

UIE - AMPERE PhD INTENSIVE COURSE HES 2023





3 – 9 MAY 2023

PROGRAM

	WEDNESDAY 3rd	THURSDAY 4th		FRIDAY 5th		MONDAY 8th	TUESDAY 9th
8.30 - 09.30		WELCOME course presentation M.Forzan		SOLID STATE MW HEATING		Power electronics for Induction Heating [PEIH_1]	[PEIH_2]
9.30 - 10.30		ELECTROHEAT TECHNOLOGIES FOR SUSTAINABILITY [ETS_FD]		SOLID STATE MW HEATING		[PEIH_1]	[PEIH_2]
10.30 – 10.45		COFFEE BREAK		COFFEE BREAK		COFFEE BREAK	COFFEE BREAK
10.45 - 11.45		[ETS_FD]		[ETS_KVR]		[ETS_EB]	[ETS_PANEL]
11.45 - 12.45		GROUP SELECTION		[ETS_KVR]		[ETS_EB]	[ETS_PANEL]
		LUNCH - BAR 3 SCALINI		LUNCH - BAR 3 SCALINI		LUNCH - BAR 3 SCALINI	LUNCH - BAR 3 SCALINI
14.00 - 15.00		LAB. 1	LAB 2	LAB. 1	LAB 2	TIME FOR PREPARING THE	Presentation GROUP1
15.00 - 16.00		PROCESSING	H ₂ O PROCESSING	FOOD PROCESSING	H ₂ O PROCESSING	PRESENTATIONS	Presentation GROUP 2
16.00 - 17.00							CONFERENCE WELCOME

LECTURERS AND TOPICS

ELECTROHEAT TECHNOLOGIES FOR SUSTAINABILITY [ETS]

Prof. Egbert Baake, Leibniz Hannover Unversity, "Defossilisation of industrial heating processes using electrothermal technologies"

Prof. Fabrizio Dughiero. University of Padova, "Electro technologies for sustainable processes"

Prof. Koen Van Reusel, Catholic University of Leuven, "Industrial added value by interaction of electromagnetic energy with materials. Overview of technologies".

SOLID STATE MW HEATING

Dr. Erika Menosso, Electrolux A.G. "Solid state MW generators"

POWER ELECTRONICS FOR INDUCTION HEATING

Prof. Oscar Lucia, University of Zaragoza, "Introduction to power electronics and domestic induction heating"

Dr. Héctor Sarnago, University of Zaragoza, "Advanced power conversion techniques for induction heating"

Dr. Pablo Guillen, University of Zaragoza, "Advanced control techniques and multi-load systems for induction heating"

LABORATORY GROUP 1

Anna Maria Cavazzini, "Technical tests to assess performance of a microwave oven with a solid-state generator"

LABORATORY GROUP 2

Matteo Lazzarin, "Drying of refractory bricks using a laboratory-scale RF machine"

Matteo Lazzarin, "Domestic water heating: efficiency comparison between an induction hob and an infrared electric stove"