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Collaboration and Action to improve Food Systems results from International Science Council (ISC) hosted Food Conference led by IU FoST and IUNS (International Union of Nutritional Sciences).

After the just ended UN Climate Change Conference (COP 26), the UNFSS, the 76th UN General Assembly and after Covid pandemic stress, it was agreed that the scientific community should come together to work for change as we started doing with this collaboration between IU FoST and IUNS. These collaborations will grow to other Unions and organisations with the support of countries and partners in order to provide comprehensive solutions to food systems transformation for a world that has the resources to feed itself today and tomorrow with a healthy diet. It was also noted that during Covid outbreaks and other calamities Traditional Foods plays a central role in sustaining populations and in order to popularize its use, there is need to adopt, upgrade and adapt small scale processes and small-scale entrepreneurship from which they are produced. (A copy of Dr. Aworh's presentation on this subject is available on the IU FoST website under [Resources](#).)

This conference, ***The Power of Food Science and Technology and Nutrition for Sustainable Planet Health*** was co-chaired by Dr. Vish Prakash (IU FoST President) and Professor Alfredo Martinez, (IUNS President) over two days on November 16 and 17, at the invitation of and hosted by the International Science Council.

The first day programme featured two sessions each from IU FoST and IUNS. In IU FoST Session One: *Innovations in Food Science and Technology for Sustainable Food Processing* featured a look at present and future FS&T innovation through Alexander Mathys' *Novel food production and diets for more sustainable food systems*, and Mitsutoshi Nakajima on the subject of *Sustainable Solutions through Disruptive Technologies* and Susana Socolovsky and Roger Clemens who addressed how *Food Processing Saves Lives: Clearing up the Confusion and Controversy About Processed Food and Health*.

The next IU FoST session focussed on *Integrating Capacity Building and the Future of Food Science*. Here the necessity of FS&T education and collaboration across disciplines to meet future needs and demands were outlined by Sam Saguy. Ferruh Erdogan brought forward the many aspects of the *Engineering of Food Science* for the future and Boing Sitanggang provided a perspective on the opportunities and challenges faced by young scientists. In conclusion, we need to adapt, collaborate, bring in many other sciences to meet the demands of the future and to train young scientists.

On the second conference day, four global leaders led the IU FoST session *Sustainable Food Safety in Food Processing*. Samuel Godefroy, Ratih Dewanti-Hariyadi, Charles Aworh and Carol Wallace shared their rich experience and perspectives, and collectively presented a comprehensive reviews of various important aspects of food safety including regulatory policy, microbiological standards, traditional foods and processing, and cultural and behaviors. This session was an essential and integral part to this deep dialogue that brings the communities of food science and technology and nutrition together to more effectively address the relevant SPG goals. (Presentations will be available through IU FoST website).

The Nutrition Sessions from IUNS complemented the IU FoST Sessions with their focus on healthy diets, and non-communicable disease prevention through dietary intervention, the role and importance of the first 1000 days of the Child and the role of youth and early career scientists in all the three above areas. These were the subjects of the IUNS session on *Nutrition Target and Health Goals*. The role of agricultural biodiversity in nutrition, urbanisation and dependency on unhealthy diets partly due to increased consumption of food prepared away from the home have contributed to the increasing double burden of obesity and diabetes and unsustainable lifestyle. In this second IUNS session *Sustainability for Nutritional Health*, plant-based foods were seen as part of the solution for the increasing cases of obesity and diabetes around the globe. The session on *Value of Nutrition in Pandemics* focussed on immune systems and the role of healthy diets such as Mediterranean diet and CVD, omics applications in precision nutrition and the measurement of nutritional parameters by modern tools in understanding diet quality and nutritional outcomes. Retaining nutrients as food travels through the Food Chain from farm to consumer, and through processes is seen as one of the continuing challenges.

The issues of consumer education and awareness were highlighted in many of the sessions and the need for communications targeted not just to the scientific community but tailored for the non-scientific community and consumers of every age – taking science to people. The joint programme ended with a global discussion around many issues that were addressed by speakers and chairs, focussing on sustainability and resilience of food systems through the



application of Food Science and Technology and Nutritional Sciences. All PPT presentations for the conference are available through ISC at <https://council.science/events/food-science-technology-nutrition-sustainable-planet-health/>. A full report of the conference and its outcomes will be forthcoming.

Codex accepts Conference Room Document introduced by IUFoST for their 44th Session of the Codex Alimentarius Commission (CAC44). The subject of the Document – *IUFoST Providing Food Science and Technology Expertise and Solutions – Supporting the CODEX Mandate* – was prepared by the IUFoST Codex Committee as IUFoST raises its profile as a key scientific resource in CODEX through more active involvement. IUFoST Codex Committee members are Sam Godefroy, Charles Aworh, Pamela Byrne, Nik Daud, Lara Hanna Wakim, Jairo Romero, Kazutaka Yamamoto and Amine Kassouf as the Early Career Scientist representative to the Committee. The text of the IUFoST Codex document for CAC44 [is available here](#). Please distribute freely.

IUFoST Education Roundtable underlines the importance of capacity building to understand the science of food and nutrition.

In the Roundtable Closing Remarks, Dr. Aman Wirakartakusumah, IAFoST Presiding Officer, reiterated that food science, technology and engineering are at the heart of disruptive evolutionary processes where there have been exponential changes in science, innovation and digital transformation. The importance and thoughtful ideas in anticipating future food science education were illustrated by Sam Saguy, Ferruh Erdogdu and including Dr. Gunter Kuhnle from the nutrition side.

We need to create an environment where conventional food sciences can flourish along with the nutrition and health effects of foods – not one at the expense of the other.

In anticipating the Development of Future of Food Science Education, much work needs to be done by the education working groups of IUFoST → gap analysis, strong leadership, and paradigm shifts. But we may use a customized approach to fit into local needs. It is obvious that FS&T education is a multidisciplinary approach.” Please refer to full text [here](#).

Scientists in the News:

We congratulate Dr. Charles Aworh, Presiding Officer Elect of IAFoST for his outstanding achievement as addressed in the Valedictory Symposium held for him on November 9 2021. The text of his speech is included [here](#).

We also congratulate Dr. Erich Windhab, IAFoST Fellow and IUFoST Distinguished Lecturer of 2018 on his retirement and his award from EFFoST for Lifetime Achievement received on 4 November. [Here](#) is his Farewell Lecturer Video to ETH Zurich on *Engineering Bubbles, Chocolate and PhDs*.

Nominations Underway

Nominations are open for the following IUFoST awards and recognitions:

1. Nominations have opened for the *IUFoST Lifetime Achievement Award and Young Researcher Award - 2021*. [Criteria and nomination forms are available here for the Lifetime Achievement Award nominations](#). You will also find these under Awards and Honours on the IUFoST website: (www.iufost.org).
2. [The Young Researcher Criteria and nominations form are available here](#) or under Awards and Honours on the IUFoST Website. **The deadline for nominations for Lifetime Achievement and Young Researcher Awards is 25 November 2021.** The previous outstanding scientists who have been Lifetime Achievement Excellence Award recipients and Young Researchers to date are also included in these pages. Nominations are open to all.
3. Nominations for *Distinguished Lecturer Singapore Congress 2022* are open from IUFoST Members and Fellows. The **nominations close on 25 November 2021**. The Nominations made be made here: <https://www.iufost.org/webform/iufost-world-congress-distinguished-lecturer-nominations-form>
4. Nominations for *IAFoST Fellow - Fellowship in the International Academy of Food Science and Technology* are open from IAFoST Fellows and IUFoST Members. The criteria and form are available through <https://www.iufost.org/webform/nomination-form-academy-fellow-2022>. The **nominations close on 10 December 2021**.

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