



1a REUNIÓ DE QUÍMICA INORGÀNICA I ORGANOMETÀL·LICA de la SCQ



Scientific Program

Thursday, February 2		Friday, February 3	
9:00-9:30	Registrations		
9:30-9:45	Welcome. Prof. G. Aromí	SESSION V	Chair Laura Rodríguez Sponsored by Adv. Catal. Elsevier.
	Opening. Prof. G. Ujaque	9:20-10:00	Plenary 3. Corine Mathonière
SESSION I	Chair Miquel A. Pericàs Sponsored by AstraZeneca	10:00-10:20	Oral Communication 15. <i>J. Puigmartí-Luis</i>
9:50-10:30	Plenary 1. Ruben Martin	10:20-10:40	Oral Communication 16. <i>R. Núñez</i>
10:30-10:50	Oral Communication 1. <i>S. Rafael</i>	10:40-11:00	Oral Communication 17. <i>M. Martínez</i>
10:50-11:10	Oral Communication 2. <i>M. Biosca</i>	11:00-11:30	Coffee Break-Poster Session
11:10-11:40	Coffee Break-Poster Session	SESSION VI	Chair Daniel Maspoch
SESSION II	Chair E. Carolina Sañudo Sponsored by AstraZeneca	11:30-11:50	Oral Communication 18. <i>A. Figuerola</i>
11:40-12:00	Oral Communication 3. <i>X. Sala</i>	11:50-12:10	Oral Communication 19. <i>L. Capdevila</i>
12:00-12:20	Oral Communication 4. <i>L. Francàs</i>	12:10-12:30	Oral Communication 20. <i>E. C. Sañudo</i>
12:20-12:40	Oral Communication 5. <i>I. Fort-Grandas</i>	12:30-12:50	Oral Communication 21. <i>A. Carné-Sánchez</i>
12:40-13:00	Oral Communication 6. <i>A. de Aquino</i>	12:50-13:10	Oral Communication 22. <i>A. Cortés-Martínez</i>
13:00-13:20	Oral Communication 7. <i>R. Matheu</i>	13:10-13:15	Presentation of the Young Section of the SCQ
13:20-15:30	Lunch – Poster Session	13:15-13:20	Group Picture
		13:20-15:30	Lunch – Poster Session
SESSION III	Chair Arjan. W. Kleij Sponsored by Organometallics and Inorg. Chem.	SESSION VII	Chair Xavier Sala Sponsored by Adv. Catal. Elsevier.
15:30-16:10	Plenary 2. Eva Hevia	15:30-16:10	Plenary 4. Guillermo Minguez
16:10-16:30	Oral Communication 8. <i>M. Sethuraman</i>	16:10-16:30	Oral Communication 23. <i>R. Diego</i>
16:30-16:50	Oral Communication 9. <i>M. Galeotti</i>	16:30-16:50	Oral Communication 24. <i>S. Ruiz-Relaño</i>
16:50-17:20	Coffee Break-Poster Session	16:50-17:20	Coffee Break-Poster Session
SESSION IV	Chair Anna Company Sponsored by Organometallics and Inorg. Chem.	SESSION VIII	Chair Montserrat Ferrer
17:20-17:40	Oral Communication 10. <i>C. Casadevall</i>	17:20-17:40	Oral Communication 25. <i>E. Petrus</i>
17:40-18:00	Oral Communication 11. <i>J. Margalef</i>	17:40-18:00	Oral Communication 26. <i>N. Pagès-Vilà</i>
18:00-18:20	Oral Communication 12. <i>S. Barranco</i>	18:00-18:20	Oral Communication 27. <i>P. Font</i>
18:20-18:40	Oral Communication 13. <i>A. Garcia-Roca</i>	18:20-18:40	Closing Ceremony. Prof. M. Diéguez
18:40-19:00	Oral Communication 14. <i>J. Eusamio</i>		
20:30	Conference Dinner		



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Thursday, February 2

9:00-9:30	Registrations
9:30-9:45	Welcome. Prof. Guillem Aromí
	Opening. Prof. Gregori Ujaque
SESSION I	Chair Miquel A. Pericàs Sponsored by AstraZeneca
9:50-10:30	Plenary 1. Ruben Martin . <i>Taming multifaceted nickel catalysts: an academic fascination</i>
10:30-10:50	Oral Communication 1. Sergi Rafael . <i>Synthesis and application of internal ynamides in the Pauson-Khand reaction</i>
10:50-11:10	Oral Communication 2. Maria Biosca . <i>Readily available tailor-made Ir-catalysts for the enantioselective reduction of challenging substrates</i>
11:10-11:40	Coffee Break-Poster Session
SESSION II	Chair E. Carolina Sañudo Sponsored by AstraZeneca
11:40-12:00	Oral Communication 3. Xavier Sala . <i>Surface-functionalized nanomaterials for the production of solar fuels</i>
12:00-12:20	Oral Communication 4. Laia Francàs . <i>Deciphering the key factors for the good performance of different Ni/NiOOH electrocatalysts</i>
12:20-12:40	Oral Communication 5. Ignasi Fort-Grandas . <i>Study of conductive MOFs based on triphenylene derivatives for chemiresistive greenhouse gas sensors</i>
12:40-13:00	Oral Communication 6. Araceli de Aquino . <i>Compostos supramoleculares d'or(I) amb propietats fosforescents</i>
13:00-13:20	Oral Communication 7. Roc Matheu . <i>Charge reservoirs in an expanded halide perovskite analog: enhancing high-pressure conductivity through redox-active molecules</i>
13:20-15:30	Lunch – Poster Session



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SESSION III	Chair Arjan. W. Kleij Sponsored by Organometallics and Inorg. Chem.
15:30-16:10	Plenary 2. Eva Hevia . <i>Tailoring organosodium reagents for new synthetic and catalytic applications</i>
16:10-16:30	Oral Communication 8. Muthuramalingam Sethuraman . <i>Oxidative desymmetrization of cyclic amides via enantioselective C-H bond oxidation using bioinspired manganese catalysts</i>
16:30-16:50	Oral Communication 9. Marco Galeotti . <i>Manganese-catalyzed C-H bond oxidation of cyclopropane containing hydrocarbons</i>
16:50-17:20	Coffee Break-Poster Session
SESSION IV	Chair Anna Company Sponsored by Organometallics and Inorg. Chem.
17:20-17:40	Oral Communication 10. Carla Casadevall . <i>Carbon-based materials for solar-driven catalysis</i>
17:40-18:00	Oral Communication 11. Jèssica Margalef . <i>Reversed regioselectivity in the Rh-hydroformylation of styrene</i>
18:00-18:20	Oral Communication 12. Sergio Barranco . <i>Merging Cp*Co catalysis and statistical analysis for interrogating deuterium source selection in directed hydrogen isotope exchange</i>
18:20-18:40	Oral Communication 13. Alèria Garcia-Roca . <i>A comprehensive mechanistic scenario for the Cu-mediated asymmetric propargylic sulfonylation forging tertiary carbon stereocenters</i>
18:40-19:00	Oral Communication 14. Javier Eusamio . <i>P-Stereogenic non-symmetric diphosphanes with a methylene bridge: coordination chemistry to late transition metals</i>
20:30	Conference Dinner



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Friday, February 3

SESSION V	Chair Laura Rodríguez Sponsored by Adv. Catal. Elsevier.
9:20-10:00	Plenary 3. Corine Mathonière. <i>Switchable cyanometallate compounds : Metal-to-metal charge transfer or spin crossover?</i>
10:00-10:20	Oral Communication 15. Josep Puigmartí-Luis. <i>Microfluidic technologies as an advanced tool for chemistry and materials synthesis</i>
10:20-10:40	Oral Communication 16. Rosario Núñez. <i>Inorganic boron clusters as unique entities to trigger and modulate molecule and material properties</i>
10:40-11:00	Oral Communication 17. Manuel Martínez. <i>Building molecular mixed-valence cyanido-bridged Coll/Fell redox active complexes: from dinuclear to cubic species</i>
11:00-11:30	Coffee Break-Poster Session
SESSION VI	Chair Daniel Maspoch
11:30-11:50	Oral Communication 18. Albert Figuerola. <i>Synthesis and applications of group 11-based ternary Semiconductor nanocrystals with tunable morphology and composition</i>
11:50-12:10	Oral Communication 19. Lorena Capdevila. <i>Synthesis of curved perylene-based nanographenes</i>
12:10-12:30	Oral Communication 20. E. Carolina Sañudo. <i>Devices for quantum computing: towards a measurement of on-surface qubit phase memory time</i>
12:30-12:50	Oral Communication 21. Arnau Carné-Sánchez. <i>Reactivitat i assemblatge de poliedres metal-orgànics</i>
12:50-13:10	Oral Communication 22. Alba Cortés-Martínez. <i>Síntesi de materials oligomèrics porosos</i>
13:10-13:15	Presentation of the Young Section of the SCQ
13:15-13:20	Group Picture
13:20-15:30	Lunch – Poster Session



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SESSION VII	Chair Xavier Sala Sponsored by Adv. Catal. Elsevier.
15:30-16:10	Plenary 4. Guillermo Mínguez . <i>Porous materials with electroactive building blocks</i>
16:10-16:30	Oral Communication 23. Rosa Diego . <i>Quantum fluctuations in single molecule magnets on magnetic substrates</i>
16:30-16:50	Oral Communication 24. Sara Ruiz-Relaño . <i>Síntesi de noves estructures metal·loorgàniques mitjançant la química de "Clip-Off"</i>
16:50-17:20	Coffee Break-Poster Session
SESSION VIII	Chair Montserrat Ferrer
17:20-17:40	Oral Communication 25. Enric Petrus . <i>Predint l'especiació en dissolució aquosa i els mecanismes d'auto-assemblatge dels òxids metàl·lics moleculars de Mo, W, V, Nb i Ta</i>
17:40-18:00	Oral Communication 26. Neus Pagès-Vilà . <i>Proton triggered chemoselective halogenation of aliphatic C-H bonds with nonheme Fe(IV)-oxo complexes. An alternative model for nonheme halogenases</i>
18:00-18:20	Oral Communication 27. Pau Font . <i>Hemilabile MIC^N ligands allow oxidant-free Au(I)/Au(III) arylation-lactonization of γ-alkenoic acids</i>
18:20-18:40	Closing Ceremony. Prof. Montserrat Diéguez

Posters

Poster 1	Ànnia Tubau. $[Dy_2(\mu-2,6-2FBz)_4(NO_3)_4]^{2-}$ and $[Dy_2(\mu-2,6-2FBz)_4(2,6-2FBz)_4]^{2-}$: Two anhydrous different structural motifs depending on the solvent
Poster 2	Yuzelfy Mendoza-Gamero. Triphenylene derivative MOFs for greenhouse gas sensing and green catalysis
Poster 3	Pol de la Cruz-Sánchez. Enhancing Pd-catalyzed asymmetric allylic substitution reactions with improved catalysts for the construction of chiral C-C and C-X bonds
Poster 4	Jorge Faiges. DFT guided ligand design for iridium catalyzed asymmetric hydrogenation. Filling the gap by in silico optimization
Poster 5	María Dolores Fernández-Martínez. New supported phosphine-stabilized palladium nanocatalysts for the hydrogenation of CO ₂ into formate
Poster 6	Jie Pan. Propane dehydrogenation over small platinum clusters supported on g-C ₃ N ₄
Poster 7	Álvaro Lozano-Roche. Is size all that matters? A discussion on the fine-tuning of metallic nanoparticles
Poster 8	Daniel Tarr. A new Ir-P,N catalyst design to solve the asymmetric hydrogenation of challenging alkenes
Poster 9	Qian Zeng. Stereoselective multi-component allylic alkylation enabled by dual photoredox/Ni catalysis
Poster 10	Khalid Azmani. Understanding polyoxometalates as water oxidation catalysts through iron vs. cobalt reactivity
Poster 11	Montserrat Ferrer. Cianuro complexos de Fe(II) amb grups azo solubles en aigua: estudi mecanístic de la seva isomerització tèrmica cis-trans
Poster 12	Manuel Martínez. Kinetic-mechanistic studies on the lability of Cu(II)-carbon bonds: homo- or heterolysis?
Poster 13	Yisong Wen. Cyclometallated iridium catalysts for the asymmetric hydrogenation of imines
Poster 14	Marina Bellido. Three-component Suzuki-Miyaura/allylic substitution: a regioselective approach to 2-aryl allyl sulfones
Poster 15	Sara López-Resano. Mechanistic insights into the oxidation of Cp*Co(III) species with F ⁺ oxidants
Poster 16	Aureliano Macili. Tuning nanoparticles for artificial photosynthesis applications
Poster 17	Laura Hernández-López. Switchable MOP solubility through surface chemistry: engineering molecular self-sorting systems
Poster 18	Akim Khabotov-Bakishev. Polimerització covalent de caixes moleculars poroses: síntesi, funcionalització i aplicacions

Poster 19	Leoni Alejandra Barrios. <i>L'efecte plantilla de l'anió SiF_6^{2-} i els ponts d'hidrogen: L'aliança perfecta per aconseguir la formació exclusiva de nous sistemes de coordinació heterolèptics</i>
Poster 20	Manuel Imperato. <i>Synthesis of Ni(II) helicates for the chemical tuning of spin clock transitions</i>
Poster 21	Jose Muñoz. <i>Design of functional inorganic 2D materials via molecular engineering</i>
Poster 22	David Aguilà. <i>Disseny de compostos dinuclears de lantànid per portes lògiques quàntiques</i>
Poster 23	Diamantoula Maniaki. <i>Highly selective heterometallic $[\text{LnLn}'\text{Ln}]$ molecules as 3-qubit quantum gates</i>
Poster 24	Heting Hou. <i>Light-driven hydrogen evolution using Ni, Cu and Pt nanoparticles supported on carbon nitride and covalent triazine-frameworks</i>
Poster 25	Adriana Silvestre-Llora. <i>Millora dels temps de relaxació de imants unimoleculars</i>
Poster 26	Najoua Choukairi Afailal. <i>Dearomatizative syn-dihydroxylation of arenes</i>
Poster 27	Andrea Palone. <i>C-H Bonds as functional groups. simultaneous generation of multiple stereocenters by enantioselective hydroxylation at unactivated tertiary C-H bonds</i>
Poster 28	Adrià Juvanteny. <i>Synthesis and reactivity of organometallic nickel complexes relevant in carbon-carbon and carbon-heteroatom bond formation reactions</i>
Poster 29	Andrea Álvarez-Núñez. <i>Exploring the intramolecular chemistry of iron(V)-oxo-carboxylato species</i>
Poster 30	David Capellán. <i>Carbene transfer reactions catalyzed by an iron/lithium dual system</i>
Poster 31	Judith Sala. <i>Development of a new protocol towards the synthesis of nanographene-like compounds via aromatic homologation catalysis</i>
Poster 32	Tània Pèlachs. <i>Orthogonal regioselective bis-functionalization of C_{60} by Diels-Alder reaction via avant-garde supramolecular mask strategy</i>
Poster 33	Siu-Chung Chan. <i>Biologically inspired C-H hydroxylation catalysis with metallocavitand</i>
Poster 34	Valentina Iannace. <i>Regioselective bis-functionalization of fullerene C_{70} via supramolecular masks</i>
Poster 35	Syrine Affes. <i>Molecular and hybrid materials based on metallocarboranes</i>
Poster 36	Angie Carlyne Rueda. <i>Preparation of carbons with different morphologies from xylose obtained from almond shells: carbon microspheres and ordered mesoporous carbons</i>
Poster 37	Anna Casadó. <i>Catalitzadors de Ni suportats en carbons mesoporosos ordenats, obtinguts a partir de lignina procedent de biomassa, per a la hidrodesoxigenació de guaiacol</i>