CSIC Consejo Superior de Investigaciones Científicas idaea

IDAEA YRD26

Programme

November 26th, 2026

9:15 Welcome

9:30 1st SESSION - ORAL PRESENTATIONS

O.01 Morgan Giacoponi - Beyond yield: soil microbial and metabolic responses to biosolid-based fertilization across contrasting soil textures

O.02 Edwyn Andrés Pérez Ortiz - Modelling and characterization of Groundwater Resources in Densely Populated Urban Areas

O.03 Roberta Giorgione - Elemental Characterization of Food-Smoking Materials and Their Particulate Emissions: Towards an Integrated Assessment of Exposure and Toxicity

O.04 Daniel Rozúa - Potential human exposure to heavy metals by users of installations with crumb rubber flooring

O.05 Arbri Mecai - Stream-level prioritisation of critical raw material recovery opportunities under different recycling conditions in an industrial copper smelter

O.06 Miquel Ortiz - Atmospheric inputs of persistent organic pollutants from a former chlor-alkali plant in the Ebro River after completion of remediation activities

O.07 Paula Andrea Beltran Jimenez - Reactive Barriers Modulate Contaminant Remobilization Under Abrupt Conductivity Changes in Soil Aquifer Treatment

10:50 1st SESSION - FLASH PRESENTATIONS

F.01 Juan Rubilar - Hydrogeological controls on PFAS distribution in an urban-industrial alluvial aquifer: insights from the Ripoll River basin, northeastern Spain

F.02 Sara Bortolotti - Assessing Benzodiazepine Consumption in Two Catalan Cities by Integrating Wastewater Analysis and Health Data

F.03 Konstantinos Feroukas - Experimental Analysis of Dispersion and Mixing in 3d Darcy scale Porous Media

F.04 Santiago Gómez Herrera - Identifying contaminants of emerging concern in urban and rural aquifers: a suspect screening-based approach

F.05 Carmen Sáez Camacho - Modeling Redox Dynamics in an Urban Aquifer Located in the Besòs River Delta

11:15 Coffe Break + **POSTER SESSION**

12:00 WORKSHOP by Transmitting Science

14:00 Lunch

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14:45 2nd SESSION - FLASH PRESENTATIONS

F.06 Razieh Sheikhansari - A Probabilistic Screening Tool for Pressure-Constrained CO_2 Storage Capacity with Fault Reactivation Risk under Geological Uncertainty

F.07 Sharon Vizcarra - Machine Learning framework for groundwater quality prediction in the upper Guadiana basin under climate variability

F.08 Irene Castaneda - Synergistic investigation of Organic Pollutants in the urban Atmosphere

F.09 Lisbeth Núñez - InSAR data for characterizing the temporal response of aquifers through spectral analysis

15:00 2nd SESSION - ORAL PRESENTATIONS

O.08 Changhun Lee - Single-pore representation of coupling between evaporation and salt precipitation

O.09 Valentina Araya Piqué - Application of CPxplorer: An Open-Source Quantification Tool of Polychlorinated Alkanes as Main Components of Chlorinated Paraffins

O.10 Laura Salazar Remigio - Organic pollutants in diverse types of sediments from a tropical Reef System of the Southern Gulf of Mexico

O.11 Asadulla Hil Galib - Towards ecologically relevant effect-directed analysis: a periphytic biofilm bioassay for complex contaminant mixtures

O.12 Diego Schmidlin - Hydrochemical source apportionment and contaminant transfer pathways in a Mediterranean urban aquifer under drought recovery conditions

15:50 POSTER SESSION

16:20 3rd SESSION - ORAL PRESENTATIONS

O.13 Deby Jurado Duarte - Quantitative evaluation of governance options for groundwater-quality improvement in an urban coastal multilayer aquifer: the Besòs River Delta case study

O.14 Flavia Conte - Biomonitoring of Bisphenols in Canine Hair from the Land of Fires (Southern Italy) Using LC-MS/MS within a One Health Framework

O.15 Antonio Ortiz Romero - Neural Operators for Thermal Front Propagation in Heterogeneous Geothermal Reservoirs

O.16 Joaquim Cortés Hurtado - Contribution of sources to the oxidative potential (OP) of particulate matter (PM) in Barcelona: 2018-2024

17:00 TRIVIAL

17:40 Awards and Garden Party

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POSTERS

P.01 Johana Burbano - Air pollution exposure, inhaled doses, and health outcomes in vulnerable populations: A cross-sectional multi-city study

P.02 Arianna Bautista Gea - Distribution of Per- and Polyfluoroalkyl Substances in Human Autopsy

P.03 Patricia Sigoña León - Synergistic Effects of Extreme Drought and Anthropogenic Pressures on Spring Water Quality in Barcelona Province

P.04 Pol Estanyol - Optimization of sorbents in Ceramic Passive Samplers for marine pollutants from SEATRACE project

P.05 Francesca Gioe - Exploring sediment-biota relationships in complex marine environments through chemometric approaches

P.06 Edoardo Barbieri - Beyond Growth Inhibition: Uncovering Sub-Lethal CEC Toxicity in Marine Microalgae Through Metabolomics

P.07 Paula Ruiz Francisco - Environmental exposure to persistent and non-persistent organic pollutants during pregnancy

P.08 Eloy Torres - Assessment of per- and polyfluoroalkyl substances and physiological health in bycaught loggerhead turtles (Caretta caretta) along the Catalan coast

P.09 Francesca Femiano - Effects of the short-chain PFAS PFBS on aquatic organisms: a combined in vivo and in vitro approach

P.10 Liliya Sokalchuk Sokalchuk - Decoding the molecular fingerprints of organophosphate flame retardants with transcriptomics

P.11 Alejandro Pujante - Machine Learning-Based Gap Filling for PM Long-Term Chemical Speciation

P.12 Benjamín Crisóstomo - Lithological controls and post-drought flushing: Hydrochemical and isotopic insights from a Mediterranean river basin

P.13 Erik Mestanza Castelltort - HRMS Suspect Screening of Pharmaceutical Transformation Products in Simulated Aquifers

P.14 Dana Pierina Orlando Véliz - Towards cleaner water: Monitoring micropollutants under the New EU Urban Wastewater Treatment Directive

P.15 Daniela Ernestina Aguado Figueroa - Assessment of the bioaccumulation of mercury and other trace metals in Anguilla anguilla in rivers and lagoons of Catalonia and Mallorca

P.16 Albert Pina Benages - Comprehensive Coverage and Semi-Quantification of Marine Biotoxins in Catalan Coast