

## WEDNESDAY MAY 29<sup>th</sup>

11:30-15:30 h	Registration
15:30-15:45 h	Opening Ceremony
15:45-16:35 h	<b>PL-1. J. Goicoechea:</b> <i>"The Cyaphide Ion: A New Building Block for Chemical Synthesis"</i> <b>Rafael Usón-ORFEO CINQA Lecture.</b> Chair: Prof. J. A. Cabeza
16:35-17:50 h	Session 1. Chair: Prof. J. M. Lassaletta
OC1	<u>C. C. Rodríguez:</u> <i>"Ticket to ride a "merry-go-round": Snapshots of the stopped polymerization of a hindered isocyanide within the coordination sphere of Ni(II)"</i>
FP1	<u>A. Suárez Lustres:</u> <i>"Palladium-Catalyzed [5 + 2] Rollover Annulation of 1-Benzylpyrazoles with Alkynes: A Direct Entry to Tricyclic 2-Benzazepines"</i>
FP2	<u>C. J. Laglera-Gándara:</u> <i>"Synthesis and Reactivity of Nickel(I) Complexes bearing a PBP-Ligand"</i>
FP3	<u>O. García Pedrero:</u> <i>"Investigating the Bredt's Rule in an Acid Catalyzed Reaction of Aryl-Substituted Alkynol Derivatives"</i>
OC2	<u>P. Sarró:</u> <i>"Sustainable Synthesis of Benzyl Oxindoles via Electron Donor-Acceptor Complex Photoactivation of Sulfonium Salts"</i>
FP4	<u>D. Cubero Pascual:</u> <i>"Control of porphyrin supramolecular capsules: effects of introducing heavier-pnictogen pyridyl ligands"</i>
FP5	<u>J. Naranjo:</u> <i>"Efficient formation of <math>\alpha</math>-alkylidene cyclic carbonates catalyzed by zinc complexes: facile access to valuable chemical intermediates"</i>
FP6	<u>H. Stachowiak-Dłużyńska:</u> <i>"Efficient and Selective Hydroelementation of Terminal Alkenes Using Novel Pt(II) Complexes with Bidentate P,N-Donor Ligands"</i>
OC3	<u>M. M. de Sarasa Buchaca:</u> <i>"Zinc-Catalyzed Cyclization of Alkynyl Derivatives: Substrate Scope and Mechanistic Insights"</i>
17:50-18:40 h	<b>PL-2. D. Powers:</b> <i>"In Crystallo Organometallic Synthesis and Catalysis"</i> Chair: Prof. S. Conejero
18:40-19:25 h	Session 2. Chair: Dr. C. Gimbert
OC4	<u>Miquel Navarro:</u> <i>"A Gold(I)-Acetylene Complex Synthesised using Single-Crystal Reactivity"</i>
FP7	<u>G. Sanz Liarte:</u> <i>"Propenolysis and enyne metathesis: Enabling access to new BN-polyarenes"</i>
FP8	<u>M. Gil-Ordóñez:</u> <i>"Light-induced synthesis of fluorinated <math>\beta</math>-amino ketones"</i>
FP9	<u>J. Martín Bernardos:</u> <i>"The near, remote and ultra-remote C-H coupling via iodine(III) trampoline"</i>
FP10	<u>C. Santiago Álvarez:</u> <i>"Cobalt(III)-catalyzed C-H Aminocarbonylation of Heteroarenes"</i>
FP11	<u>J. Malga Díaz:</u> <i>"Diastereoselective Synthesis of Highly-Substituted Methylene Cyclobutanes via Pd-catalysis"</i>
FP12	<u>I. V. Alli:</u> <i>"Preparation and reactivity of polyhydride-silyl-osmium derivatives"</i>
19:40 h	SCHOOL PHOTO AND WELCOME COCKTAIL

## THURSDAY MAY 30<sup>th</sup>

8:30-9:20 h	<b>PL-3. D. Fogg:</b> <i>"Beyond the Cycle: New Paradigms for Design in Molecular Catalysis"</i> Chair: Prof. R. Fernández
9:20-10:10 h	Session 3 Chair: Prof. M. Fañanás
OC5	<u>A. Sirvent:</u> <i>"Diastereoselective hydroxyallylation of N-tert-butanefulfinyl imines with enolized zinc homoenolates generated from cyclopropanols"</i>
FP13	<u>I. del Barrio:</u> <i>"Cyclic iodonium salts as self-activated tags for primary aliphatic amines"</i>
FP14	<u>L. Rodríguez Flórez:</u> <i>"Preparation of metal complexes covalently bonded to carbon materials and their evaluation as supported catalysts"</i>

OC6	<u>E. Soto</u> : "Unique Reactivity and Catalytic Application of Transition Metal/Germylene Heterobimetallic Systems"
FP15	<u>B. Lozano Fabuel</u> : "Cyclopropylmethyl boronates in strain-release driven homoallylation reactions"
FP16	<u>C. Martínez Ceberio</u> : "NapyNapytBu: A Naphthyridine-Based Macrocyclic Scaffold to Form Bimetallic Complexes."
10:10-11:00 h	<b>PL-4. P. L. Holland</b> : "Mechanistic Investigations into Iron and Cobalt Catalyzed Radical Alkene Functionalizations" Chair: Prof. A. Lara
11:00-11:35 h	COFFEE BREAK AND POSTER SESSION (1/4) (FP1-16 + P55-63)
11:35-12:25 h	<b>PL-5. M. Oestreich</b> : "The Cation Shuffle" Chair: Prof. M. Oliván
12:25-13:30 h	<b>Session 4.</b> Chair: Prof. C. Alonso-Moreno
OC7	<u>J. Cayuela-Castillo</u> : "Au(I) acetylide complexes: reactivity studies and influence of the nuclearity"
FP17	<u>J. A. García-López</u> : "Application of Pd-catalyzed Csp <sup>3</sup> -Csp <sup>3</sup> bond cleavage to ring-opening-polymerization (ROP). Synthesis of polyketones"
FP18	<u>J. Martínez Sal</u> : "In-depth mechanistic studies on the acceptorless dehydrogenation of primary alcohols with Ir catalysts bearing pyridil-substituted NHC ligands"
FP19	<u>M. González-Marcos</u> : "Diastereoselective Synthesis of Spirooxindolo Pyrrolizidines via 1,3-Dipolar Cycloaddition using Chiral Acrylates derived from (S)-Methyl Lactate"
OC8	<u>A. Carral-Menoyo</u> : "Synthesis of Dihydrobenzofurans and Allylated Benzamides through Cp*Co(III)-Catalyzed C-H Activation Reactions onto Alkenes"
FP20	<u>C. Cristóbal</u> : "δ-C-H Amination of Alkyl Alcohols via Energy Transfer Photocatalysis"
FP21	<u>H. Corona García de Leaniz</u> : "Modulating Heterocumulene activation through Cooperative Iron-Lewis Acid Systems"
FP22	<u>D. Reyes-Mesa</u> : "A covalent organic framework family for light-induced hydrogen production"

LUNCH 13:30-15:30 H

15:30-16:45	<b>Session 5.</b> Chair: Dr. A. Granados
OC9	<u>A. Rey López</u> : "Regio- and Site-Selective Intermolecular Hydrocarbonation of Allenes Enabled by Ligand Choice: Straightforward Access to Scaffolds Bearing Quaternary Carbon Centers"
FP23	<u>M. Estruch-Blasco</u> : "New pyridine-based nami-a analogues with enhanced anticancer activity and selectivity"
FP24	<u>L. Garriel-Muñoz</u> : "Supramolecular capsules and macrocycles based on tris(3-pyridyl) ligands: Exploration of their size modulation and reactivity"
OC10	<u>F. Juliá-Hernández</u> : "Illuminating Earth-abundant metals in decarboxylation reactions"
FP25	<u>A. Gallego-Gamo</u> : "Difunctionalization of styrenes via hydroxytrifluoroethyl radical and DMSO"
FP26	<u>S. Portela</u> : "η <sup>6</sup> -Metalated Aryl Iodides in Diels-Alder Cycloaddition Reactions: Mode of Activation and Catalysis"
OC11	<u>A. Mateos Calbet</u> : "Synthesis and Characterization of Catalytically Relevant Ni(I)-alkyl: Deciphering the O-insertion Step with N <sub>2</sub> O"
FP27	<u>S. Díaz Alonso</u> : "Reactions of alkylidenecyclopropanes with gold(III): new zwitterionic auracycles and their catalytic applications"
FP28	<u>C. Ginés</u> : "Magnesium and Calcium Guanidates: Catalytic Activity in the Hydroboration of Unsaturated Molecules"
16:45-17:35h	<b>PL-6. M. H. Pérez-Temprano</b> : "Deciphering Mechanisms to Design Better Organic Reactions" Chair: Dr. M. Poyatos
17:35-18:05 h	COFFEE BREAK AND POSTER SESSION (2/4) (FP17-28 + P64-70)

<b>18:05-19:20</b>	<b>Session 6.</b> Chair: Prof. P. Barrio
<b>OC12</b>	<u>J. Fernández Reynes</u> : “ <i>Mechanochemistry: Empowering New Synthetic and Sustainable Practices in Chemistry</i> ”
<b>FP29</b>	<u>J. Trujillo Sierra</u> : “ <i>Synthesis of a Novel Chiral Phosphine-Amine Catalysts</i> ”
<b>FP30</b>	<u>P. Molinillo</u> : “ <i>Carbene stabilised 1st Row Nanoparticles as catalysts for Ammonia-Borane methanolysis</i> ”
<b>OC13</b>	<u>D. A. Fenoll Silvestre</u> : “ <i>Two-fold effect of ring strain for favoring the synthesis of highly substituted 1,3-dienes through atom economy cross enyne metathesis</i> ”
<b>FP31</b>	<u>M. Ramos Martín</u> : “ <i>Bronsted-Acidic Deep Eutectic Solvents (BADESs) as efficient promoters of organic transformations. Cascade-type synthesis of <math>\gamma</math>-keto sulfones</i> ”
<b>FP32</b>	<u>M. Arenas-Moreira</u> : “ <i>Carvone-based polyesters: catalytic synthesis and application as nanocarrier for drug delivery</i> ”
<b>OC14</b>	<u>P. Losada</u> : “ <i>Axially Chiral 2-Hydroxybiaryls by Palladium-Catalyzed Enantioselective C-H Activation</i> ”
<b>FP33</b>	<u>F. León</u> : “ <i>Au(III) complexes featuring SET mediated ligand exchange</i> ”
<b>FP34</b>	<u>A. Guinart-Guillem</u> : “ <i>Cu-complex for hybrid SiO<sub>2</sub> materials active towards water oxidation</i> ”
<b>19:20-20:00 h</b>	Meeting ORFEO-CINQA Committee

## FRIDAY MAY 31<sup>st</sup>

<b>8:30-9:20 h</b>	<b>PL-7. D. Maiti</b> : “ <i>Unlocking new chemical space via selective catalysis</i> ” Chair: Prof. Miguel Ángel Sierra
<b>9:20-10:40 h</b>	<b>Session 7.</b> Chair: Prof. J. Varela
<b>OC15</b>	<u>C. Martín-Escura</u> : “ <i>A pentahydride iridium complex as precursor of phosphorescent hydride-Ir(III)-phosphine emitters with application in photocatalysis</i> ”
<b>FP35</b>	<u>L. Laze</u> : “ <i>Alkanes in Minisci-Type Reaction under Photocatalytic Conditions without sacrificial oxidants</i> ”
<b>FP36</b>	<u>J. Bermejo</u> : “ <i>Activation of N<sub>2</sub>O by Nickel(II) Hydride Complexes</i> ”
<b>FP37</b>	<u>D. González Lizana</u> : “ <i>The search of outperformed multinuclear cooperative Al/Mg/Al catalysts for the rapid Ring Opening Polymerization of Lactides</i> ”
<b>FP38</b>	<u>A. del Campo-Balguerías</u> : “ <i>Synthesis of RAPTA derivatives from Guanidines for the design of therapeutic agents</i> ”
<b>FP39</b>	<u>M. Linus Richter</u> : “ <i>Primary coordination sphere effects on Mn bis carbene electrocatalysts for CO<sub>2</sub> reduction</i> ”
<b>OC16</b>	<u>D. González-Pinardo</u> : “ <i>Metal Influence on Cyaphide-Azide 1,3-Dipolar Cycloaddition Reactions: Aromaticity and Activation Strain</i> ”
<b>FP40</b>	<u>I. Huertas-Morales</u> : “ <i>Synthesis of azaheterocycles by C(sp<sup>3</sup>)-H bond activation</i> ”
<b>FP41</b>	<u>M. López Aguilar</u> : “ <i>Chloride-catalysed insertion of carbon disulphide into epoxides for the synthesis of cyclic di- and tri-thiocarbonates</i> ”
<b>FP42</b>	<u>M. A. Martín Neri</u> : “ <i>Facile access to heterobimetallic MII/CuI complexes with the multichelate bis-terpyridyl trans-1,2-cyclohexdiamine platform</i> ”
<b>FP43</b>	<u>A. M. Nair</u> : “ <i>Dual Nickel/Photocatalysed Cross-coupling of Gaseous Alkanes</i> ”
<b>FP44</b>	<u>Y. Pérez-Almarcha</u> : “ <i>Improving the catalytic activity of copper-based metal-organic framework by halide modification</i> ”
<b>10:40-11:20 h</b>	COFFEE BREAK AND POSTER SESSION (3/4) (FP29-44 + P71-75)
<b>11:20-12:10 h</b>	<b>PL-8. M. Tobisu</b> : “ <i>Catalytic Addition of Acylsilanes and Acyl Fluorides</i> ” Chair: Prof. M. Gómez-Gallego
<b>12:10-13:15h</b>	<b>Session 8.</b> Chair: Prof. M. L. Buil
<b>OC17</b>	<u>L. Riemann</u> : “ <i>Pentafluorocyclopropanation of (Hetero)arenes Using Sulfonium Salts: Applications in Late-Stage Functionalization</i> ”

FP45	<u>C. L. Ruiz Zambrana</u> : "Gold (I) Complex with a Photoactive Ligand Behaves as a Two-in-One Dual Metallaphotoredox Cross-Coupling Catalyst"
FP46	<u>E. Francés-Poveda</u> : "Half-Sandwich Heteroscorpionate Calcium Complexes: Synthesis, Reactivity, and Catalytic Activity"
OC18	<u>S. G. Curto</u> : "The role of ferrocene platform ligands in hydroaminoalkylation: understanding stoichiometric behavior to evaluate catalytic activity"
FP47	<u>P. Romero Navarro</u> : "Selective Oxidative Dehydrogenation of Tetrahydroisoquinoline to Dihydroisoquinoline by Titania-Based Photocatalysts"
FP48	<u>L. Ibáñez-Ibáñez</u> : "Visible light harvesting alkyne hydrosilylation mediated by pincer platinum complexes"
OC19	<u>J. Molina-Canteras</u> : "Fluorescent Bicolor Indicators for barium tagging"

LUNCH 13:25-15:30 H

15:30-16:25h	Session 9. Chair: Prof. A. Shafir
OC20	<u>P. Barrio</u> : "Conformational effects in the gold(I)-catalyzed cycloisomerization of 1-bromoalkynes"
FP49	<u>A. Forte-Castro</u> : "Water-soluble lithium tris(pyrazolyl)methanesulfonates: Other nuclei investigations including molecular diffusion"
OC21	<u>O. Rodríguez</u> : "Computational design of Second-Generation Huisguenases based on CTPR protein"
FP50	<u>A. Marauri</u> : "Characterization of a fluorescent bicolour indicator in solid state combining AFM and confocal fluorescence microscopy"
OC22	<u>M. Benítez</u> : "Activation of Gold(I) Chlorides through H-Bonding: Enantioselective Synthesis of 3(2H)-Furanones by Cycloisomerization-Addition Cascade"
CEC	<u>Pilar Calleja</u> : Deputy of Chemistry Europe
16:40-17:15 h	COFFEE BREAK AND POSTER SESSION (4/4) (FP45-54 + P76-92)
17:15-18:05 h	Session 10. Chair: Prof. F. Carrillo
OC23	<u>S. Aguado</u> : "Metallo-Salen-Based [FeFe]-Hydrogenase Mimics: Synthesis and Study of Electrocatalytic Behavior"
FP51	<u>C. Rodríguez-Arias Santiago</u> : "Synthesis of 2,5-disubstituted pyridines using the gold(I)-catalyzed cycloisomerization of 1-bromoalkynes as the key step"
FP52	<u>R. Bonetto</u> : "Sol-gel approach towards oxide thin film to enhance the performance of water oxidation photoanodes"
FP53	<u>M. Fernández-Buenestado</u> : "Iridium-Germylene Compounds: Exploring their Potential as Cooperative Catalysts"
FP54	<u>C. Sánchez-González</u> : "Co(III)-catalyzed C(sp <sup>3</sup> )-H bond functionalization of amides with maleimides"
OC24	<u>C. Romero-Nieto</u> : "Phosphaphenylene Gold(I) complexes: Enabling Rational Anti-Brain Cancer Drug Design"
18:05-18:30 h	CLOSING REMARKS

21:30 H. SCHOOL DINNER (HOTEL MELIÁ-ALICANTE)