

**26<sup>th</sup> National Symposium on  
Plasma Science and Technology  
(PLASMA- 2011)**

December 20-23, 2011

**PRE- REGISTRATION FORM**

(Please write or type in block letters and return by post/email:  
plasmaconference2011@gamil.com by August 20, 2011)

Name: \_\_\_\_\_

Designation: \_\_\_\_\_

Affiliation: \_\_\_\_\_

Address: \_\_\_\_\_

Email: \_\_\_\_\_

Phone: \_\_\_\_\_

I intend to attend the symposium

I intend to attend and present a paper

Accommodation will be needed

I shall be accompanied by \_\_\_\_\_ persons

I wish to visit Rajgir/Nalanda after the symposium

I wish to visit River Ganga aarti after the symposium

Title of the Paper: \_\_\_\_\_

Authors: \_\_\_\_\_

Category:                      Oral                      Poster

PSSI Member:                      Yes                      No

PSSI Membership No.: \_\_\_\_\_

Date: \_\_\_\_\_ Signature \_\_\_\_\_

**Communication Address:**

**1. Prof. B N Giri**  
Chairman, PLASMA-2011  
Birla Institute of Technology, Patna-800014, Bihar  
E-mail: bngiri\_bit@yahoo.com  
Mobile: +91-9431326735  
Tel: 0612- 2223538(O)

**2. Dr. S.K. Sinha**  
Convener, PLASMA-2011  
Birla Institute of Technology, Patna-800014, Bihar  
E-mail: drsanjay1011@gmail.com  
Mobile: +91-9431326760  
Tel: 0612-2223545 (O)

**Website: [www.bitmesra.ac.in](http://www.bitmesra.ac.in); [www.pssi.in](http://www.pssi.in)**

**About the Symposium:**

The 26<sup>th</sup> National Symposium on Plasma Science and Technology (PLASMA-2011) is being organized by Birla Institute of Technology, Patna Campus (An Extension Centre of BIT Mesra, Ranchi) in association with the Plasma Science Society of India (PSSI) during December 20-23, 2011. Like every year the Symposium is designed to provide a forum for young researchers in Plasma Science & Technology to interact with eminent Plasma Scientists from India and abroad and to present their work. The scope of the Symposium includes frontline research in basic plasma physics as well as significant advances in Plasma Technology.

**Focal theme of the Symposium**

Possibility of Plasma Science in Industrial Application and Environment Cleaning is one of important issue which require the attention of all concerned specially the students. Focal theme of the symposium will be Industrial Application of Plasma as well as Plasma in Clean Environment with special consideration of the state of Bihar.

**Scientific Programme:**

The scientific programme of the four-day symposium will consist of plenary talks, invited topical lectures, contributed oral and poster presentation in the following areas of Plasma Science and Technology:

1. Basic Plasma Physics, Simulation and Modeling (BP)
2. Nuclear Fusion and Technology (NF)
3. Space and Astrophysical Plasma (SA)
4. Exotic Plasma, Dusty, Quark and Gluon Plasma etc. (EP)
5. Laser Plasma Interaction and Beam Physics (LP)
6. Industrial Applications of Plasma and Plasma in Clean Environment (IP)
7. Plasma Diagnostic (PD)

**Date and Venue:**

The Symposium will be organized during December 20-23, 2011 at Birla Institute of Technology, Patna Campus, Bihar.

**Plasma Science Society of India:**

Established in Ahmadabad in 1978, the Plasma Science Society of India (PSSI) has been active in providing a forum for interaction among academicians, scientists, and technologists in India who are working in the area of Plasma Science & Technology. PSSI also supports activities in the form of fellowship, awards and recognition in the area of Plasma Science & Technology in India. PSSI has been conducting its annual symposium for the past 25 years at various institutions all over India in its effort to promote and encourage research activities in Plasma Science and Technology.

**PSSI award 2011:**

PSSI in conjunction with external sponsors has instituted many awards for outstanding research works in the area of Plasma Science & Technology. The following awards will be presented during the conference:

**1. The Buti Young Scientist Award**

Two awards of Rs. 5000/- each. One of these awards is exclusively for participants from universities/colleges. Upper age limit is 35 Years. The application and manuscript of the work to be presented for the Buti Award should be sent to the Chairman, Symposium Organizing Committee.

**2. Six poster awards have been instituted for the best paper in the following categories:**

A. Z. H. Sholapurwala Award for fusion research: Two awards instituted by Mr. Z. H. Sholapurwala, M. D. of M/S Zeonics D & A Engg. (P) Ltd, Bangalore for Poster presentation on the basis of outstanding work on engineering aspects of fusion science and technology done in India.

B. PLASMA- 2011 poster awards: Four posters awards from different topics of Symposium will be selected.

**Abstract Submission/Registration:**

Scientists/researchers/students desirous of participating in this symposium are requested to send the duly filled pre-registration form to the Convener. Photocopies of pre-registration form can be used if required. All authors are requested to send one-page electronic abstract (A4, Times New Roman, Font size 12, Single space, MS word 2003/2007) with title, authors' affiliation(s), etc. positively by Sept. 20, 2011. Please indicate your subject category abbreviation while submitting the abstract. Kindly follow the following sequence: Topic Category, (Science/Engineering)-Presentation mode (oral/poster). For list of topics, see 'Scientific Programme' section of this brochure. For example 'BP' for Basic Plasma Physics, Simulation and Modeling.

**Proceeding and Further Information:**

Efforts would be made to publish the invited talks and the contributed papers in the form of Proceeding of the Symposium and make it available as a preprint volume at the Symposium. Further information will be provided in the second announcement.

**Deadlines:**

Pre-Registration: Aug. 20, 2011.  
Abstract Submission: Sept. 20, 2011.

**Registrations Fee:**

All delegates including chairpersons and invited speakers are required to register for the Symposium. The registration fee structure is as follows:

PSSI Members:                      Rs. 1000/-  
Non Members:                      Rs. 1200/-  
Industry:                              Rs. 2000/-  
Students:                              Rs. 500/-

Registration fee may be sent through demand draft or online transfer (account number to be supplied on request) in favor of **Birla Institute of Technology**, payable at **Patna**.

**Travel Assistance:**

PSSI offers financial assistance (to-and-fro fare) to those students, research fellows and junior faculty members from colleges/universities who are member of PSSI and are presenting papers at the Symposium. Separate request for financial assistance should be sent to the Convener along with the abstract.

**Accommodation:**

For delegates coming from outside Patna, all efforts will be made to accommodate them in Hotels/Hostels/Guest House on twin sharing basis. Students will be accommodated in hostels at low-cost accommodations. Persons needs accommodation must indicate in the Pre-registration form.

**Location:**

Patna, the capital city of Bihar, is situated on the south bank of the holy river, Ganga. The place finds mention in the history from the days of Mauryan Period when it was known as Patliputra. It was the seat of power during the Mauryan dynasty when emperors like Chandragupta Maurya and Ashok ruled a vast empire, stretching from the Bays of Bengal to Afganistan. Patna is well connected to all parts of the country by train, road and air. The climate of Patna in December is pleasant with maximum and minimum temperature in the range of 10<sup>0</sup>-25<sup>0</sup>.

Birla Institute of Technology, Patna Campus (BIT Patna) is an extension centre of BIT Mesra (a deemed university under section 3 of UGC Act 1986). It was established in 2006 on the basis of a Memorandum of Understanding (MoU), signed between Government of Bihar and BIT Mesra under Public-Private Partnership (PPP) mode. The institute has sprawling campus of 25 acres near the Jai Prakash Narayan International Airport of Patna. At present, the Institute offers BE programmes in seven engineering branches. The Campus includes 5.25 lacs sq.ft of academic space, adequate hostel accommodation for 1200 students and residential facilities for staff, dispensary, playground, gymnasium and a guest house. The infrastructure includes well-equipped, modern laboratories, workshop, a library with over 25,000 books, periodicals, national & international journals & other research material. The campus is Wi-Fi enabled.

**Places of Tourist Interest near Patna:**

**Rajgir:**

Rajgir about 100 km far from Patna, It is one of the most important tourist places in India. Being located in a valley,





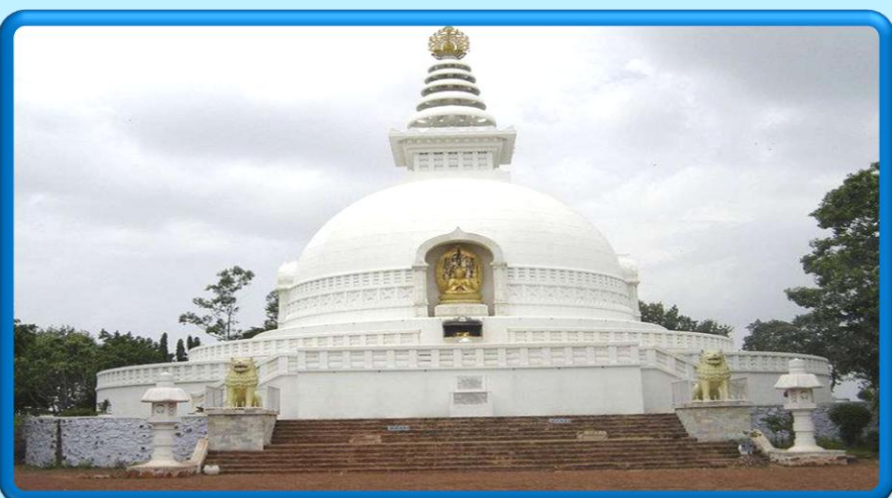
Rajgir is a very scenic place. It is covered with lush green forest which adds to the beauty of the place. Rajgir was the capital of the Magadh Mahajanpad (State) when Patliputra was not formed. In those days it was called Rajgrih. Rajgir or Rajgriha means the home of Royalty. This place has been associated with Lord Buddha and Buddhism. Buddha not only spent many years in Rajgir but also delivered sermons here and proselytized emperor Bimbisara at the Griddhakoota hill.

Rajgir also has some very beautiful Hindu and Jain temples. Not only as a place for worship, Rajgir has come up as health and winter resort with its warm water ponds. These ponds are said to contain some medicinal properties which help in the cure of many skin diseases. The added attraction of Rajgir is the Ropeway which takes you uphill to the Shanti Stupa and Monasteries built by the Japanese Devotees on top of the Ratnagiri hills.



#### **Shanti Stupa:**

The Vishwa Shanti Stupa is located on a 400 meter high hill. The stupa is built in marble and on the four corners of the stupa are four glimmering statues of Buddha. To reach the top of this hill one has to come through the "Ropeways". This place is also called the Griddhakoot.



#### **Nalanda**

A nondescript locale in the outskirts of Rajagriha, Nalanda in Bihar represents a glitzy visage of Indian renaissance. A hot seat of knowledge and learning, Nalanda boasts of a rich culture and tradition that has gained accolades world wide. Established in the 5th century, the ancient University of Nalanda flourished under the patronage of the various rulers. This tiny village was the favourite place of Lord Buddha and Mahavira who lived here for several years.

There is a fabulous legend behind the name Nalanda, which narrates how this village got its name. It goes like this that the place where the monastery was going to be constructed was the abode of a serpent and while digging the foundation the serpent got injured. The clairvoyants of that time observed that the monastery that would have been constructed in that place would be renowned for a long. Later this Monastery turned to be a great institution of knowledge, whose unparalleled credentials gave it a unique seat in the entire history of the nation.



#### **Takht Shri Harmandir Sahib:**

It occupies an important place for the Sikhs and was constructed by the ruler of Punjab, Maharaja Ranjit Singh. It is the birthplace of Guru Gobind Singh Ji and is also popularly known as 'Takht Shri Patna Sahib'.



#### **National Advisory Committee**

P K Kaw	IPR Gandhinagar	Chairman
A Khare	DU Delhi	Member
P K Barhai	BIT Mesra	Member
A Bhattacharya	IIG Navi Mumbai	Member
S V Boraskar	PU Pune	Member
A K Das	BARC Mumbai	Member
G Ravindra Kumar	TIFR Mumbai	Member
H R Krishnamurthy	IISc Bangalore	Member
J N Goswami	PRL Ahmedabad	Member
K S Goswami	CPP Guwahati	Member
C Joyanti	IASST Guwahati	Member
P D Gupta	RRCAT Indore	Member
P I John	IPR Gandhinagar	Member
I Sekar	SINP Kolkata	Member
A Sen	IPR Gandhinagar	Member
C S Shukre	RRI Bangalore	Member
M P Srivastava	DU Delhi	Member
G Sunderrajan	ARCI Hyderabad	Member
V K Tripathi	IIT Delhi	Member
K S Dubey	BHU Varanasi	Member
A K Bhowmick	IIT Patna	Member

#### **Scientific Advisory Committee**

A Das	IPR, Gandhinagar	Chairman
R Pal	SINP Kolkatta	Member
R A V Kumar	IPR Gandhinagar	Member
H Bailung	IASST Guwahati	Member
S Mukherjee	IPR Gandhinagar	Member
S K Sinha	BIT Patna	Member

#### **Local Organizing Committee**

A K Chakrabarty	BIT Mesra	Patron
P K Barhai	BIT Mesra	Mentor
B N Giri	BIT Patna	Chairman
D Jairath	BIT Mesra	Co-Chairman
S K Sinha	BIT Patna	Convener
K P Tiwary	BIT Patna	Co-Convener
B Bhushan	BIT Patna	Coordinator
P Kour	BIT Patan	Co-Coordinator

#### **Local Apex Committee**

S N Guha (AU Patna)	B P Bhatt (ICAR Patna)
M K Chaudhary (BVC Patna)	M Kumar (CPRI Patna)
A K Singh (DST Bihar)	S H Mintu (BCST Patna)
J K Singh (MCSRC Patna)	A Nath ((MCSRC Patna)
S P Lal	K Lal
N Bhattacharya	K Sharma
G Pathak	Shahiruddin
A Ranjan	S K Sinha
S Kumar	K Satish
K C Bajpai	A Narayan
S S Yadav	

## **26<sup>th</sup> National Symposium on Plasma Science & Technology**

PLASMA- 2011  
December 20-23, 2011



Organized by  
Birla Institute of Technology, Mesra,  
Patna Campus, Bihar  
[www.bitmesra.ac.in](http://www.bitmesra.ac.in)



In association with  
Plasma Science Society of India  
[www.pssi.in](http://www.pssi.in)

FIRST ANNOUNCEMENT  
AND CALL FOR ABSTRACTS

