

CONFERENCE'S PROGRAM:

All scientific activities will take place at **Salón de Grados A** of the School of Industrial Engineering (EII) in the Campus of Teatinos of the University of Málaga

| TUESDAY | | JULY 5, 2022 |
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| 18:30 – 19:30 | <p>Workshop: Remote and in-situ sampling with the Virsa Raman Analyser, a valuable tool in the science of Cultural Heritage.</p> <p>Riccardo Tagliapietra, Sebastien Maussang (RENISHAW)</p> <p>Free registration. Send mail to: mmontejo@ujaen.es</p> | |
| 20:30 | <p>Welcome reception / Registration</p> <p>Meeting point: Casa Hermandad "Sepulcro", C/ Alcazabilla 5, 29015 Málaga</p> | |
| WEDNESDAY | | JULY 6, 2022 |
| 8:00 – 9:00 | Registration | |
| 9:00 – 9:30 | Opening Ceremony | |
| | CHAIR: M^a ROSA LÓPEZ RAMÍREZ | |
| 9:30 – 10:30 | <p>PL1: Applied spectroscopy: Impact of organics in the chemistry of the Earth's atmosphere and the interstellar medium.</p> <p>Elena Jiménez Martínez (University of Castilla-La Mancha)</p> | |
| | <p>OC1: Detection of biomarkers on lichens after Space and Mars like conditions with Raman</p> <p>Rosa de la Torre Noetzel (CSIC-INTA)</p> | |
| 10:30 – 11:15 | <p>OC2: XPS study of chemical evolution of glycine on pyrite (100) surface</p> <p>Santos Gálvez Martínez (CSIC-INTA)</p> <p>OC3: Subfemtogram detection power for single-trapped nanoparticles in laser-induced plasmas</p> <p>Francisco Javier Fortes (UMALASERLAB)</p> | |
| 11:15 – 11:45 | Coffee Break (Hall in ground floor) | |
| | CHAIR: FRANCISCO ÁVILA FERRER | |
| 11:45 – 12:15 | <p>IL1: A bright future for upconversion nanoparticles</p> <p>Marco Lurenti (UCM – CSIC-ICMM)</p> | |
| | <p>OC4: Polymeric (nano)composite papers as analytical platforms coupled to spectroscopic techniques</p> <p>Ángela Inmaculada López Lorente (U. Córdoba)</p> <p>OC5: Hyperspectral characterization of head and neck cancer in mice</p> <p>Alba Martín de la Torre (U. Cantabria)</p> | |
| 12:15 – 13:30 | <p>OC6: Electrospraying as Method for the Synthesis of Biocompatible PLGA@Ag2S and PLGA@Ag2S@SPION Nanocarriers with Drug Release Capability</p> <p>Rafael Contreras Cáceres (UCM)</p> <p>OC7: Molecular super-gluing: a straightforward tool for antibody labelling and its application to mycotoxin biosensing</p> <p>Fernando Pradanas González (UCM)</p> <p>OC8: Multiparametric Microanalyzer as a Warning System for Heavy Metals Monitoring in Water using Carbon Dots as Luminescent Reagent</p> <p>Alex Pascual-Esco (UAB)</p> | |
| 13:30 – 15:00 | Lunch (EII Cafeteria) | |
| | CHAIR: JOSÉ MIGUEL VADILLO | |
| 15:00 – 16:00 | <p>PL2: Mid-Infrared Photonics: From Emerging Technology to Enabling Tool</p> <p>Boris Mizaikoff (University of Ulm)</p> | |
| 16:00 – 16:30 | <p>OC9: FTIR and VCD assisted study of the speciation in solution of racemic and enantiopure NSAIDs: ketoprofen, naproxen and ibuprofen.</p> <p>Magdalena Sánchez Valera (UJA)</p> | |

OC10: Carbonaceous dust specific surface area determination using grazing-angle reflection-absorption IR spectroscopy
Belén Maté (CSIC-IEM)

16:30 – 16:55 **Coffee Break (Hall in ground floor)**

CHAIR: M^a VEGA CAÑAMARES ARRIBAS

OC11: Study of the aggregation behaviour and environmental stability of Platinum nanoparticles in water systems.

17:00 – 17:30 **Armando Sánchez Cachero** (UCLM)

OC12: Vibrational Spectroscopy Complemented with Chemometrics as a Tool for Auxiliary Diagnosis of Psychiatric Disorders

Gülce Ogruc Ildiz (Istanbul Kultur University)

17:30 – 18:30 **Posters' Session (Hall in ground floor)**

Conference's Social Program Activities:

19:30 **"Excursion, sunset and astronomical observation in "Torcal de Antequera"**

BUS DEPARTURE in Meeting point: EII - CONFERENCE VENUE

THURSDAY

JULY 7, 2022

CHAIR: BELÉN MATÉ NAYA

9:30 – 10:30

PL3: *IR-Induced and Tunneling-Driven Reactions in Cryogenic Matrices "Plastic Molecular Cryosurgery"*

Rui Fausto (University of Coimbra)

OC13: Mid-infrared spectroscopy of aliphatic molecular ices exposed to UV radiation in dense molecular cloud

Guillermo Tajuelo Castilla (CSIC-ICMM)

10:30 – 11:15

OC14: Solution-Cathode Glow Discharge Optical Emission Spectrometry for Elemental Analysis: Novel Insights and Instrumental Approaches.

Jaime Orejas (UNIOVI)

OC15: Computation of Molecular Aggregates Vibronic Spectra with a Mixed Quantum/Classical Approach

Daniel Aranda Ruiz (ICMol- UV)

11:15 – 11:45

Coffee Break (Hall in ground floor)

CHAIR: MANUEL MONTEJO GÁMEZ

11:45 – 12:15

IL2: *Microenvironment sensing by multiparametric microscopy and nanoscopy*

Ángel Orte (University of Granada)

OC16: Chirality from twisting

Francisco Javier Ramírez (UMA)

OC17: Comparative study of γ and δ alumina by vibrational spectroscopies

Íñigo González de Arrieta (CNRS - Orléans)

12:15 – 13:15

OC18: Mapping minerals in a Dhofar meteorite by Raman imaging

Ana Isabel Casado Gómez (UCM)

OC19: A detailed IR, Raman spectroscopic and DFT theoretical analysis of commercial additives monosodium glutamate and xylitol.

Vicente Timón (CSIC-IEM)

13:15 – 13:45

Posters' Session (Hall in ground floor)

13:45 – 15:00

Lunch (EII Cafeteria)

CHAIR: SANTIAGO SÁNCHEZ CORTÉS

15:00 – 15:30

IL3: *Innovation in Analytical Spectrometry driven by Nanotechnology*

Carlos Bendicho (University of Vigo)

OC20: Analysis of two blue triarylmethane dyes by UV-Vis, FT-Raman and SERS spectroscopies.

15:30 – 16:15

Michela Rampa (CSIC-IEM)

OC21: Spectroscopic analysis and identification of Islamic and Christian materials and pigments in the church of Santa Catalina-convent of Santo Domingo (Jaén)

Alberto Sánchez (UJA-IUIAI)

OC22: Raman spectroscopy and SERS methodology for the analysis of a melamine admixture superplasticizer for concrete.

Ana Crespo (CSIC-IEM)

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| 16:15 – 17:00 | Coffee Break (Hall in ground floor) CHAIR: ROSA DEL CARMEN RODRÍGUEZ MARTÍN-DOIMEADIOS |
| | OC23: Hyperspectral infrared imaging of dystrophic mice muscles. Verónica Mieites Alonso (IDIVAL-UC) |
| 17:00 – 17:45 | OC24: Spectroscopic monitoring of the stability of Phycoerythrin dye extract: influence of temperature, pH, light exposure and preservatives. Ruperto Bermejo Román (UJA) |
| | OC25: Electric field and charged cluster dual model for Potential Dependent Surface-Enhanced Raman Spectroscopy. Francisco García González (UMA) |
| 17:45 – 18:30 | Societies' Assemblies |
| | Conference's Dinner |
| 21:00 | Meeting point: Restaurante "El Balneario – Baños del Carmen" C/ Bolivia 26, 29018 Málaga |

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| FRIDAY | JULY 8, 2022 |
| | SPONSORED BY LASING  |
| | CHAIR: VALENTIN GUADAÑO |
| 9:30 – 10:30 | PL4: LIBS and acoustic measurements of rocks and regolith and the exploration of Mars Javier Laserna (UMALASERLAB) |
| | OC26: The crucial role of molecular emissions on detectability of organic biosignatures under Mars atmosphere conditions by LIBS Tomás Delgado Pérez (UMALASERLAB) |
| 10:30 – 11:00 | OC27: Detection of <i>A. platensis</i> cyanobacteria in different inorganic matrices by LIBS under a simulated Martian atmosphere Laura García Gómez (UMALASERLAB) |
| 11:00 – 11:25 | Coffee Break (Hall in ground floor) CHAIR: M^a ROSA LÓPEZ RAMÍREZ |
| 11:30 – 12:00 | IL4: Studying Protein Stability in Ionic Liquids: Insights from NMR Eurico J. Cabrita (UCIBIO-NOVA) |
| | OC28: Through the NMR looking glass: Unravelling role of water in DESs nanostructure Ana Sofia Diogo Ferreira (UCIBIO-NOVA) |
| | OC29: CPL and ROA: a rare couple together Luis Palomo (UMA) |
| 12:00 – 13:00 | OC30: Concomitant Ion Impact on the Performance of A SCGD-OES Elemental Analysis Approach Yinchenxi Zhang (UNIOVI) |
| | OC31: Detection of the glyphosate pesticide by SERS: development of a new highly selective and sensitive detection method Francisca Belén Fuenzalida Sandoval (UPJS) |
| 13:00 | Closing Ceremony |