



Michael O. Ngadi, PE

Michael O. Ngadi, PE, is the recipient of the 2023 International Food Engineering award for his leadership in teaching and training, while conducting world-class research and supervising food and bioprocess engineering projects.

Ngadi is a James McGill professor at McGill University where he teaches and directs multidisciplinary research related to food processing technologies, sensors, hyperspectral imaging, optimization of food quality and safety, microstructure and properties of foods, packaging and advanced emerging technologies for ensuring optimal quality and safety of foods, as well as designing nutrition sensitive value chains. He also focuses his research on nutrition-sensitive food processing and the application of computer vision for image-based diet assessment and nutrition monitoring

Ngadi has made significant contributions to global nutrition sensitive-agriculture by directing and coordinating large scale, multidisciplinary, and international effort to address some of the current pressing challenges of malnutrition. Ngadi has made significant contributions to food frying research by providing new understanding on properties of foods and mechanisms of heat and mass transfer during frying. His work has led to development of novel techniques for reduction of fat absorption in fried foods. Ngadi has also contributed in advancing applications of hyperspectral imaging for non-destructive assessment of food quality and safety. Aspects of his work in this area have resulted in game changing solutions particularly in the pork and poultry sectors. Ngadi has successfully leveraged advances in science and tech-

nology to tackle some of the pressing challenges of food security and triple burden of malnutrition. He has directed and coordinated large scale, multidisciplinary international projects on food systems, food security, nutrition sensitive agriculture and value chains that have impacted millions of people in Asia, the Caribbean, South American and Africa.

A 27-year ASABE member, Ngadi also maintains membership with the Institute of Food Technologists, Engineers of Nova Scotia, and the Canadian Society for Bioengineering (CSBE-SCGAB)

Ngadi has authored or coauthored 250 refereed papers, 2 books, 9 book chapters, and 300 conference proceeding papers. Ngadi also holds 4 US patents and has 2 additional patents pending. Throughout his career, Ngadi has received a number of awards. Most recently, he received the K.Y. Lo Medal from the Engineering Institute of Canada, Sukup Global Food Security award from ASABE, and the Award of Excellence from the African Networking Group of the American Society of Agricultural and Biological Engineers. Ngadi is a fellow of the Canadian Society for Bioengineering (CSBE/SCGAB) and of the Nigerian Institute of Agricultural Engineers (NIAE).