



8<sup>th</sup>



# International Symposium on Fusion of Science and Technology (ISFT-2020)

January 6-10, 2020

Faridabad, India



Organised by

J.C. Bose University of Science and Technology, YMCA

In association with

Society for Fusion of Science and Technology, Delhi

In partnership with

International Society on Fusion of Science and Technology | Delhi Technological University | NIT Kurukshetra  
Shri Ram College of Engineering & Management | NIT Srinagar | University of South Florida  
University of Trás-os-Montes and Alto Douro | University of North Texas | University of Calabria |  
Institution of Mechanical Engineers | ENEA | Rajamangala University of Technology Suvarnabhumi

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# J.C. Bose University of Science and Technology, YMCA

J.C. Bose University of Science and Technology, YMCA, Faridabad (erstwhile YMCA University of Science and Technology, Faridabad erstwhile YMCA Institute of Engineering, Faridabad) was established in the year 1969, as a joint venture of the National Council of YMCAs of India, Govt. of Haryana, and the Central Agencies for Development Aid, Bonn, Germany. It started as an Indo-German project to impart technical education to a developing India on German pattern.

The labs & workshops have been set up with the assistance of German expertise. In 1996, State Govt. of Haryana took complete control of the Institute and upgraded it to University status in Dec. 2009. The university offers 4-year B.Tech degree course in seven disciplines i.e

1. Civil Engineering
2. Computer Science
3. Information Technology
4. Electronics & Instrumentation Control
5. Electronics & Communication Engg.
6. Electrical Engg.
7. Mechanical Engg.

The university has added new chapters in its glorious history i.e. M.B.A., M.C.A, M.Tech. (Computer Engineering, Electrical Engineering, Electronics Engineering & Mechanical Engineering), M.Sc. (Physics, Maths, Chemistry & Environmental Sciences), M.A.(Mass Communication and Journalism) and Ph.D. It follows it's course curriculum duly approved by the industries and the University. The salient features of German education have been retained & as such the University stands apart from other colleges of Haryana.

Right from the very beginning at the institutional level, it has significantly emphasized practical work related to the industry. As a result, the students of the univeristy are well accepted by the industries. The fact that many of them are an entrepreneur with names of repute at the national and international level establishes the same.

The University is situated on National Highway-2, Mathura Road, 30 km from National Capital, Delhi. The University campus is located in the sprawling Faridabad-Ballabgarh Industrial complex.

The state of art equipments in the workshops and laboratories enable the students to operate various machines independently to acquire a thorough knowledge and develop competence in their respective skills

## **Society for Fusion of Science & Technology**

The Collegium of people, from academia and research, entrepreneurs, industry experts, engineers, artists, legal, medical and management professionals who have come together to promote inter-disciplinary science and technology, enhance synergetic partnership between academia and industry, undertake systematic studies and research in scientific endeavours of national and international importance, have culminated into the Society for Fusion of Science and Technology, and the mission lies in addressing current challenges and promoting newer horizons for science, engineering and technology for a sustainable future.

### **The SFST is committed to:**

**Research**– To conduct and promote inter-disciplinary research to develop new frontiers of technologies; Dissemination of these technologies will be carried over by publishing journals, proceedings, monographs and memoirs.

**Profession**– To promote innovation and creativity amongst young professionals to achieve a high degree of proficiency; High standards of professional competence and conduct within the various fields of science and technology will be created to facilitate mutual exchange of Science & Technology professionals, collaborations with other organizations.

**Education**– To provide assistance and opportunities to young individuals, desirous and eager to learn inter-disciplinary science and technology, by granting scholarships and providing financial aid to meritorious students in the field of education; to translate, print, publish and circulate appropriate material for distribution of useful knowledge for the advancement of Science & Technology.

**Fusion**- To envision the fusion of science and technology with art and culture by coupling the plethora of technological innovations with the vibrant cultural heritage of literary & visual arts and material culture endowed on us.

The SFST appreciates the input received from members, and other stakeholders and looks forward to receive your benign presence at the 8th International Symposium on Fusion of Science and Technology from January 6-10, 2020, in New Delhi, India.

## About ISFT

The International Symposium on Fusion of Science and Technology (ISFT) provides a forum to the best talents in the academia & research institutions, industry experts, management professionals, engineers and executives to collaborate and address the current challenges, to seek new windows for discovery and exploration, and to promote the new horizon of science, engineering & technology for a sustainable future. The conference is aimed to promote synergetic partnership between academia and industry and also to showcase the growth of cutting-edge technology developed in recent past.

ISFT was started in 2011 through the collegial relationship between South Korea and Thailand by the founders of ISFT, including Prof. Hanshik Chung, Dean, Mechanical and Energy Department, and Dr. Chulsu Kim, CEO of KTENG, from Korea and Assoc. Prof. Napat Watjanatepin and Mr. Manoon Chunchom from Thailand. Seven conferences have so far been organized:

1. ISFT 2012 held at GNU, Korea during June 28 – July 2, 2012.
2. ISFT 2013 held at RUS, Nonthaburi, Thailand during August 1-3, 2013.
3. ISFT 2014 held at NTC, Jeonju City, Korea during July 30 – August 2, 2014.
4. ISFT 2015 held at Phra-Nakhon-Si Ayutthaya, Thailand during January 12-16, 2015.
5. ISFT 2016 held at New Delhi, India during January 18-22, 2016.
6. ISFT 2017 held at Jeju, Korea during July 17-21, 2017.
7. ISFT 2018 held at Bangkok, Thailand during December 16-20, 2018.

Each year ISFT receives more than 500 articles from the world over. Now ISFT 2020 is being held at Faridabad (NCR), India during January 6-10, 2020.

The ISFT 2020 shall comprise:

- i. Original research paper/ poster presentations
- ii. Industry-academic interaction
- iii. Networking meetings
- iv. Research and Engineering design fair
- v. Exhibition of SoA Technology
- vi. Exhibition of test equipment/ process machinery
- vii. Technical tours
- viii. Art & Culture shows



Technical Tour to Industrial Park & Taj Mahal in Agra and visit to research institutions in New Delhi shall be salient features of the conference.

ISFT invites all creative scientists, engineers, industry professionals, academicians and managers to build new paradigm using improved knowledge, vision and scientific intellect. Your presence shall stimulate the dynamism and vibrancy of ISFT-2020 at Faridabad (NCR) in January 2020.

## CONFERENCE THEME

There has been phenomenal growth of engineering, science and technology in the recent past. To keep pace with the recent development, 8th International Symposium on Fusion of Science and Technologies is organized which shall work as a catalyst to amalgamate the challenges and the opportunities for a better world.

India, South Korea, USA, Thailand, Vietnam, Bangladesh, China, Japan, France, Indonesia, Iran, Brazil and Italy along with many other countries have pooled the resources to organize ISFT-2020. This symposium will provide a platform for the researchers working in the multi-disciplinary field of Engineering, Science, Technology and Management to exchange new ideas and establish a relationship for the scientific growth and development.

## Organiser

ISFT-2020 is being organized by J.C. Bose University of Science and Technology, YMCA, Faridabad and Society for Fusion of Science & Technology, Delhi. The SFST comprises of academicians, engineers, industrialists and medical professionals from different walks of life. It has rich experience of bringing together professionals of national and international importance for mutual benefits of researchers and industries.

The conference is a stupendous opportunity to witness the hottest technological innovations coupled with the rich cultural heritage of India.



**Swagat ! as we say Welcome**

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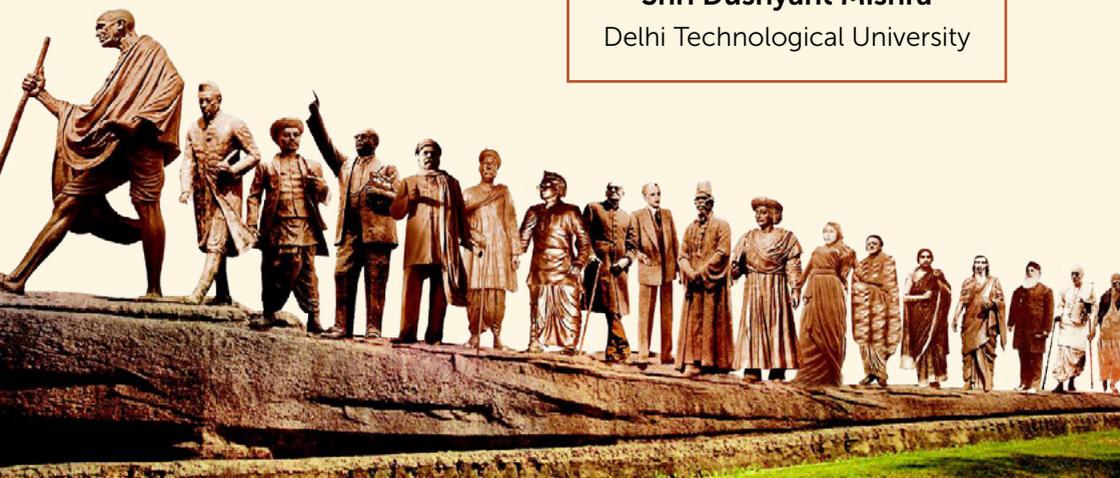
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# CALL FOR PAPERS

ISFT 2020 invites original research articles/ review papers/ poster presentation from students, academicians and industry professionals in the field of Engineering, Science, Social Science, Arts, Management and Industry. The official language of the conference will be English. The full-length research articles may be submitted online at [www.isft.org.in](http://www.isft.org.in) .

## PAPER PUBLICATION

The abstract of all accepted research papers shall be published in Book of Abstract. Selected papers shall be sent for a possible publication in the Scopus / ESCI Indexed Journals /Conference Series after peer review. The decision of reviewing committee will be final and binding.

For any query regarding submission of the manuscript, please contact [isft2020@gmail.com](mailto:isft2020@gmail.com) or +91-8851874573. For latest updates, please visit [www.isft.org.in](http://www.isft.org.in).

## Benefits To Authors

One of the authors of a research paper shall make an oral/poster presentation. ISFT 2020 shall provide a breath-taking opportunity for authors to share their expertise with the world's most renowned scientists, leading industrialists, and scholars helping them scale new heights and expand their horizon. Authors can take guidance from the best of the best in the field of their interest to further enrich their knowledge.

Certificate of participation and a souvenir shall be given to all the authors. Three cash prizes shall be given in the poster category for best poster presentation.

At least one of the authors should be registered for the conference. A registered delegate is permitted to present one paper only. The paper(s) received without the registration fee will not be included in the conference scientific program.

## Copyright Policy

The copyright of the articles published/presented at ISFT2020 shall remain with the organizing committee of the conference.



# MAIN TOPICS

The topics to be covered during the conference include (but not limited to):

## Mechanical Engineering

- Materials Science and metallurgy
- Finite Element Analysis.
- Manufacturing and industrial Engineering
- Robotics and automations
- Energy Conversion
- Thermal Engineering
- Design and Dynamics
- Surface engineering and Tribology
- Aerospace Engineering

## Science and Technology

- Nanotechnology
- Earth and space science
- Bioengineering, and Bioinformatics
- Fibre optics
- Astrophysics
- Energy Resources and Management
- Hydrogen and Fuel Cells
- Global warming and Climate change
- Environmental and Green Chemistry
- Nuclear, theoretical, super molecular and medicinal Chemistry
- Applied Mathematics and Computation

## Advanced Materials

- Biomaterials
- Materials for Biomedical Applications
- Polymeric Materials
- Smart and Intelligent Materials
- Photonic Materials
- Materials for Energy
- Characterization of advanced materials
- Nano Materials

## Computer Science and Information Technology

- Computer Networks and Wireless Communication
- Mobile Computing
- Theory of computer science and software systems
- Information security and Cyber security
- Energy efficient system in communication network
- Applied computing and Big Data
- Natural language Processing
- Cloud computing
- Image Processing and Pattern Recognition
- Artificial Intelligence
- Computer Simulation and Data Mining
- Bio-inspired Techniques

## Management

- Applied business and economics research
- Industrial Economics
- Education and pedagogical science
- Marketing Management
- Finance and accounting
- Human Resource management and behavioural science
- Knowledge management
- Supply chain management
- Corporate Governance and Sustainability

## Electrical and Electronics

- Power System and Power Electronics
- Speech and Pattern Recognition
- Modern trends in electronics, control applications
- VLSI
- Intelligent Transport System (ITS)
- Electrical Machines
- Control System
- Microelectronics
- Internet of thing (IOT)
- Communication and signal processing

## Civil, Environmental and Architectural Engineering

- Innovative technologies and services for smart cities
- Aesthetics and architecture
- Environmental Sciences and Engineering
- Structural engineering and Structural Dynamics
- Green Building and Sustainability
- Advances in civil and construction materials
- Water resource Development and management
- Water Security & Equity
- Geotechnical Engineering
- Remote Sensing and GIS
- Transportation Engineering
- Industrial Waste Management

## Chemical Engineering and Polymer Science

- Catalysis and Chemical Reaction Engineering
- Unit Operations and Novel Separation Processes
- Polymer Technology
- Food Technology
- Biofuels and Renewable energy sources
- Petroleum Refining and Petrochemical Industry
- Processes simulations and Equipment Design
- Biochemical Engineering
- Renewable and green chemicals

## Biotechnology

- Plant /Animal Tissue Culture
- Protein /Enzyme Engineering
- Bioremediation Techniques/ Biosensors
- Industrial Biotechnology
- Stem Cell Research
- Cancer Biology
- Neurodegenerative Diseases
- Genetically modified organisms

## Others

- Fashion Design and Textile Engineering
- Health and Medical Engineering
- Agricultural and bio-system Engineering
- Ethics, Law and Policy
- Engineering and Governance

Any other topic not covered above



## VENUE

Faridabad is the most populous and largest city of the Indian state of Haryana. It is named after its founder, Shaikh Farid, the treasurer of Jahangir.

The Delhi-Mathura-Agra National Highway 2 (Grand Trunk Road) passes through the city. It is situated in the National Capital Region bordering the Indian capital New Delhi.

### Faridabad Connectivity

Faridabad distinctively enjoys a strategic location with its easy connectivity to national capital New Delhi. It is well connected to Noida, Gurgaon and New Delhi via the road, train and metro.

Some major highways that pass through the heart of the city include NH 2, NH 3 and NH 4.

The DMRC (Delhi Metro Rail Corporation) incorporated the 11 distinctive metro stations across Faridabad to ensure ultimate ease in terms of traffic hazards as well as pollution.

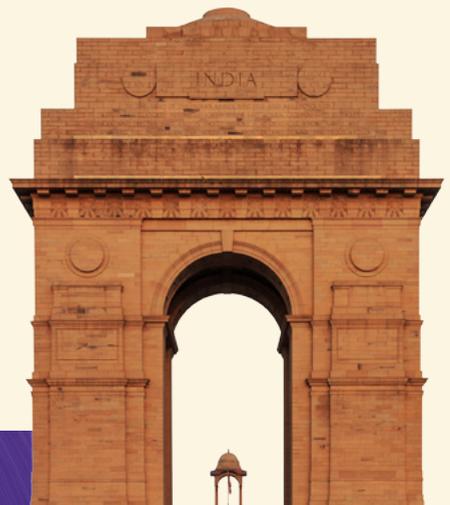
The nearest airport to Faridabad is Indira Gandhi International Airport, New Delhi which is around 45 K.M. away.

### Weather

With the onset of spring, the pleasantly welcoming weather of Faridabad will allure you in January with the temperature ranging from 2-12°C. It is the most suitable time to visit Faridabad and nearby historical cities, e.g. Delhi, Agra and Jaipur. Woollens are recommended during the conference.

### Food

Faridabad & Delhi population exhibit varied food habits. The Mughlai cuisine has originated from here. A variety of International cuisine and foods are easily available in the city. Indian kebabs, biryanis, and tandoori delicacies are worth to experience.



# SPONSORSHIP

## Dear Friends,

The Society for Fusion of Science and Technology (SFST) requests sponsorship and financial support for 8th International Symposium on Fusion of Science and Technology (ISFT-2020) being held from January 6-10, 2020 in New Delhi. ISFT-2020 is expected to be attended by over 1000 Scientists, Entrepreneurs, Engineers, Creative writers, artists, agri & legal-professionals and Leading Industrialists from about 15 countries. The Conference Sponsors will have a unique opportunity to strengthen their visibility and product awareness. As a sponsor of the "ISFT-2020", you will have the opportunity to earn tangible benefits that develops networks, generate leads and gives you the platform to position your organization in front of a wide range of professionals.

## Benefits for Industry

- The Industry has a chance to display their products, equipments, test apparatus and SoA knowledge.
- Researchers and Industry professionals can establish a professional consumer relationship with Researchers and leading entrepreneurs.

## Benefits to Academic Institutions

- Opportunity for synergetic partnership with industry.
- Potential of Internship and placement in India and abroad.
- Promotion of the institution to allure the brightest minds from all across the nation

Sponsorship packages are designed as per corporate/ individual strategies. One can opt for any of the following sponsorship packages:

### PLATINUM SPONSORSHIP

₹ 1,000,000 (1 Nos)

- Keynote speaker in one of the sessions of the Conference
- Recognition on all Press Releases
- Company logo and link on the Conference Website
- Acknowledgment during the Inaugural Ceremony
- Colour advertisement of the sponsor/ product on the front page of the Conference Souvenir
- Company's name and logo printed on the Conference Proceedings, Posters and Signage
- Company's brochure and demo CD to be included in Conference Kit
- Five complimentary registrations
- One double exhibit space

## **GOLD SPONSORSHIP**

**₹ 700,000 (2 Nos)**

- Keynote speaker in one of the sessions of the Conference
- Recognition on all Press Releases
- Company logo and link on the Conference Website
- Acknowledgment during the Inaugural Ceremony
- Colour advertisement of the sponsor/ product in the Conference Souvenir
- Company's name and logo printed on the Conference Proceedings, Posters, and Signage
- Three complimentary registrations
- One exhibit space

## **SILVER SPONSORSHIP**

**₹ 500,000 (3 Nos)**

- Company logo and link on the Conference Website
- Acknowledgment during the Inaugural Ceremony
- Colour advertisement of the sponsor/ product in the Conference Souvenir
- Company's name and logo printed on the Conference Proceedings, Posters, and Signage
- Two complimentary registration
- One exhibit space

## **BRONZE SPONSORSHIP**

**₹ 300,000 (5 Nos)**

- Company logo and link on the Conference Website
- Colour advertisement of the sponsor/ product in the Conference Souvenir
- Company's name and logo printed on the Conference Signage
- Display of Company Banner within the Lunch Area
- One complimentary registration

## **DINNER SPONSORSHIP**

**₹ 200,000 (2 Nos)**

- Company logo and link on the Conference Website
- Colour advertisement of the sponsor/ product in the Conference Souvenir
- Special talk / Presentation of 15 minutes before the dinner
- Company's name and logo printed on the Conference Signage
- Display of Company Banner within the Dinner Area
- One complimentary registration

## ALLIED SPONSORSHIPS

**Conference Kit Sponsorship :** ₹ 150,000

(Benefit: Sponsor's Logo along with Organizer's Logo will be placed on the bag)

**Banner & Poster Sponsorship :** ₹ 50,000

(Benefit: Conference Banners and Posters contain the Sponsor's logo. These will be placed at the Conference Venue and publicised across Colleges and Universities.)

## EXHIBITION STALLS

**Exhibition Stall (2m x 2m) :** ₹ 60,000

**Conference Bag Inserts :** ₹ 10,000

The inserts to be provided by the company

## CONFERENCE SOUVENIR

| Advertisement Size and Location           | RATE (₹) |
|---|----------|
| Back Cover Page (Colour)                  | 100,000  |
| Inner Cover Page (Front or Back) (Colour) | 50,000   |
| Full Page (Colour)                        | 30,000   |
| Full Page (B & W)                         | 20,000   |
| Half Page (Colour)                        | 15,000   |
| Half Page (B & W)                         | 12,000   |

Note: For coloured advertisements, artwork in CD with a printout of the same should be provided by the advertiser only.

The sponsorship amount in form of Cheque / Pay Order / Demand Draft favouring "Society for Fusion of Science & Technology" and payable at Delhi may please be sent to the registered office of the society. The NEFT/RTGS could also be made to the society bank account.



## ISFT Chairmen



**Prof. Hanshik  
Chung**

Gyeongsang National  
University, South Korea



**Prof. Napat  
Watjanatepin**

Rajamangala University  
of Technology  
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**Prof. Naveen Kumar**

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**Prof. Chulsu Kim**

Gachon University, South  
Korea

## IMPORTANT DATES

|  |   |
|--|---|
| Last date of submission of Full-length Papers            | July 31, 2019<br><b>September 30, 2019</b>    |
| Notification of selection of Full-Length Paper           | September 15, 2019<br><b>October 15, 2019</b> |
| Last date for Registration of Accepted full-length Paper | September 30, 2019<br><b>October 31, 2019</b> |
| Last date for Submission of Camera Ready Paper           | November 15, 2019                             |

## BANK TRANSFER (NEFT/RTGS)

|                       |   |
|-----------------------|---|
| Account Name          | <b>Society for Fusion of Science &amp; Technology</b> |
| Account No            | <b>036701003563</b>                                   |
| Bank                  | <b>ICICI Bank</b>                                     |
| Branch                | <b>Sector 11, Rohini, Delhi</b>                       |
| IFSC Code             | <b>ICIC0000367</b>                                    |
| Swift Code            | <b>ICICINBBNRI</b>                                    |
| Permanent Account No. | <b>AAMAS7954G</b>                                     |

## REGISTRATION AMOUNT

| Category   | Before 31.10.2019 | After 31.10.2019  |
|--|-------------------|-------------------|
| Indian Delegate (Academia)                       | ₹ 9000            | ₹ 10000           |
| Indian Delegate (Others )                        | ₹ 10000           | ₹ 11000           |
| Foreign Delegate (Other than Full Time students) | US\$ 500          | US\$ 700          |
| Full Time UG Student                             | ₹ 4000 / US\$ 200 | ₹ 5000/ US\$ 250  |
| Full Time PG Student/Full time Research Scholar  | ₹ 6000 / US\$ 300 | ₹ 7000/ US\$ 350  |
| Accompanying Person                              | ₹ 6000/ US\$ 350  | ₹ 7000 / US\$ 450 |

Note:

1. No financial assistance will be provided to participants for attending the conference.
2. The fee in US\$ is for Foreign Delegates. Complimentary visit to Agra and Delhi shall be arranged for foreign delegates.
3. Indian delegates may contact the conference secretariat for Agra and Delhi visits.



## LOCAL ORGANISING COMMITTEE

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and

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## **REGISTRATION FEES COVER**

All Registered Delegates: Access to all Sessions; Welcome Reception & Opening Ceremony; Refreshments during the Tea Breaks; Lunches; Presidential Dinner; Conference Kit.

### **Accompanying Person (Relative of Registered Delegate):**

Welcome Reception & Opening Ceremony; Refreshments during the Tea Breaks; Lunches; Presidential Dinner.

The Full-Length paper should be submitted online at [www.isft.org.in](http://www.isft.org.in). For any query regarding submission of Full-Length paper, you may kindly contact at [isft2020@gmail.com](mailto:isft2020@gmail.com) or +91-8851874573

