

Friday 10th of July 2020

9:00- Invited Lecturer: **Dr. Jesús Martínez de la Fuente** (Aragón Materials Science Institute). "Hybrid Nanoparticles for Therapy and Diagnosis: New Biotechnological Challenges for Hyperthermia".

10:00- 6th session

- "Effect of oenological by-products as natural antioxidants and flavourings in meat products". **Marina Alarcón**. Food Sciences and Technology.
- "A screening method for the assessment of the release of silver nanoparticles from food containers". **Ana Isabel Corps**. Analytical Chemistry.
- "Effect of COVID-19- lockdown on the air quality of different cities". **María Gabriela Viteri**. Physical Chemistry.
- "Electrochemical technologies for the elimination of antibiotics in hospital urine". **Ángela Moratalla**. Chemical Engineering.
- "Graphene-based sulfonate hydrogels: Soft scaffolds for cell culture". **Josué Muñoz**. Organic Chemistry.
- "Antitumoral effects of resveratrol through adenosinergic system on cervical cancer cell line". **Sonia Muñoz**. Biochemistry.

12:00- 7th session

- "Bimetallic Zinc Catalysts for Ring-Opening Copolymerization Processes". **Felipe de la Cruz**. Inorganic Chemistry.
- "Tumor lockdown: how to beat cancer through confinement measures". **Miriam Nuncia**. Biochemistry.
- "Accurate quantification of polycyclic aromatic compounds adsorbed on soot samples". **Sonia Lara**. Physical Chemistry.
- "Determination of biological markers oxidative stress by capillary liquid chromatography mass spectrometry". **Yassine Benmassaoud**. Analytical Chemistry.
- "Applying statistics criteria in rational selection of probiotic Lactobacillus strains to be used as biocontrol agents". **Sara Rodríguez**. Food Sciences and Technology.
- "CO₂ reduction by simulated sunlight and TiO₂-based catalysts". **Verónica Rodríguez**. Chemical Engineering.

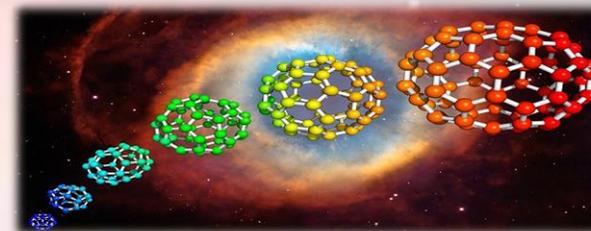
13:30- Colloquium, Prize winners and Closing Ceremony chaired by the Vice-Chancellor of Research and Scientific Policy of UCLM, the Dean of the Faculty of Chemical Sciences and Technology and Ricardo Jurado (AGROVIN, sponsor of the V Prize of Young Science) who presents "Application of ultrasound in the production of quality wines".

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XIV YOUNG SCIENCE SYMPOSIUM 2020



Virtual edition- Faculty of Chemical Sciences and Technology
8-10th of July 2020

FREE ELECTIVE CREDIT: University of Castilla-La Mancha
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V PRIZE OF YOUNG SCIENCE FACULTY OF SCIENCES
AND TECHNOLOGY
and
III POSTER PRIZE OF YOUNG SCIENCE FACULTY OF
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Scientific committee:

Ángel Ríos Castro, Dean of Faculty
Maria Antonia Herrero Chamorro, 'STCLM de la RSEQ'
Alberto Ramos Alonso, 'Inorganic Chemistry'
Ana Raquel de la Osa Puebla, 'Chemical Engineering'
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Antonio Manuel Rodríguez García, 'JIQ-RSEQ - EYCN EuChemS'

Organization committee:

José Pérez Navarro, 'Food Sciences and Technology'
Cristina Montes Correal, 'Analytical Chemistry'
Sergio Blázquez González, 'Physical Chemistry'
Alberto José Huertas Alonso, 'Organic Chemistry'
Maria del Prado Caballero, 'Inorganic Chemistry'
Luis Fernando León Fernández, 'Chemical Engineering'

Wednesday 8th of July 2020

9:00- Opening ceremony chaired by the Rector Magnificus of the UCLM and the Dean of the Faculty of Chemical Sciences and Technology.

9:30- Invited Lecturer: Prof. Rafael Van Grieken (Rey Juan Carlos University). "La carrera académica: luces y sombras de un complejo camino".

10:30- 1st session

- "Plasmonic nanosensing based on AuNPs for UV-Vis/Colorimetric assessment of global aminoacids amount in food supplements". **Manuel Bartolomé**. Analytical Chemistry.
- "Nanostructured electrodes prepared by magnetron sputtering for water electrolysis". **Ester López**. Chemical Engineering.
- "Ring-Opening Polymerization of Cyclohexene Oxide Catalyzed by Scorpionate Aluminium Complexes". **Miguel Ángel Gaona**. Inorganic Chemistry.
- "Benzoazoles as two-photon absorbing chromophores". **Beatriz Donoso**. Organic Chemistry.

11:30- Break.

12:00- Invited Lecturer: Dr. Teresa Garde-Cerdán (Institute of GrapeVine and Wine Science). "Foliar application of biostimulants in the vineyard: A tool to improve grape and wine quality and attenuate the effects of climate change".

13:00-14:30-Poster session I.

16:00- 2nd session

- "Grape seed extract supplementation modulates hepatic lipid metabolism in healthy rats and could be effective for preventing the progression of overweight-related metabolic disorders". **Eduardo Guisantes**. Food Sciences and Technology.
- "Kinetics on Supercritical Epoxidation of Vegetable Oils". **Juan Catalá**. Chemical Engineering.
- "Speciation of a polyphenolic pigment in free solution and encapsulated into a nanocarrier system. Quantification of this bioactive in micellar medium in nutraceuticals". **Esther Pinilla**. Analytical Chemistry.
- "Effects of central leptin on metabolic reprogramming of adipose tissue. Role of PPAR β/δ and FGF21". **Lorena Mazuecos**. Biochemistry.
- "Substituted Alkynylbenzenes and Bithiophenes-Based Crystalline Structures: X-Ray Study and Optical Waveguide Behaviour". **Carlos Tardío**. Organic Chemistry.

Thursday 9th of July 2020

9:00- Invited Lecturer: Prof. Juan Ignacio Cirac (Director and Scientific Member Max Planck Institut of Quantum Optics). "Ordenadores cuánticos: Cómo, cuándo y para qué".

10:00- 3rd session

- "Novel Approach for the analytical control of gold and platinum nanoparticles in clinical and toxicological matrices". **Sergio Fernández**. Analytical Chemistry.
- "Flavan-3-ol composition of chocolate panned raisins". **Carolina Olivati**. Food Sciences and Technology.
- "Microwave-responsive Graphene-based hydrogels for drug delivery applications". **Jorge Leganés**. Organic Chemistry.
- "Characterization and reactivity with NO₂ of diesel soots generated under different combustion conditions". **María Inmaculada Aranda**. Physical Chemistry.
- "Development of organocatalysts for the synthesis of oxazolidones for potential antibiotics". **María del Prado Caballero**. Inorganic Chemistry.

11:15- Break.

11:45- Presentation of the Territorial Section of the Royal Spanish Society of Chemistry (STCLM-RSEQ)

12:00- 4th session.

- "Glycolysis process for polyurethane composites recyclin". **Jesús del Amo**. Chemical Engineering.
- "Push-pull azaheterocyclic chromophores: Synthesis, photophysical properties and use for white light emission". **Rodrigo Plaza**. Organic Chemistry.
- "Why and how do we study the interstellar chemistry?". **Sergio Blázquez**. Physical Chemistry.
- "Influence of ultrasounds on wine microbiota". **Raquel Muñoz**. Food Sciences and Technology.

13:00-14:30- Poster session II.

Thursday 9th of July 2020

16:00- Invited Lecturer: David Medina Cruz (Ph.D. Northeastern University at Boston, USA, The Green Chemistry Lab). "Green Nanobiotechnology and Biofactories: from a laboratory curiosity to a market product helping society".

17:00- 5th session

- "Resistance to oxidation of SO₂ free red wines elaborated with natural antioxidants". **Lourdes Marchante**. Food Sciences and Technology.
- "Acrylamide magnetic hydrogels: different methods for the introduction of magnetic nanoparticles". **Jesús Herrera**. Organic Chemistry.
- "Emerging contaminants treatment in a real waters matrix by AOP processes". **Jihane Ben**. Analytical Chemistry.
- "Comparative study about formation of Secondary Organic Aerosol from ozonolysis of organic compounds". **Alba Escalona**. Physical Chemistry.
- "Development of a combined electro-scrubbing process for the treatment of volatile organic compounds". **Florymar Escalona**. Chemical Engineering.