

BIOREMIA Summer School

Nanomaterials and Nanotechnologies for the prevention of bacterial biofilms

29 August – 2 September 2022, Ioannina, Greece

Program



VENUE

29.08-2.09.2022, Hotel Du Lac, Leoforos Karolou Papoulia, Ioannina, Greece
2.09.2022, Department of Materials Science & Engineering (DMSE), Computer Lab, University of Ioannina, Greece

ORGANISERS

BIOREMIA ETN project https://www.bioremia.eu/ Event organisers: Assoc. Prof. Christina Lekka, Prof. Georgos Evangelakis, University of Ioannina, Greece

FUNDING

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28 August		
Sunday		
20:00 (EEST) Dinner (<i>Restaurant</i> - <u>Hotel Du Lac</u>)		
29 August		
Monday	Venue: <u>Hotel Du Lac</u>	
09:15 (EEST) Registration & Welcome		
09:30 – 17:30 Beyond the Bench: Career Development for Scientists (Part 1)	Trainers: Tobias Maier, Lisa Saemisch	
Coffee breaks: 11:00 & 15.30	(ThePaperMill, Spain)	
Lunch break: 13:00		
 Goal: The goal of this workshop on career development for scientists is to give participant framework for making informed career choices, and by providing practical help with the environment. Content Skills, interests and values: why are you doing science and what for? Identifying opportunities: mapping the job market for academics Developing your competence profile: finding out and expressing what you are good at Decision making theory: how to make the right choices for the right reasons Creating a competitive CV: how to get on the shortlist The job interview: a clear framework to finding the right match Taking action: tools and tips to kick off your career 		
30 August Tuesday	Venue: <u>Hotel Du Lac</u>	
09:30 – 17:30 Beyond the Bench: Career Development for Scientists (Part 2)	Trainers: Tobias Maier, Lisa Saemisch	
Coffee breaks: 11:00 & 15.30	(ThePaperMill, Spain)	
Lunch break: 13:00		
20:00 Get-together Dinner (Spuntino Restaurant)		

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3 L August	
Wednesday	Venue: <u>Hotel Du Lac</u>
09:00 Registration	
09:15 Welcome & Introduction	Christina Lekka (University of Ioannina, Greece)
Nanomaterials & Nanocharacterization	Moderator: Lindsay Greer (UCAM, UK)
09:30 Invited talk 1 : Nanomechanical measurements of metallic alloys	Udo Schwarz (YALE, US)
10:15 Invited talk 2 : SPD-mediated lattice defect engineering for optimization of the	Michael Zehetbauer (UniVie, Austria)
mechanical and corrosion properties of (non-) biodegradable crystalline materials	
11:00 Coffee break	
Nanotechnologies	Moderator: Jürgen Eckert (MUL, Austria)
11:15 Invited talk 3 : Dealloying strategies for the generation of nanoporous metals	Paola Rizzi (UNITO, Italy)
with advanced antibacterial properties. How nanotechnology can help bioimplant	
design	
11:45 Invited talk 4 : Electrodeposition of nanostructured materials	Eva Pellicer (UAB, Spain)
12:15 Invited talk 5 : Role of Surface Properties on the Biocompatibility and Toxicity of Xenobiotics	Francesco Turci (UNITO, Italy)
13:00 Lunch break & Group photo	
14:30 Networking & Excursion (Parga village)	
L September	
Thursday	Venue: <u>Hotel Du Lac</u>
	Moderator: Christina Lekka (Uol, Greece)
09:30 Progress of ESRs projects	ESR 1 - Yannick Fortouna (UOI, Greece)
(20 min/ESR)	ESR 2 - Ludovico Alberta (IFW, Germany)
	ESR 3 – Aleksandra Bartkowska (UAB, Spain)
	ESR 4 – Fei-Fan Cai (MUL, Austria) ESR 5 – Miguel Brito Costa (UCAM, United Kingdom)
11:10 Coffee break	

	Moderator: Serena Best (UCAM, UK)
11:30 Progress of ESRs projects	ESR 6 – Tim Kreuz (UCAM, United Kingdom)
(20 min/ESR)	ESR 7 – Kirti Tiwari (UNITO, Italy)
	ESR 8 – Michael Escobar Hernandez (UAB, Spain)
	ESR 9 – Adnan Akman (IFW, Germany)
	ESR 10 – David Zermeno (Ashland, Ireland)
13:10 Lunch break	
	Moderator: Margarita Trobos (UGOT, Sweden)
14:00 Progress of ESRs projects	ESR 11 – Adam Turner (UGOT, Sweden)
(20 min/ESR)	ESR 12 – Paula Milena Giraldo (UGOT, Sweden)
	ESR 13 – Juan José Londoño Rueda (PXS, Switzerland)
	ESR 14 – Yohan Douest (Anthogyr, France)
	ESR 15 – Sebastião Barros (Stryker, Germany)
15:40 Coffee break	
Computational Materials Science, Part 1	Moderator: Giorgos Evangelakis (Uol, Greece)
16:00 Invited Talk 6 : "The road to room temperature superconductivity: Hydrides	Dimitrios Papaconstantopoulos (GMU, US) / online
under high pressure"	
	Daniel Conv. (Adult Avertica)
16:30 Invited Talk 7 : "Atomistic computer simulations of interfacial properties"	Daniel Sopu (MUL, Austria)
17:15 - 17:45 Consortium management meeting	Mariana Calin, Anne Hönemann (IFW, Germany)
20:00 Networking Dinner (Restaurant FRONTZU POLITIA)	
2 September Friday Venue: Hotel Du Lac	(morning session) and DMSE Computer Lab, UoI (afternoon session)
	Moderator: Mariana Calin (IFW, Germany)
10:00 Discussion on practical aspects of ESR scientific projects (by groups, in spec	cific areas relevant for secondments & PhD topic)
11:00 Coffee break	
Computational Materials Science, Part 2	Moderator: Florian Spieckermann (MUL, Austria)
11:15 Invited Talk 8 "Molecular dynamics simulation of passive diffusion in eukaryotic	Nikolaos Kourkoumelis (UoI, Greece)
and bacterial membranes"	
12:15 Computational Materials Science Laboratory - Introduction	Christina E. Lekka (Uol, Greece)

Computational Materials Science, Part 3

Moderators: Christina Lekka and Yannick Fortouna (UoI, Greece)

14:00 Computational Materials Science Laboratory – Hands on at the Department of Materials Science and Engineering, University of Ioannina

18:00 End of Workshop

* Addresses:

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• Hotel Du Lac

- → Leoforos Karolou Papoulia, Ioannina, Greece <u>https://www.hoteldulac.gr/en/</u>
- Department of Materials Science and Engineering → University of Ioannina (UoI) Campus, <u>http://www.materials.uoi.gr/</u>
- Restaurant Spuntino-Alta Gastronomia Italiana
- Restaurant FRONTZU POLITIA

- → Dionisiou Filosofou 6, Ioannina 452 21
- → <u>https://www.frontzupolitia.gr/en/</u>