti		

Polymer-derived SiC/C aerogels
for removal of glyphosate
herbicide from water matrices
**18:45 – 19:00 OP68 - C. Stevanin, R. Boaretto,
T. Chenet, M. Cescon, S.
Caramori, L. Pasti**

Mixed matrix membranes for the
removal of PFAS from aqueous
solutions

20:30 – 23:00 Social dinner

Domenica 1 Ottobre 2023

	AULA 1 <i>Environmental Chemistry Session</i> Chairperson: P. Iovino	AULA 2 <i>Cultural Heritage Session</i> Chairperson: M. Ricciardi
9:00 – 9:15	OP69 - M. Borelli, G. Santucci de Magistris, Claudia Schianchi Betti, A. Bergomi, C. A. Lombardi, P. Fermo, V. Comite, A. M. Toppetti, L. Fialdini, P. Omodeo, E. Mannelli, A. Balzarini, G. Pirovano, N. Luciano Saline pollution on the electrical system insulators: a chemical study	OP75 - S. Carboni Marri, L. Monico, A. Romani, F. Rosi, C. Miliani, R. Vivani, K. Janssens, G. Van der Snickt, V. Gonzales, M. Cotte, O. Mathon, F. D'Acapito New insights into the degradation path of Emerald green in oil paintings
9:15 - 09:30	OP70 - A. Bergomi, S. Chiavarini, C. Morreale, S. Bertagna, P. Fermo, T. La Torretta, A. Malaguti, M. Stracquadanio, A. Piersanti, G. Migliavacca Evaluation of pollutant emissions from a hybrid oven (wood-fired and gas-fired)	OP76 – V. Mameli, M. Sanna Angotzi, E. Farinini, R. Leardi, C. Lugliè, C. Cannas Intra-source non-destructive provenance study on monte arci (Sardinia) obsidian by pXRF: a comparison of different analytical approaches
9:30 - 9:45	OP71– J. Arduini, S. Annadate, R. Cesari, S. Falasca, Umberto Giostra Long-term emission estimates of radiatively active species at the regional scale using inverse modelling techniques: science for service	OP77 – A. Ferretti, E. Hunt, I. Degano Acid dyes-based inks: disclosing the degradation pathways of modern inks through an optimised chromatographic method

9:45 - 10:00	OP72 – D. Cappelletti, Ž. Ežerinskis, J. Šapolaitė, L. Bučinskas, B. Luks, A. Nawrot, C. Larose, P. Tuccella, J. C. Gallet, S. Crocchianti, F. Bruschi, B. Moroni, A. Spolaor Climate change trigger atmospheric transport of nuclear waste residuals to the arctic	OP78 – A. Timoncini, R.J. Turner, E. Bernardi, C. Martini, A. Balbo, M. Cappelletti, C. Chiavari Biofilm formation and biocorrosion on historical outdoor bronze artefacts
10:00 - 10:15	OP73 - R. Nardin, M. Severi, S. Becagli, R. Traversi Spatial and temporal variation in surface snow chemistry along a traverse in the east Antarctic plateau in the framework of the EAIIIST project	OP79 - O. Yatsuk, G. Fiocco, M. Malagodi, A. Re, A. Lo Giudice, A. Mangone, L.C. Giannossa, C. Iaia, P. Davit, M. Gulmini Black-appearing glass from iron age central Italy: an insight into the material through chemical analyses
10:15 - 10:30	OP74 - P. Maroni, L. Ferrero, M. Campione, M. Corti, N. Malaspina Microwave-assisted mineral carbonation of brucite as a proxy for CO ₂ capture by serpentine using an equilibrium model to validate experimental data	OP80 - J. La Nasa, C. Blaensdorf, E. Dolcher, S. Del Seppia, R. Ducoli, J.J. Lucejko, A. Mannariti, S. Micheluz, F. Modugno, N. Capra, L. Giovannini, M.L. Tomasi, M. Pamplona, M.P. Colombini, I. Degano, I. Bonaduce Aerospace technology as part of our heritage: characterization of aircraft materials and study of their degradation processes by analytical pyrolysis

10:30 – 11:00

Coffee break

	AULA 1 <i>Environmental Chemistry Session</i> Chairperson: M. Trifoggi	AULA 2 <i>Cultural Heritage Session</i> Chairperson: E. Chianese
11:00 – 11:15	OP81 - I. Gini, A. Balzarini, G. Pirovano, L. Fialdini, A.M. Toppetti, A.M. Cefalì, N. Losi, A. Doldi, L. Giovanazzi, S. Cerri, E. Bolzacchini, L. Ferrero	OP85 - S. Schiattone, C. Martini, M. Malagodi, G. Fiocco, C. Chiavari

	Thermodynamic prognostic model ISORROPIA applied to insulator flashover prevention	Metal fragments of Roman flutes from Pompeii: investigations on copper-based alloys, corrosion products and surface treatments
11:15 – 11:30	OP82 - L. Ferrero, N. Losi, M. Rigler, A. Gregorič, G. Močnik, P. Markuszewski, V. Drozdowska, P. Makuch, M. Kitowska, T. Zielinski, P. Pakszys, A.M. Cefalì, I. Gini, A. Doldi, E. Bolzacchini	OP86 – F. Volpi, G. Fiocco, M. Gargano, M. Albano, T. Rovetta, C. Delledonne, C.H. Lee, M. Malagodi
	Aerosol chemical composition and heating rate from the tropics to the north pole	Attributing the origin of two Medioeval musical parchments by non-invasive analyses
11:30 – 11:45	OP83 - M. Toscanesi, M. Annetta, A. A. Brouziotis, G. Di Natale, A. Giarra, P. Ranieri, M. Ruocco, S. Sbriglia, C. Spano, M. Trifuoggi Chemical characterization of atmospheric particulate from urban environment: the MONAIR project	OP87 - C. A. Lombardi, V. Comite, V. Guglielmi, A. D'Amato, M. Borelli, A. Bergomi, P. Piacentini, A. Tomaino, P. Fermo In situ micro- and non-invasive analyses for the study of cartonnages from the necropolis of Aswan (Egypt)
11:45 – 12:00	OP84 - A. Moretta, D. Sofia, V. Venditto, A. Proto	OP88- A. A. Brouziotis, A. Giarra, M. Guida, G. Libralato, F. Lombardo, C. Manfredi, A. Marano, L. Saviano, F. Tommasi, M. Toscanesi, M. Trifuoggi Rare earth elements in three abandoned mining sites in the region of Puglia
	Innovative strategies to address environmental issues: citizen science monitoring approaches	

AULA 1

Environmental Chemistry and Cultural Heritage Session

Chairperson: A. Proto

12:00 – 13:00 Flash presentations and poster awards

13:00 – 13:30 Closing remarks and farewell

POSTER

CODE	TITLE	PRESENTING AUTHOR
POS01	BIOACCUMULATION OF TOXIC ELEMENTS ALONG THE TROPHIC CHAIN OF THE "OASI DI ALVIANO" (CENTRAL ITALY)	C. Petroselli
POS02	A COMPARATIVE LIFE CYCLE ASSESSMENT OF TWO TANNING PROCESSES: INNOVATIVE GREEN ORGANIC VS TRADITIONAL CHROME-BASED	M. Menegaldo
POS03	BIOCAPACITY DISPLACEMENT AS A DRIVER OF GLOBAL NATURAL CAPITAL TRANSFER	N. Marchettini
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