

# IUFoST<sup>2016</sup>

## 18<sup>th</sup> World Congress of Food Science and Technology

Greening the Global Food Supply Chain  
through Innovation in Food Science and Technology

### Preliminary Programme



**Dublin, Ireland August 21st – 25th 2016**

Royal Dublin Society, Ballsbridge, Dublin, Ireland



[www.iufost2016.com](http://www.iufost2016.com)



#IUFoST2016



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## Welcome to Dublin, Ireland

It is with great pleasure and excitement that the Institute of Food Science and Technology of Ireland hosts the 18<sup>th</sup> IUFoST-World Congress of Food Science and Technology 2016, from 21<sup>st</sup> to 25<sup>th</sup> August in Dublin.

The congress theme is “Greening the Global Food Supply Chain through Innovation in Food Science and Technology”. It is a fitting theme, given that the location of the congress, Ireland, is committed as a matter of national policy to be a global leader in the production of nutritious, safe and sustainable food from grass-based production systems and clean oceans. The agri-food industry is Ireland’s largest and most critically important indigenous industry; a sector with a historic and proud tradition. Research, development, science and technology are major contributors to achieving a sustainable food supply chain.

The World Congress of Food Science and Technology will attract over 1,800 delegates (including food scientists, engineers, food industry professionals, thought leaders, decision makers, regulatory authorities and students) from around the world, with a significant presence from Europe, the Americas and Asia. It presents an important opportunity to engage with international companies and world class scientists (and their institutions), to discuss, showcase and initiate collaborations in food science, food technology, food innovation and indeed food business.

Some highlights of the congress will include:

- Keynote addresses by global experts from industry and academia
- The Inaugural IUFoST-hosted Global Food Summit
- The Food Industry Leadership Forum
- Over 80 sessions with distinguished international speakers
- Over 800 poster presentations
- International Food Industry Awards
- Food research and industry exhibition
- International Student Product Development Competition
- Young Scientist Awards
- A vibrant social and networking programme
- Quiz bowl and fun run

Log on to our website ([www.iufost2016.com](http://www.iufost2016.com)) to submit abstracts and to register, and to find more details about sponsorship and exhibition opportunities.

Please contact me to discuss any aspect of the congress (Declan Troy, **Email:** [declan.troy@teagasc.ie](mailto:declan.troy@teagasc.ie)) or the congress secretariat (Laura Egan-O’Brien, **Email:** [laura.eganobrien@teagasc.ie](mailto:laura.eganobrien@teagasc.ie))

We look forward to meeting you in Dublin, one of the most vibrant and business friendly capitals of the world, where innovation and collaboration are two sides of the same coin.



### Declan J. Troy

Chairman, Organising Committee World Congress of Food Science and Technology, Dublin 2016



### Pat Wall

Scientific Committee Chair





## 18<sup>th</sup> IUFoST World Congress August 21<sup>st</sup> – 25<sup>th</sup>, Dublin, Ireland

The 18<sup>th</sup> IUFoST World Congress of Food Science and Technology will facilitate the communication, exchange and sharing of knowledge at the frontiers of food science and technology. This congress will promote scientific advances in the production of nutritious, wholesome, safe and quality food and drink products on a global scale. The congress theme “Greening the Global Food Supply Chain through Innovation in Food Science and Technology” will focus on more efficient and sustainable food production.

### Congress Sessions

The congress theme will be addressed under eight distinct sessions:

- Innovation in food quality and processing
- Food supply chain and distribution systems
- Future foods
- Food sustainability
- Societal challenges in nutrition and health
- Local and global food safety and security
- Hot topics in food science and the food industry
- Special sessions

### Who should attend?

The 18<sup>th</sup> World Congress of Food Science and Technology will be the premier international food science and technology congress for academia and industry taking place in 2016! We are looking forward to welcoming over 1,800 food industry professionals, academic researchers, scientists, engineers, entrepreneurs, students and governmental agencies.

### Inaugural Global Food Summit – August 21<sup>st</sup>

Prior to the official opening of the congress, IUFoST will convene the 1<sup>st</sup> Global Food Summit. This prolific, Ministerial-level summit will be addressed by the Irish Minister for Agriculture, Food and the Marine, and brings together those who can affect strategic change to policies worldwide. The key areas that will be addressed are:

- Food research prioritisation and funding
- The global vision of the role of food science and technology in meeting societal and technological changes
- Mobilisation and implementation of the global vision

### The Venue

The RDS (Royal Dublin Society), located in Dublin city, is the largest conference and events centre in Ireland. There are 13 large halls and 15 breakout rooms on site. The vicinity of the RDS is steeped in heritage, with beautiful Georgian architecture, natural parks and the grand canal just a short stroll away. At night the variety of pubs, cafes and restaurants are a buzzing hive of activity for locals and visitors. The RDS is also ideally positioned to benefit from an excellent public transport infrastructure. See more at [www.rds.ie](http://www.rds.ie).

### Extensive Partnership & Exhibition opportunities exist

Please contact our Commercial Sales Team:

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## Preliminary Programme Overview

SUNDAY (Aug 21 <sup>st</sup> 2016)	
Time	INAUGURAL GLOBAL FOOD SUMMIT Global Strategies for Sustainability of Future Food Systems
9.00 – 9.40	Introduction – Dietrich Knorr, Incoming President Elect of IUFOST Keynote Address - Irish Minister for Agriculture, Food & the Marine
9.40 – 10.40	<b>International priority setting for research and research funding - <i>Future Earth</i></b> Gordon McBean, President of ICSU, Founder of Future Earth programme, Canada Mei Fangquan, Chinese Academy of Sciences, China Food and Agriculture Organization of the United Nations
	Break
11.00 – 12.40	<b>Global visions for the role of food science and technology to meet societal and technical changes - <i>Mapping the World</i></b> Anne Marie Hermansson, Chalmers University of Technology, Sweden / Peter Lillford, CBE, University of Birmingham, UK Lance O'Brien, Head of Foresight and Strategy, Teagasc, Ireland Ian Noble, Senior R&D Director and Head of Site, PepsiCo, UK Ingrid Appelquist, Research group leader and Food R&D policy leader - Food and Nutrition, CSIRO, Australia
	Lunch
13.45 – 15.10	<b>Mobilisation and implementation of policies by government and scientific advisors in the area of food science, food safety and food sustainability - <i>International Best Practice</i></b> Catherine Woteki, Under Secretary for United States Department of Agriculture's (USDA) Research, Education, and Economics (REE) mission area Maurice Moloney, Executive director and CEO, Global Institute for Food Security (GIFS), Canada Been-Huang Chiang, Minister for Health and Welfare, Taiwan
	Break
15.30 – 17.00	<b>Expert Panel Discussion: Action for Progress</b>  <u>Panel members include:</u> Irish Minister for Agriculture, Food & the Marine Delia Rodriguez-Amaya, President, Academy and Emeritus Researcher of Brazilian National Council of Scientific and Technological Advancement of Ministry of Science and Technology John McDermott, Director, CGIAR Research Program on Agriculture for Nutrition and Health, International Food Policy Research Institute Ruth Oniang'o, Chair Sasakawa Africa Association, Founder, Rural Outreach Kenya, Trustee CIAT International Centre for Research in Tropical Agriculture Satya Jonnalagadda, Director of Global Nutrition, Kerry Group
1800	<b>18<sup>th</sup> IUFOST World Congress of Food Science and Technology Opening Ceremony</b>
1900	<b>Welcome Reception</b>

## Congress Themes



## Preliminary Programme Overview

Time	MONDAY (Aug 22 <sup>nd</sup> 2016)								
830	KEYNOTE ADDRESS - Professor Louise Fresco, President, Wageningen University and Research, The Netherlands								
930	Novel technologies for non thermal food processing	Emerging pathogens	<b>Hot Topic</b> Too much of a tasty thing – where have the excesses of salt, sugar and fat consumption left us?	IUNS-IUFoST partnership: addressing global nutritional insecurity together	The European Federation of Food Science and Technology (EFFoST) session	ISEKI Food Association: integrating food science and engineering knowledge into the food chain	Nanodelivery systems for improved food safety and human health	IUFoST Food Security Panel - Sustainable and healthy food systems	
1055	Break								
1130	Protein sources of the future	Environmental sustainability in food processing	Contaminants in the food chain	Novel processing and packaging technologies	Risk and benefit communication: engaging with consumers	European Academy of Food Engineering (EAFE) session	Food Science and Technology in Latin America		
1255	Lunch								
1400	Ensuring safety and quality in the food distribution chain	 Sustainable resource management for the food industry	Big Data and cloud computing for the food industry	Food bioactives: metabolic pathways, metabolites, gut microbiota and health	<b>Hot topic</b> Global dairy processing for a demanding consumer	Quality aspects of new food formulations	Applications on Whole Genome Sequencing (WGS) for food safety: Benefits and potential drawbacks, with special considerations for developing countries	IUFoST Food Security Panel - Filling the production gap	
1525	Break					Break			
1600	Nano-enabled food processing and packaging	Omic approaches to ensure food safety	Carbon footprint of food systems - key metrics	Science communication: making food science and technology relevant and accessible for the public		Food industry waste management and valorisation	Food research partnerships in Europe - international programmes		
1725									
1745 - 1945	Quiz Bowl								

## Preliminary Programme Overview

Time	TUESDAY (Aug 23 <sup>rd</sup> 2016)							
700	Fun Run							
830	Plenary Session - Mr. Tom Arnold, Director General of the Institute of International and European Affairs, Dublin							
930	Minimal processing and hurdle technology	Health claims, regulations and ethics	Targeting specialised diets	State of the art in food authentication	Reducing food loss and waste through post-harvest action	IUFoST Food Security Division symposium: advances in food chemistry	Horizon 2020 research programme highlights	IUFoST Food Security Panel - Improving the efficiency of the food production system
1055	Break							
1130	Risk management for sustainable food production	Designing allergen-free foods	Hot topic International market insights and consumer trends	Cultural diversification in food production	Elsevier communication workshop	Advances in food chemistry	MENAFoST Symposium on MENA Food Safety Challenges Advancing Regional Initiatives to Enhance Food Safety, Security and Economic Security	
1255	Lunch							Break
1400	Antimicrobial resistance - a risk for food production?	 Sustainable global food supply networks	Regulatory developments, risk assessment and detection methods for engineered nanomaterials in food	Hot topic Marine food - sustainable and innovative processing technology	Sensors and Automation for the food industry Workshop	Food convergent innovation: Reinventing value addition for the health of people, planet and economy		International Commission on Microbiological Specifications for Food (ICMSF) session
1525	Break							
1600 – 1830	<b>The Food Industry Leadership Forum</b>  <b>Chairs:</b> Michael Knowles, VP Global Scientific & Regulatory Affairs (Retired), The Coca-Cola Company, Belgium Joseph Scimeca, Director, Global Regulatory Affairs, Cargill Inc., USA  <b>Panel members include:</b> Todd Abraham, PhD, Senior Vice President of Research and Nutrition, Mondelez Ian Noble, Senior R&D Director and Head of Site, PepsiCo, UK Creme Global							
2000	Optional Irish night							



Preliminary Programme Overview								
Time	WEDNESDAY (Aug 24 <sup>th</sup> 2016)							
830	<b>Plenary Session - Professor Barry Smith, Director of the Institute of Philosophy, University of London, UK</b>							
930	International best practice in technology and knowledge transfer in the food sector	International Symposium on the Properties of Water	Emerging process analytical techniques	Smart and novel ingredients	Sensory science in a changing world	Fellows of the European Research Council		
1055	Break							IUFoST Food Security Panel - Influencing the demand for food
1130	<b>Hot topic</b> Meat processing technology for a more demanding consumer	Sensory Food Network Ireland: ‘Sensory Science and Product Innovation’	Green control agents for the food industry	Food fortification and dietary supplements	Knowledge transfer and innovation for SME food producers	Sustainable cleaning in the food industry	Integration of pulsed electric fields for improving processing of plant based foods	
1255	<b>Lunchtime Symposium brought to you by Kerry From Infants to Golden Oldies, How Can We Optimise Muscle, Digestive and Immune Health?</b> <i>Chair: Satya Jonnalagadda, Ph.D., MBA, RD, Director of Global Nutrition at Kerry and guest speakers</i>							
1400	Business-to-business brokerage event for SMEs	Mitigation strategies for biotoxins	Organic food production – state of the art	Science-based needs for innovative food companies	The Western African Association of Food Science and Technology (WAAFoST) session	Young scientists’ workshop	<b>Quiz Bowl</b>	Horizon 2020 project - One health initiative
1525		Break						
1600		Food safety and harmonisation of regulations		Adulteration and traceability in the global food chain		The International Society of Food Applications of Nanoscale Sciences (ISFANS) session		Women in engineering and food technology
1725								
1930	<b>Gala Dinner - Mansion House, Dublin</b> (tickets on a first come, first served basis)							
Time	THURSDAY (Aug 25 <sup>th</sup> 2016)							
830	<b>Penary Session - Professor Stefan Palzer, Global R&amp;D Director for Beverages for Nestlé, Switzerland</b>							
930	Ensuring food security and accessibility for all		<b>Hot topic</b> Smart food ingredients		Food Engineering Forum	Personalised nutrition and nutritional biomarkers		
1055	Break							
1130	Labelling and legislation incl novel food regulation		Human microbiome and health		The Federation of Institutes of Food Science and Technology in ASEAN (FIFSTA) session	IUFoST Food Security Panel discussion		
1255	IUFoST 2016 panel discussion							
1420	Closing Ceremony and Awards							
1450	Break							
1520	IUFoST General Assembly							
1750								

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## The Food Industry Leadership Forum

**Tuesday, August 23<sup>rd</sup>, 16:00-18:00**

The Food Industry Leadership Forum will follow the congress theme “Greening the Global Food Supply Chain through Innovation in Food Science and Technology”. Four industry leaders will each give a 20 minute presentation on the importance of research to their company’s success and innovation strategy, such as for new products and processes, and what they see as research needs for the future. The presentations will be followed by an interactive panel discussion where audience members will be invited to participate.

Hear what industry experts have to say about the challenges their respective industries face and how the industry as a whole can work to achieve common goals.

*The Food Industry Leadership Forum is open to all congress delegates, participating sponsors and exhibitors*

## Awards and Competitions

The Congress honours industry innovation through its Global Food Industry Awards. This prestigious competition showcases the creative work of food innovators from around the world nominated by members of the food industry.

IUFoST is also committed to providing opportunities for the next generation of food scientists and technologists to demonstrate their involvement with today’s pressing issues and their creativity, knowledge and skill in addressing them. The Congress offers four opportunities to do both: the Young Scientist Awards, the Food Science Students Fighting Hunger - Global Student New Product Development Competition and the Food Safety Without Borders Graduate Student Paper Competition, both inaugurated in 2014 with impressive results, and brand new this year, the Food Sustainability Idea/Concept Development Competition, open to young scientists.

## Social and Networking Activities

### Welcome Reception

**Sunday, August 21<sup>st</sup>**

The welcome reception will take place in the exhibition hall of the RDS. This will allow delegates the opportunity to make acquaintance and catch up with old friends in a relaxed environment.

### IUFoST Quiz Bowl

**Monday, August 22<sup>nd</sup>**

A Quiz Bowl will be held in the RDS on Monday 22nd August, 17.45 to 19.45. Teams of 4-5 players will be asked questions covering a variety of academic and non-academic topics. Participants may apply as a team or as individuals to be assigned to a team.

### IUFoST Fun Run

**Tuesday, August 23<sup>rd</sup>**

Take a break from conference activities and join your colleagues on a fun run around Dublin and experience the city in the morning light.

### Optional Irish Night

**Tuesday, August 23<sup>rd</sup>**

Delegates will have the opportunity to take part in an optional Irish evening in the highest pub in Ireland, sampling Irish food and entertainment at its best.

### Gala Dinner

**Wednesday, August 24<sup>th</sup>**

The IUFoST gala dinner will take place in the Round Room at the Mansion House. The Round Room was built in 1821 for the much anticipated visit of King George IV.

For nearly 200 years the Round Room has continued making history and has been the venue of choice for historic events in Irish history - such as the proclamation of the Irish Declaration of Independence. On this night delegates will be treated to a sumptuous meal, followed by entertainment which will prove to be a memorable experience for all.

## Over 70 distinguished international speakers, including:

**Fergus Shanahan**, Director, Alimentary Pharmabiotic Centre (APC), University College Cork, Ireland

**Greg Yep**, Sr Vice-President, Kerry – Taste, USA

**Lilia Ahern**, Professor, Department for Process & Technology Development, Food and Bioscience unit, Sweden

**Ian Noble**, Senior R&D Director and Head of Site, PepsiCo, UK

**Brian McKenna**, Emeritus Professor of Food Science, University College Dublin, Ireland

**Michael Knowles**, VP Global Scientific & Regulatory Affairs (Retired), The Coca-Cola Company, Belgium

**Charles Spence**, Professor of Experimental Psychology, University of Oxford, UK

**Mike Gibney**, Professor of Food & Health, University College Dublin, Ireland

**Martin Cole**, Director, CSIRO Food and Nutrition, CSIRO, Australia

**Mary Schmidt**, Adjunct Professor, Department of Food Science and Nutrition, University of Minnesota, USA

**Marc Hendricks**, Professor, Head of Food Technology Laboratory, Leuven University, Belgium

**Michele Perchonok**, Human Research Program Science Management Office Manager, NASA, USA

**Anne Goldman**, VP Consumer Research, ACCE International, Canada

**Fereidoon Shahidi**, Professor, University of Newfoundland, Canada

**Satya Jonnalagadda**, Global Director of Nutrition, Kerry, USA

**Adam Drewnowski**, Director, Center for Public Health Nutrition, University of Washington, USA

**Todd Abraham**, PhD, Senior Vice President of Research and Nutrition, Mondelez

**Pingfan Rao**, Director, Institute of Biotechnology at Fuzhou University, China

**Wamwari Waichungo**, Vice President, Global Scientific and Regulatory Affairs, The Coca-Cola Company, USA



# IUFoST Statistics



**1500**  
Delegates



**350+**  
Students



**8**  
Themes



**85**  
Sessions



**60+**  
Exhibitors



**30+**  
Sponsors



**1**  
Global Food  
Summit



**4**  
Keynote  
Lectures



**70+**  
Lead  
Speakers



**69**  
Countries



**1000**  
Abstracts



**Fun**  
Run



**Quiz**  
Bowl



**Industry**  
Leader  
Forum



**Awards**  
and  
Competitions

## Register Now

The deadline for abstract submission is April 13th, 2016.

Registration for IUFoST 2016 is also open. Visit [www.iufost2016.com](http://www.iufost2016.com) for more information on how to register.

Register before 16<sup>th</sup> May to be eligible for the early bird reduced fee.

## Registration Fees

	Before 16th May	After 16th May
Full Delegate Registration	€645	€745
Delegate Registration Excluding Gala Dinner	€560	€660
Full Time Student Registration*	€360	€385
Full Time Student Excluding Gala Dinner*	€275	€300

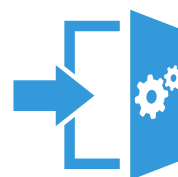
## Full Registration Fee includes:



Ticket to  
welcome reception



Conference  
materials



Access to all  
sessions and workshops



Access to  
exhibition area



Lunch and  
refreshment breaks



Ticket to the gala dinner

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## Bronze Partners



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t: +353 1 216 6685

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e: [colm@iufost2016.com](mailto:colm@iufost2016.com)

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