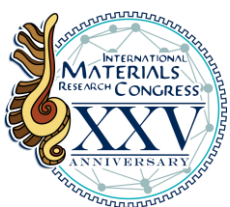


Hour	Tutorial 1	Tutorial 2	Tutorial 3	Tutorial 4	Tutorial 5	Tutorial 6	Tutorial 7	Tutorial 8	Tutorial 9	Tutorial 10
9:00-10:00	Topic A	Introduction and properties of electrochemical capacitors	Measure Systems/ Traceability	Introduction to survival Skills	Diffraction hic Texture analysis	Introduction what is scattering: Scattering vs Microscopy small and wide angle scattering primary data handling	Introduction to smart and functional materials	Principles of Materials and Functionality of devices	Data acquisition	Fundamentals properties of thin-film photovoltaics
10:00-10:30	Topic A	Electrochemical Techniques to characterize ECs	Measurement assurance	Introduction to survival Skills	Rietveld, phase an line broadening	Introduction what is scattering: Scattering vs Microscopy small and wide angle scattering primary data handling	Types of polymers and processes	Principles of Materials and Functionality of devices	Data acquisition	Fundamentals properties of thin-film photovoltaics
10:30-10:45	Coffe Break	Coffe Break	Coffe Break	Coffe Break	Coffe Break	Coffe Break	Coffe Break	Coffe Break	Coffe Break	Coffe Break
10:45-11:00	Topic A	Electrochemical Techniques to characterize ECs	Measurement assurance	Introduction to survival Skills	Rietveld, phase an line broadening	Introduction what is scattering: Scattering vs Microscopy small and wide angle scattering primary data handling	Types of polymers and processes	Principles of Materials and Functionality of devices	Data acquisition	Examples CdTe CIGS, CZTS solar cell technologies
11:00-12:00	Topic A	General properties of carbons	Measurement assurance/ Measurement uncertainly	Science communication: how to give a talk	The combined solution	Introduction what is scattering: Scattering vs Microscopy small and wide angle scattering primary data handling	Preparation of functional polymers and characterizations	Architecture of devices	Texture analysis	Examples CdTe CIGS, CZTS solar cell technologies
12:00-12:30	Topic B	Capacitors in aqueous electrode	Measurement uncertainly	Breaking the glass ceiling: the role of women in science	The MAUD software	Data interpretation plots Fourier transform and	Preparation of functional polymers and characterizations	Architecture of devices	Boundary textures	Fundamental properties of thin-film 3 rd



						PDDF fitting application examples instrumentation literature				generation photovo
12:30-12:45	Coffe Break	Coffe Break	Coffe Break	Coffe Break	Coffe Break	Coffe Break	Coffe Break	Coffe Break	Coffe Break	Coffe Break
12:45-13:00	Topic B	Capacitors in aqueous electrode	Measurement uncertainly	Breaking the glass ceiling: the role of women in science	The MAUD software	Data interpretation plots Fourier transform and PDDF fitting application examples instrumentation literature	Preparation of functional polymers and characterizations	Characterization by TEM and STEM with atomic resolution	Boundary textures	Fundamental properties of thin-film 3 rd generation photovo
13:00-14:00	Topic B	Capacitors in aqueous electrode	Measurement uncertainly	Land that job! Skills that will help you to get hired	The MAUD software	Data interpretation plots Fourier transform and PDDF fitting application examples instrumentation literature	Preparation of functional polymers and characterizations	Characterization by TEM and STEM with atomic resolution	Data Processing	Fundamental properties of thin-film 3 rd generation photovoltaics
14:00-15:00		Hybrid Capacitors	Interlaboratory comparisons		High pressure data	Data interpretation plots Fourier transform and PDDF fitting application examples instrumentation literature			Deformation Analysis	Examples-sensitized solar cells, organic photovoltaics, hybrid perovskites
15:00-15:30						Data interpretation plots Fourier transform and PDDF fitting application examples instrumentation literature				