



**8th International Conference on the
Frontiers of Plasma Physics and Technology (FPPT-8)**



3-7 April 2017, Viña del Mar, Valparaíso, Chile

Hosted by Comisión Chilena de Energía Nuclear, Casilla 188-D, Santiago, Chile

Theme: Promoting sustainable research and technology in developing countries through international cooperation

Conference directors: Tara Desai (Chair, FPPT-8) and P.V. Patil.

National Organizing Committee: Leopoldo Soto (Chair, NOC), Pamela Quintuprai, Gonzalo Avaria, Biswajit Bora and José Moreno.

International Advisory Committee: M. Perlado (Chair, Spain), F. Beg (USA), R. Fedosejevs, (Canada), V. Fortov (Russia), R. Galvao (Brazil), V. Malka (France), A. Sen (India) and V. Stancalie (Romania).

International Scientific Committee: D. D. Hoffmann (Chair, Germany), A. Fukuyama (Japan), S. Kar (UK), Ke Lan (PR China), F. Pegoraro (Italy) and B. Sharkov (Germany).

The 8th International Conference on the Frontiers of Plasma Physics and Technology (FPPT-8) is being organized in Viña del Mar, located in the province of Valparaíso, Chile during 3-7 April 2017. Earlier seven conferences in the series were held in India (Bangalore-2002 and Goa-2005), Thailand (Bangkok-2007), Nepal (Kathmandu-2009), Singapore (2011), Botswana (Gaborone-2013) and India (Kochi-2015). Success of the preceding conferences has given us a deep satisfaction and encouraged us to move beyond the borders of Asia, Africa and establish an alliance with Latin American countries.

Purpose:

Endeavour of the FPPT Conferences series and motivation of organizing in different developing countries has been to provide an opportunity to local, young and enthusiastic researchers to have an opportunity of a close interaction with international experts and acquaint with the latest research areas. The real challenge is to achieve the goal in a meaningful and significant way to feed the intellectual young minds budding in developing countries with limited resources and to position them in a global scenario. International cooperation has a crucial role to play in enhancing parity linking the developing and developed countries. We are trying to tackle this problem within our capability with the help of likeminded international experts in Plasma Physics. Our enthusiasm, endeavour and accomplishment of the conference series have been well admired by the delegates from developing and developed countries including the sponsors.

Thematic areas and topics covered but not restricted to:

Emphasis of the conference will be on all the frontier topics of plasma physics and technologies and classified in the following three categories but not limited to.

Thematic area 1: Fundamental plasmas: Astrophysical, cosmic and space plasmas, condensed and extreme state matter, high energy density matter, laboratory astrophysical, planetary, quantum plasmas, supernova, turbulent plasmas, etc.

Thematic area 2: Advances in Nuclear Energy: 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, hybrid (fission plus fusion) reactors, nuclear waste management, etc.

Thematic area 3: Innovative trends in applications and technologies: Generation of novel plasma, neutron, laser and x-radiation sources, advances in particle /photon acceleration, progress in nanotechnologies, laser-plasma interaction, development of high accuracy diagnostics, applications in biology, chemistry, environment, health, industries, safety, etc.

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

Preliminary list of the confirmed speakers include:

Bartnik A. (Poland), Beg F. (USA), Benredjem G. (France), Cvelbar U. (Slovenia), Deutsch C. (France), Fedosejevs R. (Canada), Filinov V. (Russia), Fortov V. (Russia), Fukuyama A. (Japan), Galvavo R. (Brazil), Gericke D. (UK), Ghoreneviss M. (Iran), Graves D. (USA), Gupta S. (India), Hegelich M. (USA), Hoffmann D. (Germany), Jaroszynski D. (UK), Kar S. (UK), Kong H.J. (Korea), Kraeft W. (Germany), Krasnyuk I. (Russia), Lifschitz A. (France), Malka V. (France), Mendonca T. (Portugal), Miloch W. J. (Norway), Mulser P. (Germany), Nagler B. (USA), Neely D. (UK), Ozaki. T. (Canada), Pegoraro F. (Italy), Perlado M. (Spain), Piriz R. (Spain), Riconda C. (France), Sakagami H. (Japan), Sen A. (India), Sharkov B. (Germany), Vinko S, (UK), Walter R. (USA), Zelenar B. (Russia), Zvorykin V. (Russia) etc.

Forth coming important dates:

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|---|-------------------------|
| • Preliminary registration | Nov. 01, 2016 |
| • Abstract submission | Nov. 15, 2016 |
| • Author notification on the abstract | Dec. 15, 2016 |
| • Request for financial support* | Dec. 20, 2016 |
| • Early (Euro 500) registration fee | Jan. 10, 2017 |
| • Information on grant to the applicants | Jan. 25, 2017 |
| • Final announcement and scientific program | Feb. 15, 2017 |
| • Late reg. fee Euro 550 on desk (TC preferred) or cash | Apr. 03, 2017 |
| • Manuscript submission | Apr. 03, 2017 |
| • (2 copies along with a diskette / CD) | At the conference desk. |

*Applicable to young researchers from developing countries. Application should be made in the appended prescribed form along with a letter of recommendation from the supervisor.

Abstract Submission:

One page abstract to be submitted electronically to the conference Secretary prior to 15th Nov. 2016 and invited speakers are requested to submit the abstract of their talk not later than Dec. 15, 2016 to the conference secretary on: office@fpptseries.org

Abstract format:

Paper size: Standard, 21 cm × 29.7 cm (A4). Page set-up: Margins: top 2.5 cm; bottom 2.5 cm; left/right 2.5 cm. Title of the abstract in capital letters, bold, centred using Times new roman with font size 14. Leave 2 line spaces. Authors name in font size 12 and centred. Leave 1 line spaces. Institute's name in font size 10 and centred. 2 line spaces before commencing the abstract with font size 12 (justified). Text size should be within 160 x 210 mm with single spacing. References if any should be given in Arabic number in square bracket. Please provide Address, Fax number and e-mail of the corresponding author at the end of the abstract. Kindly prepare the abstract as per the guidelines in editable MS Word or equivalent software for the ease of necessary editorial work. All the abstracts will be peer reviewed under the supervision of scientific program committee.

Conference registration fee:

Conference is self-financed. Delegates are requested to make their own financial arrangement.

- | International Delegates | |
|--------------------------|------------------------------|
| • Early Registration | : Euro 500/ |
| • Late Registration | : Euro 550/ |
| • International students | : Euro 300/ |
| | |
| • Chilean Delegates | : Euro 500 equivalent in CLP |
| • Chilean students | : Euro 300 equivalent in CLP |

Registration fee covers attendance to all the sessions, conference material, daily two coffee breaks during the conference, welcome reception, conference banquet.

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. Young aspirants willing to apply for such grant may send their request on the enclosed prescribed form to director@fpptseries.org on or before Dec. 20, 2016.

Conference venue and accommodation: Organizers are making effort in finalizing a suitable conference venue and accommodation which will be communicated later.

Visa to Chile: For Visa requirement / not-requirement procedure; visit web site or contact your nearest Chilean diplomatic mission <https://chile.visahq.com/>

Delegates and accompanying persons requiring visa to Chile are requested to contact Prof. L. Soto, lsoto@cchen.cl at least 3 months in advance and necessary invitation letter will be despatched in Feb. 2017.

Chile Time zone: CEST is 5 hours ahead of Chile.

Climate: The month of April is characterized by gradually falling temperatures with an average high: 20 °C, Average low: 15 °C, Average Precipitation: 70mm.

General information about Chile: “Viña del Mar” meaning "Vineyard of the Sea" is a city on Pacific coast located within the Valparaíso Region in Chile. Chile, appearing like a strip has an average width 350 km and length 4,300 km stretching between the Andes and the Pacific Ocean. It is surrounded by Peru, Bolivia and Argentina. One-third of its surface is covered by the towering ranges of the Andes. Its current shape is since late 1880s when it captured its southern territories.

There are several theories unfolding the origin of its name. Chile may derive its name from the indigenous “Mapuche word” chilli which means “where the land ends”, “the deepest point of the Earth”, “sea gulls” etc. The territory of Chile seems to have been populated since 12,000 B.C. by the migrating “Native Americans” in search of the fertile valleys. It was a Spanish colony from 1540 till its independence in 1820.

Chile has a wide variety of exotic foods including seafood, beef, fresh fruit and vegetables. Since colonial times, the cuisine is the fusion of traditional ingredients (mostly Mapuche) with Spanish culture and later heavily influenced by the Italians, Germans and French due to European immigration.

Currency is Chilean peso (CLP) and often presented with the symbol \$. Chile has established itself as an economic power in South America and a political leader in the continent.

Chileans are very friendly and hospitable.

For exciting visit check: <http://chiletourism.travel/en>

Contact details:

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We look forward to meeting you in Viña del Mar, Valparaíso, Chile

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Registration Form

(Last date for the receipt of the registration form is Nov. 01, 2016)

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, office@fpptseries.org

Further announcement will be sent to all the registered participants.

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Financial request form

Applicable only for young researchers from developing countries

(Last date for the receipt of the form is Dec. 20, 2016)

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

Due to very limited available resources only deserving requests shall be considered for partial support for either a, or b or c.

Kindly send the finance request form to the conference secretary by email:

director@fpptseries.org
