IFT19 Session Proposals: Track Descriptions

The following is the list of IFT19 track descriptions and subtopics to consider when submitting your session proposal.

Food Safety & Defense Track Description

The food safety and defense track will consider sessions addressing current or hot topics in several areas including microbial and chemical food safety and defense systems and their components (e.g., risk assessment, management, and communication, traceability, quality systems, product testing, auditing, crisis management, recalls, laws and regulations, and standards).

Allergens	Hazard Assessment (Chemical, Physical & Microbiological)
Food Fraud	Quality Assurance & Control
Food Safety Modernization Act	Shelf Life
Food Traceability	Spoilage Organisms

Teaching & Learning

Sessions in the Teaching & Learning track are designed to model adult learning research and ultimately enhance the effective delivery of food science education. These sessions are geared for academicians or those outside of traditional academic settings with an interest in teaching, learning and extension/outreach.

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Topics:
Publication of Teaching and Learning Outcomes
Tools for student centered food science education (problem-based learning; case studies)
How to conduct research on teaching and learning: e.g. Panel Discussion with JFS
published authors; templates
Best practices addressing topics such as:
 general teaching and learning strategies
 teaching core sciences (we suggest focusing on 1-2 core sciences per year)
Higher Education Review Board guidelines
developing lesson plans
 transforming your laboratory from "follow the steps" to a project-based experience
Skill development addressing topics such as:
Improving students' critical thinking
 Improving students' writing without burying you in paper
Ethics
 Developing effective scoring rubrics for you, your TA and students
Leveraging peer review
 Improving effective student writing to different audiences
Presentation Skills; oral and poster
Leveraging technology for learning (i.e. distance learning, social media); how to
incorporate technology to enhance learning); rubrics for developing and delivering,
online courses assessing online learning, participatory methods and techniques for
successful online teaching
Critical Thinking: Differences between learning online and in classroom; case studies, e.g.
food safety/outbreaks, students develop concepts; troubleshooting; application of concepts

Learning assessment (i.e. designing tests to maximize learning); Outcome assessment; how students can apply their knowledge

Grant writing relevant to teaching and learning / Securing outside funding resources

Collaboration across industry-academia-government-NGOs in the era of 'open innovation' 75 years of Teaching & Learning Milestones (i.e. case studies on where the lab was, where it is now, where it is going)

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Using simulation to enhance education

Helping students learn how to learn (study skills, study habits, time management, how to use the library, information literacy)

Incorporating regulations into food science curriculum (regulations around food additives, innovative substances that cannot be added without being on a list, EU regulations, individual countries, WHO, Codex)

Bringing faculty and students together to hear directly from students how they effectively learn; where their needs lie

Food Health & Nutrition Track Description

This track will present emerging research in nutrition and health. Key issues include the science behind dietary guidance; relationships between food / ingredients and health throughout the lifespan; labeling initiatives; and technology for the food-based management of health conditions.

Protein	Microbiome
Dietary & Health Guidelines	Omics
Dietary Supplements	Personalized Nutrition
Food Myths & Fads to Address Misconceptions	Prebiotics & Probiotics
(GMOs, Sugar, etc.)	
Functional/Medical Foods	Sugars & Sweeteners
Sports Nutrition	Vitamins & Minerals

Food Processing & Packaging Track Description

This track will focus on food processing and packaging to improve quality, efficiency, sustainability or to lead to development of new products, processes, packaging materials or techniques. Sessions will seek to improve understanding and application of scientific principles of new and existing food processing and packaging technologies.

Chilling & Freezing	High Pressure Processing		
Dehydration	Microencapsulation & Nanoencapsulation		
Emulsion Technologies	Mixing & Blending		
Extraction	Nonthermal Processing		
Extrusion	Process Control & Instrumentation		
Fermentation	Food Processing/PackagingEquipment		
Filtration & Separation	Thermal Processing		

Product Development & Ingredient Innovations Track Description

This track will focus on the primary aspects of the development and introduction of new food and beverage product innovation to the global marketplace. This category includes consumer research, product innovation procedures and related business information, as well as the technical and marketing aspects of product development.

3D Printing	Fruits & Vegetables		
Antioxidants & Preservatives	Global Markets & Trade		
Aquatics or Aquaculture	Marketing		
Baby Foods	Meat & Poultry		
Bakery	Mergers & Acquisitions		
Beverages	New Products & Culinary Trends		
Botanicals or Bioactives	Other Technologies		
Colors	People & Companies in the News		
Confectionary	Pet Food		
Consumer Trends	Proteins		
Dairy Foods & Products	R&D		
Enzymes	Refrigerated & Frozen Foods		
Fats & Oils	Clean Labelling		
Fiber	Sodium & Salt Replacers		
Fish & Seafood	Soups, Sauces & Dressings		
Flavors	Spices & Seasonings		
Fried Foods	Stabilizers & Emulsifiers		
Foodservice / Food Retailing / Food Quality	Starches / Snacks		
Formulation	Supply & Price Indexes		

Sustainability Track Description

This track will showcase the efforts of food industry, academia and government to develop and ensure a sustainable food supply. Efforts include the science and technology behind food sufficiency, product development and packaging, ingredient sourcing water, energy, and waste management among others, as well as the business aspects of environmental.

Biotechnology	Life Cycle Analysis		
Food Security / Food Waste	Water		
Global Food Security	Management & Energy Management		

Public Policy. Food Laws & Regulations Track Description

This track will discuss the practical, real-world implications for the food and feed industry of legislative, regulatory, and judicial developments on a U.S. and global scale. It will include issues arising in such areas as food safety and food defense, food labeling and marketing, and import/export requirements for food and feed, and will address the implications of these issues for consumers, producers and marketers, and other members of the public.

Non-GMO	Organic
Food Importing	Food Industry & Legal Perspectives

Food Microbiology Track Description

This track features sessions highlighting cutting edge research and developments in food microbiology, including detection and quantification methods, quality control, survival of microorganisms throughout the food continuum and processing environments, preventive controls of pathogens, characterization of emerging pathogens, and microbiology of health and wellness foods. Presentation of case studies, education, and sharing of best practices will be encouraged.

Probiotics	Processing Applications & Technologies

Food Chemistry Track Description

This track will showcase presentations of novel basic and applied research relating to chemistry and analysis of foods.

Bulking Agents	Carbohydrates (cereals, grains, seeds, legumes, pulses) / Antioxidants

Food Engineering Track Description:

This track will present basic research pertaining to food engineering including measurement, modeling and control of food processing systems. The food engineering sessions will address categories such as transport processes; physical, chemical and microbiological properties; integration of transport processes and kinetics leading to quality, safety predictions, and connections between food and health.

Nanotechnology / Rheology	Food Systems, Methods & Challenges

Sensorv Science Track Description

Sessions offered in this track will address the latest advancements in the science of sensory and consumer research, with applications to product development and marketing research.

Sensory Science			