



**U**

**LISBOA**

UNIVERSIDADE  
DE LISBOA



**COLÉGIO  
de QUÍMICA**

# **CHEMISTRY: SHAPING THE FUTURE**

(including WORKSHOP WITH INDUSTRY)

## **& 2019 SUMMER SCHOOL**

**4<sup>th</sup> MEETING OF THE CQUL (4ECQUL)**

**16-19 July 2019**

Salão Nobre of Rectory

# CHEMISTRY: SHAPING THE FUTURE

Chair	PROGRAMME   July 16 <sup>th</sup>	
	08h30	<b>Check-in</b>
	09h00-9h15	<b>Opening Session</b> António Cruz Serra (Rector of ULisboa) Armando Pombeiro (President of the College of Chemistry) Maria José Calhorda (President of the Organizing Committee)
	<b>Energy &amp; Environment</b>	
Maria José Calhorda	09h15-10h00	<b>Plenary Lecture 1</b> Karl Kirchner (Technical University of Vienna) Well-defined Iron and Manganese Complexes in Catalysis – Hydrogenations, Dehydrogenations and More
Ana Lourenço	10h00-10h20	<b>Invited Lecture 1</b> Dmitry Evtuyugin (UAveiro) Winemaking residues as a prospective bioenergy source
	10h20-10h50	Poster Session + Coffee Break
Isabel Miranda	10h50-11h10	<b>Invited Lecture 2</b> Suzana Ferreira Dias (ISA-ULisboa) Sustainable enzyme-catalyzed production of biodiesel from crude vegetable oils
Jorge Correia	11h10-12h10	<b>Oral (15 min) &amp; Flash (5 min) Presentations</b> [O] Jaime Coelho (iMed-ULisboa) [O] Moisés Pinto (IST ULisboa) [O] Ricardo Silva (FC- ULisboa) [F] Bernardo Monteiro (IST-ULisboa) [F] Manas Sutradhar (IST-ULisboa) [F] Olinda Monteiro (FC-ULisboa)
Fátima Guedes da Silva	12h10-12h30	<b>Invited Lecture 3</b> Paulo Martinho (FC-ULisboa) Fe(III) salEen spin crossover complexes displaying the thermosalient effect
		Lunch
	<b>Materials</b>	
Mário Nuno Berberan Santos	14h00-14h45	<b>Plenary Lecture 2</b> Grace Morgan (University College Dublin) Shaping the Future with Molecular Magnets
	14h45-15h05	<b>Invited Lecture 4</b> A. Jorge Parola (FCT-UNLisboa) Shaping the Future with Host-Guest Photoswitches
António Almeida + Moisés Pinto	15h05-16h05	<b>Oral (15 min) &amp; Flash (5 min) Presentations</b> [O] Nuno Bandeira (FC-ULisboa) [O] Kamran T. Mahmudov (IST-ULisboa) [O] Ricardo Simões (FC-ULisboa) [F] Tannistha Roy Barman (IST-ULisboa) [F] Ana F. Bettencourt (FF-ULisboa) [F] Dulce Belo (IST-ULisboa)
	16h05-16h35	Poster Session + Coffee Break
Manuel Minas da Piedade *	16h35-16h55	<b>Invited Lecture 5</b> António Almeida (FF-ULisboa) Lipid-based Nanostructured Particles as a Platform for Pulmonary Drug Delivery
	16h55-17h15	<b>Invited Lecture 6</b> António Gonçalves (IST-ULisboa) Advanced materials for energy and medical applications

# CHEMISTRY: SHAPING THE FUTURE

Chair	PROGRAMME   July 17 <sup>th</sup>	
	08h45	Check-in
	<b>Life &amp; Health</b>	
Nuno C. Santos	09h15-10h00	<b>Plenary Lecture 3</b> Gilles Gasser (PSL Université Paris) Metal Complexes in Medicinal Chemistry
	10h00-10h20	<b>Invited Lecture 7</b> Carlos Geraldes (FCT-UCoimbra) Contrast agents for Molecular Imaging- the input of Chemistry
	10h20-10h50	Poster Session + Coffee Break
Filomena Carvalho	10h50-11h10	<b>Invited Lecture 8</b> M <sup>a</sup> da Conceição Rangel (FC-UPorto) Hydroxypyridinones: Chelators to Life Sciences
Pedro Góis	11h10-12h10	<b>Oral (15 min)</b> [O] Hélio Faustino (iMed-ULisboa) [O] Inês Mariz (IST-ULisboa) [O] Ivo Martins (IMM-ULisboa) [O] Fábio Santos (iMed-ULisboa)
	12h10-12h30	<b>Invited Lecture 9</b> Diana Gaspar (FM-ULisboa) Challenging breast cancer development with the natural peptide Pvd1
		Lunch
	<b>Life &amp; Health</b>	
Rui Moreira	14h00-14h45	<b>Plenary Lecture 4</b> Javier Montenegro (University of Santiago de Compostela) Supramolecular Chemistry: Gene Delivery and Synthetic Biology
	14h45-15h05	<b>Invited Lecture 10</b> Miguel Machuqueiro (FC-ULisboa) In silico studies of pHLIPs: the pH-sensitive peptides that target the acidity in tumor cells
Sónia Gonçalves + Amélia Rauter	15h05-16h05	<b>Oral (15 min) &amp; Flash (5 min) Presentations</b> [O] André Dias (FF-ULisboa) [O] Shrika harjivan (iMed-ULisboa) [O] Luis Frija (IST-ULisboa) [F] Rita Gonçalves Pereira (iMed-ULisboa)
	16h05-16h35	Poster Session + Coffee Break
	16h35-17h00	<b>Closing Session &amp; Awards Ceremony</b> Maria José Calhorda (President of the Organizing Committee) Presidents of the Divisions of the College of Chemistry
	17h00-18h00	<b>General Assembly of the College of Chemistry of the ULisboa</b>

# WORKSHOP INDUSTRY

Chair	PROGRAMME   July 18 <sup>th</sup>	
	08h45	<b>Check-in</b>
	09h00-9h15	<b>Opening Session</b> Maria José Calhorda (President of the Organizing Committee) Carlos Henriques (Chair of the Industry Workshop)
<b>Workshop Industry (Part I)</b>		
Carlos Henriques	09h15-10h00	<b>Plenary Lecture</b> Yu Wang (FARASIS) Batteries for Electric Cars
	10h00-10h30	<b>Invited Lecture 1</b> Ángela Nunes (SECIL) Innovation in Cement and Concrete Industry
	10h30-11h00	Poster Session + Coffee Break
João Moura Bordado + Carlos Afonso	11h00-11h30	<b>Invited Lecture 2</b> Renato Carvalho (IBEROL) Innovation & Development, the Company Sustainability
	11h30-12h00	<b>Oral Presentation (15 min)</b> [O] João Bordado
	12h00-12h30	<b>Invited Lecture 3</b> Susana Lucas (HOVIONE) Drugs and technologies for the future – A process chemist view
		Lunch
<b>Workshop Industry (Part II)</b>		
Francisco Lemos + Moisés Pinto	14h00-14h45	<b>Plenary Lecture</b> Carlos Martins de Andrade (GALP) Roadmap to carbon neutrality - Energy challenges and opportunities to Chemical Research
	14h45-15h15	<b>Invited Lecture 4</b> Manuel Carvalho (Linde) Industrial Gases, Making our world more productive
	15h15-15h45	<b>Invited Lecture 5</b> Alexandre Gaspar (NAVIGATOR) Chemistry@ Pulp & Paper industry and possible wood based bio refineries
	15h45-16h15	<b>Oral Presentation (15 min)</b> [O] Filipa Siopa
	16h15-16h45	Coffee Break
Carlos Castro	16h45-17h15	<b>Invited Lecture 6</b> Luís Araújo (APQuímica) The Chemical Industry In Portugal - A brief description
	17h15-17h45	<b>Invited Lecture 7</b> Cristina Correia (PRIO) PRIO: open innovation towards a more sustainable mobility

# 2019 SUMMER SCHOOL | July 19<sup>th</sup>

08h30	<b>Check-in</b>
09h00-9h15	<b>Opening Session</b> Armando Pombeiro (President of the College of Chemistry)
09h15-10h15	<b>Invited Lesson 1</b> Henrique Pombeiro (Watt-IS)
10h15-10h45	Coffee Break
10h45-11h45	<b>Invited Lesson 2 (Technological Tools I – Advanced Methodologies of Synthesis)</b> Ana Paula Ribeiro (IST-ULisboa)
11h45-12h45	<b>Invited Lesson 3 (Technological Tools II – Electrochemical Techniques)</b> Jorge Correia (FC-ULisboa)
	Lunch
14h15-15h15	<b>Invited Lesson 4</b> Yu Wang (Farasis)
15h15-16h15	<b>Invited Lesson 5 (Technological Tools IV – X-ray diffraction)</b> Vânia André (IST-ULisboa)
16h15-17h15	<b>Invited Lesson 6 (Technological Tools V – FTICR and MS for Life Sciences)</b> Carlos Cordeiro (FC-ULisboa)
17h15-17h30	<b>Closing Session</b> Bruno Rocha (Member of the Organizing Committee) Armando Pombeiro (President of the College of Chemistry)
	Chill-Out

Centro de Química Estrutural · Instituto Superior Técnico  
Av. Rovisco Pais · 1049-001 Lisboa · PORTUGAL  
Tel.: (+351) 218 419 399 | E-mail: inescrsantos@tecnico.ulisboa.pt

Sponsored by

