

Conference Programme

Monday 29th March

1000 – 1200		<i>Arrival Hotel Check-in Conference Registration</i>
1200 – 1255		<i>Lunch</i>
1255 – 1300		Welcome: J W Bradley , <i>University of Liverpool</i>
<hr/> Session 1 <hr/>		
1300 – 1340	Invited	Atmospheric pressure He + H ₂ O plasmas F Iza , <i>Loughborough University</i>
1340 – 1400	Contributed	The Impact of Magnetic Islands on Drift Wave Stability H Wilson , <i>University of York</i>
1400 – 1420	Contributed	Molecular dynamics simulation of dynamic phenomena in complex plasmas: Nonlinear waves interaction and defect dynamics C Durniak , <i>University of Liverpool</i>
1420 – 1440	Contributed	Audio sound reproduction by thermal expansion in an RF generated plasma Y Sutton , <i>The Open University</i>
1440 – 1510		<i>Coffee Break</i>
<hr/> Session 2 <hr/>		
1510 – 1550	Invited	The media and public image of scientists Q Cooper , <i>Freelance Journalist and BBC presenter</i>
1550 – 1610	Contributed	Relaxation and energy release in the nonlinear kink instability P Browning , <i>University of Manchester</i>
1610 – 1630	Contributed	Carbon ion acceleration from thin foil targets irradiated by ultrashort, ultraintense Astra-Gemini laser pulses D C Carroll , <i>University of Strathclyde</i>
1630 – 1900		Poster Presentations Drinks reception
1900 – 2030		Dinner
2030 – 2130		MAST-Upgrade Future Plans meeting Chaired by D Stork , <i>Culham Centre for Fusion Energy</i>

Tuesday 30th March

Session 3		
0830 – 0910	Invited	An overview of JET physics P De Vries , <i>FOM institute for Plasma Physics, Rijnhuizen</i>
0910 – 0930	Contributed	Detailed Atomic Physics in Opacity Calculations J Gaffney , <i>Imperial College London</i>
0930 – 0950	Contributed	Hydrogenic atomic physics revisited: Analytic formulae for radiative and collisional rates of complex ions L Upcraft , <i>AWE-Aldermaston</i>
0950 – 1010	Contributed	Linear gyrokinetic simulations including the centrifugal force in a strongly rotating tokamak plasma F Casson , <i>CFSA Warwick</i>
1010 – 1040		<i>Coffee Break</i>
Session 4		
1040 – 1120	Invited	Culham Thesis Prize Winner
1120 – 1140	Contributed	Shielding of a charged particle in plasmas G Morfill , <i>MPI für extraterrestrische Physik</i>
1140 – 1200	Contributed	Full orbit simulations of impurity ions in tokamak plasmas with strongly sheared electric fields C Wrench , <i>University of Warwick</i>
1200 – 1220	Contributed	The Bennett pinch revisited J Allen , <i>University of Oxford</i>
1220 – 1900		<i>Hill Walking (Packed Lunch)</i> <i>Lunch</i> <i>Free Time</i>
1900 – 2030		<i>Dinner</i>
Session 5		
2030 – 2110	Invited	Electron-positron pairs and gamma-rays in laser-plasma interactions T Bell , <i>University of Oxford</i>

Wednesday 31st March

Session 6		
0830 – 0910	Invited	Investigations of fast electron energy transport relevant to fast ignition inertial fusion P McKenna , <i>University of Strathclyde</i>
0910 – 0930	Contributed	Conservative regularisation of ideal hydrodynamics and MHD A Thyagaraja , <i>Culham Centre for Fusion Energy</i>
0930 – 0950	Contributed	Microwave Imaging an edge current diagnostic in tokamaks S Freethy , <i>University of York</i>
0950 – 1010	Contributed	Experimental study of cyclotron emission processes in the presence of background plasma S L McConville , <i>University of Strathclyde</i>
1010 – 1040	<i>Coffee Break</i>	
Session 7		
1040 – 1120	Invited	Edge Physics in MAST K Gibson , <i>University of York</i>
1120 – 1140	Contributed	Thomson scattering from a laser-ablated Mg plume E Nedanovska , <i>Queen's University Belfast</i>
1140 – 1200	Contributed	Shielding of a charged particle in plasmas S Khrapak , <i>MPI für extraterrestrische Physik</i>
1200 – 1220	Contributed	Modelling of plasma bullet dynamics G Naidis , <i>Joint Institute for High Temperatures RAS</i>
1220 – 1350	<i>Lunch</i>	
Session 8		
1350 – 1430	Invited	Plasma interactions with catalytic surfaces J C Whitehead , <i>University of Manchester</i>
1430 – 1450	Contributed	Field Compression Magnetothermal Instability J Bissell , <i>Imperial College London</i>
1450 – 1510	Contributed	Nonlinear mode coupling in pair plasmas C Stark , <i>University of St. Andrews</i>
1510 – 1530	Contributed	Fast Ignition Inertial Confinement Fusion: The effects of density scale length on ultraintense laser - plasma absorption R Scott , <i>Imperial College London/STFC</i>
1530 – 1600	<i>Coffee Break</i>	

Session 9		
1600 – 1640	Invited	MHD Modelling of High Energy Density Plasmas J P Chittenden , <i>Imperial College London</i>
1640 – 1700	Contributed	Non-thermal atmospheric pressure plasmas: A dual frequency approach J Waskönig , <i>Queen's University Belfast</i>
1700 – 1720	Contributed	Observation of radiation pressure driven Rayleigh-Taylor instability C A J Palmer , <i>Imperial College London</i>
1720 – 1740	Contributed	X-ray imaging of the expansion dynamics of isochorically heated warm dense matter produced by a laser generated proton beam S James , <i>AWE-Aldermaston</i>
1740 – 1820		IOP Plasma Group AGM
1820 – 1930		<i>Free Time</i>
1930 – 2200		<i>Conference Dinner (Prizes)</i>

Thursday 1st April

Session 10		
0830 – 0900		<i>Checkout</i>
0900 – 0940	Invited	The role of linear plasma devices in plasma-surface interaction studies G De Temmerman , <i>FOM Institute of Plasma Physics Rijnhuizen</i>
0940 – 1000	Contributed	Plasma parameter measurements in the afterglow of laser produced breakdown of helium B Graham , <i>Queen's University Belfast</i>
1000 – 1020	Contributed	Probing the 2-D structure of drift instabilities in tokamaks D Dickinson , <i>University of York</i>
1020 – 1050		<i>Coffee Break</i>
Session 11		
1050 – 1110	Contributed	Covariant constitutive relations, Landau damping and non-stationary inhomogeneous plasmas J Gratus , <i>Lancaster University and the Cockcroft Institute</i>
1110 – 1130	Contributed	X-ray opacity measurements of plasmas at temperatures and densities approaching those at the centre of the sun D Hoarty , <i>AWE-Aldermaston</i>
1130 – 1150	Contributed	Radial thermal diffusivity in a stochastic field, P Denner , <i>University of York/Culham Centre for Fusion Energy</i>
1150 – 1230	Invited	Underwater Spark Discharges I Timoshkin , <i>University of Strathclyde</i>
1230 – 1235		Conference closes: J W Bradley , <i>University of Liverpool</i>
1235 – 1330		<i>Lunch (Additional)</i>
