

6th Intensive Course – ELBYSIER

Proposed Dates: **1st of July (Arrival) to the 8th of July (Departure)**

Objective: Review all the presented themes

Topics:

1. Organic Electronics (Materials, Devices)
2. 2D Materials (Materials, Devices)
3. Transparent Electronics (Materials, Devices)
4. Cellulose based Electronics (Materials, Devices)
5. Spintronics & Quantum Computing
6. Bioelectronics (Materials and Devices)
7. Soft Skills Development
8. Journal Club Actions
9. Erasmus Actions
10. Cultural Activities

All the lectures will be video recorded

Slot	1 st of July (Sunday)	Monday	Tuesday (3 th of July)	Wednesday	Thursday	Friday	Saturday
0915 - 1000	Participant Arrival	Fundamentals of Organic Semiconductors by Prof. Stefan ANTOHE (UB)	<u>Graphene Based OSCs</u> by Dr Konstantinos Petridis (TEI of Crete)	<u>Bioelectronics :</u> <u>Overview and</u> <u>materials by Dr M. Donahue (St- Etienne)</u>	Template-free electrochemical synthesis of ZnO nanostructures used in	Exchange interaction between individual spins in	Samaria Gorge Excursion (Dep. @ 0630)

					electronics & optoelectronics by Dr. Vlad-Andrei ANTOHE (UB)	quantum dots” by Dr Kazimierczak, (UW)	
1000 - 1100		Organic Thin Films for Electronics and Optoelectronics Devices by Prof. S. ANTOHE (UB)	<u>Graphene & 2D materials based PSCs</u> by Dr G. Kakavelakis (TEIoC)	<u>Soft Electronics for bio-applications</u> by Dr M. Ramuz (St.-Ettiene)	<u>Metal Oxides Review and Future</u> by Prof. G. Kiriakidis (University of Crete)	Interview Tips by Dr M. Kartalou (Planning Manager, Thenamaris)	
1100 - 1115		<i>Coffee Break</i>	<i>Coffee Break</i>	<i>Coffee Break</i>	<i>Coffee Break</i>	<i>Coffee Break</i>	
1115 - 1200		<u>Organic Photovoltaics</u> by Dr K. Petridis (TEIoC)	<u>Graphene & 2D materials based PSCs</u> by Dr G. Kakavelakis (TEIoC)	<u>Introduction to brain structures and electrophysiology</u> by Dr M. Donahue (St-Ettiene)	<u>Smart Windows: How smart can they be?</u> by Dr. Elias Aperathitis (University of Crete & Foundation for Research & Technology)	Exams	

1200 - 1300		Organic Photovoltaics Dr K. Petridis (TEIoC)	Spintronics & Valleytronics by Prof. Jacek Majewski (UW)	<u>Neural Interfacing devices: Current status and future outlook</u> by Dr M. Donahue (St-Etienne)	<u>“Metal and Perovskite Oxides for Environmental Applications”</u> by Dr Binas Vasilios (University of Crete)	Exams	
1300 - 1415		Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch Break	
1415 - 1500		Graphene & 2D materials handling in chemistry <u>by Dr M. Stylianakis</u> (TEIoC)	Spin Transport in Spintronic Devices <u>by Prof. Jacek Majewski (UW)</u>	Nuclear Magnetic Resonance (NMR): From biomedical applications to underground water investigation and detection by Dr Stelios Kouridakis (TEIoC)	<u>An Introduction to Paper Electronics</u> by Prof. Luis Pereira (NUL)	<u>Journal Club Presentations (20 minutes per team)</u>	
1500 - 1600		Graphene & 2D materials handling in		An Introduction to Organic Light Emitting Diodes	<u>Paper Based Transistors and Sensors</u> Prof.	<u>Journal Club Presentations</u>	

		chemistry by Dr M. Stylianakis (TEIoC)	Spintronics based on GaMnAs by Dariusz Wasik (UW)	by Prof. Ioannis Kaliakatsos (TEIoC)	Luis Pereira (NUL)	(15 minutes per team)	
1600 - 1615		Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break	
1615 - 1700		Project Management by Ass. Prof. L. Doitsidis (TEIoC)	Ethics in Science by Dr M. Ramuz (MINES -St- Etienne)	Why to publish and how to write a paper by Dr Petridis (TEIoC)	How do design a lecture using innovative teaching methodologies by Mr N. Bolanakis (TEIoC)	Intensive Program Evaluation	
1700 - 1800		The Erasmus Activities of TEI of Crete (Dr Petridis - TEIoC)	Country & Institutional Presentations	Research Activities – Poster Session	Final Meeting & Future Opportunities		
N/S		City – Tour & Dinner	B/Q Night in Mitsos B/Q Restaurant	Dinner for the Academics offered by the	Free Evening	Beach Time	Farewell Dinner for the participants

				ELBYSIER coordinator			
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