

Professor Daryl B. Lund is an exemplary leader and advocate for the profession of food technology. It is remarkable that Daryl has a global reputation for outstanding scholarly contributions, inspired leadership, excellence in teaching, international advancement of food science, and selfless service to IFT. Some accomplished individuals who excel in just one of these dimensions have earned IFT Achievement Awards. It is remarkable that one individual can set the high mark in all these endeavors and inspire others in the profession of food science.

INSPIRED LEADERSHIP

Professor Emeritus Daryl Lund is one of our finest academic leaders. He earned his academic ranks at the University of Wisconsin (UW) at Madison, where he was elected department chair by his peers in 1984. His unselfish dedication to team effort was evident from his Wisconsin (WI) years, when he first sought permission of the faculty ahead of his candidacy for IFT president. Daryl was the first in the history of UW to use private sector donations to leverage public building projects. This is how the Babcock Hall Food Science Building became a top priority for UW while Daryl was the chair. With this precedent, every building built at Wisconsin since then employed this very same stakeholder leverage principle, and many subsequent food science building projects, such as those at Ohio State, Nebraska, Penn State, U Cal Davis, and now Cornell, used these strategies.

The UW faculty was sad to lose Daryl when he was hired by Rutgers in 1988. He gave leadership to the food science unit that included the Center for Advanced Food Technology. Daryl proved adept at improving the stakeholder networks in New Jersey and his leadership abilities showed brightly. In 1989 the faculty recognized his talents



and selected Daryl as the Interim Executive Dean of Agriculture and Natural Resources. Within a year Daryl was appointed the Dean of Cook College, Executive Dean of Agriculture, and the Executive Director of the New Jersey Ag Experiment Station. Lund streamlined administrative services, initiated a review of all undergraduate curricula, and started a long-range plan for the NJ Ag Experiment Station.

Word spread about this outstanding scholar who was politically adept and widely liked by faculty, students, staff and stakeholders. So when a high stature land-grant and Ivy-league university sought a dean for their agriculture school, he was most qualified. Daryl raised the stature of Cornell agricultural programs during a difficult five years of budget reductions. He did this with a creative focus on strategic planning and inspiring individual achievements that contribute to common good. He helped the college survive a 20% reduction in staffing, increased state support of the New York State Agricultural Experiment Station, initiated review of undergraduate curricula that led to major changes, and started new programs in distance learning and in genomics. Professor Lund is the only food scientist in the history of our profession to be the Dean at two major land grant Universities.

When Daryl left UW-Madison some said he would return, perhaps in rationalization of the loss. This became a prophecy, as Daryl became the Executive Director of the North Central Regional Association, giving him a choice of either a Washington, D.C. or Madison WI office. Of course, Daryl picked Madison. He used his talents as a facilitator of interstate collaboration on research and greater integration between research and extension in the twelve state area. He now continues to divide his efforts between Wisconsin and Arizona.

OUTSTANDING SCHOLARLY CONTRIBUTIONS

Dr. Lund advances food engineering knowledge on three important frontiers: fouling of food contact surfaces, starch gelatinization, and microwave-assisted processing. Dr. Lund was among the first to investigate fouling in the early 1970s. In 1979 Dr. Lund invested a semester lecturing at Wageningen University, the Netherlands, and doing research at the Dutch Dairy Research Institute (NIZO). He helped solve a significant fouling problem for the cheese industry of the Netherlands. He began collaborations with Lund University (no relation) that established the International Conference on Fouling and Cleaning in Food Processing. The quadrennial conferences were held in 1981 at Lund University, 1985 in Germany, and 1989 in Madison; earning repute as a critical repository for the latest knowledge on fouling and cleaning. This topic is now an integral part of the International Conference on Engineering and Food.

Lund et al. enabled our present day understanding of starch gelatinization. They investigated processing of wild rice, a grain native to Northern WI and harvested and sold by Native American communities in the midwest. Lund and coworkers were among the first to use differential scanning calorimetry for starch gelatinization studies, results that are still used today for improving wild rice heat processing conditions.

Lund and his team developed and verified models of temperature profiles in food products during microwave heating. Their work on microwave-assisted baking is used today in formulating refrigerated or frozen dough products. Lund also disclosed the mechanisms of microwave bumping, a condition leading to eruptive boiling of liquids. Their definitive research paper on the subject has practical applications in industry for formulating dry powders and liquids that minimize bumping.

INTERNATIONAL ADVANCEMENT OF FOOD SCIENCE

Daryl is the recipient of the 1995 IFT International Award, recognizing his efforts in promoting the international exchange of ideas. In 1973 during six months at the Institute Pertanian Bogor (IPB) in Indonesia, he developed modern courses in food engineering and processing including a new food processing laboratory. This led to IPB obtaining World Bank support in 1977 for a Food Technology Development Center. He assisted IPB in designing and developing this Center. One of his doctoral graduates from UW returned to Indonesia and became Director of this innovative Center.



2nd edition in 2006 by Daryl Lund and Denny Heldman

Daryl is the speaker of choice for major plenary presentations at congresses and international conferences, including the 2008 International Biotechnology Symposium in Dalian, China, the International Conference on Engineering and Food in 1999, and several International Union of Food Science and Technology World Congresses. Lund was a principal organizer of the fouling and cleaning international conferences. He is the chair of the IUFOST Distance Education Task Force, advancing an important project to develop modules on food technology useful for the education of employees in the food processing industry in Africa.

INDUSTRIAL PARTNERSHIP

Daryl has earned the trust of industry and is sought to serve on industrial advisory boards. Companies that took advantage of Daryl's breadth of knowledge include General Foods, Pepsico, Frito Lay, Nabisco and Pillsbury. In this capacity Daryl influenced the direction of research and application of engineering principles to food processing. He is trusted by industry to serve on review boards including the review of the Dutch Research Institute and Nestle Research Center in Lusanne.

Many companies have directly supported Daryl's research program, including major funding from Unilever, Pillsbury, and Frito Lay.

Three-time vice-president Ron Harris (VP Kraft, VP Nabisco, VP Kraft-Nabisco) established an endowment at Ohio State to honor the best in food science. He sought to reward multi-talented decision leaders who understand the partnership of academics, industry and government.

Daryl Lund was an individual Ohio had in mind at the inception, but they prohibited internal nominations to ensure integrity of the global award process. Nonetheless, an unsolicited nominator advanced Lund's outstanding credentials and he is the 2006 Harris Award Laureate.

SELFLESS SERVICE TO THE INSTITUTE

Professor Lund was elected IFT President 1991. The well evolved IFT strategic planning process has its roots in the Lund presidency. He created the Task Force on Strategic Planning that laid groundwork for Strategic Planning as a continually important function of IFT. Daryl served as President of the IFT Foundation following his Presidency.

Daryl has IFT service too extensive to list here, but there are several other highlights: He was the IFT Annual Meeting Program Committee chair in 1988; He was the first IFT Regional Communicator for WI from 1974 through 1980; He was the first science communicator to go through communication skills training, now a standard practice for this important IFT media program.

Daryl is a continuous member of IFT for four and a half decades and an



Three Fellers Award fellows, but only one wore the same festive Indonesian jacket to every annual meeting for several decades

IFT Fellow since 1980. He was a member of three sections, WI, NY and central NY. Academic Deans often let professional memberships lapse due to time deficits, but Daryl stayed remarkably active in IFT as a very engaged and visible advocate. Some say literally visible, noting Daryl's long standing tradition of wearing a distinctive Indonesian sports coat at every IFT opening mixer.

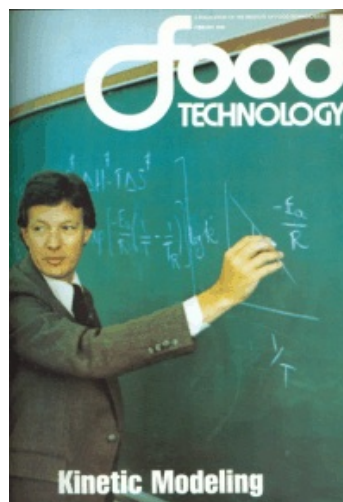
Daryl is the 2003 recipient of the IFT Carl Fellers Award for bringing honor and recognition to food science. The award was partly based on his efforts as chair of IFT's Committee on Frontiers in Food Science. The committee developed a framework to bring together scientific experts in a defined area to develop a science roadmap. Daryl actively promoted the revitalization of Phi Tau Sigma, serving two terms as its President. At UW, he volunteered as the advisor and recruited members of the Food Science Club to serve as officers. The re emergence of this important chapter was due to Lund's exemplary promotion of the profession of food science.

In 2003, Dr. Lund accepted the challenge of serving as the Editor in Chief of IFT's peer-reviewed journals, a position he still holds today. Among the achievements of the journal under his watch is a steady increase in the ISI

Impact Factor, adding three new sections to the journal to stay on the cutting edge of the changing science of food, and assembling an outstanding team of Scientific Editors and Associate Editors for all three IFT peer-reviewed journals.

EXCELLENCE IN TEACHING

The exciting new field of study covered by Food Technology magazine back in February 1980 was KINETIC MODELING. Even more prophetic was the cover



photograph of Professor Daryl Lund teaching with chalk (before personal computers!). Food journalists were drawn to the Madison campus to report a scholarly sensation in food engineering and processing.

Daryl Lund was an original coauthor in 1975 with Owen Fennema and Marcus Karel of a significant textbook on physical principles of food processing. This now classic 1975 textbook was widely adopted by food science curriculum nationwide, with a second revision published with Marcus Karel in 2003. Daryl was an inspirational teacher at both the graduate and undergraduate levels, serving as the primary advisor to 19 MS students and 13 Ph.D. students. A phenomenal 61% majority of these doctoral graduates are now university professors at eight academic institutions. Lund's classrooms and laboratories were significant repositories of original food engineering knowledge, spewing more than 200 publications in scientific journals, 25 book chapters, co-editing five books, coauthoring two textbooks, and a successful US patent.

Not revealed in these impressive pedagogical numbers is the personal pride Daryl has in the accomplishment of his students. Daryl and Dawn's home is always open to his students and some of the fondest memories of students include the family time spent with the Lunds. Many who worked for or worked with Daryl have become part of an extended family that includes the unique perk of a very detailed holiday card annual mailing!

THE FUTURE IS BRIGHT

Daryl's penchant for surrounding himself with good people started early. While an undergraduate studying mathematics at UW Madison, he picked a roommate named Tommy Thompson, who later served four terms as the Governor of WI and as the US Secretary of Health and Human Services during the GW Bush administration.

Lund earned his MS in Dairy and Food Industries and doctorate in food science and chemical engineering with Owen R. Fennema as advisor. For many years the Fennema-Lund team was synonymous with excellence. Daryl later succeeded Owen as editor-in-chief of the Journal of Food Science, and Daryl maintains this premier journal's reputation continuously since September 2003.

At the retirement celebration for Professor Lund in 2007, Former Secretary Tommy Thompson was not deterred by horrendous air travel gridlock caused by the sudden banning of fluid containers enforced coincidentally on that day. Tommy missed the formal dinner so he dined on a big serving of politically Babcock Hall correct ice cream. He endured a 10-hour air and ground travel nightmare to honor Daryl, and to tell the actual story of how Daryl set precedence in leveraging private support for campus building projects during the Thompson administration.

Consistently throughout his career, Daryl invests considerable time and resources advancing food science. At his retirement celebration a major gift to UW from the Lund's was announced, creating a chair professorship in the Department of Food Science, a scholarship in food engineering, a discretionary fund for the chair of food science, and a discretionary fund for the dean of the college.

Thompson correctly predicted Lund would fail in retirement by working tirelessly for no pay. We agree in this jocular way that Professor Lund may have an "F" in retirement, but this mark is aberrant in a lifetime transcript that is consistently "A plus." Daryl Lund's impressive career earns a high GPA for Great Personal Achievement. Perhaps you see why we think his accomplishments should be reviewed by the IFT Appert Award jury. We wish you success in your deliberations and thank you for honoring the very best of our profession.

