



18TH INTERNATIONAL CONFERENCE ON CHEMISTRY AND THE ENVIRONMENT

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11 – 15 JUNE 2023 VENICE, ITALY

Venue:

SCIENTIFIC CAMPUS

CA' FOSCARI UNIVERSITY OF VENICE (ITALY)

Book of Abstracts



Dear colleagues,

On behalf of the Executive Board of the European Chemical Society, I wish you a warm welcome to this 18th International Conference on Chemistry and the Environment. The European Chemical Society – in short EuChemS – is an overarching society at the European level with over 50 national member societies as members. In this way, EuChemS represents approximately 130,000 chemists from all over Europe. Did you ever realize that by being a member of your national society, you are a member of EuChemS too?



The slogan of this conference is 'Towards a pollution free society', which is well aligned with activities from EuChemS. The European Commission recently set up the Zero Pollution Stakeholder Platform and EuChemS was invited to join. The platform will effectively mainstream the zero pollution agenda by bringing together stakeholders and experts of different policy areas, including health, agriculture, research and innovation, transport, digitalization and the environment. EuChemS will emphasize to address the Zero Pollution challenges from the chemistry perspective in a science-based approach.

I am here in the Netherlands, but you are in the beautiful city of Venice, that I am sure will inspire you to have fruitful and constructive discussions on how to get to zero pollution and how to address many other challenges to create a sustainable environment. I wish you a very enjoyable conference!

Floris Rutjens

President of the European Chemical Society (EuChemS)

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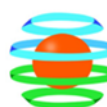
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The ARMID@Venezia: a Project Post-Acqua Granda

M. Baldan^{1*}, A. Martignon¹, S. Eupani², P. Da Col³, D. Manzini⁴ and G. Pojana¹

¹Ca' Foscari University of Venice, Department of Philosophy and Cultural Heritage, Dorsoduro 3484/D, Calle Contarini, 30123, Venice, Italy

²Ca' Foscari University of Venice, Department of Molecular Sciences and Nanosystems, Via Torino 155, 30172, Venice Mestre, Italy

³Benedetto Marcello Conservatory of Venice, San Marco 2810, 30124, Venice, Italy

⁴MADATEC Srl, Via Monte Grappa 18, 20060, Pessano con Bornago (Milan), Italy

maela.baldan@unive.it

The ARMID@Venezia (ARchivio Musicale e Iconografico Digitale A Venezia) project aims to safeguard the extraordinary document collections preserved in the library of the Benedetto Marcello Conservatory of Venice, heavily damaged by the exceptionally high tide of November 2019 (named “Acqua Granda”). The project provides to digitalize, through high photographic reproduction, virtually restore and investigate in detail the materials (supports, inks, pigments and dyes, etc.) with a view to their future physical restoration. Only non-invasive and non-destructive techniques are being employed, such as Imaging Analysis in the Visible (including macro- and micro-photographic examination), near-infrared (NIR) and near-ultraviolet (UV-Induced Fluorescence, Reflected UV) range, on representative artefacts. Non-invasive spectroscopic techniques, such as Fiber Optic Reflectance Spectroscopy (FORS), Infrared Spectroscopy (FTIR, NIR, DRIFT), μ -Raman and X-Ray (XRF) are being applied as well for the chemical characterization of materials. The result of near-infrared, UV-Induced Fluorescence and X-Ray investigation to reveal the damage of brackish water caused by the “Acqua Granda” phenomenon on ancient materials (inks and papers) will be presented.



Some of Benedetto Marcello Conservatory of Venice's ancient musical documents damaged by the Acqua Granda phenomenon

References

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