

25 BILLION MEALS A DAY BY 2025

with Healthy, Nutritious, Safe & Diverse FOODS



IUFoST 2018 INDIA

19th World Congress of Food Science and Technology

CIDCO Convention & Exhibition Centre, Navi Mumbai, India

October 23 - 27, 2018

Congress Host



IUFoST

IUFoST Adhering Body



INSA

Partner Institution



Institute of Chemical Technology, Mumbai

Event & Knowledge Partner

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Government of
Maharashtra



FOOD AND DRUG
ADMINISTRATION

POST EVENT REPORT



IUFoST 2018 INDIA



The **International Union of Food Science and Technology (IUFoST)**, the global voice of food science and technology in association with **Indian National Science Academy (INSA)** as IUFoST Adhering Body, organised the **19th World Congress of Food Science & Technology – IUFoST 2018 India** between **October 23-27, 2018** at **CIDCO Convention & Exhibition Centre, Navi Mumbai, India**. Institute of Chemical Technology (ICT) was the Partner Institution and MM Activ Sci-Tech Communications was the Event & Knowledge Partner for the event.

The focal theme for this edition of the prestigious congress was **25 Billion Meals a Day by 2025 with Healthy, Nutritious, Safe and Diverse Foods**. **Dr. V. Prakash**, Congress Chair IUFoST 2018 & Chair (Elect), Sci. Council of IUFoST and Vice President, IUNS, **Dr. Krishan Lal**, Past President of INSA was the Chairman of National Organizing Committee, **Dr. P G Rao**, was the Scientific Committee Chair, **Dr. M C Varadaraj** was the Poster Committee Chair and **Shri Jagdish Patankar** was the Organizing Secretary for 19th IUFoST World Congress.

The Event Spectrum consisted of Workshops, Scientific Sessions, Poster Sessions, Exhibition, Business Conclave, Competitions, Awards & Celebrations and Valedictory Function. Event saw participation from **175 International Speakers, 110 National Speakers, 31 Special Lectures, 66 Scientific Sessions, 469 Posters, 1321 Delegates, 100+ Exhibitors and more than 10,000 Visitors**.

INAUGURATION

The Inaugural ceremony was graced by the Chief Guest **Hon'ble Harsimrat Kaur Badal**, Union Minister of Food Processing Industries, Government of India along with the other dignitaries, **Prof. Dr. Dietrich Knorr**, President IUFoST; **Dr. V Prakash**, Congress Chair, IUFoST 2018 and **Shri Jagdish Patankar**, Organising Secretary, IUFoST 2018 Congress.

“We are capable of becoming a global food market. For this, we need to adopt the best of technologies. India is a market that nobody across the globe can afford to ignore for the sheer opportunities the country offers. India may be the largest producer of food, but it processes a mere 10 per cent of its produce, which consequently leads to very high wastage. In a country with growing population and shrinking land for producing food, food wastage is a major area of focus for our Government, and hence zero tolerance towards food wastage is one of the targets of my ministry”, said Hon'ble Harsimrat Kaur Badal during her opening address.



KEY HIGHLIGHTS

- **Keynote Address** by **Dr. R.A. Mashelkar**; FRS, National Research Professor, India titled “Mind to market place through game changing ASSURED Innovations”
- **Plenary Talk** by **Dr. Yongjing Li**; Regional President, Asia Pacific, DuPont Nutrition & Health, China titled “Macro trends boosting food innovation in Asia”
- **Distinguished Lecture** by **Prof. Dr. -Ing Erich Josef Windhab**; Full Professor, Food Process Engineering, Swiss Federal Institute of Technology Zurich (ETH Zurich), Switzerland titled “Trends and Food Quality Challenges in the Global Food System met by Physiology Guided Functional Food Structure Design and Tailored Processing”
- **Keynote Address** video message by **Prof. M.S. Swaminathan**, Founder Chairman of MSSRF and UNESCO Chair in Ecotechnology titled "Who Will Feed India in the Future?"
- **Plenary Talk** by **Prof. Dr. -Ing Stefan Palzer**; Chief Technical Officer, Nestle Research Center, Switzerland titled “The Food Revolution: Trends and Technologies Transforming the Global Food Business”
- **Plenary Talk** by ‘**Nutan Mumbai Tiffin Box Suppliers**’ (Dabbawallas) Charity Trust’, India titled “Reach-out of noon meals from home to office (home food)”
- **Plenary Talk** by ‘**Akshayapatra Foundation**’, titled “Reach-out of noon meals from mechanized kitchen to (network and chain across the country) school children – 120 million a day!”
- **Welcome Reception** after the Inaugural Ceremony was a mega hit as it witnessed entertainment programme “Colors of India” followed by best of Cuisines in Tastes of India
- **Gala Dinner** an exclusive networking programme was attended by who’s who of the Food Science and Technology fraternity
- **Valedictory Function** witnessed grand closure of the IUFoST 2018 Congress with awards, felicitations and announcements
- **The International Academy of Food Science & Technology (IAFoST)** organised fellow’s dinner for IAFoST fellows, early career & Young Scientist awardees
- **General Assembly** was conducted by IUFoST 2018 for its members



WORKSHOPS

4 Workshops provided the participants an experience of effective education and training.

Exploiting Internet Potential for Professional Development in Food Science and Technology by Daryl Lund, Don Mercer & Team | **The Global Food Safety and Regulatory Developments and Food Safety Validation & Verification** by Purnendu C. Vasavada, Larry Keener, Alvin Lee & Team | **Nutritionals and Nutraceuticals – Scientific Basis for Value Addition to Healthy Food Products** by Dilip Ghosh, R.B. Smarta & Team | **Food Engineering Paradigms for Positive Health Functionality and Impact** by K. Niranjan, Paul Singh, R. Anantheswaran & Team.



SPECIAL LECTURES

Some of the impact speakers addressing the conference were **Dietrich Knorr**, Berlin University of Technology, Germany; **Vijay Gupta**, World Food Laureate, India; **Trilochan Mohapatra**, Indian Council of Agricultural Research, India; **Lucia Anelich**, Anelich Consulting, South Africa; **Rickey Y. Yada**, University of British Columbia, Canada; **Anders Henriksson**, DuPont Nutrition & Health, Australia; **Ashok D. B. Vaidya**, Kasturba Health Society, India; **Venkatesh Mannar**, University of Toronto, Canada; **Zhou Guanghong**, Chinese Institute of Food Science and Technology, China; **Manfred Ruthsatz**, Global Nestle Health Sciences, Switzerland; **Panjab Singh**, National Academy of Agricultural Sciences, India; **Huub Lelieveld**, Global Harmonization Initiative (GHI), Netherlands; **C.K. Katiyar**, Emami Ltd. India; **Daryl Lund**, University of Wisconsin- Madison, USA; **Krishan Lal**, Global Network of Science Academy, India; **Mary Schmidl**, University of Minnesota, USA; **Fereidoon Shahidi**, Memorial University of Newfoundland, Canada; **Kenneth Petersen**, OSI Group, LLC, USA; **Pingfan Rao**, Zhejiang Gongshang University, China; **R.B. Singh**, Formerly of Central Agricultural University, India; **Nigel Sunley**, Sunley Consulting, South Africa; **Mahtab S. Bamji**, INSA Emeritus Scientist, India; **Larry Keener**, International Product Safety Consultants Inc., USA; **Prabodh Halde**, Marico Ltd., India; **Klaus Kraemer**, Sight & Life, USA; **Gurvinder Ahluwalia**, Digital Twins Labs, USA; **Narayana, D.B.A.**, Ayurvedye Trust, India; **Pawan Agarwal**, Food Safety and Standards Authority of India; **Lekh Juneja**, Rohto Pharmaceutical Co., Japan; **R. Paul Singh**, University of California, USA; **Bhushan Patwardhan**, UGC, India.

SCIENTIFIC SESSIONS

The IUFoST 2018, World Congress whose strength was in high science and current science witnessed in depth discussions & deliberations in the Keynote Addresses, Distinguished Lecture, Plenary Talks both from leading scientists and social groups, Special Addresses, Chair's Remarks in the Sessions, Invited Talks in the Sessions, Oral Presentations. All these were captured into the 11 themes of the Congress as listed as follows:

Scientific Themes & Topics for the congress were Nutritionals, Nutraceuticals and Functional Foods, Food Engineering, Traditional, Indigenous and Ethnic Foods, Food Chain Logistics and Food Packaging, Food Analysis, Food Quality and Safety, Chemistry and Biochemistry of Foods, Molecular Biology, Biotechnology and Microbiology of Foods, Food Composition, Nutrition, Health and Wellness, Value Addition to Agri. Materials through Innovative Food Processing for cost effective Food Products, Sustainable Food Security, Prevention of Food Losses & Wastes and Future Foods and Capacity Building & Leadership, Training, Informatics and Networking.

The Conference included 31 Special Lectures, 66 Scientific Sessions, 7 Plenary and Keynote lectures addressed by Food Sci-tech Experts from across the Globe.

Leading organisations also conducted and supported the session in the conference. Some of them were: DuPont, IFIS, Gain, Sight and Life, Ajinomoto, Coca-Cola, Pure Circle, Almond Board of California, Global Food Safety Partnership and GNT.

GLIMPSES OF SPECIAL LECTURES & SCIENTIFIC SESSIONS



POSTER SESSION

Students, Researchers and Young and Experienced Faculty had a great opportunity in participating in the Poster Presentation at IUFOST 2018. This was a place where they interacted with Global Scientific Fraternity in diverse facets of Food Science & Technology. Abstracts were invited based on following subject themes:

Focus Areas include:

Nutritionals, Nutraceuticals and Functional Foods, Traditional, Indigenous and Ethnic Foods, Food Engineering, Food Chain Logistics and Food Packaging, Food Analysis, Food Quality and Food Safety, Chemistry and Biochemistry of Foods, Molecular Biology, Biotechnology and Microbiology of Foods, Food Composition, Nutrition, Health and Wellness, Value Addition to Agri Materials Through Innovative Food Processing for Cost Effective Food Products, Sustainable Food Security, Prevention of Food Losses & Wastes and Future Foods and Capacity Building & Leadership, Training, Informatics and Networking.

534 Abstracts were shortlisted from more than 800 Abstracts received and **469** abstracts were presented by Poster Presenters.

The Best Poster Awardees were acknowledged with a Certificate by India Congress. Additionally, there was special mention of 12 presenters with Nestle Poster Award Certificate.



EXHIBITION

There were 100+ exhibitors from India & Overseas participating in the event comprising of Corporates, Leading R&D labs, Government Agencies, State & Central Governments and Budding Start –Ups, the key participants were MOFPI, Dupont, FSSAI, Vista Foods, Ajinomoto, Council of Scientific & Industrial Research (CSIR), Almond Board of California, ICAR, TRIFED, Coca-Cola, Pure Circle, Britannia, Elsevier, IFIS, TINI, Sight and Life, GAIN.

One of the important highlights of the exhibition was the Start-Up Pavilion which had 13 companies participating. We also had Food Science Students Fighting Hunger – Global Student New Product Development Competition which had 9 winners from International Universities participating in the exhibition. Awards were also presented in various categories like Interactive and Best Managed, Content & Information, Design Innovative and a special Jury Award.

The list of Awards are as follows:

Interactive & Best Managed

- Stable Micro Systems Ltd
- Indian Railway Catering & Tourism Corporation
- Gujarat Cooperative Milk Marketing Federation Ltd

Content & Information

- Council of Scientific & Industrial Research (CSIR)
- Marico Ltd
- Pristine Organics Pvt Ltd

Design Innovation

- Pure Circle Natural Ingredient Pvt Ltd
- IndiFOSS Analytical Pvt Ltd
- Kings Right

Jury Special Mention

- Ministry of Food Processing Industries (MoFPI)



BUSINESS CONCLAVE



"Business Conclave" was a co-located event that had a series of Industry based sessions, which was held on October 25-26, 2018. Business Conclave offered a powerful platform to the B2B attendees with Industry relevant topics such as Start-Ups & Entrepreneurship, Waste to Wealth, R&D Labs, Analytics & more, Food Ingredients- Way forward for Nutrition & Nutraceuticals.

The inauguration was done by **Dr. Pallavi Darade**, IRS, Commissioner, Food & Drugs Administration (FDA), Government of Maharashtra, in the presence of **Dr. V. Prakash**, Congress Chair IUFOST 2018 & Chair (Elect), Sci. Council of IUFOST and Vice President, IUNS; **G.D Yadav**, Vice-Chancellor, Institute of Chemical Technology & Member, National Organizing Committee.

The **"Waste to Wealth"** session was organised in association with Institute of Chemical Technology (ICT) Mumbai. **"Start-Ups & Entrepreneurship"** session was supported by Indian Dietetic Association (IDA) and Association of Food Scientists & Technologists India (AFST-i). The session on **"R&D Labs, Analytics & more"** was supported by NuFoodS Spectrum. Nearly 50 experts from various backgrounds were invited as Faculty Resource person to deliver talks and share expert views. All in all, the sessions were very well attended and provided a great networking opportunity and a bridge between industry, government, academia and associations.



IUFOST HONOURS

The International Union of Food Science & Technology (IUFOST) paid its gratitude with a memento of appreciation to stalwarts for the incredible service they have done in Food Science & Technology. The recipients of this award were:

Dr. R. A. Mashelkar, India

Dr. Yongjing Li, China

Prof. Dr. -Ing Erich Josef Windhab, Switzerland

Prof. M.S. Swaminathan, India

Prof. Dr. -Ing Stefan Palzer, Switzerland

Nutan Mumbai Tiffin Box Suppliers, India

Akshayaptra Foundation, India

AWARDS & CELEBRATIONS

IUFoST 2018 took an opportunity to acknowledge and applaud dignitaries and stalwarts with Life Time Achievement and Career Achievement Awards.

These awards were presented to:

Sr. No.	Award	Recipient
1	Charaka Life Time Achievement Award	Dr. Bhushan Patwardhan
2	Dhanvantari Life Time Achievement Award	Dr. Ashok B Vaidya
3	Patanjali Life Time Achievement Award	Dr. DBA Narayana
4	Poushtik Poshana Life Time Achievement Award	Dr. Mahatab Bamji
5	Sir M Visvesvaraya Life Time Achievement Award	Prof. G. D. Yadav
6	Srinivasa Ramanujan Life Time Achievement Award	Dr. Krishan Lal
7	Sushruta Life Time Achievement Award	Dr. C. K. Katiyar
8	Trillion Meals Life Time Achievement Award	Dr. Vijay M Gupta
9	Life Time Achievement Award	Dr. Trilochan Mohapatra
10	Life Time Achievement Award	Dr. Huub Lelieveld
11	Life Time Achievement Award	Dr. Larry Keener
12	Life Time Achievement Award	Dr. Panjab Singh
13	Life Time Achievement Award	Dr. R. B. Singh
14	Life Time Achievement Award	Dr. Pingfan Rao
15	Life Time Achievement Award	Prof. Luu Dzuan
16	Life Time Achievement Award	Dr. Lucy Huang
17	Life Time Achievement Award	Ms. Judith Meech
18	Life Time Achievement Award	Dr. M. Muralikrishna
19	Life Time Achievement Award	Dr. Parachuri G. Rao
20	Life Time Achievement Award	Dr. M.C. Varadaraj
21	Life Time Achievement Award	Dr. T.K. Srinivasa Gopal
22	Life Time Achievement Award	Dr. B.A. Shamasunder
23	Life Time Achievement Award	Dr. A.G. Appu Rao
24	Life Time Achievement Award	Prof. Kasturi Sen Ray
25	Career Time Achievement Award	Dr. Kazuo Miyashita
26	Career Achievement Award	Dr. Jay Kant Yadav
27	Career Achievement Award	Dr. Sangsuk Oh
28	Career Achievement Award	Mr. Prakash Badgujar



WORLD FOOD CONGRESS COMPETITIONS



Four Student competitions were held during the 19th World Food Congress in Mumbai, India.

1. IUFOST Young Scientist Competition

6 Young Scientists in their first post-doctoral position were selected by a team of international judges to present their research findings at Congress. This year's finalists were **Tonna A Anyasi** (South Africa), **Stefan Hubert** (Germany), **Matthew Min-Jeong Kim** (Singapore), **Matthew Moore** (USA), **Shikha Ojha** (Ireland) and **Azis Boing Sitanggang** (Indonesia).

2. IUFOST Food Science Students Fighting Hunger: IUFOST product development competition

8 Finalist teams attended Congress and showcased their innovative products in the exhibition area. The purpose of this competition was to encourage students develop innovative food products to fight hunger. The following were the finalist teams.

Five prizes were awarded for the following categories

Best Scientific Content. Winner: Team Hungry Hippos | Best Commercial Content. Winner: Team NABU | Best Oral Presentation. Winner: Team NABU | Best Display. Winner: Team Hungry Hippos | Best Overall Project. Winner: Team NABU

3. Food safety without borders IUFOST Graduate Student Paper competition

Food science and technology students enrolled in a M.Sc. or Ph.D. programme are invited to submit an academic paper with the objective of enhancing global food safety.

First Prize: Thulani Sibanda (South Africa)

Second Prize: Elena S. Inguglia (Ireland)

Third Prize: Lin Zhao (Singapore)

4. IUFOST Rose Spiess Awards for a sustainable food supply- Video competition

Food Science and technology students, under the age of 30, use video to spotlight the positive impact of food science and technology. The winning videos were screened at Congress. The following prizes were awarded.

First Prize: Team Tempeh, Atma Jaya Catholic University of Indonesia (Indonesia)

Second Prize: Team Tofu Waste, Sebelas Maret University (Indonesia)

Third Prize: Team Padjadjaran Food Research, Universitas Padjadjaran (Indonesia)

Honorable Mention: Team Food Challenger, Universitas Padjadjaran (Indonesia)



INTERNATIONAL PARTICIPATION

IUFoST 2018 witnessed excellent response from the entire world! There was representation from **74 countries** to attend this prestigious congress in India. All the 74 Countries include *Algeria, Argentina, Armenia, Australia, Austria, Bangladesh, Belgium, Brazil, Cambodia, Canada, Chile, China, Colombia, Congo, Dem. Rep, Costa Rica, Croatia, Denmark, Estonia, Ethiopia, France, Germany, Ghana, Greece, Guatemala, Hong Kong SAR, China, Hungary, Indonesia, Iran, Ireland, Italy, Japan, Kenya, Korea, Rep., Latvia, Lebanon, Malaysia, Malta, Mauritius, Mexico, Mongolia, Morocco, Mozambique, Myanmar, Netherlands, New Zealand, Nigeria, Peru, Poland, Portugal, Puerto Rico, Qatar, Romania, Russia, Rwanda, Singapore, Slovak Republic, Slovenia, South Africa, South Sudan, Spain, Sri Lanka, Sweden, Switzerland, Taiwan, China, Tanzania, Thailand, Turkey, Uganda, Ukraine, United Arab Emirates, United Kingdom, United States of America, Vietnam and Zimbabwe.*

VALEDICTORY FUNCTION

The event concluded with a grand Valedictory Function which had presentation of Selected Poster Awards, Nestle Poster Awards, Oral Presenter Awards, Exhibitor Awards and Start-Up Awards. As a tradition, IUFoST presented its flag to New Zealand who will be hosting 20th IUFoST World Congress 2020. The great Congress concluded with National Anthem of India sung by Team India and witnessed a unique way to see off the Delegates!

Namaste!!



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