



SFST INDIA



STBP-2024

1st

INTERNATIONAL WORKSHOP

on

“ Sustainable Technologies for a Better Planet: Challenges & Preparedness for 2050 (STBP-2024) ”



IN PARTNERSHIP WITH

University of North Texas, USA | University of South Florida, USA

University of Trás-os-Montes and Alto Douro, Portugal | University of Calabria, Italy

University of KwaZulu-Natal, South Africa | Rajamangala University of Technology Suvarnabhumi, Thailand

Institution of Mechanical Engineers, UK



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 the synergetic partnership between academia and industry, undertake systematic studies and research in scientific endeavors 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 society was established in 2015 and has to its credit innumerable achievements in research, teaching, promotion of technology, and social welfare. The SFST has the distinction of organizing the International Symposium on Fusion of Science & Technology (ISFT-2016 and ISFT-2020) at New Delhi/NCR, India, and the International Conference on New Frontiers in Engineering, Science & Technology (NFEST-2018 and NFEST-2019) at New Delhi and Kurukshetra respectively. These conferences/symposiums have witnessed huge responses from around the world and a large number of distinguished International Speakers have delivered keynote lectures with around 2000 delegates including 200 from 18 countries in these conferences.

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 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 receiving your benign presence at the **1st International Workshop on “Sustainable Technologies for a Better Planet: Challenges & Preparedness for 2050”**; **January 4-10, 2024, Delhi-NCR, India.**



About STBP-2024

1st International Workshop on “Sustainable Technologies for a Better Planet: Challenges & Preparedness for 2050” (STBP 2024) which is a very dynamic and thought-provoking workshop, shall delve into the most pressing technological challenges that loom over our planet’s future. Climate change, resource depletion, disparity, gender bias, poverty, new education policies & pedagogies, industry 6.0, business opportunities, sustainable innovations, startup tie-up, and Intellectual property rights are just some of the urgent issues we aim to address. Guided by leading experts and visionaries in sustainability, we will explore how these challenges impact our planet and, more importantly, how technology can serve as a potent solution to mitigate their impact.

The workshop is aimed to promote a synergetic partnership between academia and industry and also to showcase the growth of cutting-edge technology developed in the recent past.

STBP 2024 is being held at Delhi-NCR, India during January 4-10, 2024.

The STBP 2024 shall comprise:

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

Scientific Tours to Delhi-NCR, Agra, and Jaipur shall be salient features of the workshop.

STBP invites all creative students, scientists, engineers, industry professionals, academicians, and managers to build new paradigms using improved knowledge, vision, and scientific intellect. Your presence shall stimulate the dynamism and vibrancy of STBP-2024 at Delhi-NCR in January 2024.

Workshop Theme

There has been phenomenal growth in the vital domains of engineering, science and technology, management, data analytics, IOT, climate change, etc in the recent past. To keep pace with the recent development, the 1st International Workshop on “Sustainable Technologies for a Better Planet: Challenges & Preparedness for 2050” (STBP 2024) 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, Italy, and Nigeria along with many other countries have pooled the resources to organize STBP-2024. This Workshop will provide a platform for researchers working in the multi-disciplinary field of Engineering, Science, Technology, and Management to exchange new ideas and establish relationships for holistic growth and development.

VENUE

New Delhi is the capital of the Republic of India, and the seat of executive, legislative, and judiciary powers. Historically, Delhi has served as the capital of various kingdoms and empires. The Indians believe it to be the site of Indraprastha, the legendary capital of the Pandavas in the Indian epic - Mahabharata. New Delhi is a truly metropolitan city inhabited by all religions, nationalities, and classes of people. It is one of the world's leading global cities with strengths in the arts, commerce, education, entertainment, fashion, finance, healthcare, media, professional services, research and development, tourism, and transport all contributing to its prominence. Delhi is one of the most historic capital in the world and two of its monuments - the Qutab Minar and the Humayun's Tomb have been declared as World Heritage Sites. Delhi is also one of the greenest capitals overlooking the Yamuna River and the Northern Ridge. One of the seven wonders of the modern world, the Taj Mahal in Agra (200 km from Delhi), is the greatest monumental tribute to love and affection. A tour of India is never completed without a visit to the visual delight known as the Taj Mahal. The Pink City of Jaipur (265 km from Delhi), exuberant with color, is famous for its magnificent forts and palaces.

Transport System of Delhi

Ranked amongst the very best Airports, the Indira Gandhi International Airport is the gateway to New Delhi. The Airport has been named the "Best Airport" in the Asia-Pacific region by the Airport Service Quality (ASQ) program of the Airports Council International (ACI). Additionally, the airport has earned the distinction of being the "Cleanest Airport" in the Asia-Pacific region. The whole city is connected by the magnificent Delhi Metro. Moreover, New Delhi is connected to all parts of India through railways and roads.

Weather

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

Food

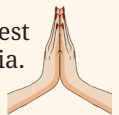
Delhi's population exhibit varied food habits. The Mughlai cuisine originated here. A variety of international cuisine and foods are easily available in the city. Indian kebabs, biryanis, and tandoori delicacies are worth experiencing.

Organiser

STBP-2024 is being organized by Society for Fusion of Science & Technology (SFST). The society comprises academicians, engineers, industrialists, management, and medical professionals from different walks of life. It has rich experience in bringing together professionals of national and international importance for the mutual benefit of researchers and industries.

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

Swagat! As we say Welcome



CALL FOR POSTERS

The organizing committee invites students, scientists, research scholars, academicians, and industry & management professionals to attend the Workshop and also contribute a poster (Exhibiting preliminary research findings along with novel and original ideas). Cash Prizes worth INR 6,000, 4,000, and 2,000 would be given to the three best posters. The workshop shall provide authors and participants with an opportunity to connect and engage in discussions about the new frontiers of research and innovations that will revolutionize the globe in 2050. The Workshop being very futuristic, shall catalyze the sustainable pathway for 2050.

The abstract of all accepted posters shall be published in the Book of Abstract. The organizers shall explore the possibility of getting in the book of abstracts indexed.

Please Submit the Abstract of your Posters

<https://forms.gle/R6zkFq8Y5saVxtrP8>

Abstracts will be evaluated according to the following criteria:

- Relevance
- Technical content
- Recommendation
- Timeliness
- Novelty and originality

Abstract submission is open as of 5th August 2023.

Benefits To Authors

The author of the Poster shall make the presentation during the STBP-2024. The workshop 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 horizons. Authors can take guidance from the best of the best in the field of their interest to further enrich their knowledge.

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

The poster presenter shall be required to register for the workshop. A registered delegate is permitted to present one poster only. The posters received without the registration fee will not be included in the workshop. The digital boards shall be provided for the poster presentation, and there shall be no need to bring a hard copy of the poster.

Copyright Policy

The copyright of the poster presented at STBP-2024 shall remain with the organizing committee of the workshop.



MAIN TOPICS

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

1. 2050 Vision for Transportation & Mobility
2. Futuristic TechWorld in 2050
3. Block-chain, Information Technology, and Smart Finance.
4. Agile and Resilient Logistics Pathways.
5. Future Advancement in Artificial Intelligence, Robotics, and IoT.
6. The changing face of Global Financial Eco-Systems: New Paradigm
7. Circular and Bio-Based Economy
8. Teaching-Learning Environment & Educational Leadership in 2050.
9. Green Manufacturing and Bio-Based/ Chemical Processes.
10. Pathways towards a regenerative future
11. Future-ready sustainable healthcare infrastructure
12. Industry 6.0

IMPORTANT DATES

Last date of Submission of Poster	December 15, 2023
Notification of selection of Poster	Within a week of its Submission
Last date for Registration of Accepted Posters/Other Delegates	December 25, 2023
Dates of Workshop	January 4-10, 2024
Dates of Lectures/Poster Presentation	January 4-8, 2024.
Scientific Tours	January 9-10, 2024

REGISTRATION

Registration for the workshop is mandatory. Please Register Online for one of the best Scientific/Technical Events in 2024.

	Foreign Delegates		Indian Delegates
Registration Fees	Platinum	Diamond	Rs. 15,000/- INR
	800 USD	400 USD	

NOTE

1. No financial assistance will be provided to participants for attending the workshop.
2. The workshop shall be held from January 4-8, 2024 and thereafter it shall incorporate Scientific tours.
3. The fee in US\$ is for Foreign Delegates only. Complimentary Scientific tours to Delhi-NCR, Agra & Jaipur shall be arranged for all keynote speakers and foreign delegates. The fees in the platinum category include 6-night hotel accommodation (on twin sharing basis) in a 4 Star hotel and local airport transfers.
4. Single Room supplement charges will be US\$ 300.
5. Any accompanying person e.g. spouse can also attend the workshop with the delegate at an additional payment of US\$ 700.
6. However, the hotel accommodation/local airport transfers are not included in the diamond category and they may contact the organizers for booking the same.
7. The fees for Indian delegates are only for attending the workshop
8. The Indian delegates may contact the organizers for scientific tours if interested.
9. Tea/Lunch during the workshop shall be complimentary for all delegates.
10. The foreign delegates registered under the Platinum category shall be provided with all meals during workshop/scientific tours.
11. Any entry fees during the scientific tours shall be borne by the delegates.
12. Check-in will be at 1400 hrs & check-out will be at 1100 hrs Local Time (Early check will be subject to availability and will be at hotel discretion)
13. The drop will be at Indira Gandhi International Airport Terminal 3 at 1800 hrs Local Time on January 10, 2024.



ORGANISING COMMITTEE

- **Prof. Surjit Angra**
NIT Kurukshetra
- **Prof. Naveen Kumar**
Delhi Technological University
- **Prof. R.C. Singh**
Delhi Technological University
- **Prof. Rajiv Chaudhary**
Delhi Technological University
- **Prof. Ranganath M Singari**
Delhi Technological University
- **Prof. Vinod Kumar**
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- **Prof. Ashish Karnwal**
KIET, Ghaziabad
- **Dr. Chandan Kumar**
BIT, Sindri, Dhanbad
- **Dr. Harveer Singh Pali**
NIT Srinagar
- **Dr. Parvesh Kumar**
Vaagdevi College of Engineering,
Warangal
- **Dr. Sidharth Bansal**
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JSSATE, Noida

ORGANISED BY

Society for Fusion of Science & Technology

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