

Program of the School 2017

Saturday, Oct. 7: Arrival/Registration from 17.00 - 21.00 (dinner included)

Sunday, Oct. 8:

08.45-09.00	Welcome and introduction (Plot of the School, Plasma Science) (<i>M. Böke, Bochum & O. Guaitella and A. Bourdon, Paris</i>)
09:00-10.30	Introduction I: Fundamentals of Plasma Physics (<i>A. von Keudell, Bochum</i>)
10.30-10.45	Coffee break
10.45-12.15	Introduction II: Fundamentals of Plasma Physics (<i>A. von Keudell, Bochum</i>)
12.30-13.30	Lunch
13.45-15.15	Plasma modeling I: Modeling of plasmas (<i>A. Bogaerts, Antwerp</i>)
15.15-15.30	Coffee break
15.30-17.00	Plasma modeling II: Global models (<i>M. Turner, Dublin</i>)
17.00-17.30	Forum with teachers
18.30-20.00	Dinner
20.00	Poster Session

Monday, Oct. 9:

09.00-10.30	Plasma diagnostics II: Measuring electron density and ion flux (<i>N. Braithwaite, Milton Keynes</i>)
10.30-10.45	Coffee break
10.45-12.15	Plasma sources I: Non magnetized radio-frequency discharges (<i>P. Chabert, Paris</i>)
12.30-13.30	Lunch
13.45-15.15	Plasma diagnostics I: Basics of plasma spectroscopy (<i>V. Schulz-von der Gathen, Bochum</i>)
15.15-15.30	Coffee break
15.30-17.00	Plasma sources II: High pressure thermal plasmas and sources (<i>A. Murphy, Sydney</i>)
17.00-17.30	Forum with teachers
18.30	School Dinner
20.00-21.00	Entertainment seminar: "Plasma in cinema" (<i>A. von Keudell, Bochum</i>)

Tuesday, Oct. 10:

09.00-10.30	Plasma modeling III: Electron kinetics in atomic and molecular plasmas (<i>L.L. Alves, Lisbon</i>)
10.30-10.45	Coffee break
10.45-12.15	Plasma modeling IV: Fluid modeling of discharge plasmas (<i>L.L. Alves, Lisbon</i>)
12.30-13.30	Lunch
14.00-evening	Excursion or Workshops Modeling Workshop: "Hands on a Boltzmann solver" (<i>L.L. Alves, Lisbon</i>) Experimental Workshop: "How to get plasma parameters? From theory to reality" (<i>G. Henrion & O. Guaitella, "Réseau Tech. Plasmas Froids", France</i>)

18.30	Dinner
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Wednesday, Oct. 11:

09.00-10.30	Plasma sources III: DBDs (Corona and barrier discharges) (<i>O. Guaitella, Paris</i>)
10.30-10.45	Coffee break
10.45-12.15	Plasma sources IV: High density magnetized plasma sources (<i>U. Czarnetzki, Bochum</i>)
12.30-13.30	Lunch
13:45-15:15	Plasma diagnostics IV: Plasma-Surface Interactions (<i>J. Benedikt, Bochum</i>)
15.15-15.30	Coffee break
15:30-17:00	Plasma diagnostics III: Advanced optical diagnostics (<i>R. Engeln, Eindhoven</i>)
17.00-17.30	Forum with teachers
18.30	Dinner

Thursday, Oct. 12:

09.00-10.30	Plasma technologies I: material processing (<i>G. Henrion, Nancy</i>)
10.30-10.45	Coffee break
10.45-12.15	Plasma technologies II : development at high pressure and in liquids (<i>P. Bruggeman, Minnesota</i>)
12.30-13.30	Lunch

Program of the Master Class 2017

Thursday, Oct. 12: Arrival/Registration from 17.00 - 21.00 (Dinner included)

All lectures have duration of ~1.15h + 15min for final extended discussion

Friday, Oct. 13:

08.45-9.00	Introduction to the workshop
9.00-10.30	Plasma surface interactions: overview and focus on negative ion surface production (<i>Gilles Cartry, Marseille</i>)
10.30-10.45	Coffee break
10.45-12.15	Surface reactions of solids in contact with plasmas by means of particle beam experiments (<i>Carles Corbella, Bochum</i>)
12.30-13.30	Lunch
13:30-14.30	Electric field, temperature and adsorbed species measurements on surfaces exposed to plasma jets (<i>Ana Sobota, Eindhoven</i>)
14.30- 15.30	Advantages of sum-frequency generation spectroscopy for plasma/surface interaction understanding (<i>Vincent Vandalon, Eindhoven</i>)
15:30-15:45	Coffee and biscuits
15:45-16:45	Master Class Poster Session
16.45-17:45	Deterministic and Monte Carlo methods for simulation of plasma-surface interactions (<i>Daniil Marinov, Leuven</i>)
18.30	Dinner

Saturday, Oct. 14:

9.00-10.30	Modelling approaches for plasma/Catalysis interaction' (<i>Erik Neyts, Antwerpen</i>)
10.30-10.45	Coffee break
10.45-12.15	Plasma interaction with dielectric surfaces and living tissue: effect of surface roughness (<i>Natalya Babaeva, Moscow</i>)
12.15-12.20	Closure
12.30-13.30	Lunch