

PLASMA-2009

Plenary, Invited and Oral Presentations

8th December 2009

Oral Session – 01

Theme Session Applications of Plasma Technology to Textiles and Environment

Plenary & Invited Talks

Time	Talk Code	Speaker	Title of talk	Affiliation
09:15-10:00	Keynote Address	S. Mukherjee	Plasma Surface Engineering	IPR, Gandhinagar
10:30-11:20	TS-PL-01	V. K. Kothari	Innovations In Textiles - Challenges For Indian Industry	IIT-D, Delhi
11:20-11:45	TS-I-01	S. K. Nema	Environment Friendly Disposal of Solid Organic Waste using Plasma Pyrolysis Technology	IPR, Gandhinagar
11:45-12:10	TS-I-02	V. Selvarajan	Plasma Processing: Wear And Lubricant Surface Coatings On Textile Machineries And Treatment Of Fabrics For Enhancement Of Dyeability	Bharathiar Univ, Coimbatore

Oral Presentations

Time	Talk Code	Speaker	Title of the talk	Paper Code	Affiliation
12:10-12:22	TS-O-01	H. R. Prabhakara	Plasma Treatment Of Silk	PP-S-18	Plasmatec, Banaglore
12:22-12:34	TS-O-02	G. Ravi	Non-Thermal Plasma Fuel Reforming & Cracking	PP-S-24	IPR, Gandhinagar

Oral Session – 02

Basic Plasma

Plenary & Invited Talks

Time	Talk Code	Speaker	Title of talk	Affiliation
13:30-14:20	BP-PL-01	Joyanti Chutia	Study of Sheath Phenomena in Laboratory Dusty Plasma	IASST, Guwahati
14:20-14:45	BP-I-01	Y.B.S.R Prasad	Generation Of Soft X-Ray Radiation From Capillary Discharge Plasmas	RRCAT, Indore
14:45-15:10	BP-I-02	L. M. Awasthi	Study Of High Beta Plasma In LVPD	IPR, Gandhinagar

Oral Presentations

Time	Talk Code	Speaker	Title of the talk	Paper Code	Affiliation
15:10-15:22	BP-O-01	Rajneesh Kumar	Possible Application Of Ultra-Cold Plasmas As Tunable Metamaterials	BP-S-06	IPR, Gandhinagar

			For Microwave		
15:22-15:34	BP-O-02	H. K. Malik	Rayleigh Instability in a Hall Thruster: Effect of Ion Temperature	BP-S-26	IIT, Delhi

9th December 2009

Oral Session – 03

Nuclear Fusion

Plenary & Invited Talks

Time	Talk Code	Speaker	Title of talk	Affiliation
09:00-09:50	NF-PL-01	Sanjay Kulkarni	Second Harmonic Heating Experiments On Tokamak Aditya Using Fast Waves In ICRF Range	IPR, Gandhinagar
09:50-10:15	NF-I-01	Arun K. C.	Neutral Beam Injectors – The Fusion Enablers	IPR, Gandhinagar
10:15-10:27	NF-I-02	E. Rajendrakumar	An Overview Of The Indian LLCB ITER-TBM Program	IPR, Gandhinagar

Oral Presentations

Time	Talk Code	Speaker	Title of the talk	Paper Code	Affiliation
10:27-10:39	NF-O-01	Animesh Kuley	Effects Of Lower Hybrid Wave On The Stability Of Ion Temperature Gradient Modes In The Alcator C-Mod Tokamak	FT-S-01	IIT, Delhi
10:39-10:51	NF-O-02	Ram Niranjana	Plasma Focus Based Portable Pulsed Neutron Source	FT-S-06	BARC, Mumbai

Oral Session – 04

Plasma Processing & Industrial Plasma

Plenary & Invited Talks

Time	Talk Code	Speaker	Title of talk	Affiliation
15:00-15:50	PP-PL-01	P. B. Jhala	Emerging Role Of Plasma Technology In Textile Processing	IPR, Gandhinagar
15:50-16:15	PP-I-01	Arup Ratan Pal	Studies Of Optical And Mechanical Properties Of Chemically Stable SiO _x -Like Films Prepared By RF Plasma CVD Process	IASST, Guwahati
16:15-16:27	PP-I-02	Ganesh Prasad	Generation, Control and Application of High Temperature Gas Using Plasma Torches	M/s SRTS Pvt. Ltd, Ahmedabad

Oral Presentations

Time	Talk Code	Speaker	Title of the talk	Paper Code	Affiliation
16:27-16:39	PP-O-01	Devki Nandan Gupta	Radiation Based Arc-Plasma Analysis in Arc-Chamber of a Medium-Voltage Gas Circuit-	IP-E-03	Crompton Greaves Mumbai

			Breaker		
16:39-16:51	PP-O-02	Neelam Kumari	Study Of RF/DC Magnetron Sputter Deposition Of Titanium Aluminium Nitride Thin Films	PP-S-28	BIT, Mesra

10th December 2009

Oral Session – 05

Space & Atmospheric Plasma

Plenary & Invited Talks

Time	Talk Code	Speaker	Title of talk	Affiliation
09:00-09:50	SA-PL-01	S. M. Ahmed	Water The Moon, The Other Side Of The Coin	Univ of Hyderabad
09:50-10:15	SA-I-01	Veenadhari B.	Space Weather Effects On Low Latitude Geomagnetic Field And Ionospheric Plasma Response	IIGM, Mumbai
10:15-10:27	SA-I-02	Abhay Kumar Singh	Characteristic of Ionospheric Plasma Bubbles	BHU, Varanasi

Oral Presentations

Time	Talk Code	Speaker	Title of the talk	Paper Code	Affiliation
10:27-10:39	SA-O-01	Shobha Y. Kadam	Studies Of Fragmentation Of Meteors And Their Effect On The Dst Current	SA-S-45	Mumbai University
10:39-10:51	SA-O-02	R. S. Pandey	Generation Of Whistler Mode Instability For Inhomogeneous Ionospheric Plasma	SA-S-29	Amity University

Oral Session – 06

Plasma Diagnostics

Plenary & Invited Talks

Time	Talk Code	Speaker	Title of talk	Affiliation
13:30-14:20	PD-PL-01	J. Govindarajan	Fuzzy Thinking, Fuzzy Logic and Tokamaks!	IPR, Gandhinagar
14:20-14:45	PD-I-01	Santanu Banerjee	Visible Imaging and Tomographic Reconstruction Of Tangential Images Of The Tokamak Plasma	IPR, Gandhinagar
14:45-15:10	PD-I-02	Rajesh Srivastava	Electron Excitation of Inert Gases of Interest to Plasma Modeling	IIT-Roorkee

Oral Presentations

Time	Talk Code	Speaker	Title of the talk	Paper Code	Affiliation
15:10-15:22	PD-O-01	Nirupama Tiwari	High Speed Visualization	PD-S-15	BARC, Mumbai

			Of Jet Fluctuations In A Cascaded Dc Plasma Torch		
15:22-15:34	PD-O-02	Bharati P.	Measurement Of Ion Specie Mix, Beam Specie Distribution And Beam Divergence Of Extracted Ion Beams Using Doppler Shift Spectroscopy Diagnostics (DSS)	PD-S-10	IPR, Gandhinagar

Oral Session – 07

Exotic Plasma

Plenary & Invited Talks

Time	Talk Code	Speaker	Title of talk	Affiliation
13:30-14:20	PD-PL-01	J. Govindarajan	Fuzzy Thinking, Fuzzy Logic and Tokamaks!	IPR, Gandhinagar
14:20-14:45	PD-I-01	Santanu Banerjee	Visible Imaging and Tomographic Reconstruction Of Tangential Images Of The Tokamak Plasma	IPR, Gandhinagar
14:45-15:10	PD-I-02	Rajesh Srivastava	Electron Excitation of Inert Gases of Interest to Plasma Modeling	IIT-Roorkee

Oral Presentations

Time	Talk Code	Speaker	Title of the talk	Paper Code	Affiliation
17:25-18:37	EP-O-01	Sanat Tiwari	Nonlinear Studies of Strongly Correlated Dusty Plasma System	EP-O-01	IPR, Gandhinagar

11th December 2009

Oral Session – 08

Laser-Plasma Interactions

Plenary & Invited

Time	Talk Code	Speaker	Title of talk	Affiliation
09:00-09:50	LP-PL-01	G. Ravindra Kumar	High Energy Density Science With Femtosecond, High Intensity Lasers	TIFR, Mumbai
09:50-10:15	LP-I-01	Ajai Kumar	Experimental Investigation Of Plasma Plume Formed By Laser-Blow-Off Of Thin Film: Structure And Dynamics In Ambient Environment	IPR, Gandhinagar
10:15-10:27	LP-I-02	Amita Das	Fast Time Scale Phenomena In Plasma	IPR, Gandhinagar

Oral Presentations

Time	Talk Code	Speaker	Title of the talk	Paper Code	Affiliation
10:27-10:39	LP-O-01	Amit D. Lad	Real-Time Ultrafast	LP-S-19	TIFR, Mumbai

			Dynamics of Hot, Dense Matter: Implications to Transport, Modeling and Simulations		
10:39-10:51	LP-O-02	Gaurav Shukla	Effect of dynamics of laser ablated plasma on PLD thin films of ZnO	LP-S-38	IIT-Guwahati

Oral Session – 09

Computer Simulation for Plasmas

Plenary & Invited

Time	Talk Code	Speaker	Title of talk	Affiliation
13:30-14:20	CM-PL-01	Kartik Patel	Parallel PIC Simulation Of Laser-Plasma Interactions	BARC, Mumbai
14:20-14:45	CM-I-01	Devendra Sharma	Simulating Kinetics of Nonlinear Electrostatic Processes in Vlasov Plasmas	IPR, Gandhinagar
14:45-15:10	CM-I-02	Ajit Upadhyay	3D PIC Simulation of Laser Wakefield Acceleration : Overview & Progress	RRCAT, Indore

Oral Presentations

Time	Talk Code	Speaker	Title of the talk	Paper Code	Affiliation
15:10-15:22	CM-O-01	Sangeeta B. Punjabi	Characteristic of Argon plasma in ICP torch at atmosphere	CM-S-06	VJTI, Mumbai
15:22-15:34	CM-O-02	Swati Baruah	Molecular Dynamics Simulation Of Phase Transition In Complex Plasma	CM-S-03	Tezpur University