

PLASMA-2010
Daily schedule

December 8, 2010

08:00-09:00	BREAKFAST & REGISTRATION	
09:00-09:30	INAGURATION	
09:30-10:15	Keynote Address Dhiraj Bora Deputy Director General, ITER, France	Fusion - A limitless energy source in the horizon
10:30-10:45	HIGH TEA	
10:45 - 13:00	ORAL SESSION – 01	Basic Plasma (BP)
10:45-11:35 Plenary Talk	Rabindranath Pal SINP Kolkata	The MaPLE Device at Saha Institute of Nuclear Physics
11:35-12:05 Invited - 1	K.S. Goswami CPP Guwahati	Current free double layers and its existence and applications
12:05-12:35 Invited -2	Prabal K. Chattopadhyay IPR, Gandhinagar	Basic plasma experiment: discovery and exploration of new plasma regimes
12:35-12:47 Oral -1	Abhishek Chowdhury IIT, Kanpur	Interaction of low energy micron focused ion beamlets with matter
12:47-12:59 Oral -2	S Barnwal RRCAT	Dynamics of a capillary discharge plasma
13:00-14:00	LUNCH	
14:00-16:15	ORAL SESSION – 02	Nuclear Fusion (NF)
14:00-14:50 Plenary	S. Pradhan IPR, Gandhinagar	Tokamaks for thermonuclear fusion research
14:50-15:20 Invited - 1	Vijay Bedakihale IPR, Gandhinagar	Material R & D for Fusion Program – Issues and Challenges

15:20-15:50 Invited - 2	V. L. Tanna IPR, Gandhinagar	Cryogenic forced flow cooling system for Fusion devices
15:50-16:02 Oral -1	Srichand Jakhar IPR, Gandhinagar	Measurement of absolute neutron yield of D-T neutron generator using foil activation
16:02-16:14 Oral -2	Kumar Ajay IPR, Gandhinagar	Core-ion temperature estimation of Aditya Tokamak using charge exchange Neutral Particle Analyzer (NPA)
16:15 - 16:30	TEA	
16:30 - 17:00	BUTI Award presentation G S Gogna Dublin City University, Ireland	The Resonance Hairpin Probe: Theory And Application in Magnetized Plasma
17:00 - 17:30	FCIPT, Gandhinagar	Experiment Talk

17:30 - 20:30 Visit to IASST & Director's Dinner

December 9, 2010

8:00-9:00	BREAKFAST	
09:00 - 11:15	ORAL SESSION - 03	Industrial Plasma/ Plasma Processing (IP)
09:00-09:50 Plenary	A. K. Das BARC, Mumbai	Emerging Trends in Plasma Processing Technologies
09:50-10:20 Invited	P. M. Raole FCIPT, Gandhinagar	Plasma Processing-Present scenario and future directions
10:20-10:50 Invited	Suraj Sinha BIT, Jaipur	Dielectric Barrier Discharges: Fundamentals and its applications
10:50-11:02 Oral -1	Ashwini K Singh BIT, Mesra, Ranchi	Structural, Mechanical And Electrical Properties of Titanium Aluminium Nitride Thin Films Using Rf/DC Magnetron Co-Sputtering

11:02-11:14 Oral -2	Rashmita Das BARC, Visakhapatnam	Study of the effect of the metal heating in the production of nano powder produced by exploding wire discharge
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11:15-11:30 TEA

11:30-13:00 POSTER SESSION -1 Basic Plasma

13:00-14:00 LUNCH

14:00-15:45 POSTER SESSION -2 Nuclear Fusion + Space & Atmospheric Plasma

15:45-16:10	Alexander Schwock Project-Manager BalticNet-PlasmaTec, Greifswald, Germany	Indo-German Collaboration Talk
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16:10-16:30 TEA

16:30 - 18:45 ORAL SESSION - 04 Space & Atmospheric Plasma (SA)

16:30-17:20 Plenary	A S Sharma Maryland University, USA	Multiscale processes and cross-scale coupling in collisionless magnetic reconnection
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17:20-17:50 Invited - 1	V. Yadav Vikram Sarabhai Space Centre, Trivandrum	Imaging of x-ray radiation emitted from astrophysical plasma sources using shadow masks
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17:50-18:20 Invited-2	M. P. Bora Guwahati University	Probing the planetary nebulae
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18:20-18:32 Oral -1	Shishir Priyadarshi Benarash Hindu University	Monitoring of ionospheric plasma bubbles and TEC using GPS data at Varanasi
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18:32-18:44 Oral -2	I A Ansari Aligarh Muslim University	Effect of plasmopause on Kp dependence of Pc4 frequencies at low latitudes in India
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18:45-20:30 PSSI GBM, Election, Dinner

December 10, 2010

8:00-9:00 BREAKFAST

09:00 - 11:15 ORAL SESSION - 05 Laser Plasma (LP)

09:00-09:50 Plenary	V. K. Tripathi IIT Delhi	Laser Driven Proton Acceleration
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09:50-10:20 Invited	Alika Khare IIT Guwahati	Laser Induced Breakdown at Solid-Liquid Interface
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10:20-10:50 Invited	Himanshu Singhal RRCAT, Indore	Recent results in high order harmonic generation from laser produced plasma plumes
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10:50-11:02 Oral -1	Ajay Upadhaya Mumbai University	Exploring the electron acceleration using self-guiding mechanism in bubble regime of laser plasma interaction
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11:02-11:14 Oral -2	M Kumar RRCAT, Indore	Efficient high order harmonic generation from plasma plumes of carbon containing materials
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11:15-11:30 TEA

11:30-13:00 POSTER SESSION -3 Laser Plasma & Industrial Plasma

13:00-14:00 LUNCH

14:00-16:15 ORAL SESSION - 06 Exotic Plasma (EP)

14:00-14:50 Plenary	G. Ravindra Kumar TIFR, Mumbai	Extreme Light for Exotic Plasma
14:50-15:20 Invited - 1	Shasank Chaturvedi BARC, Visakhapatnam	High-Velocity impact for determining materials properties under extreme conditions: simulation and experiment
15:20-15:50 Invited - 2	B. K. Saikia CPP Guwahati	Studies on dust charging in hot cathode discharge plasma
15:50-16:02 Oral -1	Sourav Bal Jadavpur University	Plasma instabilities in presence of strongly coupled variable charged dust particles: aspects of collision and recombination
16:02-16:14 Oral -2	Debabrata Banerjee SINP, Kolkata	Viscosity gradient driven instability of 'shear mode' in a strongly coupled dusty plasma

16:10-16:30 TEA

16:30 - 18:45 ORAL SESSION - 07 Plasma Diagnostics (PD)

16:30-17:20 Plenary	R. Jha IPR, Gandhinagar	Advances in plasma diagnostics
17:20-17:50 Invited - 1	J. A. Chakera RRCAT, Indore	Recent experimental studies on ultrahigh intensities Laser-plasma interaction at RRCAT
17:50-18:20 Invited-2	Mainak Bandyopadhyay IPR, Gandhinagar	An overview of negative ion diagnostics
18:20-18:32 Oral -1	Soham Mazumder SMIT, Sikkim	Digital image processing technique as a diagnostic for atomic processes in plasmas
18:32-18:44 Oral -2	Debnaina Chakraborty BIT, Mesra	Plasma optical emission spectroscopy diagnostic of rf

magnetron sputter deposition
during titanium carbide thin film
formation

17:00 - 20:30 Cultural Function & Dinner

December 11, 2010

8:00-9:00 BREAKFAST

09:00 - 11:15 ORAL SESSION - 08 Computer Modeling (CM)

09:00-09:50 R. Srinivasan Numerical modeling of plasma
Plenary IPR, Gandhinagar

09:50-10:20 Manoj Warriar Steady state, 1-d Fokker-
Invited BARC, Vishakapatnam Planck model of a dc glow
discharge sheath with plasma
surface interactions

10:20-10:50 Bipul J. Saikia Preliminary study of shielding
Invited CPP Guwahati performance of IN DEMO
LLCB blanket

10:50- 11:15 TEA

**11:15-12:45 POSTER SESSION - 4 Plasma Diagnostics and
Exotic Plasma**

12:45 - 13:45 LUNCH

13:45 - 14:00 Concluding Session and Tea

14:00 -16:00 River Cruise on the Brahmaputra

14:00 Departure to Kaziranga

