



**10<sup>th</sup> International Conference on  
FRONTIERS OF PLASMA PHYSICS AND TECHNOLOGY  
(FPPT-10)**

**13-17, March 2023, Kathmandu, Nepal**

**Hosted by Tribhuvan University, Kirtipur, Kathmandu, Nepal  
Kathmandu University, Dhulikhel, Nepal**

**First announcement**  
<https://www.fpptseries.org>



**The majestic Himalayan range, Kathmandu, Nepal**

**Conference Directors:**

Tara Desai (Chair, FPPT-10), Prakash Patil and Raju Khanal.

**International Advisory Committee:** M. Perlado Chair, Spain), S. Chaturvedi (India), D. Jaroszynski (U.K.), L.N. Jha (Nepal), R. Kaiser (ICTP, Italy), V. Malka (Israel), W. Miloch (Norway) and T. Ozaki (Canada).

**International Scientific Committee:** D. Hoffmann (Chair, Germany), U. Cvelbar (Slovenia), M. Koenig (France), M. Masek (Czech Republic), M. Manuel (USA), B. Nagler (USA), B. Sinha (India) and D. P. Subedi (Nepal).

**National Organizing Committee:** Raju Khanal (Chair, NOC), H. B. Baniya, S. Basnet, R. Chalise, U. Chaulagain, U.M. Joshi, A. Mishra, L. K. Mishra, R. Shrestha, D. P. Subedi and R. B. Tyata.

**The previous conferences:** Earlier conferences were organized in different developing countries, including India (Bangalore-2002, Goa-2005), Thailand (Bangkok-2007), Nepal (Kathmandu-2009), Singapore (2011), Botswana (Gaborone-2013), India (Kochi-2015), Chile (Viña del Mar-2017) and Sri Lanka (Negombo-2019). The success of the preceding conferences in several countries in Asia, Africa and Latin America has encouraged us to further our mission.

**Topics:** The emphasis of the conference will be on all the frontier topics of plasma physics conferences and technologies and classified in the following three tracks but not limited to:

**Track I.** Fundamental plasmas: Astrophysical, cosmic and space plasmas; condensed and extreme state matter; high energy density matter; laboratory astrophysical, planetary, supernova, turbulent plasmas, etc.

**Track II.** Advances in Nuclear Energy: Magnetically confined plasmas, inertial fusion plasmas, nuclear physics under transient state, recent progress in nuclear fusion studies, target and reactor physics, unconventional energy sources, z pinch, hybrid reactors, etc.

**Track III.** Innovative trends in applications and technologies: Technological innovations leading to newer applications, 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 agriculture, air & space pollution control, biology, chemistry, climate and environment, health, industries, medicine, nuclear waste management and safety, physics of natural disasters, etc

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

**Some of the confirmed speakers include** B. Albertazzi (France), A. Bécoulet (ITER, France), D. Benredjem (France), A. Bret (Spain), U. Chaulagain (Czech Republic), A. Ciardi (France), S. Cipiccia (U.K.), Cvelbar (Slovenia), F. Dorchies (France), K. Falk (Germany), J. Freundlich (France), A. Fukuyama (Japan), D. Hoffmann (Germany), N. Jaroslav (Czech Republic), D. Jaroszynski (U.K.), T. Jeong (Czech Rep), G. Loisel H.J. Kong (S. Korea), I. Kourakis (UAE), G. Loisel (USA), Lu X (PRC), R. Kaiser (ICTP, Italy), S. Kar (U.K.), S. Le Pape (France), D. Liu (PRC), V. Malka (Israel), M. Manuel (USA), M. Masek (Czech Rep.), J. T. Mendonca (Portugal), W.J. Miloch (Norway), L. Mishra (Nepal), B. Nagler (USA), T. Ozaki (Canada), C. Palmer (U.K.), M. Perlado (Spain), X. Pei (PRC), T. Pikuz (Japan), F. Porcelli (Italy), O. Renner (Czech Rep), C. Riccardi (Italy), H. Ruhl (Germany), J. Santos (France), S. Sebban (France), B. Shen (PRC), R. Singh (Czech Rep), B. Sinha (India), L. Sorriso-Valvo (Italy), D.P. Subedi (Nepal), K. Ta Phuoc (France), S. Vinko (U.K.), S. Weber (Czech Republic), S. Zhang (PRC), etc.

#### **Forthcoming important dates:**

Registration (form enclosed)	December 30, 2022, Early reg preferred.
Abstract submission	January 15, 2023
Author notification on the abstract	February 01, 2023
Second announcement	February 10, 2023
Scientific programme	February 15, 2023
Final announcement	March 01, 2023
Registration on desk	March 12, 2023, onwards

**Abstract format:** Paper size: Standard 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 space. The author's name in font size 12 and centred. Leave 1 line space. Institute's name is in font size 10 and centred. 2-line opening before commencing the abstract with font 12 (justified).

Text size should be with single spacing. References, if any, should be given in Arabic numerals in the square bracket, and avoid figures if possible. Kindly provide the 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 an editable M.S. Word or equivalent software for the ease of necessary editorial work. All the abstracts will be peer-reviewed under the supervision of the International Scientific Committee.

**Abstract Submission:** Kindly submit one-page abstract electronically to the conference Secretary before January 15, 2023, at office@fpptseries.org

**Conference registration fee:** Conference is self-financed. Delegates are requested to make their financial arrangement.

Reg. fee for the international delegates: 550 Euro. Bank details will follow later.

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

**Conference venue and accommodation:** Local organizers are trying to finalize a suitable conference venue and accommodation, which will be communicated later.

#### **Nepal in brief:**

**Location:** The Federal Democratic Republic of Nepal is located mainly in the Himalayas and partly in the Indo-Gangetic Plain. It is a landlocked country between India (to the east, south, and west) and Tibet (the autonomous region of P. R. China to the north).

**Political:** In 2008, the elected Constituent Assembly declared Nepal as the Federal Democratic Republic, abolishing the 240-year-old monarchy and the President as Head of State and Prime Minister heading the Government. It is a secular country with nearly 30 million inhabitants in 2021.

**History:** The prehistoric sites of Palaeolithic, Mesolithic and Neolithic origins have been discovered in the Siwalik Hills of Nepal. The earliest inhabitants of modern Nepal are believed to be from the Indus Valley Civilization. Records mention that the Gopals and Mahishapals have been the earliest rulers, with their capital at Matatirtha, the southwest corner of the Kathmandu Valley.

From the 7th or 8th century BCE, the Kirantis have ruled the valley, and the civilizations flourished in the fertile Kathmandu Valley, where the present-day capital of the same name is located. Thus, the history of Kathmandu is inseparable from the ancient Kathmandu valley.

Prince Siddhartha, who attained enlightenment as Gautama Buddha and spawned Buddhism, was born c.563 BC in the 'Sakya' royal family of Kapilavastu near Lumbini, about 260 km from Kathmandu.

**Language:** The official language is Nepali. It is derived in proximity to Indo-Aryan languages, most notably with Sanskrit influence. There are 123 languages reported as mother tongue according to the 2021 national census, including significant languages like Nepali, Maithali, Bhojpuri, Tharu, Tamang etc. English is fluently spoken throughout Nepal.

**Climate:** Kathmandu valley witnesses blooming spring in March-April. Maximum daytime temperature is around ~27°C (81°F), whilst at night drops to around ~10°C (50°F). The sky is generally clear, and the Himalayan view is spectacular. The weather remains dry until about April. A high U.V. level requires sun cream.

**Cuisine:** Nepalese food is a culmination of rich flavoured ingredients with cooking styles from various cultures, including India, China and Tibet. A variety of local alcoholic drinks are prevalent. Food is both vegetarian and non-vegetarian. Nepal's hospitality is one of the best in the world.

**Scenic and sportive:** Nepal is a fantastic touristic country known for some of the world's most astounding high-mountain panoramic views, serene feral rivers, valley glaciers, world heritage spiritual temples, Buddhist monasteries, wildlife watching, national parks etc. It is the ultimate outdoor-sports destination for mountaineering, trekking, mountain biking, rafting, etc.

The Himalayan range has about 50 peaks over 7,000 metres, and Nepal has eight of the ten world's tallest mountains, including the majestic Mount Everest towering at 8,849 metres. In the Nepali language, Mount Everest is called "Sagarmatha", the Goddess of the Sky.

**Banking in Nepal:** All major Credit cards like VISA, MasterCard and American Express are accepted in Nepal for direct payment and cash withdrawal. Travellers' Cheques are NOT easily cashable in Nepal. Kathmandu's airport has bank counters where you can exchange currencies on arrival. Any hard currency can be easily converted to local currency through money exchanges as per daily exchange rates in hotels and cities. If necessary, remember to let your bank know about the dates when you will be abroad. At present, one Euro equals about 135 Nepalese Rupees.

**Nepal Time zone:** Nepal is 5 hrs and 45 minutes ahead of GMT.

**Visa to Nepal:** Most nationals require a visa to Nepal. Kindly check your requirement. Details are available on the Dept. of Immigration, Ministry of Home Affairs, Govt. of Nepal,

The Nepalese embassy in Vienna has provided the information on the Visa. There is no separate visa for attending the conference. All visits are covered under the tourist visa. You can obtain the Visa through the following.

- Online application; <http://online.nepalimmigration.gov.np/tourist-visa>
- Visit the Nepal embassy in your country.
- On arrival; <http://www.nepalimmigration.gov.np/page/visa-on-arrival>

Immigration Office at the Tribhuvan International Airport (TIA) is the only international airport under the Department of Immigration to provide an 'On Arrival Visas' to foreign nationals arriving in Nepal. All visitors must hold a passport valid for at least 6 months.

Further information on Nepal can be found on the website of the Ministry of Foreign Affairs; <https://mofa.gov.np/> and Nepal Tourism Board; <https://www.welcomenepal.com/>

**Conference contact details:**

Tara Desai (Chair, FPPT-10), [director@fpptseries.org](mailto:director@fpptseries.org)  
Raju Khanal (Chair, NOC), [raju.khanal@cdp.tu.edu.np](mailto:raju.khanal@cdp.tu.edu.np)  
Conference Secretary, [office@fpptseries.org](mailto:office@fpptseries.org)

**Welcome to the Land of Spectacular Snowy Peaks**

**WELCOME TO NEPAL**

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**Some conference information**

**Registration form:** Reg. form is enclosed for your ease. Kindly submit to the conference secretary at [office@fpptseries.org](mailto:office@fpptseries.org) on or before 30<sup>th</sup> Dec 2022. We thank all those who have already submitted the form.

**Abstract format:** Abstract format is mentioned in the first announcement—deadline for submission is 15<sup>th</sup> Jan. 2023.

**Conference proceeding:**

Special FPP issue on ‘Frontiers of Plasma Physics and Technology’.

Conference organizers are pleased to accept with thanks the proposal of Prof. Francesco Porcelli, Editor-in-Chief, Fundamental Plasma Physics (FPP), an Elsevier journal.

We aim for a special issue to include regular articles, letters, reviews, and perspectives.

All manuscripts will be peer-reviewed to ensure the publication of high-quality papers with a reasonably good probability of being cited in the scientific literature. Please refer to

<https://www.sciencedirect.com/journal/fundamental-plasma-physics>

Details will follow in the second announcement.

**Registration fee:** We will circulate the details for the payment towards the registration fee in Jan 2023.

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**Registration Form**

(The last date for the receipt of the registration form is December 30, 2022)

**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. Gender (Male / Female):**

**5. Title of the Abstract (Tentative):**

**6. Track of the Topic I/II/III:**

**7. Registration fee: Bank transfer / onsite**

**7. Name(s) of the accompanying person(s) if any:**

Kindly send the registration form to the conference secretary, [office@fpptseries.org](mailto:office@fpptseries.org)

Further information will be sent to all the registered participants.

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