

PROGRAMA DE DOCTORADO EN INGENIERÍA QUÍMICA Y AMBIENTAL
13ª JORNADA DE DOCTORANDOS

Día / Hora: 27 Noviembre 2025 / 9:15 - 14:00 Lugar: Sala de grados 2304 – Sede Mergelina - Escuela de Ingenierías Industriales

- 9:15 h - APERTURA DE LA JORNADA: A cargo de la Coordinadora del Programa de Doctorado:
- Memoria del curso 2024/2025, datos actuales del Programa y Anuncio de las actividades formativas programadas para el curso 2025/2026

9:30 h - PRESENTACIÓN DEL PLAN DE INVESTIGACIÓN DE LOS DOCTORANDOS DE NUEVA MATRÍCULA

1	Caballero Rojo, Fernando	Removal and bioconversion of NH3 from livestock gaseous emissions at lab and pilot scale
2	Fuentes Zamorano, Jesús Marcelo	Integrated Processes for Biogas Production and Upgrading
3	Jiménez Prieto, Raquel	Assessment of the Impact of Persistent Organic Pollutants (POPs) on Wildlife
4	Martín Morales, Joel	Innovative technologies for the abatement of diluted VOC emissions from waste treatment plants
5	Martos Martín, Paula	Advanced biogas purification using anoxic bioprocesses
6	Mocholí Alabau, Víctor	Assessment of Eco-efficiency, Equity, and Social Acceptability in Municipal Solid Waste Management: An Application to the Catalanian Case
7	Montero Prieto, Adela	Diseño y optimización de biorrefinerías para la conversión de residuos ganaderos en bioproductos de alto valor añadido
8	Papadaki, Nafsika	Anaerobic digestion of microalgae for biogas production
9	Peñaloza Rodríguez, Miguel Ángel	Chemical Reaction Engineering Ecosystem for Sustainability-Oriented Process Intensification Powered by Artificial Intelligence
10	Schmidt Quiroz, Roberto Martín	Methane production via anaerobic digestion using high ionic strength waste streams
11	Sierra Cárdenas, Juliana Nohemy	Sustainable Extraction of Valuable Bioproducts from Sewage Sludge: Analyzing Chemical and Biological Risks (SafeWW)

10:30 h - PRESENTACIÓN DE LOS AVANCES DE LAS TESIS DE LOS DOCTORANDOS DE SEGUNDA MATRÍCULA

12	Costa Belasco, Gabriela	Pathogen removal in domestic sewage treated by microalgae systems: performance study and optimization
13	Cruz Vásquez, Pedro Pablo	Comparative study of mass transfer in bioreactors used for CO2 recovery by KNALLGAS bacteria
14	García García, Ana María	Emisiones de partículas y gases en combustión de biomasa: influencia de la tecnología y del combustible.
15	García García, Samuel	In use and emerging pollutants in Arctic ecosystems: New threats in a global change scenario?
16	Garrido Rodríguez, David	Methanogenic activity under alkaline conditions
17	Kudriavtseva , Daria	Producing Mammalian mRNA in Bacteria using Self-Amplifying RNA Viral Machinery and CRISPR-Based Gene Expression Control
18	Magdaleno De la Fuente, Irene	Continuous Hydrothermal Liquefaction of Wood
19	Martín Gómez, Beatriz	Synergistic effect of water and supercritical CO2 on the foaming of HDPE to obtain ultra-low-density foams
20	Pinardo Barco, Silvia	Influencia del cambio climático en la acumulación y distribución de los contaminantes orgánicos persistentes (COPs) presentes en la Antártida.
21	Leroy Freitas, Déborah	Understanding and improving the water-energy-carbon nexus in the urban water cycle: A benchmarking approach

12:00 h - PAUSA-CAFÉ

12:30 h - SESIÓN DE PÓSTERES (AVANCES DE LAS TESIS DE LOS DOCTORANDOS DE TERCERA MATRÍCULA Y POSTERIORES)

22	Calvo Ruiz, Susana	Nitrate content in fertilized soils leachate: column experiment
23	Castro Bustamante, Juan	Processes for recovering critical materials from end of life lithium ion batteries
24	Chao Reyes, Claudia	“Optimization of anaerobic fermentation processes for selective volatile fatty acids production by manipulating operational conditions”
25	Díaz Moreno, Nicolás	Valorization of aromatic hydrocarbons into high-value products
26	Escudero Campos, Laura	Evaluation of the Performance of a Nitrogen Treatment Plant in a Continental Mediterranean Climate: A Spanish Pig Farm Case Study
27	García Cruz, Elisa Leonor	Inhibition by secondary metabolites in methanotrophs of type II
28	Martínez Fraile, Cristina	Long-term evaluation of hydrogen production by lactate-driven dark fermentation in a two-stage process
29	Muñoz Madariaga, Bárbara Josefa	Production of PHAs from hydrolysates of biomass grown in wastewater treatment plants
30	Rojas Romero, Leonel	Influence of piggery wastewater acidification and dilution on carbon and nutrient recovery by purple photosynthetic bacteria
31	Torrecilla Del Rey, Alberto	High-pressure in situ biomethanation as a strategy for biomethane production
32	Filipigh, Ángel Alejandro	A Biorefinery Approach Focusing on The Recovery Of Proteins And Carbohydrates Contained In Purple Phototrophic Bacteria Biomasses Generated In Urban Wastewater Treatment Plants
33	García Casado, Silvia María	Gas fermentation dynamics: Effect of operational variables on product yield and selectivity by mixed cultures
34	Herrero Lobo, Raquel	Influence of different sources of organic nitrogen on the bioconversion of methane into ectoines
35	Huang Lin, Elisa	Transforming Carbon Dioxide Emissions into High-Value Pharmaceuticals: A Further Step Towards Sustainable Biotechnology
36	Kurnikova, Nataliia	Mitigation strategies of to prevent the emissions of malodorous compounds from primary settlers in wastewater treatment plants
37	De Souza Ribeiro, Maurício Masaru	Cascade fractionation of crustacean shell residues preventing the degradation of chitin and its subsequent industrial applications
38	Marcos Montero, Enrique José	Eliminación de BTEX en gas de síntesis con un consorcio microbiano
39	Marcos Rodrigo, Eva	Innovative microbial platform for syngas valorization through joint production of high-value bioproducts
40	Montaluís Mantilla, María Sol	Elucidation of the mechanisms of VOC removal in botanical filters during indoor air treatment in a test chamber
41	Nuño Sánchez, Lidia	Recovery of ammonium crystals and water by condensation of the gases emitted during the solar drying of wastewater sludge
42	Redondo Hernangómez, Aránzazu	Exploring the effects of high-temperature conditions of PMMA foaming with scCO2 and water
43	De Santos Casado, Fabio	Gestión microbiológica de plumas
44	Martín González, Diego	Characterization of the ubiTUV operon involved in ubiquinone biosynthesis in Paracoccus denitrificans PD1222
45	Matute Fera, Kevin Ignacio	Comparative LCA of Sludge Treatment Configurations with Thermal Hydrolysis
46	Severi, Cristian Alfredo	Optimization of Photosynthetic Biogas Upgrading in a Demo-Scale Algal-Bacterial Photobioreactor
47	Gonzalo Ibrahim, Félix Gaspar	Removal of high pharmaceuticals concentrations in microalgae
48	Regueira Marcos, Lois	A comparative study of the treatment of dark fermentation effluent by purple-phototrophic bacteria and microalgae

13:30 h – VOTACIÓN DE LAS MEJORES PRESENTACIONES Y PÓSTERES

13:45 h - ENTREGA DE PREMIOS Y CLAUSURA DE LA JORNADA