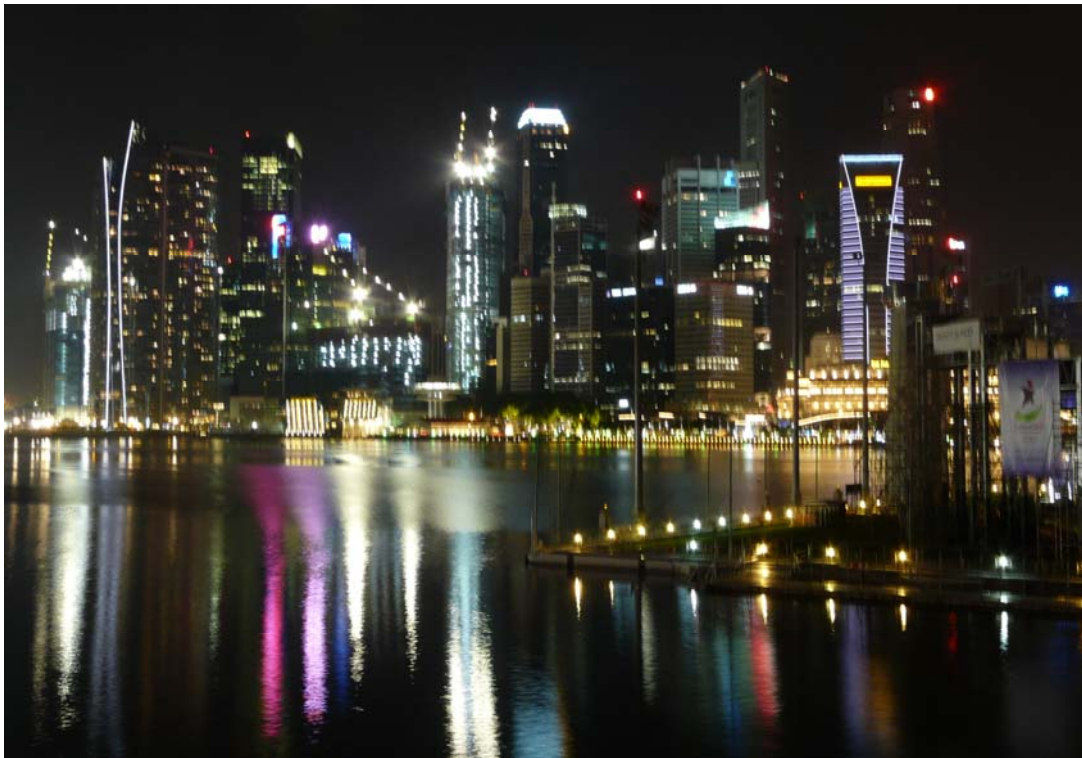


# **5<sup>th</sup> INTERNATIONAL CONFERENCE ON THE FRONTIERS OF PLASMA PHYSICS AND TECHNOLOGY**

**18-22 April 2011, Singapore, Republic of Singapore**

## **FIRST ANNOUNCEMENT**



### **Vibrant Singapore**

**CONFERENCE DIRECTORS:** Tara Desai (Chair), H.C. Pant and P.V. Patil.

**LOCAL ORGANIZING COMMITTEE:** R.S. Rawat (Chair), P.Lee, S.Xu, T.L.Tan, S.V. Springham and S.H. Saw

**Conference is being organized in  
co-operation with the:**



Host institutes:

National Institute of Education, Nanyang Technological University, Singapore

INTI International University, Nilai, Malaysia

National Research Institute for Applied Mathematics, Bangalore, India

**INTERNATIONAL ADVISORY COMMITTEE:** Sharkov B.(Chair, Russia), Azechi H. (Japan), Lee S. (Singapore), Perlado M. (Spain), Rudraiah N. (India) and Varandas C. (Portugal).

**SCIENTIFIC PROGRAMME COMMITTEE:** Hoffmann D.H.H. (Chair, Germany), Deutsch C. (France), He X. T. (Rep. China), Kalal M. (Czech Republic), Kamendje R. (IAEA), Kong H.J (Korea), Malka V. (France), Pegararo F. (Italy), Saw S. H. (Malaysia) and Shivakumar I.S. (India)

### **CONFERENCE OBJECTIVES:**

Progress in science and technology has been strongly contributing to the development of social, economical, intellectual aspects and overall growth in every society. In the recent years, through the fppt-conference series, a strong networking is being established with noted credentials among academicians, industries, researchers, technologists etc. from many diverse fields including biology, chemistry, medicine, physics etc. and technological aspects. One of the major objectives of this conference series is to highlight the inter-connectivity aspects. Special attention is focused on understanding the advancing complex-fundamental issues, technologies and further investigating the interdisciplinary fields. Plasma physics is a very rapidly emerging multi featured area with widespread approach to applications and technological developments by providing an extraordinary opportunity to the researchers.

This is the 5<sup>th</sup> conference in the series of fppt “International conference on the Frontiers of Plasma Physics and Technology” and the series is being organized in different developing countries to encourage and involve a large number of local researchers to participate in the conference. Preceding conferences were held in Bangalore 2002, Goa 2005 (India), Bangkok 2007 (Thailand) and Kathmandu 2009 (Nepal). Endeavour of the series is to provide an exceptional opportunity to the researchers to directly interact with the worldwide experts and acquaint with the latest research topics. The real challenge is to achieve the goal in a meaningful and significant way to feed the intellectual minds to place themselves in global science. International cooperation has a crucial role to play in enhancing parity linking the developing and developed countries.

### **CONFERENCE WILL FOCUS ON THE FOLLOWING TOPICS:**

Emphasis of the conference will be on all the Frontier topics of plasma physics and technologies which are classified in the following three categories.

1. Fundamental plasmas: Advances in plasma sources, plasma diagnostics, Astrophysical, cosmic and space plasmas, Condensed and extreme state matter, High Energy Density Matter, Laboratory astrophysical, planetary, supernova, turbulent plasmas, etc.
2. Innovative trends in Applications and Technologies: Advances in particle /photon acceleration, Lasers, Nanotechnologies, Novel radiation sources and applications in Biology, Chemistry, Environment, Health, Industries, Safety, etc.
3. Advances in Nuclear energy: Development of ultra Laser pulses, Laser-plasma interaction, Magnetically confined plasmas, Inertial fusion plasmas, Nuclear physics under transient state, Recent progress in Fusion studies, Target and reactor physics, Unconventional energy sources, Z pinch, etc.

Several international experts in the field of plasma physics have been invited. Some of the confirmed speakers include: Borghesi M. (UK), Borisenko N. (Russia), Cvelbar U. (Slovenia), Deutsch C. (France), Fälthammar Carl-Gunne (Sweden), Fedosejevs R. (Canada), Fortov V. (Russia), He X.T. (P.R.China), Hoffmann D.H.H. (Germany), Glenzer S. (USA), Golubev A. (Russia), Jaroszynski D. (UK), Kalal M. (Cz.Rep), Ke Lan (P.R.China), Kong H.J. (Korea), Krokhin O. (Russia), Kuehl T. (Germany), Lee S. (Singapore), Li He Ping (P.R.China), Linke J.

(Germany), Malka V. (France), Mendonca J.T. (Portugal), Morfil G. (Germany), Murakami M. (Japan), Murphy T. (Australia), Nagler B. (USA), Ostrikov K. (Australia), Ozaki. T. (Canada), Pegoraro F. (Italy), Perlado M. (Spain), Petrov O. (Russia), Ramazanov T. (Rep. Kazakhstan), Rawat R.S. (Singapore), Renner O. (Cz. Rep), Rosmej O.(Germany), Rudraiah N. (India), Saw Sor Heoh (Malaysia), Schlanges M. (Germany), Sharkov B. (Russia), Shivakumar I.S. (India), Starodub A. (Russia), Tucker R. (UK), Ulrich A. (Germany), Van Oost G. (Belgium), Varandas C. (Portugal), Varentsov D. (Germany), Walter R. (USA), Weber S. (France), Wintner E.(Austria), Zavestovskay I. (Russia) etc.

### **CONFERENCE VENUE:**

Singapore, Republic of Singapore

### **ABOUT SINGAPORE:**

Singapore is an island city-state about 140 kilometres north of the equator at the southern tip of Malaysia. With a population of about 5 million comprising of Chinese, Malays, Indians and other nationalities, it is the second most densely populated country in the world. Malay, Mandarin, Tamil and English are the 4 official languages. English is the common language spoken by all. Signs in Singapore are also written in English. Climate is Tropical and sunny during April.

The earliest written record of Singapore goes back to the third century in Chinese describing the island as “Pu Luo Chung” which means Island nestled at the end”. Origin of the name Singapore has an enchanting story. Prince of Srivijaya who landed on the island in 13th century saw a lion and took this as an auspicious prophecy and established a settlement called Singapura which means "City of Lion" in Sanskrit. During 16th to 19th centuries European colonial powers including Portuguese, Dutch and British established their monopoly. For a brief period during World War II, Japanese too occupied the territory.

On 9th August 1965 Singapore separating from Malaysia emerged as Republic of Singapore and adopted Singapore dollar as the local currency. Present day Singapore is a dynamic city rich in contrast and color where one can find a harmonious blend of culture, cuisine, arts and architecture. Singapore has grown into a thriving centre of commerce and industry. Brimming with unbridled energy and bursting with exciting events, the city offers countless unique, memorable experiences waiting to be discovered. Visa may be required for visitors from some countries. Details are available from the Singapore Immigration and Checkpoints authority (website: <http://www.ica.gov.sg/index.aspx>). Visa can be obtained from overseas Singapore Embassy/ Consulate offices.

### **CONFERENCE REGISTRATION:**

Kindly submit the registration form prior to 01 Sept. 2010 to the conference secretary on [fppt-5@libero.it](mailto:fppt-5@libero.it). This is necessary for official record and for further communication with delegates.

### **ABSTRACT SUBMISSION:**

One page abstract to be submitted electronically to the conference Secretary prior to 1<sup>st</sup> Oct. 2010 and invited speakers are requested to submit the abstract of their talk not later than 1<sup>st</sup> Dec. 2010 on email: [fppt-5@libero.it](mailto:fppt-5@libero.it).

There will be plenary, invited, oral lectures and poster sessions.

### **ABSTRACT FORMAT:**

Paper size A-4. Title of the abstract in capital letters, bold, centred using Times new roman with font size 14. Leave 3 line spaces. Authors name in font size 12 and centred. Leave 2 line spaces. Institute's name in font size 10 and centred. 3 line spaces before commencing the abstract with font size 12 (justified). Text size in 160 x 210 mm with single spacing. Please provide Address, Fax number and e-mail of the corresponding author at the end of the abstract. Kindly send

the abstract in PDF format. All the abstracts will be peer reviewed under the supervision of scientific program committee. Kindly prepare the abstract as per the guidelines.

### **CONFERENCE REGISTRATION FEE:**

Conference is self-financed. Delegates are requested to make their own financial arrangements. However, some financial assistance will be available to support deserving young researchers from developing countries. Conference registration fee: Euro 350 (if paid on or before Dec. 01, 2010) and Euro 380 (late registration). Euro 200 for young researchers from Singapore.

Conference registration fee includes conference material, book of abstracts, welcome party, banquet, and free entry to all the scientific sessions. Registration fee may be kindly deposited to the conference account and details will follow in the next announcement.

### **PUBLICATIONS:**

Papers presented during the conference will be published on CD-ROM. Further, some of the selected papers containing the latest results and relevant to the readers of "Laser and particle beams" may be judged for publication as regular papers in LPB in consultation with the editor in chief, LPB. Details will follow in the next announcement. *We solicit new results.*

### **FINANCIAL ASSISTANCE:**

Conference is self financed and funds are limited. However, partial travel grants and living expenses to a few deserving participants from the developing countries may be provided. Aspirants willing to apply for such grant may send their request to [fppt-5@libero.it](mailto:fppt-5@libero.it) on the enclosed form on or before Dec. 01, 2010 along with a recommendation letter from their supervisor.

### **LIVING EXPENSES AT THE CONFERENCE SITE:**

An economical and decent accommodation package (6 nights, 17-22 April 2011) is being arranged through the conference agent and details will follow in the next announcement. However, participants are welcome to make their own living arrangements if they opt to do so.

### **IMPORTANT DATES:**

- |  |   |  |
|--|---|--|
| • First announcement   | - | Jun. 30, 2010                            |
| • Preliminary registration                                       | - | Sep. 01, 2010                            |
| • Abstract submission  | - | Oct. 01, 2010                            |
| • Author notification about the abstract                         | - | Nov. 01, 2010                            |
| • Second announcement  | - | Nov. 15, 2010                            |
| • Early (Euro 350) registration fee                              | - | Dec. 01, 2010                            |
| • Request for finance*   | - | Dec. 01, 2010                            |
| • Information on grant to the applicants                         | - | Feb. 01, 2011                            |
| • Final announcement and scientific program                      | - | Mar. 01, 2011                            |
| • Late registration fee Euro 380 on desk                         | - | Apr. 18, 2011                            |
| • Manuscript submission<br>(2 copies along with a diskette / CD) | - | Apr. 18, 2011<br>At the conference desk. |

\* Applicable to young researchers from developing countries.  
Conference web site will be soon available.

For further enquiry please write to conference secretary on: [fppt-5@libero.it](mailto:fppt-5@libero.it)  
We look forward to meeting you in Singapore.

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PHYSICS AND TECHNOLOGY**

**18-22 April 2011, Singapore, Republic of Singapore**

**REGISTRATION FORM**

(Last date for the receipt of the registration form is Sep. 01, 2010)

1. Name of the participant  
Family name :  
First name :  
Middle name :  
Title (Prof. Dr. Mr Ms.) :
2. Nationality :
3. Address for Correspondence :  
Institute address :  
Fax :  
Tel :  
E-mail :
4. Date of Birth :
5. Gender (Male / Female) :
6. Title of the Abstract :
7. Category of the Topic, CAT-1/2/3 :
8. Date of payment of registration fee :
9. Name(s) of the accompanying person(s) :

Kindly send the registration form to the conference secretary, [fppt-5@libero.it](mailto:fppt-5@libero.it)

Further announcement will be sent to all the registered participants.

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PHYSICS AND TECHNOLOGY**

**April 18-22, Singapore, Republic of Singapore**

**FINANCIAL REQUEST FORM**

Applicable only for the young researchers from developing countries

(Last date for the receipt of the form is Dec. 01, 2010)

1. Name of the participant  
Family name :  
First name :  
Middle name :
2. Nationality :
3. Address for Correspondence :  
Institute address :  
Fax :  
Tel :  
E-mail :
4. Date of Birth :
5. Gender (Male / Female) :
6. Title of the Abstract :
7. Category of the Topic, CAT-A/B/C :
8. Date of payment of registration fee :
9. Financial request for  
a. Travel : Full / Partial  
b. Living : Full / Partial  
c. Registration fee : Full / Partial

Partial financial support for a,b,c may be feasible due to our limited budget.

Kindly send the finance request form to the conference secretary by email: [fppt-5@libero.it](mailto:fppt-5@libero.it)

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