



IN MEMORIAM
Dr. Malcolm Bourne

Dr. Malcolm Bourne, Past President of the International Academy of Food Science and Technology (IAFoST), died peacefully at his home in Geneva, New York, USA, on October 3, 2016. IUFOST acknowledges with deep appreciation Dr. Bourne's service to and leadership in both IUFOST as a member of the Governing Council, President of The International Academy of Food Science and Technology 2003-2006 and in the global food science and technology community.

Dr. Bourne became Emeritus Professor of Food Science at the New York State Agricultural Experiment Station campus of Cornell University in 1995, the culmination of a long career as a distinguished food scientist that began with a love of chemistry discovered at the age of 13. This led him to obtain a BSc in Chemistry at the University of Adelaide, after which he worked in the food industry in Australia for nine years. He completed a MS in Food Science and PhD in Agricultural Chemistry from the University of California, Davis. He then joined the faculty of Cornell University as a full-time research professor at the Agricultural Experiment Station, retiring as an Emeritus Professor.

Dr. Bourne's areas of concentration were texture and rheology of foods; processing and quality factors of fruits, vegetables and legumes; international food development; and post-harvest food systems. His focus on the importance of texture as a food-quality attribute and development of improved methods for measuring texture, including adaptation of a strength-of-materials testing machine, spans more than 45 years and influenced the industry. His definitive textbook on texture, *Food Texture and Viscosity - Concept and Measurement*, published in 2002, remains in use today.

Dr. Bourne lectured and taught short courses in food texture throughout the United States and in more than 40 countries. He worked to advance the use of good-tasting soy milk in Asian countries where malnourishment was prevalent, headed up a Chinese government-sponsored symposium in 1984 to further agriculture in China, spent two years helping to set up a graduate food science department at the University of the Philippines in Los Banos, and lectured long into retirement around the country and the world, as well as mentoring students and others in their fields of study.

Post-harvest food loss was a special interest, and Dr. Bourne worked to spread the word and solutions for decades through papers, lectures, encyclopedia articles and upper level classes at Cornell University. He has been an advisor to the US Agency for International Development, the UN Food and Agriculture Organization, the World Bank, the Organization of American States and other groups on using food preservation technologies to reduce post-harvest food losses in developing countries to reduce hunger and increase food security.

Dr. Bourne authored 130 papers in refereed journals, 40 chapters in books and encyclopedias, and four patents. He was a Fellow of IAFoST, IFT, IFST, AIFST, the Royal Australian Chemical Institute. He received many awards and honours over his long career in food science, including the Nicholas Appert Award (2011) from the Institute of Food Technologists (IFT) and the Ohio State University 2014 Harris Award for Excellence in Food Science and Technology.



In Tribute

Malcolm was one of nature's true gentlemen, offering wisdom and sage advice to all who sought it. He was a respected and honoured food scientist, and I am grateful to have known him. He will be sadly missed by all his friends and colleagues down under, and especially throughout the developing world.

Ken Buckle (Past President of the Academy)

Malcolm was my teacher at Cornell from 1974-1978. Ever since I took his course 0247 Post Harvest Food Losses in the Fall of 1977 at the Department of Food Science and Technology, Cornell University, Ithaca, New York, I have had great admiration for him as a teacher and mentor. He encouraged me greatly in my work on post-harvest food loss reduction over the years and had a pronounced influence on my career. He was one of my official references and he gladly provided references for me whenever they were needed. He wrote the Foreword to my latest book "Lesser-known Nigerian Fruits and Vegetables: Post-Harvest Handling, Utilization and Nutritional Value" published in 2014.

Malcolm will be sorely missed. He was an inspiration and a truly great individual with a very large heart. He was not just an outstanding scholar and one of the most accomplished food scientists of our time whose record of achievements is well known globally, he was a unique human being of the best kind.

Charles Aworh (Fellow of the Academy)

I am extremely sorry that our friend and Fellow Malcolm has left us. Malcolm was a truly devoted person, he shared his broad knowledge with his students and fellow scientists around the world in an inspiring but humble and dedicated way. He was one of the pillars on which IUFOST built its scientific reputation and its dedication to comply with its mission. Malcolm will be missed not only by those who had the privilege to meet and work with him but also by the coming generation which is looking for commendable leadership.

Walter Spiess, (Past President of the Academy)

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Sunday, October 9, 2016

Dear Ken,

Thank you very much for the news of the passing of Emeritus Prof. Malcolm Bourne. Needless to say it was a very sad and devastating news though not altogether unexpected for Malcolm had bidden me farewell in a devastating email he sent to me on August 19, 2016. It has been our practice in the last few years for us to meet with our wives at the IUFOST World Food Congresses. I was expecting to be with him and his wife Janice at Dublin but he sent me that email (reproduced below) informing me that he would not be in Dublin, neither will he be attending any other IUFOST World Food Congresses, and he bid me farewell. Tears filled my eyes as I read that email.

Of course you know that Malcolm was my teacher at Cornell from 1974-1978. Ever since I took his course 0247 Post Harvest Food Losses in the Fall of 1977 at the Department of Food Science and Technology, Cornell University, Ithaca, New York, I have had great admiration for him as a teacher and mentor. He encouraged me greatly in my work on post-harvest food loss reduction over the years and had a pronounced influence on my career. He was one of my official references and he gladly provided references for me whenever they were needed. He wrote the Foreword to my latest book "Lesser-known Nigerian Fruits and Vegetables: Post-Harvest Handling, Utilization and Nutritional Value" published in 2014.

Malcolm will be sorely missed. He was an inspiration and a truly great individual with a very large heart. He was not just an outstanding scholar and one of the most accomplished food scientists of our time whose record of achievements is well known globally, he was a unique human being of the best kind. He was a good Christian and ever since he bid me farewell in that devastating email, I have been praying for him and Janice. I take solace in the fact that the good Lord has called him home and give thanks to God for a fulfilled life spent in the service of God and humanity. My thoughts are with Janice, the children and grandchildren and I pray that the good Lord comfort them and grant them the fortitude to bear the irreparable loss.

Dear Charles,

In case you do not know already I will not be attending the World Food Congress in Dublin or in any future Congresses. I have been diagnosed as having mesothelioma, an incurable form of cancer that occurs on the inside of the chest wall and outside the sheet that covers the lung. The only cause of this cancer is exposure to asbestos which is a puzzle because I have never worked in any of the trades that used asbestos. I am at home under the loving care of Janice. A case worker stops by every week to check up on me. My life expectancy is weeks or months. This disease makes me tired and short of breath. I sleep 12-13 hours every night and another 1-3 hours each afternoon. As it progresses I may need to be put in an institution.

Farewell my colleague and friend.

Malcolm Bourne

Thank you Ken.

Regards,

Charles

Friday, 7 October, 2016

Dear Charles et al.,

We have lost a dear friend, pioneer in food security and a fabulous human being in the passing of Malcolm Bourne. He was an inspiration to all of us and I know specifically influenced me and you in post-harvest pursuits. I believe and still quote his 1975 National Academy of Sciences report on postharvest losses as the most important document on the subject until FAO released the food loss estimates in 2011 at the Save Food Congress. I and I know you will miss him.

His obituary is at:

<http://www.devaneybennettfh.com/obituaries/Malcolm-Bourne/#!/Obituary>

Sincerely, Ken

Kenneth S. Marsh, Ph.D., CPP,

CFS Executive Director

Woodstock Institute for Science and the Humanities (DBA Woodstock Institute for Science in Service to Humanity) Working towards Global Food Security

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