



28th
ICFOST

**28TH INDIAN CONVENTION OF FOOD SCIENTISTS &
TECHNOLOGISTS**

**EMERGING AND ADOPTABLE TECHNOLOGIES FOR
SUSTAINABLE AGRO-FOOD INDUSTRIES AND
ECONOMY
(EAT-SAFE)**

20th to 22nd January, 2022
Aurangabad, Maharashtra
Venue: Hotel Rama International

Organized by

Association of Food Scientists & Technologists (India)
with
AFST(I)- Mumbai Chapter & Aurangabad Chapter



AFSTI
Empowering the Food Professional

Co-organisers



**CSIR-Central Food
Technological Research
Institute, Mysuru**



**DRDO-Defence Food
Research Laboratory,
Mysuru, Karnataka**



**Institute of Chemical
Technology, Mumbai**

About 28th ICFoST

India's food production has been consistent and encouraging, especially after the green revolution in the early 1970s. In spite of continued productivity constraints in the case of many crops, India's food production was significant and consistent. While “the future of food” could mean any number of things, the common denominator is the challenge underpinned by several of the United Nations’ Sustainable Development Goals: to feed the world in ways that are more equitable, healthy, and sustainable. Smart integration of technology can help design sustainable urban food ecosystems (UFEs) for the prolifically multiplying urban population in the developing world. Technology, especially recent advances in digital-enabled devices based on internet connectivity, is essential for building UFEs at a time when food production is increasingly limited on a global scale by the availability of land, water, and energy. By 2050, two-thirds of the world will be urban—and most of the net world population growth will occur in urban regions in the developing world. A food crisis is looming, with the developing world ill-prepared to sustainably feed itself.

The developing world constantly vouches for seeking solutions that can help minimize the environmental ill impact on the planet while providing easy, reproducible, and sustainable products. The close correlation between agricultural processes and natural conditions makes climate change a key consideration for farmers. With changing environmental scenarios, farmers are looking to technological innovations to adapt. Some are seeking protection from the elements with the help of enhanced greenhouses and vertical farming setups that can grow indoor crops year-round. Others are using “smart farming” tools to navigate climate-related challenges and to help optimize fertilizer levels and potentially improve crop yields.

India has a strong conviction that agriculture has to play a vital role in socio-economic transformation in developing countries and in securing a sustainable future for the planet. India is now focusing to enhance productivity, making post-harvest management robust, and giving farmers and buyers a unified national market for optimizing benefits to both. Sustainable agriculture offers a much-needed alternative to conventional input-intensive agriculture, the long-term impacts of which include degrading topsoil, declining groundwater levels, and reduced biodiversity. It is vital to ensure India’s nutrition security in a climate-constrained world.

To address and deliberate on the pivotal topics of Emerging and Adoptable Technologies for Sustainable Agro-Food industries and Economy, the Association of Food Scientists and Technologists (India) in association with AFST(I)- Mumbai and Aurangabad chapter is holding the 28th ICFOST at the Hotel Rama International, Aurangabad, Maharashtra during January 20-22, 2022.

Theme Details:

Sub themes:

- Food additives and metabolites
- Novel food and beverage processing technologies
- Valorization of food waste
- Eat right and Eat safe
- Dietary Supplements and Nutraceuticals
- Functional and designer foods for health and wellness
- Food Safety, quality, and regulation
- Farmer centric food technologies supporting rural livelihood
- Food and Nutritional security
- Emerging and adoptable technologies
- Food authentication
- Traditional foods
- Food and Agroprenurship
- Food biotechnology
- Societal outreach
- Sustainable food processing for circular economy
- Bioprocessing of agro-food resources



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About Organisers



AFSTI

Empowering the Food Professional

Association of Food Scientists and Technologists (India)

The Association of Food Scientists and Technologists (India) has been in existence since August 1957 and is registered under the Karnataka State Societies Act. This is one of the prominent and distinguished Food Association in the country reaching a global platform through professional membership of scientists, technologists and engineers, who are tomorrow's professionals. One of the fundamental objectives of the Association is to bring together members on a platform along with the experts in the field not only from India but also from abroad, along with the captains of the industries to share the commonalities of the cutting edge technology in today's changing scenario. It is in this context that the Association organizes the annual conference - ICFoST, which is attended by a large number of scientists, technologists and entrepreneurs. It hosts the international convention IFCoN once in five years; regularly conducts conferences and food expos; publishes Journal of Food Science and Technology (published by Springer) and the Indian Food Industry Magazine. The Association recognizes the achievements of food professionals through various awards.



Central Food Technological Research Institute (CSIR-CFTRI)

Central Food Technological Research Institute (CSIR-CFTRI) has been one of the prime institutions under Council of Scientific & Industrial Research under Ministry of Science and Technology, Govt. of India devoted to Food Science & Technology for more than six decades. The Mandate of the Institute includes ensuring food and nutritional security of the country through S&T interventions. The institute has been in the forefront in generating quality human resource for the development of food industry. The spectrum of programs offered are post-graduation in Food Technology, Integrated M.Sc.-Ph.D. in Nutrition Biology, Certificate in Flour Milling and short term training for entrepreneurs and Industry personnel. Over 250 students are pursuing their doctoral studies in food and allied subjects. Over the years, CSIR-CFTRI has brought out many innovative products and processes into the market in tune with the state-of-the-art R&D practices and the changing lifestyles of the consumers. Some of the pioneering efforts include introduction of infant foods, instant ready-mixes, parboiling of paddy, spirulina, health and wellness food products and recently the superfoods. Societal interventions have been the hallmark of the unique Institution and large number of farmers are empowered regularly on affordable and sustainable methods for value addition to agri-commodities contributing to rural economy and testing of samples.

About Organisers



Defence Food Research Laboratory (DFRL), Mysuru, Karnataka

The Defence Food Research Laboratory (DFRL), was established in 1961 under the aegis of Defence Research and Development Organization (DRDO), Ministry of Defence, Government of India, at Mysore especially to cater to the strategic operational requirements of Defence Forces and to provide logistical support in the area of food supplies and varied food challenges of Indian Army, Navy, Air force and other Paramilitary Forces. The R&D efforts at DFRL are aimed at designing and engineering lightweight and convenience pack rations for Defence forces which do not require any elaborate cooking or preparation at the consumer's end and remain shelf-stable under varying climatic conditions for periods ranging from 6 months to 1 year. DFRL, through the dedicated efforts of its scientists, has been able to conserve, preserve, stabilize, design, fabricate and engineer a vast array of food products of Indian dietary which are not only shelf stable under all weather conditions but also deliver adequate nutrition and energy to keep the morale of Defence Service personnel high at all times. Through substantive contributions, DFRL has developed a wide variety of food products of Indian dietary matching the mainframe palate/tastes of the country. Many of the DFRL foods, born out of innovative state-of-the-art technologies, lend themselves eminently suitable to industrial scale commercial exploitation by enterprising entrepreneurs of different genre and export as well. DFRL, a pioneer national institute also developed specialised food with suitable packaging and delivery system for space Mission.



Institute of Chemical Technology, Mumbai

Established on October 1, 1933 as University Department of Chemical Technology (popularly called UDCT) of the University of Bombay (now Mumbai), with the noble intention of advancing India's knowledge reserves in chemical science and technology, the Institute has grown to become a premier (deemed) university devoted to education, training, research and industrial collaboration in chemical engineering, chemical technology, applied chemistry, pharmacy, biotechnology and bio-processing. The then UDCT grew in stature over the years and was granted partial autonomy by the University of Mumbai in 1985, which was taken to the next echelon under the concept of autonomy propagated by the University Grants Commission (UGC). Due to its size and spread of activities, it was converted into University Institute of Chemical Technology (UIC) on 26th January, 2002 and under the TEQIP of the World Bank it was granted full autonomy in 2004. Upon strong recommendation of the UGC through a peer review process, the autonomous institute status was finally converted in to a Deemed-to-be-University by the Ministry of Human Resource Development (MHRD), Govt. of India, on 12 September 2008. The Government of Maharashtra granted it the Elite Status and Centre of Excellence in the State Assembly on April 20, 2012. This is a singular distinction accorded to any institute in the entire country and speaks volumes about the achievements of the ICT. On March 2018, ICT for the first times crossed the confines of Maharashtra when the institute inaugurated the "ICT Mumbai Indian Oil Odisha Campus" at Bhubaneswar on 18th March 2018. May 4th 2018 was another glorious day for ICT, when ICT officially established its second campus outside Mumbai.

Registration Details:



REGISTRATION

Participation is open to all individuals working in the field of food science and technology. All participants need to register and pay the required registration fee online on the given account. The event will be organized in Hybrid Mode (Virtual & Physical). Physical mode of the participation is First-Cum-First-Serve condition for registration, in view of the limited participation.



REGISTRATION FEES

	Early Bird Registration upto: 05-Dec-2021		Registration upto: 20-Dec-2021	
Category	Non member Online	Member Online	Non member Online	Member Online
Student* (Online only)	1000	500	1250	750
	Non member Physical/ Online	Member Physical/ Online	Non member Physical/ Online	Member Physical/ Online
Delegate (300)	5000 / 2500	3000/ 1500	6000/3000	4000/2000
International	\$100	\$50	\$110	\$75

*Research fellows and project assistants do not qualify for this registration as student member

*Student's participants will require to apply with copy of their latest and valid Student Identity Card

For online registration visit www.afsti.org/icfost

Sponsorship Details:

As this is a worthy cause for which AFST(I) is channeling its energy, governments at the center as well as at the state levels along with food industry have a crucial role to play through critical support. This can be done by way of any inputs as suggested below:

- a) By sponsoring a Technical Session.
- b) Publication of advertisement material in Souvenir.
- c) By sponsoring various catering events, registration kits and providing business promotional material.
- d) Effective distribution channel of promotional materials to delegates.

a) Session Sponsorship Package

SPONSORSHIP FEATURES	SPONSORSHIP CATEGORY		
	Platinum	Gold	Silver
Sponsorship amount in Lakhs	7.0	5.0	3.00
No. of free registration	4	3	2
Free Souvenir advertisement	Color Full Page	Color Full Page	Black & White Full Page
Speakers who can be nominated for the session	1	1	1
Company Logo on backdrop	Yes	Yes	Yes
One banner (25 sq. ft or less) provided by sponsor in the allotted place	Yes	Yes	Yes
Food Expo Stall	Yes	Yes	Yes

b) Catering Sponsorship Package

SPONSORSHIP FEATURES	SPONSORSHIP CATEGORY					
	Dinner (1)	Lunch (3)	Breakfast (3)	Technical Session	High Tea/ Coffee (2)	Session Tea/Coffee
Sponsorship amount- Rs. in Lakhs	2.0	2.0	1.0	0.5	1.0	0.5
No. of free registration	2	2	1	1	1	1
Free Souvenir advertisement	B&W Full Page	B&W Full Page	B&W Full Page	B&W Half Page	B&W Full Page	Black & White Half Page
One banner (25 sq. ft or less) provided by sponsor in the allotted place	Yes	Yes	Yes	No	Yes	Yes
Company Logo on backdrop/ One Speaker in session	Yes	Yes	No	No	No	No
Food Expo Stall	Yes	Yes	No	No	No	No

Sponsorship Details:

c) Delegate Kit Package:

Emblem & company address inside the flap	B&W – Full Page advertisement in souvenir	Rs 75,000/-	One banner (25 sq. feet or less) provided by sponsor in the allotted place
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d) Brochure/ Item in Registration bag: Rs. 15000/- per item

e) Poster awards: Rs. 20,000/- [Name, organization and place of the sponsor in award certificate]

f) Food Expo Offer upto 15-Dec-2021: Rs 25,000/- per stall of 3 m x 3 m dimensions

g) Souvenir Advertisement Tariff:

A4 Size (21x28 cm) multi colour. Advt: Material should be either in the form of ready positive or corel draw/PSD/Tiff/JPG format including link files in the CD. Art work also accepted.

Outer Cover (color)	Inside Cover (color)	Inside Back (Color)	Inside Full Page (color)	Inside Full Page (B&W)	Inside Half Page (Color)	Inside Half Page (B&W)
50,000/-	30,000/-	25,000/-	20,000/-	10,000/-	10,000/-	5,000/-



Important Dates and Registration details:

Submission of abstract on or before : 15.12.2021

Early registration for Physical mode ends on : 05.12.2021

Early registration for Online mode ends on : 05.12.2021

Souvenir advt. booking : 15.12.2021

Food expo stall booking : 15.12.2021

Registration

Participation is open to all individuals working in the field of Food Science and Technology. All participants have to register through E-mail: 28thicfost@gmail.com and a hard copy of the registration form is to be sent to AFST(I) office, CSIR-CFTRI campus, Mysuru-20 with DD/Multi-City Cheque/Other Payment Proofs in favour of AFST(I) CON. Web registration is also possible by using the link <http://afsti.org/icfost>

Mode of Remittance

All payments regarding registration, sponsorship, expo, etc., to be sent to Organizing Secretary, 28th ICFoST, AFST(I) Office, CSIR-CFTRI campus, Mysuru-570020, Karnataka and will have to be made through DD/Multi-city cheque favouring AFSTI CON payable at Mysuru.

E-Transfer Details:

Amount may be Transferred to one of the following Accounts:

- AFSTI CON A/c No. 64118977443, State Bank of India, CFTRI Branch, CSIR-CFTRI Campus, Mysuru, India., IFSC Code: SBIN0040055
- ICFOST-2021, a/c no. 40541391501 , IFSC code: SBIN0021139



About the convention and competitions

Oral Presentations

Researchers are requested to submit their abstracts based on original research work related to food science and technology along with short biodata to the Organising Secretaries by e-mail (28thicfost@gmail.com). Papers for oral presentations will be selected after scrutiny. Presenting authors must register for the conference. Abstracts not selected for oral presentations may be considered for poster presentation and the same will be intimated to the authors in advance.

Poster Presentations

Poster abstract should be submitted through online medium to the Organising Secretaries and if any queries e-mail to icfostposter@gmail.com on any field of food science/technology and allied areas with special emphasis in the themes provided. Presenting authors must register for the conference. Poster abstracts should be limited to maximum 150 words. The posters should be prepared with dimensions of 3 x 3 ft and the font should be bold and visible from a distance of 3 meters. For submission of posters, kindly refer the guidelines/format on <http://afsti.org/icfost>

Food Expo (Industrial Exhibition)

Food Expo is arranged during the ICFoST to show-case the food processing machineries, instruments, ingredients, processed foods, institutions and publishers. Interested may contact Organizing Secretaries to book their stalls. The tariff per stall of 3 m x 3 m Dimension is Rs 25,000/-

Award Ceremony

Recognition of the achievements of students, young scientists, professionals & industrialists will be held during the inaugural function of the convention.

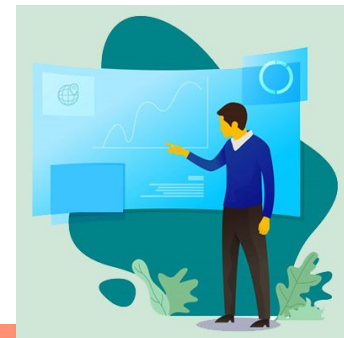
For further details about 28th ICFoST visit <http://afsti.org/icfost>

How to Reach the venue?

Welcome Hotel by ITC Hotels, Rama International, Aurangabad is located in Aurangabad. The Aurangabad Airport is 4 km. This business cum leisure resort is set at, the location of Chikalthana, Jalna Road, Aurangabad, Maharashtra 431003.

Accommodation

Delegates have to make their own arrangements for accommodation. However, few accommodation provisions and tariff will be uploaded in AFST(I) website. The same can be booked directly on first cum first serve basis. The delegates are requested to contact the Organising Secretaries in case of any help.



About Aurangabad

About Aurangabad

Aurangabad, known as the Queen of the Deccan and the city of 52 Gates has a long history. Archeological evidences suggest that the region was inhabited during the later stone age and early bronze age. The rock cut inscriptions at the caves of Kanheri mentions about the place known as Rajtadaga (modern Aurangabad). The rock cut caves of Ajanta & Ellora (famous for the 3D paintings & monolithic temple of Kailasa respectively) are the first monuments of India designated as the World Heritage Sites in India. Daulatabad (Devgiri) Fort is one of the most impregnable forts of the India is famous for its unique defense architecture. Khultabad a medieval town is famous for Sufi shrines and culture. The Jaikwadi Bird Sanctuary and Gautala Wildlife Sanctuary are the important natural sites. The most unique attraction is the Lonar Crater. The city of Aurangabad boasts of the Bibi ka Maqbara (Taj of the Deccan), Panchakki (Medieval Water Mill), Chatrapati Shivaji Museum and the historic University Gate. Paithani Silk Saris, Mushroom & Himroo Shawls, Copper & Silver inlay Bidri Works are important handicrafts in Aurangabad.

Shirdi is one of the holiest places in India and is a very popular pilgrimage spot. This place is famous for the shrine of 'Sai Baba', which is the main attraction for the devotees who visit Shirdi. Sai Baba, who belonged to 20th century, is known as one of the greatest saints to have walked on earth. The journey from Aurangabad to the pilgrimage site of Shirdi is smoothly covered by a bus in 2 hours.

Accessibility Details :

By Air : Aurangabad airport (Chikalthana) is conveniently located, around 4 km east of the venue of the conference, and is directly air linked to Mumbai, Delhi and Hyderabad. The other nearest airports are Shirdi (110 km) and International airport, Lohgaon, Pune (220km).

By Rail : Aurangabad is well connected to major cities of the country. There are daily trains to Mumbai, Delhi, Hyderabad/ secunderabad, Shirdi etc. The nearest railway junction is Manmad and Bhusaval of Northern central railway.

By Bus : Aurangabad city is well connected by road. There are several daily buses to major cities of Maharashtra run by State Govt.(MSRTC) and Private services. The interstate bus services are also available.



Organizing Committee of 28th ICFoST

Organizing Patrons

Prof. Aniruddha Pandit Vice-Chancellor, ICT, Mumbai	Dr. (Mrs) Sridevi Annapurna Singh Director, CSIR-CFTRI, Mysuru
Dr. Anil Dutt Semwal Director, DRDO-DFRL, Mysuru	Prof. Pramod Yeole Vice-Chancellor, Dr Babasaheb Ambedkar Marathwada University, Aurangabad

Chairperson

Dr. Uday S Annapure President, AFST(I)
--

Co- Chairperson

Dr. Alok K Srivastava President Designate, AFST(I)
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Organizing Secretaries

Dr. Vikas Singh Chauhan Hon. Secretary, AFST(I)	Prof. Bhagwan K Sakhale President, AFST(I) Aurangabad Chapter	Ms. Subhprada Nishtala President, AFST(I) Mumbai Chapter
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Conveners

Dr. Nandini P Shetty Joint Secretary, AFST(I)	Dr. Naveen Shivanna Hon. Treasurer, AFST(I)
Mr. Ritesh Mathur Hon. Secretary, AFST(I) Mumbai Chapter	Mr. Uday G Naik Hon. Secretary, AFST(I) Aurangabad Chapter

Organizing Committee of 28th ICFoST

Advisors

Dr Baskaran V	Rtd Chief Scientist	CSIR-CFTRI	Mysuru
Sri B Raghuramaiah	MD	Food Ingredients Specialties Pvt Ltd (FIL)	Chennai
Dr C Anandharamakrishnan	Director	Indian Institute of Food Processing Technology (IIFPT)	Thanjavur
Dr Chindi Vasudevappa	Vice Chancellor	NIFTEM	Kundli
Dr Jagadish S Pai	Executive Director	Protein Foods & Nutrition Development Association of India (PFNDAI)	Mumbai
Dr KD Yadav	Sr Vice President (Technical)	AAK Kamani Pvt Ltd	Mumbai
Prof K S M S Raghavarao	Ex Director	CSIR-CFTRI	Mysuru
Dr MM Krishna	Past President	Hyderabad Chapter, AFST(I)	Hyderabad
Dr Narpinder Singh	Professor	GNDU, Amritsar	Amritsar
Dr R Kumar	Additional Director	Defence Food Research Laboratory	Mysuru
Prof Rekha S Singhal	Head	Dept of Food Engeneering and Technology, ICT	Mumbai
Dr Prabodh Halde	Past President	AFST(I)	Mumbai
Dr Prasad R B N	Former Chief Scientist & Head	Centre for Lipid Research CSIR-IICT	Hyderabad
Dr SBK Warriar	Rtd Senior Scientist	Biochemistry and Food Technology Division, BARC, Trombay	Mumbai

Organizing Committee of 28th ICFoST

Members

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AFST(I)

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GM, Taiyo Kagaku India
Pvt.Ltd., Aurangabad

Chairpersons of All sub committees of 28th ICFoST