

# Scientific Programme

Sunday, July 16th, 2017

13.00-16.00 Registration

Session 1 | Chairman: Artur Silva, Carlos Afonso, Pedro Gois | Auditorium

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| 16.00 | Opening Ceremony & Future of Chemistry Session  |
| 16.20 | FCT representative  |
| 16.40 | Guy Villax (Hovione, Portugal)  |
| 17.00 | Stephen Caddick (Wellcome Trust)  |
| 17.20 | Kate Lawrence (ChemPubSoc)  |
| 17.40 | SPQ& Ferreira da Silva Award Session  |
| 18.10 | Lecture Ferreira da Silva Award   João Rocha (CICECO – UA, Portugal)<br><i>The Joy of Science: Personal Account</i> |

19.10-21.00 Reception

Monday, July 17th, 2017

Session 2 | Chairman: Gonçalo Bernardes (IMM-UL) | Auditorium - Health Challenges - *Sponsored by BIAL*

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| 9.00 | PL1   Ben Davis (Oxford University, UK)<br><i>Sugars &amp; proteins: towards a synthetic biology</i>             |
| 9.50 | PL2   Stephen Caddick (University College London, UK)<br><i>Chemical modification of proteins and antibodies</i> |

10.40-11.40 Coffee break and poster session 1

Session 3 | Chairman: Matilde Marques (IST-UL) | Auditorium - Health Challenges - *Sponsored by BIAL*

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| 11.40 | PL3   Antonello Mai (SAPIENZA – University of Roma, Italy)<br><i>Sirtuins: To Activate or Not To Activate, That is the Question</i>            |
| 12.30 | PL4   Rui Moreira (FF-UL, Portugal)<br><i>Lead discovery for infectious diseases of the developing world: chemistry to unravel a black box</i> |

13.20-15.00 Lunch

Session 4 | Chairman: Victor Freitas (FC-UP), Fernanda Proença (UM) (Auditorium) | Marcela Segundo (FF-UP), Paula Branco (FCT-UNL) (Amphitheatre A) Maria da Conceição Rangel (ICBAS-UP), Gaspar Martinho (IST-UL) (Amphitheatre F) – *Sponsored by TermoUnicam*

	Auditorium OrganicTools	Amphitheatre A AnalyticalTools	Amphitheatre F FluorescentTools
15.00	<p><b>KN1   Emilia Sousa (FF-UP, Portugal)</b> <i>Old Sources for New Drugs: Challenges and Opportunities</i></p>	<p><b>KN3   Eurico Cabrita (FCT-UNL, Portugal)</b> <i>NMR and intermolecular interactions: solving health, materials and environmental challenges</i></p>	<p><b>KN5   Jorge Parola (FCT-UNL, Portugal)</b> <i>Supramolecular multistate multiresponsive systems based on trans-2-hydroxychalcones</i></p>
15.30	<p><b>KN2   Teresa Melo (FCT-UC, Portugal)</b> <i>Novel Ring-Fused Chlorins for Cancer Theranostics</i></p>	<p><b>KN4   Paulo Costa (FC-UL, Portugal)</b> <i>Modeling Halogen Bonds: Relevance in (Bio)Chemical Systems</i></p>	<p><b>KN6   Sérgio Seixas (FCT-UC, Portugal)</b> <i>Molecules of Colour: Reds, Purples and Blues. From Ancient to Modern Applications</i></p>
16.00	<p><b>IOC1   Alexandra Antunes (IST-UL, Portugal)</b> <i>Adductomics: a challenge towards the minimization of chemically-induced toxic events and the development of diagnosis/prognosis tools</i></p>	<p><b>IOC2   Liana Silva (FF-UL, Portugal)</b> <i>Ceramide domains in living cell membranes: from biophysical characterization to biological significance</i></p>	<p><b>IOC3   Ermelinda Maçôas (IST-UL, Portugal)</b> <i>Carbon Dots in Bioimaging: Myths and Facts</i></p>
16.20	<p><b>OC1   Maria M. Marques (FCT-UNL, Portugal)</b> <i>Advancing the chemical synthesis of azaindoles: a medicinal relevant scaffold</i></p>	<p><b>OC3   Leandro Lourenço (UA, Portugal)</b> <i>Combined ammonium and pyridinium zinc(II)phthalocyanines and their photodynamic effect on cell suspensions and biofilms of Escherichia coli</i></p>	<p><b>OC5   Elisabete Oliveira (FCT-UNL, Portugal)</b> <i>Synthesis of Luminescent Nanoparticles for Drug Delivery and Imaging in Cancer Cells</i></p>
16.40	<p><b>OC2   Paula Gomes (FC-UP, Portugal)</b> <i>Novel triple-stage antimalarial ionic liquids and their effects on lipid membrane models</i></p>	<p><b>OC4   Rudi Oliveira (Hovione, Portugal)</b> <i>Process Development in Flow Chemistry using Kinetic Modeling</i></p>	<p><b>OC6   Ana Lobo (FCT-UC, Portugal)</b> <i>Phthalocyanine Labels for Near-Infrared Fluorescence Imaging of Solid Tumors</i></p>

17.00-17.40 Coffee break and poster session 2

Session 5 | Chairman: Pedro Gois (FF-UL) | Auditorium – Health Challenges – *Sponsored by IZASA*

17.40	<p><b>PL5   Herbert Waldmann (Max-Planck-Gesellschaft, Germany)</b> <i>Biologically Relevant Small Molecules for Perturbation of Protein Function: Chemotype – Phenotype - Target</i></p>
18.30	<p><b>Lecture Medalha Vicente de Seabra 2016   Adrián Silva (FE-UP, Portugal)</b> <i>A catalysis journey: breaking bonds for clean water</i></p>
19.10	<p><b>SPQ-Meeting</b></p>

20.00- Street FoodFest

## Tuesday, July 18th, 2017

Session 6 | Chairman: Maria João Romão (FCT-UNL) | Auditorium – Material Challenges – *Sponsored by Hovione*

- 09.00 | **PL6 | Stefan Matile (University of Genève, Switzerland)**  
*Functional Supramolecular Chemistry*
- 09.50 | **PL7 | João Mano (CICECO-UA, Portugal)**  
*Nano-multilayered polymeric systems in the development of new biomedical devices*

10.40-11.40 Coffee break and poster session 3

Session 7 | Chairman: Mario Nuno Berberan-Santos (IST-UL) | Auditorium - Material Challenges – *Sponsored by Hovione*

- 11.40 | **PL8 | Erwin Reisner (University Cambridge, UK)**  
*Semi-artificial Photosynthesis*
- 12.30 | **PL9 | João Rocha (CICECO-UA, Portugal) –Ferreira da Silva Award2016**  
*'On the Road again, Goin' places that I've never been': a personal account of a journey in Materials Chemistry*

13.20-15.00 Lunch

Session 8 | Chairman: João Brandão (UAlg), Verónica Bermudez (UTAD) (Auditorium) | Costa Lima (FF-UP), Teresa Duarte (IST-UL) (AmphitheatreA) Manuela Carrott (UE), Eduardo Jorge Figueira Marques (UA) (Amphitheatre F) – *Sponsored by Gravimeta*

	Auditorium OrganicMaterials	Amphitheatre A HeterogeneousMaterials	Amphitheatre F FunctionalMaterials
15.00	<b>KN7   Augusto Tomé (UA, Portugal)</b> <i>Porphyrins and porphyrinoids: functionalization and applications</i>	<b>KN10   Cristina Freire (FCT-UP, Portugal)</b> <i>Functional nanomaterials for sustainability</i>	<b>KN13   Justin Chalker (Flinders University, Australia)</b> <i>Sulfur polymers for the environment, agriculture and human health</i>
15.30	<b>KN8   Jorge Morgado (IST-UL, Portugal)</b> <i>Materials chemistry: from benzene to sustainable energy solutions</i>	<b>KN11   Peter Carrott (UE, Portugal)</b> <i>Preparation and Gas-Solid Applications of Activated Carbon Fibres and Cloths</i>	<b>KN14   Mara Freire (UA, Portugal)</b> <i>Ionic-Liquid-Based Separation Processes for Bioactive and Value-Added Compounds</i>
16.00	<b>IOC4   Susana Costa (UM, Portugal)</b> <i>Phototriggers for light-controlled activation and release applications</i>	<b>IOC6   Mário Calvete (FCT-UC, Portugal)</b> <i>Inorganic helping Organic: Tetrapyrrolic Macrocycles Immobilized onto Inorganic Supports and their Applications</i>	<b>IOC8   Luísa Neves (FCT-UNL, Portugal)</b> <i>Carbon Dioxide Removal using Mixed Matrix Membranes with Metal-Organic Frameworks Supporting Ionic Liquids</i>
16.20	<b>OC7   João Sotomayor (FCT-UNL, Portugal)</b> <i>Eutectic Solvents: Expanding Chemical Profiles</i>	<b>OC9   Vânia André (IST-UL, Portugal)</b> <i>BioMOFs targeting antibiotics solubility</i>	<b>OC11   Ana Aguiar-Ricardo (FCT-UNL, Portugal)</b> <i>Supercritical-assisted POxylation: Designing new materials for drug delivery and water purification</i>

16.40	<b>OC8   Igor Reva (FCT-UC, Portugal)</b> <i>Generation and Stabilization of Triplet 2-Formyl Phenylnitrene in Inert Cryogenic Matrices</i>	<b>OC10   Bruno Medronho (FCT-UAlg, Portugal)</b> <i>Controversial Thoughts and Advances in Cellulose Dissolution: From Scattering and Rheology to a New NMR Approach</i>	<b>OC12   Maria Eduarda Pereira (UA, Portugal)</b> <i>Metals in Ria the Aveiro (Portugal): Perspectives</i>
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17.00-17.40 Coffee break and poster session 4

Session 9 | Chairman: Anthony Burke (UE), Sofia Pauleta (FCT-UNL) (Auditorium) Maria Santos (FF-UL), Richard Gomes (UA) (Amphitheatre A) Artur Silva (UA), Baltazar de Castro (FC-UP) (Amphitheatre F) – **Sponsored by Soquimica**

	Auditorium YoungChemists	Amphitheatre A YoungChemists		Amphitheatre F IndustryChallenges
17.40	<b>KN9   Fábio Fernades (IST-UL, Portugal)</b> <i>Nanoscale Compartmentalization of PI(4,5)P2 in Living Cells and Model Membranes. A Fluorescence Spectroscopy and FRET Imaging study</i>	<b>KN12   Cristina Pereira (ITQB-UNL, Portugal)</b> <i>Revisiting the old polymer suberin to develop functional materials</i>	17.40	<b>KN15   Rafael Antunes (Hovione)</b> <i>Challenges for Chemists in the 4th Industrial Revolution</i>
18.10	<b>IOC5   Tiago Rodrigues (iMM-UL, Portugal)</b> <i>Unraveling network pharmacology in natural product space</i>	<b>IOC7   Paula Ferreira (CICECO-UA, Portugal)</b> <i>Designing functional porous materials</i>	18.00	<b>KN16   Lázló Kiss (BIAL)</b> <i>Discovery and Development of Opicapone: A Potent and Peripherally Selective Catechol O-methyltransferase (COMT) Inhibitor for the Adjunctive Treatment of Parkinson's Disease</i>
18.30	<b>FC1   Ângelo Figueiredo (UCL)</b> <i>A NMR approach to characterise guanidino group of arginine side chains at macromolecular protein interfaces</i>	<b>FC6   Ana Paula Paiva (FC-UL, Portugal)</b> <i>Recycling of Valuable Metals from Spent End-of-Life Materials: Research on the Liquid-Liquid Extraction of Palladium</i>	18.20	<b>KN17   Carlos Neto (The Navigator Company)</b> <i>The Biorefinery R&amp;D Programme at The Navigator Company</i>
18.40	<b>FC2   Alberto Dal Corso (ETH)</b> <i>Non-internalizing antibody-drug conjugates release potent cytotoxic agents at the tumor site upon proteolytic linker cleavage</i>	<b>FC7   Andreia Rosatella (FF-UL, Portugal)</b> <i>Magnetic Ionic Liquids - MILs</i>	18.40	<b>KN18   Paulo Madeira (SAPEC)</b> <i>Mass Spectrometry Applications in the Crop Protection Industry</i>
18.50	<b>FC3   Hélio Fastino (FF-UL, Portugal)</b> <i>Selective, Rapid and Reversible N-Terminal Cysteine Functionalisation with 2-Formylbenzeneboronic acids (2FBBA)</i>	<b>FC8   Luís Cruz (FC-UP, Portugal)</b> <i>Synthesis and physical-chemical characterization of novel anthocyanin-lipophilic bioactives</i>		

19.00	<b>FC4   Cecília Roque (FCT-UNL, Portugal)</b> <i>Affinity materials for medical and biotechnological applications</i>	<b>FC9   Vera Lucia (QOPNA-UA, Portugal)</b> <i>Ohmic Heating Assisted Synthesis of 1,3-Disubstituted-quinolin-4(1H)-ones by C-C Cross Coupling Reactions in Aqueous Media</i>	19.00	<b>FC11   António Ribeiro (IPB)</b> <i>Separation of Nadolol Racemates by Fixed-bed and Continuous Preparative Liquid Chromatography using C18 Columns</i>
19.10	<b>FC5   Ana C. Santos (IST-UL, Portugal)</b> <i>Smart Polymer Fibers for Stem Cell Cultivation</i>	<b>FC10   Luís Fernandes (FCT-UE, Portugal)</b> <i>Alpha-glucosidases and cholinesterases inhibition</i>	19.10	<b>FC12   Ricardo Branco (FCT-UNL)</b> <i>De novo computational design of a protein catalyst for the Beckmann rearrangement reaction</i>
20.00- Sunset Party & Conference Dinner				

## Wednesday, July 19th, 2017

Session 10 | Chairman: Carlos Romão (FCT-UNL) | Auditorium – Environmental Challenges – *Sponsored by Bruker*

9.00	<b>PL10   David Milstein (Weizmann Institute of Science, Israel)</b> <i>Design and Applications of Sustainable Catalytic Reactions for Synthesis and Energy</i>
9.50	<b>PL11   Armando Pombeiro (IST-UL, Portugal)</b> <i>Inert Alkanes as Potential Feedstocks for Synthesis?</i>

10.40-11.40 Coffee break and poster session 5

Session 11 | Chairman: Beatriz Royo (ITQB-UNL) | Auditorium – Environmental Challenges – *Sponsored by Bruker*

11.40	<b>PL12   Paul Chirik (Princeton University, USA)</b> <i>Catalysis with Earth Abundant Transition Metals</i>
12.30	<b>PL13   Antonio Echavarren (ICIQ, Spain)</b> <i>Gold-Catalysis for the Synthesis of Biologically Active Natural Products</i>

13.20-15.00 Lunch

Session 12 | Chairman: José Cavaleiro, Carlos Afonso (Auditorium) – *Sponsored by Paralab*; Joaquim Faria, Carla Morais (Amphitheatre A) – *Sponsored by ChemPubSoc Europe*

Auditorium A Sea of Opportunities		Amphitheatre A Teaching Challenges	
15.00	<b>KN19   Anake Kijjoa (CIIMAR-UP, Portugal)</b> <i>Marine-Derived Fungi: A Promising Source of Bioactive Compounds for Drug Discovery</i>	15.00	<b>KN22   José Gomes (FC-UP, Portugal)</b> <i>A Química no ensino básico e secundário: Um desafio para os alunos?</i>
		15.25	<b>IOC10   Adelino Galvão (SG-SPQ, Portugal)</b> <i>Aprendizagens Essenciais: Os novos desafios transdisciplinares no ensino da Química</i>

15.30	<b>KN20   Vassilios Roussis (Pharm-UoA, Greece)</b> <i>In search of algal metabolites with biomedical-biotechnological potential from the East Mediterranean</i>	15.40	<b>IOC11   João Paiva (FC-UP, Portugal)</b> <i>Manuais escolares em química e desafios futuros: uma experiência e algumas reflexões</i>
16.00	<b>KN21   Deniz Tasdemir (GEOMAR, Germany)</b> <i>Integrated Strategies to Address Ocean's Microbial and Metabolomic Dark Matters for Marine Natural Product Discovery</i>	15.55	<b>IOC12   João André (UM, Portugal)</b> <i>A percepção pública da química através do teatro e da ópera</i>
16.30	<b>IOC9   Susana Gaudêncio (FCT-UNL, Portugal)</b> <i>Ocean Treasures: Marine actinomycetes as a source of antimicrobial compounds with biotechnological potential</i>	16.10	<b>IOC13   Vítor Leite (Escola S. Penafiel, Portugal)</b> <i>Desafios ao ensino da Química</i>
16.50	<b>FC13   Luís Silva (FC-UP, Portugal)</b> <i>Characterization of the Chemiexcitation Step of Marine Imidazopyrazinone Chemiluminescence</i>	16.25	<b>IOC14   Desidério Pires (Escola Básica 2/3 Frei Estêvão Martins em Alcobaça)</b> <i>Olimpíadas Regionais de Química: qual a importância em participar e quais os segredos do sucesso dos alunos neste evento</i>
		16.40	<b>FC14   Célia Faustino (FF-UL, Portugal)</b> <i>Development of Chemistry Education Research in Portugal: The Emerging Picture from the Papers Published in the Journal of Chemical Education</i>
		16.50	<b>FC15   Marta Corvo (FCT-UNL, Portugal)</b> <i>Science outreach activities from early grades to high school</i>

17:00-18:00 Awards & Closing Ceremony | Auditorium