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The Foundation of the Institute of Food Technologists

> 2019 – 2020 Annual Report

Letter From The Chair

Dear Friends,

Creating a better world requires teamwork, partnerships, and collaboration. This notion has proven true time and again within IFT and the science of food community. These days, it seems especially pertinent as we think about the significant progress made within Feeding Tomorrow, the foundation of IFT, despite this tumultuous year.

When I began my term as Feeding Tomorrow chair in September 2019, we had a solid strategic plan and passionate people in place, and while there was much to accomplish, I was confident in our ability to make a significant impact. We were all in. We hit the ground running with a focus on creating an enduring culture of support for the world's next generation of science of food professionals and began to make progress toward our 2019-2020 goals.

Partnering with others was always part of the plan, but the onset of the COVID-19 health emergency accelerated and exacerbated its criticality. Allowing the pandemic to halt our efforts was never an option. Instead, we adjusted, adapted, and pivoted to ensure we kept moving forward with a keen eye on what we set out to accomplish.

On the pages to follow, you will read stories of:

• How our adaptability, collaboration, and commitment served us well this year.

- How we created a wealth of new, engaging resources to help educators share the science of food with the next generation of budding scientists.
- How we supported the academic and professional pursuits of undergraduate and graduate students preparing for careers in the science of food.
- How we partnered with global organizations to advance food and nutrition solutions for those in regions with the most urgent needs.

And we accomplished this all in the face of this devastating global pandemic.

You will also learn about a generous endowment from deceased longtime IFT member and Feeding Tomorrow supporter Elwood Caldwell, PhD, that has enabled us to create a new graduate fellowship program in his memory. We are inspired by Dr. Caldwell's generosity and his embodiment of the notion that it is in giving that we truly receive.

As always, our many accomplishments this year would not be possible without the tremendous support of our community. We are immensely grateful for the time, experience, and wisdom our volunteers have shared, particularly in the midst of such a trying year. We also appreciate our gracious donors, whose contributions are absolutely critical to our growth and success. We may not know what the future holds, but now more than ever, the future of food science needs our support and partnership. We may need to be flexible in our approach, but in the spirit of Dr. Caldwell, I am confident that in giving of ourselves, we will create a ripple effect that will have an impact on the future of food science for many years to come.

Thank you for all you to do make a difference. Be well.

Nancy Moriarity, PhD Chair, Feeding Tomorrow





Feeding Tomorrow is the official foundation of the Institute Food Technologists. Each day, we work to raise awareness of the science of food as a desirable career path. By attracting, retaining, and celebrating the best and most innovative minds of the profession, we will ensure the world has the ability to feed a growing and diverse population.

Through our strategic promises...

We motivate. We support. We leverage.

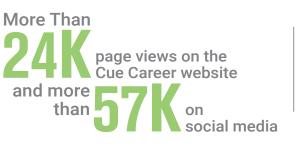






We promise to encourage inquisitive young minds to pursue careers in the science of food. By creating a wealth of useful resources and making them readily available to K-12 educators and students, Feeding Tomorrow is actively working to cultivate the next generation of science of food professionals.





Nearly **1000** educators, teachers, and counselors participated in virtual 2020 Educator Program during SHIFT20







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Visit the IFT website to access educator resources and the Learn About Food Science library.

Partnerships Foster Interest in Science of Food

According to the 2018 Food Science Academic Knowledge Base research, the top two reasons undergraduate students are motivated to pursue a degree in the science of food has nothing to do with a desire to work in the food and beverage industry. 78 percent of those surveyed consider themselves a foodie who, for instance, enjoys watching cooking shows and experimenting with food while 74 percent indicated they have always liked science. Anecdotally, many students indicate they stumbled on the science of food as a career path once they started exploring curriculum in science, technology, engineering, and mathdisciplines collectively known as STEM.

With the ever-present challenge of feeding a growing global population of 9 billion by 2050, it is more important than ever to begin attracting science-minded youth to the possibilities of a career in the science of food at a young age and nurturing their interest throughout their education. Feeding Tomorrow has long been committed to this endeavor and through partnerships and collaborations, has continued to make significant progress this year.

One such partnership is with the Chicagoland Food Science Foundation and FONA International. Together with Feeding Tomorrow, these organizations created an exciting online experience for K-12 educators during SHIFT20, IFT's virtual event and expo, in July 2020. The virtual 2020 Educator Expo gave nearly 100 educators, teachers, and counselors the opportunity to connect with food industry professionals, gain access to teaching resources and experiments, connect with other educators, and see what career opportunities exist for their students. In the end, 7,700 students were impacted by this important program.

This year, Feeding Tomorrow also partnered with Cue Career, an online platform where students can explore different careers, to present information about the science of food profession. With information on the career outlook for science of food professionals. typical education requirements, Feeding Tomorrow scholarship opportunities, and potential career paths, students can get a sense for the various directions a career in food science and technology can take them. In addition, video interviews with professionals working in the science of food enable students to hear first-hand what a career in the field might look like. With more than 24,000 views of our Cue Career profile, this partnership has proven to be an excellent vehicle to increase awareness of the profession among the next generation of food scientists.

In addition, Feeding Tomorrow collaborated with four universities—

Pennsylvania State University, Cornell University, The Ohio State University, and University of Nebraska-Lincoln to create an educational, interactive science experience for students of all ages. "From Milk to Ice Cream and the (Food) Science Behind It" takes viewers on a virtual behind-the-scenes journey through the production of ice cream, from barn to table. The virtual experience, which includes scientific concepts, real food science facilities, and fun facts quizzes, is available on the Feeding Tomorrow website.

It is through partnerships like these that Feeding Tomorrow will continue to make an impact on the future of our profession, attracting the creative minds and critical thinkers necessary to address the challenges we have before us.



We promise to encourage, promote, and reward excellence of students pursuing careers in food science and technology. Feeding Tomorrow offers numerous academic tuition scholarships, rewarding students for their passion and dedication to their future career in food science. We also give selected students the chance to develop skills, explore career interests, and gain valuable work experience through our Intern+ Program.

5 academic scholarships totaling more than ^{\$}108,300

Elwood Caldwell Graduate Fellowship established





paid internships with academic scholarships

299 Virtual Fun Run + Fitness **\$61,000** to fund participants raised more than **\$61,000** scholarships

3,405 meals provided through partnership with Greater Chicago Food Depository

Investing in the Future of Food Science

Feeding Tomorrow started 35 years ago as a conduit to provide scholarship funds for future food scientists. Today that remains an important part of our mission.

In the last year, Feeding Tomorrow awarded 55 academic scholarships totaling \$108,300 to freshman, undergraduate, and graduate students pursuing degrees in a variety of disciplines within the science of food. The scholarship dollars not only provide much appreciated financial support, but in many cases, opportunities that may not have otherwise existed.

"I am deeply honored to be the recipient of the Institute for Thermal Processing Specialists MS degree Scholarship," said Cynthia Orwa, Feeding Tomorrow scholarship recipient from the University of Nairobi. "The award will help me broaden my research in product development and preservation and I will in turn use my knowledge and skills to advise small and emerging food companies in developing good quality food products."

This year, Feeding Tomorrow also established the Elwood Caldwell Graduate Fellowship, which will provide a graduate student a rare opportunity to further their academic pursuits. Beginning in October 2020, students enrolled in a master's or doctoral program in the science of food will be eligible to apply for the fellowship, which will provide a generous stipend to students pursuing research focused on addressing the current and future needs and demands of the global food system. This new fellowship is made possible by an extremely generous endowment from deceased longtime IFT member Elwood Caldwell, PhD.

Recognizing there is much to learn outside the classroom, Feeding Tomorrow has continued expanding its Intern+ program during the last year. In partnership with several participating food companies, the Intern+ program enabled Feeding Tomorrow to offer students pursuing degrees in food science paid internships, academic scholarships, and complimentary registration to SHIFT20, IFT's virtual event and expo. This year, we awarded 7 Intern+ paid internships with academic scholarships totaling \$13,300.

With our annual event transitioning to a virtual format, Feeding Tomorrow felt it was important to ensure our student population was included. In light of that, our student travel grant funds were redirected to support student registrations to the SHIFT20 virtual event. We also invited IFT divisions with travel scholarship funds to join us in the effort. Together, we enabled more than 455 students to receive free SHIFT20 registration so they could benefit from the more than 100 individual scientific sessions and 750 technical research papers comprising the scientific experience.

While rewarding the excellence of students pursuing careers in the science of food is central to our mission, it wouldn't be possible without the tremendous support of the IFT community. Our biggest fundraiser of the year-the Fun Run + Fitness event-is critical to our ability to fund our scholarship program. When COVID-19 thwarted our ability to be together, Feeding Tomorrow offered a virtual version of our annual challenge, featuring weekly wellness challenges to encourage participants to stay active, eat well, and prioritize selfcare. In the end, 299 participants raised more than \$61,000 to fund scholarships and support our students.

"Thank you to all who have donated to the Fun Run + Fitness virtual event! The funding students receive as a result of your generosity allows them to pursue many opportunities not otherwise available," said Jason Hsu, Feeding Tomorrow scholarship recipient from Pennsylvania State University. "I'm able to attend Penn State despite being an out-of-state student due to scholarships like these. Thank you for investing in the future of food science."

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We promise to bring together the collective knowledge of our community to pursue food and nutrition solutions for those in need. Through partnerships with global nonprofit organizations, Feeding Tomorrow has established programs that leverage the technical knowledge of the IFT community to help provide scalable, sustainable, safe, and nutritious food technology solutions for regions with the most critical needs.



The Volunteer Globally program was established in 2017 to provide science of food professionals an opportunity to increase their impact on the global food system. In partnership with nine global organizations, the program offers in-country and virtual volunteer opportunities for those interested in serving those with the greatest need.

Our current partners are Bountifield International, Partners in Food Solutions, Catholic Relief Services, ACDI/VOCA, Land O'Lakes Venture37, Winrock International, Partners of the Americas, Grameen Foundation, and IESC.



Find new Volunteer Globally opportunities at **IFT.org/volunteerglobally**

Passion for Food Science Knows No Boundaries

The more you improve the lives of others, the more rewarding and successful your life will be. This is a belief Dr. Carmen C. Fernandez-McEwen, IFT member and Volunteer Globally program participant, holds close in her life both personally and professionally.

Throughout her career, Carmen has been fortunate to live and work in various places around the world, including North America, Latin America, and New Zealand. While she has learned and grown through each of these experiences, she had a strong desire to share her passion for food science and help those in need outside of the R&D department where she currently works. It was this desire that drew her to Feeding Tomorrow and its Volunteer Globally program.

Volunteer Globally connected Carmen with an opportunity through ACDI/ VOCA's Farmer-to-Farmer program in the Mtskheta-Mtianeti, Misaktsieli region in the country Georgia, which is located at the strategically important crossroads where Europe meets Asia. Carmen was tasked with providing technical and marketing assistance to Caucasus Organic Fruits Ltd., a two-year-old company that buys fresh fruits from farmers and cooperative members, and produces about 50 tons of dried apples, melon, kiwi, and persimmons annually. The company was looking to penetrate the domestic market via supermarkets

offering 100-gram packages of apple chips, dried apple rings, dried kiwi, and dried persimmon. Additionally, they were seeking opportunities to export in bulk starting in Germany and later expanding into other countries in the European Union.

During her time in Georgia, Carmen assessed and prioritized the challenges of preserving the sensory attributes of the dried fruits and made recommendations regarding the appropriate retail packaging and labeling. This was particularly important to prevent humidity issues from impacting the company's ability to deliver food that was safe to eat.

She also began formulating the company's marketing strategy, providing recommendations on specific steps that could be taken to help the company more effectively penetrate the European market and become more competitive. In addition, she developed a detailed cost analysis (variable and fixed) to provide a better understanding of the financial feasibility for each product. She also had the opportunity to visit two additional companies and an independent entrepreneur while on-site to learn about their products and business model and offer recommendations to help enable business success.

While Carmen was prepared to work hard and share her knowledge with these companies during her assignment, she said it was eye opening to travel to farms, processing plants, and other facilities. The people she worked with were smart and knowledgeable, but the equipment and processes they were working with were far less sophisticated than in more developed countries. Carmen appreciated experiencing the culture in Georgia as much as the work itself. She found the people to be resourceful and welcoming. They were passionate about what they do and open to hearing different perspectives but were not afraid to politely share their opinions and rationale. Carmen said she enjoyed the experience so much that she continued to maintain contact and provide assistance, as needed, long after her trip came to an end.

After returning home and reflecting on the experience, Carmen said she was overwhelmed with gratitude and filled with hope. "As a member of the global science of food community, we have significant challenges ahead if we are going to feed the world's growing population. It will take new technologies, continuous improvements, hard work, and growth, but if we work together, we can collectively develop solutions and make an impact."

More than \$1,000,000

The Estate of Dr. Elwood F. Caldwell, MS

\$10,000-\$60,000

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