



**12th India-Japan Science and Technology Conclave:
International Conference on Frontier Areas of
Science and Technology (ICFAST-2022)**

during
September 09-10, 2022

at
**University of Hyderabad,
C.R. Rao Road, Gachibowli, Hyderabad-500046, INDIA**



**Organized by
Indian JSPS Alumni Association (IJAA)**

**&
School of Physics (SoP), University of Hyderabad (UoH)**

**Sponsored by
Japan Society for the Promotion of Science (JSPS),
Institute of Eminence, University of Hyderabad (UoH),**

**&
Science and Engineering Research Board (SERB), DST, India**

**Supported by
Embassy of India, Tokyo, Japan
&
Department of Science and Technology (DST), Govt. of India**

Conference Website: <https://indiajapanstseminar.com/index.php>

The 12th annual **India-Japan Science and Technology Conclave** will be held at the **School of Physics, University of Hyderabad, India** from **September 09 to 10, 2022**. The University of Hyderabad is hosting the conclave for the first time in the name of the **International Conference on Frontier Areas of Science and Technology (ICFAST-2022)** in coordination with the **Indian JSPS Alumni Association**. The aim of the conference is to provide a forum for researchers elsewhere in the Globe, working in frontier areas of theoretical and experimental **Physics, Chemistry, Mathematics, Computer Science, Biology, Astronomy, and Engineering Science & Technology**, to report their significant findings and to share insights of their novel works. It gives us immense pleasure to invite you to participate in the conference (ICFAST-2022). We look forward to have the pleasure of your presentation to the wonderful gathering of brotherhood at the conference venue. The invited talks will be presented in two parallel sessions. The **topical scope** of the conference is broad, and will cover discussions on but not limited to the following.

Field Theory	Theoretical Chemistry
Particle Physics	Synthetic Chemistry
Astrophysics and Cosmology	Materials Chemistry
Condensed Matter Physics	Biophysics and Biochemistry
Statistical Mechanics	Quantum Chemistry
Classical and Quantum Optics	Biomedical Sciences
Quantum Information	Modern Biology
Materials Physics	Life Sciences
Nanoscience and Space Science	Biotechnology
General Mathematics	Medical Science
Artificial Intelligence	Engineering Materials

Chief Patrons for the India-Japan Bilateral Programs

- H. E. Mr. Satoshi Suzuki (Hon'ble Ambassador of Japan to India, Embassy of Japan, Delhi, India)
- H. E. Mr. Sanjay Kumar Verma (Hon'ble Ambassador of India to Japan, Embassy of India, Tokyo, Japan)
- Mr. Sugino Tsuyoshi (President, JSPS, Japan)
- Dr. Srivari Chandrasekhar (Secretary, DST, Govt. of India)

Chief Patron for the Conference

- Prof. B. J. Rao (Hon'ble Vice-Chancellor, University of Hyderabad, India)

Chairpersons

- Prof. K.C. James Raju, Dean, School of Physics, UoH, India
- Prof. D. Sakthi Kumar, Chairman, Indian JSPS Alumni Association, Japan

Convener

- Dr. Venkataiah Gorige, Assistant Professor, School of Physics, UoH, India

IJAA Executive Committee

- | | |
|--------------------------------------|---------------------------------------|
| Dr. Annie John, Vice-Chairman | Prof. B. P. Mandal, Vice-Chairman |
| Dr. Utpal Bora, General Secretary | Prof. Satyan Saha, Joint Secretary |
| Dr. Darshak Trivedi, Joint Secretary | Dr. A. Maya Nandkumar, Treasurer |
| Dr. D. Sarma, Chief Editor (NL) | Dr. G. Basavaraj, Editor (NL) |
| Dr. A. Kumar, Editor (NL) | Dr. Gautham Panda (North Chapter) |
| Dr. Sushil Singh (North Chapter) | Dr. Shivaji Sadale (West Chapter) |
| Dr. J. Manjanna (West Chapter) | Dr. N. R. Kamini (South Chapter) |
| Dr. D. Rangappa (South Chapter) | Prof. A. Bhattacharjee (East Chapter) |
| Dr. P. K. Gogoi (East Chapter) | [and many more] |

Local Advisory Committee

- Prof. Ghanshyam Krishna M, Head, CASEST, School of Physics, UoH, India
- Prof. P. K. Suresh, School of Physics (SoP), UoH, India
- Prof. Nirmal Kumar V, School of Physics, UoH, India
- Prof. S. Srinath, School of Physics, UoH, India
- Prof. Sharath Anantha Murthy, School of Physics, UoH, India
- Prof. Ashwini Kumar Nangia, Dean, School of Chemistry (SoC), UoH, India
- Prof. S. Rajagopal, School of Life Sciences (SLS), UoH, India
- Prof. Krishnaveni Mishra, School of Life Sciences, UoH, India
- Prof. Kurukuti Sreenivasulu, School of Life Sciences, UoH, India

Local Organizing Committee

(University of Hyderabad, India)

- | | |
|---------------------------------|-----------------------------|
| Dr. N. Sri Ram Gopal (SoP) | Dr. Bindu M. Reddy (SLS) |
| Dr. V. S. Ashoka (SoP) | Dr. Anil Kumar (SLS) |
| Prof. P. Prem Kiran (SoP) | Dr. Venkata Girish K (SEST) |
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| Prof. P. Manimaran (SoP) | Dr. K. V. Jovan Jose (SoC) |
| Prof. G. S. Vaitheeswaran (SoP) | Dr. Bhawna Gomber (CASEST) |
| Dr. Shyamal Biswas (SoP) | |

Call for Papers

Please submit a title and abstract of your **poster presentation** online through the conference website (<https://indiajapanstseminar.com/index.php>) on or before **August 25, 2022**. The participants are requested to mention their names, affiliations, and contact details in the (online) prescribed form for the abstract submission. The participants are advised to register for the conference while submitting the abstracts. Acceptance of the abstracts will be communicated as early as possible.

Registration

All participants of ICFAST-2022 should get registered by submitting a registration form online along with the payment of registration fee by electronic transfer through the conference website (<https://indiajapanstseminar.com/index.php>) on or before **August 25, 2022**. No on-spot registration will be allowed. The registration fee includes the cost for the regular lunches and dinners during the conference.

Registration Fee

Faculty Member	INR 2500 + (18% GST)
Postdoctoral Fellow	INR 2500 + (18% GST)
Ph.D. Scholar	INR 2000 + (18% GST)
U.G./P.G. Student	INR 2000 + (18% GST)
Accompanying Person	INR 2000 + (18% GST)
Additional fee for the Gala Dinner	INR 2000 + (18% GST)

There is a discount of INR 500 on the registration fee for each IJAA member.

Accommodation

Accommodation to a limited number of registered participants can be provided in the guest houses/hostels of the University of Hyderabad. Request for Accommodation may be made through the conference website (<https://indiajapanstseminar.com/index.php>) on before **August 25, 2022** along with advance payment for the entire duration of stay as per choice of the accommodation. Details for the accommodation are available in the conference website.

Cancellation Policy

Cancellation of the registration can only be made via e-mail to icfast2022@uohyd.ac.in.

Cancellation until August 25, 2022: Full refund, excluding INR 500 as administrative charge.

Cancellation after August 25, 2022: No refund

Conference Venue

The Auditorium and the Seminar Room, School of Life Sciences, University of Hyderabad, C.R. Rao Road, Gachibowli, Hyderabad-500046, INDIA

University vehicle (bus) service will be available for reaching the conference venue from elsewhere inside the University of Hyderabad.

List of Invited Speakers

Nobel Laureate Prof. Ryōji Noyori, Nagoya University, Nagoya, Japan
Prof. G. Ravindra Kumar, TIFR, Mumbai, India
Prof. Amitava Raychaudhuri, University of Calcutta, Kolkata, India
Prof. Chandan Dasgupta, IISc, Bangalore, India
Prof. Achanta Venugopal, CSIR-NPL, New Delhi, India
Prof. Shantanu Desai, IIT-Hyderabad, Hyderabad, India
Prof. M. Senthil Kumar, SAC, ISRO, Ahmedabad, India
Prof. Takashige Omatsu, Chiba University, Chiba, Japan
Prof. Tomoyasu Taniyama, Nagoya University, Nagoya, Japan
Prof. Yoichi Kamihara, Keio University, Yokohama, Japan
Prof. Yoko Miyamoto, UEC, Tokyo, Japan
Prof. Yoshiro Azuma, IIT-Delhi, New Delhi, India
Prof. P. S. Anil Kumar, IISc, Bangalore, India
Prof. Kalobaran Maiti, TIFR, Mumbai, India
Prof. Surajit Dhara, University of Hyderabad, Hyderabad, India
Prof. Anil Shaji, IISER-Thiruvananthapuram, Thiruvananthapuram, India
Prof. Subroto Mukerjee, IISc, Bangalore, India
Prof. Brajesh C. Choudhary, University of Delhi, New Delhi, India
Prof. Smarajit Karmakar, TIFR-Hyderabad, India
Prof. P. Sudharshan Phani, ARCI, Hyderabad, India
Prof. R. Chandrasekar, University of Hyderabad, India
Prof. Kana M. Sureshan, IISER-Thiruvananthapuram, India
Prof. Vijayamohanan Pillai, IISER-Tirupati, India
Prof. S. Venkata Mohan, CSIR-IICT, Hyderabad, India
Prof. Chilla Malla Reddy, IISER-Kolkata, West Bengal, India
Prof. D. B. Ramachary, University of Hyderabad, India
Prof. Melepurath Deepa, IIT-Hyderabad, Hyderabad, India
Prof. Yuichiro Takahashi, Okayama University, Tokyo, Japan
Prof. Deepak Sharma, IMTECH, Chandigarh, India
Prof. Jagadis Gupta Kapuganti, NIPGR, New Delhi, India
Prof. Rajender K. Motiani, RCB, Faridabad, India
Prof. Ullas Kolthur Seetharam, TIFR, Mumbai, India
Prof. M. Subba Reddy, CDFD, Hyderabad, India
Prof. Subba Rao, IISc, Bangalore, India
Prof. Renu John, IIT-Hyderabad, Hyderabad, India
Prof. Kundan Sengupta, IISER-Pune, Pune, India

Prof. Eri Ikeda, IIT-Delhi, New Delhi, India

Prof. Aki Yonehara, Toyo University, Japan and IIT-Delhi, India

About the University of Hyderabad

The University of Hyderabad (UoH), also known as the Hyderabad Central University (HCU), established in 1974, is one of the most desirable institutes for higher studies in India. The university is widely known for its excellence in teaching and research by distinguished faculties. The university further cements its unique position in the country for conferment of various awards of repute to its faculties and students. The university has been accorded Institution of Eminence (IoE) by Govt. of India in 2019 in recognition of its achievements and potential to move ahead on the global stage. The university has 400+ faculty members and 5000+ students in altogether 42 departments and 23 centers organized in 12 schools of studies besides its adequate accommodation facilities including three Guest Houses and an International House. The University of Hyderabad is one of the top most institutes in India. Many of the faculty members of the university received national/international awards/recognition such as - Shanti Swarup Bhatnagar Prize for Science and Technology, Fellow of the Royal Society, Third World Academy of Sciences Award, etc. Most of the faculty members have research collaborations with many national and international institutes including a number of institutes of Japan. The University of Hyderabad's vision, planning and processes embody the core values of National Needs-Global Standards, Innovation, Public Engagement and Social Impact. As a significant contributor to the nation's knowledge economy, it offers enhanced knowledge services in diverse fields to produce global quality research, teaching and learning outcomes. The university has 1800+ acres of green area. It is located near Gachibowli, the IT hub of Hyderabad City. It is rich in flora, fauna and bio-diversity. It is also home to over 75 varieties of birds, 3 lakes and innumerable rock formations. For more details, visit <https://uohyd.ac.in>.

How to Reach the University of Hyderabad?

The University of Hyderabad is 35 km distant from the nearest airport in the Hyderabad City named Rajiv Gandhi International Airport, and 20-25 km distant from the two major railway stations Nampally Jn. and Secunderabad Jn. in Hyderabad, India.

About the Indian JSPS Alumni Association

The Indian JSPS Alumni Association (IJAA) was founded in the year 2006, with the objectives to promote and advance scientific exchange, research and cultural collaboration between India and Japan, to encourage collaborative research amongst the JSPS Fellows and their host professors as well as to provide a common platform of the Indian JSPS Fellows. Among its several scientific activities, IJAA organizes an international conference every year in the emerging fields of science and technology under the sponsorship of JSPS. The present conference will be the 12th in series organized by IJAA. For details, visit www.indianjpsalumni.org.

About the Japan Society for the Promotion of Science

The Japan Society for the Promotion of Science (JSPS) is an independent administrative institution for the purpose of contributing to the advancement of science. The JSPS plays a pivotal role in the administration of a wide spectrum of Japan's scientific and academic programs. While working within the broad framework of government policies established to promote scientific advancement, The JSPS carries out its programs in a manner flexible to the needs of the participating scientists. Its main functions are (i) to foster young researchers, (ii) to promote international scientific cooperation, (iii) to award Grants-in-Aid for scientific Research, (iv) to implement the Research for

the Future Program, (v) to support scientific cooperation between the academic community and industry, and (vi) to collect and distribute information on scientific research activities. For more details, visit www.jps.go.jp/english/.

Important Dates

Submission of Abstract	Starts on: July 05, 2022 Ends on: August 25, 2022
Acceptance of Abstracts	Starts on: July 05, 2022 Ends on: August 25, 2022
Registration	Starts on: July 05, 2022 Ends on: August 25, 2022
Request for Accommodation	Starts on: July 05, 2022 Ends on: August 25, 2022

Exhibition

Participation in exhibition at around the conference venue can be requested through email on or before **August 31, 2022**. The cost for an exhibition stall of area 3m x 3m would be INR 100000 + (18% GST). The payment can be made online through the conference website.

Advertisement (Colour Picture)

Advertisement on the abstract booklet/souvenir/conference website can be made on or before **August 31, 2022** at the cost as follows.

Back Cover	INR 80000 + (18% GST)
Inside Front or Back Cover	INR 50000 + (18% GST)
Full Page:	INR 40000 + (18% GST)
Half Page	INR 25000 + (18% GST)

Such a request and payment can be made online through the conference website.

Contact Details

Dr. Venkataiah Gorige

[Convener of the ICFast-2022 and Assistant Professor]

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Contact Numbers of Some Local Organizing Committee Members:

For abstract submission related issues:

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For registration related issues:

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Mobile Phone: +91-9989952362/9100262081

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Conference Website: <https://indiajapanstseminar.com/index.php>

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