

Wed. Sep 4, 2019

Hall A

Keynote Lecture | Postharvest/Food Technology and Process Engineering

[4-0900-A] Keynote Lecture 4th

Chair: Amauri Rosenthal(Embrapa Food Technology, Brazil)

9:00 AM - 10:15 AM Hall A (Main Hall)

[4-0900-A-01] Biotransformation in Changing World: New Challenges for Food Scientists

*Alaa El-Din Ahmed Bekhit¹ (1. University of Otago(New Zealand))

9:00 AM - 9:30 AM

[4-0900-A-02] Postharvest Technology and Food Engineers' role in Agribusiness Value Chain in Africa

*Akindele Folarin Alonge¹ (1. University of Uyo(Nigeria))

9:30 AM - 10:00 AM

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[4-0900-A-01] Biotransformation in Changing World: New Challenges for Food Scientists

*Alaa El-Din Ahmed Bekhit¹ (1. University of Otago(New Zealand))

Keywords: Biotransformation

Current and future production trends are focussed on minimizing waste generation by improving processing conditions and developing novel technologies that enable the use of materials that have been traditionally discarded. There are obvious economic, environmental, and in many cases nutritional benefits to be gained by transforming food waste and by-products into better utilised and value added products. However, with the diversity of by-products generated (for example ranging from soft unstable material such as fruit pulps to hard stable seafood shells and wool slips), represents a major technological challenge for both industry and researchers. Furthermore, changes in consumer attitudes toward food consumption (high protein diet, low carbohydrate diet, alternative protein, alternative food, plant-based diet and so on) creates a paradigm shift in the type and quantities of what is considered as waste or by-products. This changing trend in food production and consumption, requires food scientists to be more adaptable and have wider range of skills to meet future challenges. This presentation aims to highlight some of challenges that are faced during the transformation of food waste/by-products and discusses skills that may be required by future food scientists.

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[4-0900-A-02] Postharvest Technology and Food Engineers' role in Agribusiness Value Chain in Africa

*Akindele Folarin Alonge¹ (1. University of Uyo(Nigeria))

Keywords: Agribusiness, Value Chain, Africa

Agriculture and investment in the agribusiness space has been identified as the single greatest potential source of inclusive growth in Africa. Nigeria population is currently about 190 million. Nigeria's population expected to be 250+ million by 2030 and over 400+ million by 2050. This requires an urgent planning and aggressive execution of programmes that will bring about growth in key elements of the economy. The government has identified agriculture as one of the areas to diversify economic to avoid decline in economic growth of the nation. Agricultural sector is the dominant sector contributing a lot to Gross domestic product and crop production remains the major driver of the sector for a large percent of nominal agriculture GDP. There is need to modernize agriculture such the dominant smallholder farmers can be motivated to do more. Innovations and technologies, value addition and good government policies will enhance productivity. Postharvest and Food Process Engineers will play a major role in helping to add value through processing, storage, packaging of the agricultural crops livestock and food produce.