

Monday, May 16

08:00	Registration	
09:00	Welcome note	
	Session 1, Chair: P. Shukla	
09:30	G. Morfill , Max-Planck-Institute for Extraterrestrial Physics, Germany <i>Complex Plasma as a New Interdisciplinary Research Field</i>	1
10:15	R. Merlino , The University of Iowa, USA <i>Nonlinear Dust Acoustic Waves, Shocks, and Stationary Structures Observed in a DC Glow Discharge Dusty Plasma</i>	2
10:40	Coffee break	
	Session 2, Chair: D. Block	
11:00	A. A. Mamun , Jahangirnagar University, Bangladesh <i>Nonplanar Solitary and Shock Waves in Dusty Plasmas</i>	3
11:25	L. Couëdel , Université de Provence, France <i>Mode coupling due to ion wakes in 2D complex plasma crystals</i>	4
11:50	O. Arp , Christian-Albrechts-University Kiel, Germany <i>Nonlinear Phenomena and Self-Organization in Dusty Plasmas</i>	5
12:15	M.-C. Chang , National Central University, Taiwan <i>Nonlinear Wave-particle Interaction and Particle Trapping in Large Amplitude Dust Acoustic Waves</i>	6
12:35	Lunch	
	Session 3, Chair: M. Hellberg	
14:00	H. Kählert , Christian-Albrechts Universität zu Kiel, Germany <i>Fluid modes of a spherically confined Yukawa plasma</i>	7
14:20	A. Piel , Christian-Albrechts-University Kiel, Germany <i>Some Thoughts about Dust Density Waves</i>	8
14:45	R. Kompaneets , The University of Sydney, Australia <i>Higher Landau modes and dust shielding in field-driven ion flows</i>	9
15:10	Coffee break	
	Session 4, Chair: S. Robertson	
15:40	A. Lipaev , Joint Institute for High Temperatures, Russia <i>Survey of Complex Plasma Research on the International Space Station using PK-3 Plus Microgravity Laboratory</i>	10
16:05	A. D. Usachev , Joint Institute for High Temperatures, Russia <i>Structural and Dynamic Phenomena in the "Plasma Krystall - 4" Experiments under Microgravity Conditions</i>	11
16:25	B. Buttenschön , Ernst-Moritz-Arndt-University Greifswald, Germany <i>3D Particle Dynamics in Dusty Plasmas Under Microgravity</i>	12
16:45	Poster Session A	

Tuesday, May 17

08:00	Registration	
	Session 5, Chair: S. Girshick	
09:00	L. Boufendi , Université d'Orléans, France <i>Dusty Plasmas in Applications</i>	13
09:45	A. Michau , Université Paris 13, France <i>Particle formation in a DC discharge</i>	14
10:10	S. Krasheninnikov , University of California San Diego, USA <i>Dust in Magnetic Fusion Devices: Resent Progress and Future Directions</i>	15
10:35	Coffee break	
	Session 6, Chair: S. Ratynskaya	
11:00	J. Berndt , Université d'Orléans, France <i>Growth and transport of nanoparticles in capacitively coupled discharges</i>	16
11:20	C. Arnas , Université de Provence, France <i>Comparison of nanoparticles produced in the MAST tokamak with those produced in laboratory plasmas</i>	17
11:40	Y. Hayashi , Kyoto Institute of Technology, Japan <i>Self-Bias Monitoring during Gas-Phase Synthesis of Single-Walled Carbon Nanotubes in RF Plasmas</i>	18
12:00	L. Matthews , Baylor University, USA <i>Agglomeration of Dust Particles in Plasma</i>	19
12:25	Lunch	
	Session 7, Chair: M. Mikikian	
14:00	E. Lazzaro , Istituto di Fisica del Plasma "P.Caldirola", Italy <i>Approaches to the Diagnostics of Dust in Plasmas</i>	20
14:25	J. Beckers , Eindhoven University of Technology, the Netherlands <i>Microparticles under hyper-gravity conditions probing the electric field strength in a collisional RF plasma sheath</i>	21
14:50	E. Thomas, Jr. , Auburn University, USA <i>New developments in Particle Image Velocimetry (PIV) for the study of complex plasmas</i>	22
15:10	Coffee break	
	Session 8, Chair: J. Allen	
15:40	J. D. Williams , Wittenberg University, USA <i>Application of tomographic particle image velocimetry to complex (dusty) plasmas</i>	23
16:00	A. Aschinger , Ruhr-Universität Bochum, Germany <i>Dynamic Light Scattering on Complex Plasmas</i>	24
16:20	A. Melzer , University Greifswald, Germany <i>Optical Emission of Dusty RF Discharges: Experiment and Simulation</i>	25
16:40	Poster Session B	

Wednesday, May 18

08:00	Registration	
	Session 9, Chair: Lin I	
09:00	H. Loewen , Heinrich-Heine-University Düsseldorf, Germany <i>Nonequilibrium phase transitions in colloids and dusty plasma</i>	26
09:45	P. Schall , University of Amsterdam, The Netherlands <i>Rheology of colloidal suspensions</i>	27
10:10	T. Voigtmann , Institute of Materials Physics in Space, Germany <i>Nonlinear flow phenomena in dense liquids</i>	28
10:35	Coffee break	
	Session 10, Chair: I. Hutchinson	
11:00	M. Sperl , Institute of Materials Physics in Space, Germany <i>Glass transition in colloids and granular matter: connection to complex plasmas</i>	29
11:25	M. Drewsen , University of Aarhus, Denmark <i>Investigations of plasma modes of ion Coulomb crystals by means of cavity quantum electrodynamics</i>	30
11:50	M. Schwabe , Max-Planck-Institute for Extraterrestrial Physics, Germany <i>Exploring the limits of cooperative phenomena using complex plasma</i>	31
12:15	S. A. Khrapak , Max-Planck-Institut für extraterrestrische Physik, Germany <i>Approximate methods to locate phase boundaries in complex plasmas and related systems</i>	32
12:35	Lunch	
13:30	Excursion	

Thursday, May 19

08:00	Registration	
	Session 11, Chair: M. Horanyi	
09:00	A. Mendis , University of California San Diego, USA Dusty Plasmas in Space	33
09:45	I. Mann , Belgian Institute for Space Aeronomy, Belgium <i>Dust in the interplanetary medium: local interactions</i>	34
10:10	Z. Sternovsky , University of Colorado Boulder, USA <i>Frontiers in in-situ cosmic dust detection and analysis</i>	35
10:35	Coffee break	
	Session 12, Chair: S. Popel	
11:00	O. Havnes , University of Tromsø, Norway <i>In-flight calibration of mesospheric rocket plasma probes by use of dust probe measurements</i>	36
11:20	V. J. Sterken , TU Braunschweig, Germany <i>The flow of interstellar dust through the solar system: the role of dust charging</i>	37
11:40	K. Avinash , University of Delhi, India <i>Plasma heat pump</i>	38
12:05	X. Wang , University of Colorado Boulder, USA <i>Dust Charging and Transport on Surfaces</i>	39
12:25	Lunch	
	Session 13, Chair: N. Cramer	
14:00	K. Rypdal , University of Tromsø, Norway <i>Exploring the analogy between freezing of a 2D Yukawa liquid and 2D decaying turbulence in fluids</i>	40
14:25	T. Ott , Christian-Albrechts-University Kiel, Germany <i>Self-diffusion in strongly coupled plasmas</i>	41
14:50	R. Ganesh , Institute for Plasma Research, India <i>Shear Flows in Two Dimensional Strongly Coupled Yukawa Liquids : A Large Scale Molecular Dynamics Study</i>	42
15:15	Coffee break	
	Session 14, Chair: S. Vladimirov	
15:40	P. Hartmann , Research Institute for Solid State Physics and Optics, Hungary <i>Static and dynamic viscosity of a single layer dusty plasma</i>	43
16:00	A. V. Zobnin , Joint Institute for High Temperatures, Russia <i>Simulations of the DC-discharge plasma with dusty structure</i>	44
16:20	I. Kourakis , Queen's University Belfast, UK <i>Dusty plasma waves in a superthermal environment: review of recent progress</i>	45
16:45	Poster Session C	
19:00	Conference dinner	

Friday, May 20

Session 15, Chair: **T. Hyde**

09:00	P. K. Shukla , Ruhr-Universitat Bochum, Germany <i>Experiments and Theory of Complex (Dusty) Plasmas</i>	46
09:45	P. Brandt , Max-Planck-Institute for Extraterrestrial Physics, Germany <i>Tunable Potentials in Complex Plasmas</i>	47
10:10	H. Totsuji , Okayama University, Japan <i>Structures and Dynamics of Fine Particle (Dusty) Plasmas with Cylindrical Symmetry: Theory and Simulations</i>	48
10:35	Coffee break	
	Session 16, Chair: A. Khrapak	
11:00	V. Land , Baylor University, USA <i>Numerical Simulations of dusty plasma</i>	49
11:25	W. Miloch , University of Tromsø, Norway Charging and potential in finite clusters of dust grains	50
11:50	G. I. Sukhinin , Institute of Thermophysics, Russia <i>Polarization of a Trapped Ion Cloud around a Dust Particle in an External Electric Field</i>	51
12:10	U. Konopka , Max-Planck-Institute for extraterrestrial physics, Germany <i>Isotropy of the Particle-Pair-Interaction in Complex Plasmas under the Influence of a Magnetic Field</i>	52
12:30	ICPDP6 Summary	