week one 16th - 20th July 2012

Monday 16th July	Tuesday 17th July	Wednesday 18th July	Thursday 19th July	Friday 20th July
9:00 – 9:10 Course Introduction **Dr Roy McAdams** 9:10 – 9:40 Welcome **Professor Steve Cowley** 9:40 – 11:20 Particle Dynamics **Dr. Colin Roach**	9:00 – 10:40 Plasma Kinetic Theory II **Dr. Tony Arber**	9:00 – 10:40 Magnetohydrodynamics II **Dr. Michael Coppins**	9:00 - 10:40 Inertial Confinement Fusion **Dr Kate Lancaster**	9:00 – 10:40 Computational Plasma Physics **Dr Colin Roach**
11:20 – 11:40 Coffee Break & Student packs	10:40 – 11:15 Coffee Break	10:40 – 11:15 Coffee Break	10:40 – 11:15 Coffee Break	10:40 – 11:15 Coffee Break
11:40 – 12:55 Fusion and the Future Energy Market **Dr David Ward**	11:15 – 12:55 Magnetohydrodynamics I **Dr. Michael Coppins**	11:15 – 12:55 Magnetic Confinement Fusion **Dr William Morris**	11:15 – 12:55 Waves in Plasmas **Dr Chippy Thyagaraja**	11:15 – 12:55 Realisation and Application of Low Temperature Plasmas **Dr Deborah O'Connell**
12:55 – 14:20 Lunch	12:55 – 14:00 Lunch	12:55 – 14:00 Lunch	12:55 – 14:00 Lunch	12:55 – 14:00 Lunch
14:20 – 16:00 Plasma Kinetic Theory I **Dr. Tony Arber**	14:00 - 14:45 Plasma Particle Dynamics Problem Solving **Dr. Colin Roach**	14:00 – 14:45 Plasma Kinetic Theory Problem Solving **Dr. Tony Arber**	14:00 – 14:45 Magnetohydrodynamics Problem Solving **Dr. Michael Coppins**	**Free Time**
15:00 – 15:15 Coffee Break	14:45 – 15:00 Coffee Break	14:45 – 15:00 Coffee Break	14:45 – 15:00 Coffee Break	
	15:00 – 16:30 Poster Session	15:00 – 16:30 Space Plasma Physics **Dr. Jonathan Eastwood**	15:00 – 16:30 Low Temperature Plasmas **Dr Mark Bowden**	**Free Time**

week two 23rd - 27th July 2012

Monday 23th July	Tuesday 24th July	Wednesday 25th July	Thursday 26th July	Friday 27th July
9:00 – 10:40 Plasma Instabilities **Dr. Ken McClements**	9:00 – 10:40 Laser Plasma Physics **Professor Paul McKenna**	9:00 – 10:40 Solar Physics **Dr Lyndsay Fletcher**	9:00 – 10:40 Controlling the Plasma-Wall Interaction **Dr Geoff Fishpool** or Physics of Implosion, Ignition and Burn **Dr John Pasley**	9:00 – 10:40 Connecting Theory and Experiment in Complex Systems **Dr. Jakob Svensson**
10:40 – 11:15 Coffee Break	10:40 – 11:15 Coffee Break	10:40 – 11:15 Coffee Break	10:40 – 11:10 Coffee Break	10:40 – 11:15 Coffee Break
11:15 – 12:55 Plasma Transport **Dr Chippy Thyagaraja**	11:15 – 12:55 Particle Acceleration in Plasmas **Professor Bob Bingham**	11:15 – 12:55 Plasma Turbulence **Professor Steve Cowley**	11:10 – 11:55 Transport in the Plasma Edge and SOL **Dr Fulvio Militello** or Modelling of low temperature plasmas **Dr Felipe Iza** 12:00 – 12:55 Wave Interactions with Particles **Dr R Vann** or Laser Wakefield Acceleration **Dr Stuart Mangles**	11:15 – 12:55 Topics in Astrophysics **Professor Philippa Browning**
12:55 – 14:00 Lunch	12:55 – 14:00 Lunch	12:55 – 14:00 Lunch	12:55 – 14:00 Lunch	12:55 – 14:00 Lunch
14:00 – 14:45 Waves in Plasmas Problem Solving **Dr. Chippy Thyagaraja**	14:00 – 15:00 Plasma Physics at RAL **ANO**	14:00 -15:00 Diagnostics **Dr Kieran Gibson**	14:00 – 14:55 Dusty Plasmas **Dr. Dmitry Samsonov** or Equation of State and Opacity **Dr Christopher Murphy**	**End of summer school**
14:45 – 15:00 Coffee Break	15:00 – 15:15 Coffee Break	15:00 – 15:15 Coffee Break	14:55 – 15:10 Coffee Break	
15:00 – 15:30 MAST Overview **Mr. Alan Sykes**	15:15 – 16:30 **Tour of RAL**	15:15 – 15:45 Overview of JET **Dr Ivor Coffey**	15:10 – 16:05 Heating and Current Drive **Dr Martin O'Brien** or Microdischarges: from kinetics to applications **Dr James Walsh**	
15:30 – 16:30 **MAST Visit**		15:45 – 17:00 **JET visit**		

- Tuesday 24th July will take place at the Rutherford Appleton Laboratory
- Participants may choose between the indepth lectures on offer on Thursday 26th July.