



COLÉGIO
de QUÍMICA

UNIVERSIDADE
DE LISBOA

CQUL 5th MEETING

FORGING BONDS

12-14 July '22

ULisboa's Main Building

PROGRAM



UNIVERSIDADE
DE LISBOA



Day 1

12th July

08:30

Check-in

09:00 – 09:15

Opening Session

Cecília Rodrigues (*Vice-Rector of ULisboa*), Mário Nuno Berberan e Santos, (*Chair of CQUL*),
Matilde Marques, *Organizing Committee*

ENERGY & ENVIRONMENT | Chair: Francisco Lemos

09:15 – 10:00

Plenary Lecture 1 "From plastic waste to light olefins – opportunities and challenges"

Marvyn Kusenbergh (*Ghent University, Belgium*)

10:00 – 10:20

Invited Lecture 1 "Challenges on projects combining renewable energy and green gases production"

Tiago Faria (*Efacec*)

10:20 – 10:35

Oral Communication 1

Rafael Gomes (*iMed-Ulisboa, FFUL*)

10:35 – 11:35

Poster Session and Coffee Break

11:35 – 11:50

Oral Communication 2

Fábio Santos (*iMed-Ulisboa, FFUL*)

11:50 – 12:05

Oral Communication 3

Cátia Marques (*CQE-IMS, IST*)

12:05 – 12:20

Flash Presentations 1-3

Nuno Conceição (*CQE-IMS, IST*), Nuno Canha (*C2TN, IST*), João Oliveira (*iMed-Ulisboa, FFUL*)

12:20 – 12:40

Invited lecture 2

Daniel Pio (*the Navigator*)

Lunch

MATERIALS | Chair: Manuel Minas da Piedade

14:00 – 14:45

Plenary Lecture 2 "Mechanochemical formation of multicomponent crystals systems"

Franziska Emmerling (*Bundesanstalt für Materialforschung und -prüfung - BAM, Berlin, Germany*)

14:45 – 15:05

Invited Lecture 3 "The chemistry of water on Cu surfaces from quantum mechanical modeling"

Cláudio M. Lousada (*Department of Materials Science and Engineering, KTH Royal Institute of Technology, Sweden*)

15:05 – 15:20

Oral Communication 4

Nuno Bandeira (*BioISI, FCUL*)

15:20 – 15:35

Flash Presentations 4-6

Ricardo Simões (*CQE-IMS, FCUL*), Diogo Sousa (*ISEL and IBB, IST*), Maria José Silva (*iMed-Ulisboa, FFUL*)

15:35 – 16:35

Poster Session and Coffee Break

16:35 – 16:50

Oral Communication 5

João António (*iMed-Ulisboa, FFUL*)

16:50 – 17:05

Oral Communication 6

Shirley Sancha (*iMed-Ulisboa, FFUL*)

17:05 – 17:25

Invited Lecture 4 "Silica-gel as a carrier for hydrogen peroxide for applications in bio-decontamination"

Fadhil Musa, *Delox*

Day 2
13th July

 08:45 **Check-in**
LIFE & HEALTH | Chair: Rui Moreira

- 9:15 – 10:00 **Plenary Lecture 3** "The discovery of LML134, an H3R inverse agonist for the treatment of narcolepsy"
 Yves Auberson (*Novartis, Switzerland*)
- 10:00 – 10:20 **Invited Lecture 5** "Low data machine learning for chemical discoveries"
 Tiago Rodrigues (*iMed.Ulisboa, FFUL*)
- 10:20 – 10:35 **Oral Communication 7**
 Rita Félix (*iMed.Ulisboa, FFUL*)
- 10:35 – 11:35 **Poster Session and Coffee Break**
- 11:35 – 11:50 **Oral Communication 8**
 Elizabeth Lopes (*iMed.Ulisboa, FFUL*)
- 11:50 – 12:05 **Oral Communication 9**
 Gonçalo Justino (*CQE-IMS, IST*)
- 12:05 – 12:20 **Flash Presentations 7-9**
 Vera Isca (*CBIOS, ULHT and iMed.Ulisboa, FFUL*), Salvatore Princiotta (*Univ. Milan and ULHT*), Ivo Martins (*IMM, FMUL*)
- 12:20 – 12:40 **Invited lecture 6** "Protecting the Central Nervous System with broad range antiviral drugs. The cases of Zika and Dengue viruses, HIV and SARS-CoV-2"
 Miguel Castanho (*iMM-FMUL*)

Lunch
TECHNOLOGY & INDUSTRY | Chair: Carlos Afonso

- 14:00 – 14:45 **Plenary Lecture 4** "Flow Chemistry: Enabling and Accelerating Understanding and Development"
 Kerry Gilmore (*Department of Chemistry, University of Connecticut*)
- 14:45 – 15:05 **Invited Lecture 7** "Electrifying Organic Synthesis – When your Chemistry has got Potential"
 Kevin Lam (*Department of Pharmaceutical, Chemical and Environmental Sciences, The University of Greenwich, UK*)
- 15:05 – 15:20 **Oral Communication 10**
 Abdallah Mahmoud (*CQE-IMS, IST*)
- 15:20 – 15:35 **Flash Presentations 10-12**
 Humberto Ferreira (*FFUL and CERENA-IST*), Milene Fortunato (*iMed.Ulisboa, FFUL*), Inês Martins (*iMed.Ulisboa, FFUL*)
- 15:35 – 16:35 **Poster Session and Coffee Break**
- 16:35 – 16:50 **Oral Communication 11**
 João Ravasco (*iMed.Ulisboa, FFUL*)
- 16:50 – 17:05 **Oral Communication 12**
 Késsia Andrade (*iMed.Ulisboa, FFUL*)
- 17:05 – 17:25 **Invited Lecture 8** "High pressure food, biotechnological and chemical potential applications"
 Jorge Saraiva (*University of Aveiro*)
- 17:25 – 18:00 **Awards and Closing Session**
 Cecília Rodrigues (*Vice-Rector of ULisboa*), Mário Nuno Berberan e Santos (*Chair of CQUL*),
 Matilde Marques (*Organizing Committee*)

Day 3

14th July SUMMER SCHOOL

Biorefineries

08:30 **Check-in**9:00 – 9:15 h **Opening Session**Francisco Lemos and Carlos Afonso (*co-chairs of the 2022 Summer School*)9:15 – 10:15 h **Lesson 1 "Cannabis - A European and chemistry perspective on an emerging industry"**Joana Lemos (*Atann One*)10:15 – 11:15 h **Lesson 2 "The Sea as a source of another Chemistry"**Pedro Lima (*Sea4Us*)11:15 – 11:45 h **Coffee Break**11:45 – 12:45 h **Lesson 3 "Microalgae Biorefineries Fostering Circular Economy"**Cristina Matos (*A4F*)**Lunch**14:15 – 15:15 h **Lesson 4 "Enabling CO_x-free hydrogen production at industrial scale through low-temperature catalytic methane decomposition"**Tiago Lagarteira (*FEUP*)15:15 – 16:15 h **Lesson 5 "Fostering biomass thermochemical liquefaction within a biorefinery perspective"**Rui Galhano dos Santos (*CERENA*)16:15 – 16:45 h **Coffee Break**16:45 – 17:45 h **Lesson 6 "Biorefinery processes in symbiosis with the forestry sector"**João Nunes (*BLC3*)17:45 – 18:00 **Closing Session**Francisco Lemos and Carlos Afonso (*co-chairs of the 2022 Summer School*)