PLASMA SCHOOL
Bad Honnef

Program of the School 2020

Plasma primer
to be available as video lectures one week before the school

Introduction I: Fundamentals of Plasma Physics (*A. von Keudell, Bochum)*
Introduction II: Fundamentals of Plasma Physics *(A. von Keudell, Bochum)*

Modelling - Monday October 5th

9:45	Welcome and introduction (*M. Böke &M. Prenzel, Bochum & R. Engeln and A. Sobota, Eindhoven*)
10:00-10:30	Q&A Introduction *(A. von Keudell, Bochum)*
10:30	Plasma modelling I: General overview (A. Bogaerts, Antwerp)

Sources I, Tuesday October 6th

9:00	Plasma sources I: Non magnetized radio-frequency discharges *(P. Chabert, Paris)*
11:00	Plasma sources II: DBDs (Corona and barrier discharges) *(O. Guaitella, Paris)*

Practical day, Wednesday October 7th

9:00	Plasma modelling II: Electron kinetics in atomic and molecular plasmas *(L.L. Alves, Lisbon)*
	Modelling Workshop: Hands on a Boltzmann solver *(L.L. Alves, Lisbon)*

Sources II, Thursday October 8th

9:00	Plasma sources III: High pressure thermal plasmas and sources *(A. Murphy, Sydney)*
	Plasma sources IV: High pressure thermal plasmas and sources - Diagnostics and Applications *(A. Murphy, Sydney)*

Diagnostics I, Monday October 12th

9:00	Plasma diagnostics I: Basics of plasma spectroscopy *(V. Schulz-von der Gathen, Bochum & S. Iséni, Orléans)*
11:00	Plasma diagnostics II: Measuring electron density and ion flux *(F. Iza, Loughborough)*

Diagnostics II, Tuesday October 13th

9:00	Plasma diagnostics III: Advanced optical diagnostics *(R. Engeln, Eindhoven)*
11:00	Plasma diagnostics IV: Plasma-Surface Interactions (*J. Benedikt, Kiel*)

Practical day, Wednesday October 14th

9:00	Demonstration on emission spectroscopy *(V. Schulz-von der Gathen, Bochum)*

Technologies, Thursday October 15th

10:00	Plasma technologies I: Material processing *(G. Henrion, Nancy)*
14:00	Plasma technologies II: Developments at high pressure and in liquids *(P. Bruggeman, Minnesota)*