



The Honor Society of Food Science and Technology

Phi Tau Sigma Newsletter *November 2019*

News:

EMGAM:

The “Every Member Get a Member” Campaign continues, but is scheduled to end December 31. If you have not yet nominated a colleague for membership in Phi Tau Sigma, please do so right away.

Questions about the Campaign, contact Daryl Lund, Ph.D. dblund@wisc.edu.

Questions about the membership nomination form, contact Kathryn L. Kotula, Ph.D. klkotula@msn.com.

Awards Committee: Upcoming Deadline

(Contributed by Ravi Chermala, MS, MBA, Chair of the Phi Tau Sigma Awards Committee)

The deadline for nominations for the **Dr. Daryl B. Lund Student International Travel Scholarship** is **November 30**.

The Dr. Daryl B. Lund Student International Travel Scholarship is presented annually to a student Member of Phi Tau Sigma - The Honor Society of Food Science and Technology, to supplement international travel for educational purposes. The scholarship, in the amount of \$2,000, is presented to honor the commitment of Dr. Lund, whose international reputation for outstanding scholarly contributions and inspired leadership has fostered and facilitated the global advancement of food science and technology.

Nominees shall be students who are members in good standing during the administrative year of the nomination, although they may have graduated by the presentation of the award.

Nomination materials must be submitted to the Chair of the Awards Committee by email by November 30th (ravichermala@gmail.com), with a copy to the Executive Director (klkotula@msn.com). For more information on the nomination process please visit the Awards section of the Phi Tau Sigma website (<http://www.phitausigma.org/awards/>). For information specific to this scholarship, including the nomination form, please visit <http://www.phitausigma.org/lund-scholarship/>.

Nominations and Elections Committee Seeks Your Input

(Contributed by Tom Aurand, Ph.D., Nominations and Elections Committee Chair)

It is that time of the year to nominate candidates for the 2020 Phi Tau Sigma Elections. The Nominations and Elections Committee is charged with developing a slate of nominees for the Phi Tau Sigma President-Elect and five Directors for the election to be held in March 2020, for terms beginning on September 1, 2020. As one can imagine, the nomination and election process is a critical activity for the Society by electing officers that will provide the leadership to ensure a viable future. Any member can nominate an individual who will provide the leadership qualities needed to ensure a viable Society. Please send the names of Phi Tau Sigma members you recommend for consideration for these positions to Committee Chair Tom Aurand at tom.aurand@gmail.com prior to December 15, 2019. Self-nominations are welcomed and encouraged.

From the Desk of the Treasurer:

(Contributed by Kantha Shelke, Ph.D., Phi Tau Sigma Treasurer)

Shop with Purpose with Amazon Smile and Give Back to Phi Tau Sigma

You shop. Let Amazon Smile share 0.5% of your eligible Amazon purchases with Phi Tau Sigma at no extra cost to you and without diminishing your Amazon Prime benefits or shopping experience in any way. All you have to do is designate Phi Tau Sigma as your charity of choice at www.smile.amazon.com and invisibly, you can continue to provide financial support for Phi Tau Sigma's suite of awards and scholarships program.



It's easy to do. Here's how to make Phi Tau Sigma the charity of your choice in Amazon Smile.

1. To start, instead of going to Amazon website, go to the Amazon Smile website at www.smile.amazon.com

It's the same Amazon with the same products and the same prices and works with your Amazon Prime benefits but with an important difference: every time you buy something, Amazon Smile will send 0.5% of your purchases to Phi Tau Sigma.

2. On your first visit to AmazonSmile (www.smile.amazon.com), you will be prompted to select a charitable organization from the list of eligible organizations. Scroll down and select the Phi Tau Sigma.

You can do this on your desktop, your laptops, or your mobile phone browser.

From your desktop, go to Your Account from the navigation at the top of any page, and then select the option to Change your Charity.

From your mobile browser, select Change your Charity from the options at the bottom of the page and make Phi Tau Sigma the charitable organization to support.

There is no app for Amazon Smile. You cannot use Amazon Smile with the Amazon App on your smart phone. You can, however, set up a shortcut to the Amazon Smile website which gives a near identical experience to the app. It's very quick and easy to do. If you have the Amazon App installed you should remove it and just enter from Amazon Smile to help Phi Tau Sigma and your network of food scientists around the world.

3. Be sure to bookmark the AmazonSmile site and use it any time you go to shop at Amazon. A portion of your purchases will go to help further the mission of the Phi Tau Sigma Foundation!

Please note that no contributions will be made if you use the regular Amazon.com site, so you have to enter through the Amazon Smile website each time for your contribution to make a difference.

Just imagine the smile on your heart knowing that every time you shop, you are also adding a few pennies to Phi Tau Sigma's foundation and advancing opportunities for your network of food scientists everywhere. With mindful shopping you can make every penny count!

The implications of your pennies is a mighty sum for Phi Tau Sigma. If members spend \$1000 a month buying from Amazon Smile, Phi Tau Sigma would get \$5; if the monthly purchases add up to \$10,000 a month, that is \$50 a month for Phi Tau Sigma and could amount to \$600 a year. Do make your pennies count. Together, we can do so much.

Know your Leadership:

About Your Phi Tau Sigma Directors:

Ruth S. MacDonald, RD, Ph.D., a Lifetime Member of Phi Tau Sigma, is Professor and Chair, Department of Food Science and Human Nutrition, and Assistant Dean for Graduate Programs for the College of Agriculture and Life Sciences at Iowa State University. She holds a Ph.D. in Nutrition, with a minor in Food Science, and Masters in Nutrition, with a minor in Physiology from the University of Minnesota, and she is a Registered Dietitian. Her research interests include the role of dietary factors in cancer progression, specifically breast, colon and prostate cancer. She gives frequent public presentations on the science and safety of biotechnology use in food and is a scientific expert for GMO Answers and Best Food Facts. She coauthored a textbook: Understanding Food Systems: Agriculture, Food Science and Nutrition in the United States in 2017. She has served as a member of the Executive Board for the Nutrition Division of IFT, is the current Chair of the Higher Education Review Board of IFT, and is a member of the American Society for Nutrition.

Elizabeth Grasso-Kelley, Ph.D., a Lifetime Member of Phi Tau Sigma, is an Assistant Professor in the Department of Food Science and Nutrition at Illinois Institute of Technology (IIT). She received her B.S. degree in Food Science from The Pennsylvania State University in 2005 and M.S. and Ph.D. degrees from the Department of Food Science and Technology of The Ohio State University in 2007 and 2010, respectively. Her area of expertise involves low moisture food safety with research interests including: characterizing thermal resistance of pathogens in low moisture environments, developing best practices for inoculation of low moisture foods, and studying the survival of pathogens during storage and processing. She is the IIT lead on the Institute for Food Safety's Low Moisture Research Consortium, past-Chair of the International Association for Food Protections Low Water Activity Foods Professional Development Group, and regularly volunteers for the Institute of Food Technologists' review of abstracts and proposals. She also serves on the editorial board for the Journal of Food Protection.

Tom Aurand, Ph.D., a Lifetime Member of Phi Tau Sigma, is a Principle in Aurand & Associates, LLC, a food technology consulting company, based in St. Paul, MN, focusing on developing technology in the dairy, fruit and nutraceutical industries. He also consults with

clients on R & D management techniques such as Stage Gate, Product Lifecycle Management and Intellectual Property capture and documentation. During his career in the food industry, Tom served in senior R & D management positions in the dairy, fruit, corn processing and frozen food industries. He is currently active in Phi Tau Sigma as the Chair of the Nominations & Elections Committee and as a Director. Tom has been involved in several volunteer organizations such as Western New York Library Resources Council, a consortium of public and private libraries, where he served a term as President of the organization. Tom was an active member of the Cornell Food Science Industry Advisory Council for 18 years. He also served for 21 years on the Board of Directors of Graceland Fruit, a Michigan fruit infusion and drying processor. Tom received his Ph.D. and M.S. degrees from Cornell University and a B.S. degree from North Carolina State University.

Stephen Campano, M.S., a Lifetime Member of Phi Tau Sigma, is Vice President of Research and Applied Technology for Hawkins, Inc. He received a B.S. degree in Animal Science and M.S. degree in Animal Industries from the University of Connecticut in 1978 and 1981, respectively, and has spent the past 30+ years working with the meat industry in a variety of positions with processors and allied suppliers. Steve has been involved in developing and directing food safety research initiatives with government, industry and academic institutions, and has been instrumental in the development and application of new food ingredient technologies, both domestically and internationally. He was elected to the American Meat Science Association Executive Board, served as President in 2008/2009, was conferred an AMSA Fellow in 2011. Steve is past Chair of the Phi Tau Sigma Membership and Qualifications Committee, the Awards Committee, the Recruitment Campaign Committee, and the Development Committee. Steve was the 2015 recipient of the Phi Tau Sigma Special Recognition Award.

Lili He, Ph.D., a Lifetime Member of Phi Tau Sigma, is currently an Associate Professor of Food Science at University of Massachusetts, Amherst. She received her Ph.D. degree from University of Missouri-Columbia in 2009 and did her postdoc training in University of Minnesota between 2009 and 2012. Then she joined the faculty in the Food Science Department at the University of Massachusetts, Amherst as an Assistant Professor in 2012. Dr. He's major research focus is to develop and apply the most advanced and innovative analytical techniques to help solve critical and emerging issues in food science. Her group has developed various surface enhanced Raman scattering based techniques for food safety and food chemistry applications. Her excellence has been recognized by receipt of the 2012 Young Scientist Award from the International Union of Food Science and Technology, 2015 ACS-AGFD young scientist award, 2016 young investigator award from Eastern Analytical Symposium, 2016 IFT Samuel Cate Prescott Award for Research, and was selected as one of the Talented 12 by C&EN, the ACS magazine in 2016.

Rodrigo Tarté, Ph.D., a Lifetime Member of Phi Tau Sigma, is Assistant Professor of Meat Science in the Department of Animal Science at Iowa State University, where he also holds a courtesy appointment in the Department of Food Science and Human Nutrition. He holds a Ph.D. in Food Science and Technology and Meat Science, from Iowa State. He joined the ISU faculty in 2015 after nineteen years as a food research and product development scientist in the private sector, most of which was spent at Kraft Foods Inc./Oscar Mayer, the John Morrell Food Group (Smithfield Foods), and Rica Rondo S.A. (Colombia). At ISU he researches the development and application of innovative process and ingredient technologies to improve the sensory and nutritional quality, resource utilization, and safety of further processed meat products. He also teaches courses on introductory meat science and processed meats. He has served as Chair of the Phi Tau Sigma Membership & Qualifications Committee, Chair of the IFT Muscle Foods Division, and member of the Board

of Directors of the American Meat Science Association, and was the 2013 recipient of the AMSA Meat Processing Award. He is the editor of the book *Ingredients in Meat Products: Properties, Functionality and Applications* (1999), has authored or co-authored numerous scientific and industry publications (research articles, book chapters, trade articles), and is a regular speaker at conferences, seminars and short courses.

Claire Zoellner, Ph.D., is a Food Safety Scientist at iFoodDecisionSciences, Inc. where she manages research and development of pragmatic science-based software tools and data analytics for the fresh produce industry. Particularly, her research and industry expertise is focused on strategies for preventing microbial contamination across the supply chain. Claire earned a B.S. in Food Science and Human Nutrition from the University of Illinois at Urbana-Champaign and a Ph.D. in Food Science and Technology from Cornell University, where she also completed Postdoctoral research from 2016-2018. In addition to serving as a Phi Tau Sigma Director, she also serves as the Associate Editor of the Phi Tau Sigma Newsletter and Chair of the Student Relations Committee. In 2019, she received the Phi Tau Sigma Founders' Award and was accepted to the IFT Emerging Leaders Network.

Martha Cassens, M.S., is currently the Vice President of Product Innovations, Development, and Quality at ACH Food Companies. She previously worked at Hillshire Brands, Sara Lee, ConAgra (Armour Swift-Eckrich) and Vienna Beef. She has 30 plus years of meat industry experience in research, quality assurance, and product / process / package / innovation development. Martha earned her B.S. in Food Science, specializing in Meat and Processing, and her M.S. in Food Science, specializing in Nitrite and Frankfurters, both from the University of Illinois. Martha is an active member of the American Meat Science Association, Institute of Food Technologists, Research Chefs Association and Phi Tau Sigma.

Rebecca Creasy, Ph.D., is a Lifetime Member of Phi Tau Sigma and a Lecturer of Food Science and Nutrition at Texas A&M University. Rebecca received a Bachelor of Science in Agriculture (B.S.A.) degree with a major in Food Science and a minor in Nutrition Science from The University of Georgia in 2007. She earned a Ph.D. in Food Science and Human Nutrition with a minor in Agricultural Education and Communication in 2013 from the University of Florida. Her dissertation research focused on effects of cranberry polyphenols on human immune function. Following graduate school, Rebecca worked at the University of Georgia as an Area Extension Agent focusing on community food safety and nutrition education. She has served as Advisor of the Texas A&M Chapter of the Institute of Food Technologists Student Association, member of the Institute of Food Technologists Teaching and Learning Work Group and has actively participated in Phi Tau Sigma as Chair of the Membership and Qualifications Committee and member of the Ad hoc Internship Organization Committee. In 2018, Rebecca received the Marion Teaching Award for exceptional teaching and outstanding mentorship of underclassmen within the College of Agriculture and Life Sciences at Texas A&M University.

Yaguang (Sunny) Luo, Ph.D., is a Lifetime Member of Phi Tau Sigma and a Lead Scientist with the U.S. Department of Agriculture. She joined the agency after five+ years of research and management experience in the food industry. Sunny served on the Inter-Agency Food Safety Task Force of the White House's Office of Science and Technology Policy, the joint FAO/WHO expert panel on food safety. Sunny served as the President of Chinese American Food Society and chaired the IFT's Fruit and Vegetable Product Division. She currently serves on the External Advisory Board for Harvard University and Nanyang Technology University (Singapore) Sus-Nano Initiative. Sunny has led or co-led 19 externally funded research projects exceeding \$16 million, and currently directs a trans-disciplinary and multi-institute (10) research team. Dr. Luo is an elected Fellow of IFT.

Laura K. Strawn, Ph.D., is a Lifetime Member of Phi Tau Sigma, and an Assistant Professor and Extension Specialist of Produce Safety in the Department of Food Science and Technology at Virginia Tech. She holds three degrees in Food Science with food microbiology emphases, as well as minors in Epidemiology and Molecular Microbiology: a Ph.D. from Cornell University under Dr. Martin Wiedmann, a M.S. from the University of Florida, under Dr. Michelle Danyluk, and a B.S. from the University of California, Davis. Her research program at Virginia Tech focuses on the microbial safety of fresh fruits and vegetables; specifically, the ecology, evolution, and transmission of foodborne pathogens in the produce field to fork continuum. Additionally, Dr. Strawn works directly with produce stakeholders on various produce safety issues, as well as teaches a cadre of food safety curriculums. She leads Virginia Cooperative Extension's educational efforts on the Food Safety Modernization Act's Produce Safety Rule including teaching Produce Safety Alliance Grower Trainings and performing On-Farm Readiness Reviews. Dr. Strawn is also the Lead of Applied Research for Virginia's Fresh Produce Food Safety Team, Extension Team Leader for the Delmarva Food Safety Task Force, and an invited-member of the Radiation Advisory Board for the Commonwealth of Virginia. Professional service includes involvement in Phi Tau Sigma (Board of Directors), International Association for Food Protection, and the Institute of Food Technologists.

Calendar:

->Phi Tau Sigma Scholarship and Awards Schedule:

- November 30:** Deadline to submit nominations to the Awards Committee for the Dr. Daryl B. Lund International Scholarship.
- February 1:** Deadline to submit nominations to the Awards Committee for the Phi Tau Sigma Special Recognition Award, the Phi Tau Sigma Student Achievement Scholarship, the Dr. Gideon "Guy" Livingston Scholarship, and the Phi Tau Sigma Founders' Scholarship.
- April 1:** Deadline to submit nominations to the Awards Committee for the Phi Tau Sigma Outstanding Chapter of the Year Award.

Send completed nomination forms to both Awards Committee Chair Ravi Chermala, M.S., Chair, (ravichermala@gmail.com) and Executive Director Kathryn L. Kotula, Ph.D. (klkotula@msn.com). (More information: <http://www.phitausigma.org/awards/>)

->**December 18:** Deadline to submit Nominations for the **Dr. Carl R. Fellers Award**, and other IFT Achievement Awards.

(More information: <https://www.ift.org/community/awards-and-recognition/achievement-awards>)

->Phi Tau Sigma Chapter Schedule:

- November 1:** Deadline to order Honor Cords and lapel pins to ensure delivery before Fall graduation dates
- March 15:** Deadline for membership nominations to ensure decisions from the Membership and Qualifications Committee before the Annual Meeting
- April 1:** Deadline to order Honor Cords and lapel pins to ensure delivery before Spring graduation dates
- May 1:** First call for Chapter annual reports
- June 1:** Second call for Chapter annual reports

July 1: Final call for Chapter annual reports
August 1: Deadline for Chapter annual reports

Reminder to all Chapters: In order to receive the *Certificate of Merit* or *Certificate of Excellence*, Chapters must submit their annual reports for evaluation by **August 1**. Please send your annual report to the current Chair of the Chapter Affairs Committee, Claire Koelsch Sand, Ph.D., Chair, (clairekoelschsand@gmail.com) with a copy to Dr. Kathryn L. Kotula (klkotula@msn.com).

-> Election schedule:

December 15: Nominations due to Nomination and Election Committee (Tom Aurand, Ph.D., Chair, tom.aurand@gmail.com)
January 2: Nominations and Elections Committee convenes
January 21: Deadline for Nomination and Elections Committee to submit slate of candidates to President
February 5: Last date on which nominations by petition may be submitted
March 2: List of candidates will be emailed to the Members for balloting
March 30: Deadline for casting ballots
April 8: Deadline for tabulation of ballots
June 2: Phi Tau Sigma President will present the newly elected individuals to the Membership at the Annual Business Meeting of Phi Tau Sigma

-> July 12-15, 2020, Institute of Food Technologists Annual Meeting, Chicago, IL:

July 12 (Sunday): (times tentative)

11:00am-12:15pm Phi Tau Sigma Executive Committee Meeting
12:15pm-1:30pm Lunch Break
1:30pm-2:30pm Phi Tau Sigma Leadership Council Meeting and Annual Business Meeting
12:30pm-1pm Student Competition Poster Set-up
1:00pm-2:30pm Student Poster Competition Judging
3:30pm-4:20pm Phi Tau Sigma and IFT Division Competition Awards Ceremony
6:00pm-7:00pm IFT Awards Celebration, includes the presentation of the Dr. Carl R. Fellers, Ph.D. Award sponsored by Phi Tau Sigma (Meet the Award winners at the IFT Networking Reception immediately following.)

Lifetime Member Tribute: Professor Nagendra P. Shah, Ph.D.

Professor, The University of Hong Kong

Why did you become a Lifetime Member?

I am very passionate about promoting the field of food science. Phi Tau Sigma is focused on excellence in food science and technology and this aligns with my core objectives. I was honored to be inducted as a member after I received the prestigious Institute of Food Technologists (IFT) Fellow status. I have been attending IFT meetings since I was a graduate student. I became a Lifetime Member of Phi Tau Sigma because, for someone living outside the USA, it provides a continuous link to this important Honor Society and provides updates on developments within the food area.



Education: Inter. Science (Biology), Nepal; B.V.Sc.& A.H. (Honours), India; M.Sc. (Dairy Science), South Dakota State Univ., USA; Ph.D. (Food Science), Univ. of Alberta, Canada.

Experience/Accomplishments:

I worked at Victoria University in Australia for 21 years as an Associate Lecturer, Lecturer, Senior Lecturer, Associate Professor and Full Professor. I joined the University of Hong Kong as tenured Professor in January 2012. I have published 291 research papers, 27 book chapters, and 217 conference abstracts. Additionally, I have edited three books on *Dairy Products and Quality Control*, *Probiotics and Prebiotics*, and *Yogurt in Health and Disease Prevention*. I have also edited two special issues of the *International Dairy Journal* and a special issue of the *British Journal of Nutrition*. I am an editor of *LWT Food Science and Technology* and *Bioscience and Microflora*, Associate Editor of *Journal of Food Science*, *International Journal of Probiotics and Prebiotics*, and *Frontiers in Microbiology*. I have supervised 39 graduate students (32 Ph.D., and 7 M.Sc.).

I consider myself very fortunate to be included in the list of the “top 1% list of scholars” by the ISI Web of Knowledge Essential Sciences Indicator; and also to be listed as one of the highly cited researchers since 2015, as one of the 15 highly cited researchers at the University of Hong Kong, and among the 2015 World’s Most Influential Scientific Minds by Thomson Reuters. I have received a total citation of 20,841 and my h-index is 74 by Google Scholar.

I am also actively involved in ADSA activities and have served ADSA in various capacities. I am also involved in IFT activities, especially in serving the *Journal of Food Science* as an associate editor.

Areas of Expertise: Currently I teach Dairy Science, Food Technology, and Introductory Food Science. In the past I have taught Food Microbiology, Food Chemistry and nearly everything else related to Food Science. My research interests are functional properties of milk, and fermented dairy products; probiotics, prebiotics; bioactive peptides; EPS and functionalities of dairy foods and pathways and mechanism and gene regulation of EPS production; genomics of selected LAB.

Awards and Honors (selected list):

I have been very fortunate to have received the following awards: American Dairy Science Association Foundation Scholar Award from American Dairy Science Association (ADSA), USA; Marschall Rhodia International Dairy Science Award from ADSA (sponsored by Danisco, USA); Australian Institute of Food Science and Technology Fellow award from Australian Institute of Food Science and Technology, Australia; Vice-Chancellor's Medal for Excellence in Research from Victoria University, Australia; Loftus-Hills silver medal from Dairy Industry Association, Australia; William C. Haines Dairy Science Award from California Dairy Research Foundation, USA; Keith Farrer award of merit from Australian Institute of Food Science and Technology, Australia; American Dairy Science Association Distinguished Service Award from American Dairy Science Association, USA; American Dairy Science Association Fellow award from American Dairy Science Association, USA; National Dairy Research Institute Dr. K.K. Iya Memorial Oration award from Indian Council of Agricultural Research, India; Lushan Friendship medal from the People's Government of Jiangxi Province, PR China; Fellow of the Institute of Food Technologists Fellow, USA; International Dairy Foods Association Research Award in Dairy Foods Processing from International Dairy Foods Association, USA.

Personal: Family, Interests, Hobbies:

I am blessed with a lovely family, my wife Nirmala, elder son Pramesh (and his family) and younger son Raj, a daughter Ekta (and her family including their adorable daughter). My family lives in the inner north part of Melbourne, Australia. I am currently working and living in Hong Kong. I enjoy travelling, and due to frequent travels, I do not get much time and space to do other things, except occasional swimming.

Advice to university students and career food scientists and technologists:

My advice to university students and career food scientists and technologists is to give your 100% on whatever work you do. Do something that has some relevance to our real life situation. If you are an academic, do interesting work that benefits your peers as well. Writing your first article is always going to be challenging. Learn your science, most importantly experimental design, statistical analysis, and critical review and understanding of your results. Master your writing skills, presentation skills, team work, and leadership. Believe in quality, not in quantity, and do not believe in short cuts. Enjoy your work, if you do not enjoy your work, you will not give 100% and you will not be able to achieve your goals. And remember there is no substitute for hard work. My advice is also to lead a balanced life involving family, friends and commitment to community.

Careers: Food Technologist

Nathalie J Plundrich, Ph.D., SinnovaTek

Introduction/Background: I joined SinnovaTek as a Food Technologist in early 2018. I earned my Associate's Degree as a Biological-Technical Assistant with a major in Biology and Biotechnology in 2007 and a B.S. in Bio-and Process Technologies with a major in Biotechnology from the Hochschule Furtwangen University (Germany) in 2011. After completing two internships in Dr. Mary Ann Lila's lab on the North Carolina Research Campus, Kannapolis, in 2010 and 2011, I went on and pursued both M.S. (2014) and Ph.D.



(2018) degrees in Food Science at North Carolina State University. Both my M.S. and Ph.D. research focused on the creation and evaluation of hypoallergenic edible protein ingredients through a green chemistry approach. I used plant polyphenolic compounds to bind food allergens to create protein-polyphenol aggregate particles with decreased allergenic potential. To date, I have published 7 first author publications and have co-authored 7 publications in peer-reviewed scientific journals. I currently serve as an incoming member on the awards committee of Phi Tau Sigma, an incoming Member-at-Large on the Board of Directors of the IFT Dogwood section, and serve as the Food, Bioprocessing and Nutrition Sciences departmental Ambassador and Country Contact for current and incoming international students.

Qualifications: Qualifications range from B.S. to Ph.D. Since we are a start-up, technical skills and knowledge in certain areas as well as soft skills generally are more important than degrees. The necessity for industry experience depends on the position. The ability to handle multiple projects, the ability to “wear different hats” and to be flexible as well as strong communication and time management skills are required.

Positions: Prior positions include Graduate Research Assistant and panelist on the Sensory Panel of the USDA Market Quality and Handling Research Unit at NC State University. Within SinnovaTek we are a diverse group of food scientists/technologists and engineers.

Duties: I serve as the technical lead in the research and development and commercialization of novel extraction and food ingredient technologies at SinnovaTek and at its subsidiary, SinnoVita. Besides that, I established and run SinnovaTek’s chemical lab for in-house analytical and quality tests. Currently, I am furthering the commercialization efforts of SinnoVita’s VITERO™ protein-polyphenol functional ingredient technology that I was integral in developing during my graduate career at NC State University. My focus is to further the research of this technology and to work on its food applications and technical sales. I also enjoy business development by seeking and creating new valuable connections with other professionals to engage both businesses in exciting and fruit-bearing projects.

Salaries: \$60,000 – \$90,000

Benefits: Health and dental care, profit sharing, paid time off

Conclusion: Working for a start-up has been very rewarding to me. If you want to be able to work on a variety of different fast-paced projects, see and experience different sides of the business, and have a profound impact on company growth, this would be the perfect fit for you.

Chapter News:

Iowa State Chapter

(Contributed by Terri Boylston, Ph.D.)

The Iowa State Chapter of Phi Tau Sigma celebrated the end of a successful year with induction of new members and celebration of our graduates on April 25. Seven students became members of Phi Tau Sigma in December 2018. Jessica Schaumburg (M.S. student) served as president during the past year and organized bimonthly meetings throughout the academic year with discussions of various hot topics. These meetings gave students and

faculty the opportunity to interact and discuss current topics that are pertinent to food scientists. The discussion topics and speakers were:

- 'Is Almond Milk Really Milk? A Friendly Debate between 2 Passionate Professors' – Dr. Lester Wilson and Kate Gilbert
- 'Professors Confess their Biggest Pet Peeves!' – roundtable discussion with students and faculty
- 'What is Life Like after the University?' Panel Discussion with Dr. Ken Prusa, Dr. Rodrigo Tarte, and Kate Gilbert
- 'Crickets – a Unique Protein Source' presentation by Shelby Smith, Founder of Gym-N-Eat-Crickets
- 'Making Sense of the Clean Label Trends' – Journal Club discussion
- 'Lab-Grown Meat – Ethics, Production, Environmental Impact and More' discussion led by Dr. Rodrigo Tarte
- 'Big Data' – discussion led by Dr. Joey Talbert

Phi Tau Sigma members organized and presented a panel on Graduate School to the members of the Food Science Club. Several Phi Tau Sigma members also participated in a Meal Packing Event for Meals from the Heartland with members of the Iowa Section of the Institute of Food Technologists.

Student engagement is the driving force in the success of the Iowa State Chapter. The Chapter is looking forward to continuing to engage students and promote the profession of Food Science in the coming year.



Graduating Phi Tau Sigma members from Iowa State. Front row: Zifan Wan, Ph.D., Sonia Carrola, B.S., Stephanie Hice, Ph.D.; Back row: Samuel Kiprotich, Ph.D., Angela Arensmeier, B.S., Jordan Giachetti, B.S., Alden Riak, B.S.



New Phi Tau Sigma members: Front row: Sonia Carrola (B.S. student), Jordan Giachetti (B.S. student); Backrow: Samuel Kiprotich (Ph.D. student), Alden Riak (B.S. student), Kizito Nishimwe (Ph.D. student); Not present Yeong Sheng Lee (M.S. student), Mariah Palmer (B.S. student)

Member News:

Participation in the Pangborn Sensory Science Symposium – Engage with the Future

(Contributed by Molly Higgins, Ph.D. Candidate in Food Science, Penn State University, and recipient of the Dr. Daryl B. Lund Student International Travel Scholarship 2019)

This year I received the Daryl Lund International Travel Award from Phi Tau Sigma to attend the 13th Pangborn Sensory Science Symposium in Edinburgh, Scotland. The conference was themed 'Engage with the Future' to encourage attendees to share their views on how sensory and consumer science will evolve over time and to learn about new, experimental techniques and methods. In accordance with this theme, the conference organizers added a new 'Early Career Researcher Seminar' for graduate students and young researchers to present their research and to discuss their vision of the future of sensory science. I was invited to present my research at this seminar in



addition to my poster presentation. This was my first oral presentation at a major international conference, and I was very thankful for the opportunity to improve my science communication skills.

My dissertation research involves perceptual differences between bitter stimuli and individual differences that lead to differential liking and intake of bitter food and beverage products. My presentation at Pangborn consisted of my recent work studying the relationship between personality factors and the liking and intake of bitter, pale ale style beers. Prior research involving the relationship between bitterness perception and the intake of bitter products indicates there is a negative relationship between bitter intensity and liking and intake. However, null or contradictory findings have been reported, and we hypothesized that these relationships are product specific and various factors such as personality traits may influence the relationship. In our research study, we were able to show that the interaction between the sensation seeking personality trait and bitterness intensity perception actually resulted in a *positive* relationship for the liking of a bitter, pale ale beer. My hope is that this research will lead to additional studies regarding the influence of personality on food choice and the development of strategies to increase the liking and intake of healthy, bitter foods.



In addition to presenting my research, I was able to attend multiple learnshops, workshops, and symposiums

led by the top researchers in the field of sensory and consumer sciences. Notably, I learned about the sensory challenges for space exploration food systems, the future role of social media in consumer research, and a case study on the successful use of sensory driven branding for a single malt whisky company. I was also able to use my downtime to explore the sights of Edinburgh. I enjoyed seeing the spectacular views of the city and castle, visiting the streets that provided inspiration for JK Rowling, and experiencing the food and culture of Scotland. My experience in Scotland is one that I will never forget, and I am very grateful for the generosity of Dr. Daryl and Mrs. Dawn Lund.

Dues Reminder:

Your dues status is listed in the cover email of this Newsletter. If you have not already paid your dues, Phi Tau Sigma Member dues are \$40 per year, but students get a discount so their dues are \$20 per year. Lifetime Membership is \$400 (just once). Please access the Phi

Tau Sigma Membership Dues Page at: <http://www.phitausigma.org/membership-dues/>. Proceed on to pay by PayPal. Once you are successful with your PayPal payment, you will receive a receipt. If you do not receive a receipt, please try again.

Dues can also be paid by check payable to **Phi Tau Sigma**, (made with U.S. Funds and drawn on a U.S. Bank). (Do not send a money order.) Do **not** write the check to Kantha. Mail your check to: **Kantha Shelke, Ph.D.** (Do **not** address to Phi Tau Sigma.)
33 West Ontario, Suite 57F, Chicago, IL 60654.

You are welcome at any time to give a donation to the Dr. Carl R. Fellers Award Fund, the Dr. Gideon "Guy" Livingston Scholarship Fund, Phi Tau Sigma Student Achievement Awards Fund, Phi Tau Sigma Special Recognition Award Fund, Dr. Daryl B. Lund International Scholarship Fund, Phi Tau Sigma Founders' Scholarship, Phi Tau Sigma Chapter of the Year Award, the Program Fund, or the General Fund.

We also ask each Chapter to send a list of their current, and lapsed, members along with contact information to the Chapter Affairs Committee Chair, Claire Koelsch Sand, Ph.D. at: clairekoelschsand@gmail.com, to help ensure our records are accurate.

Phi Tau Sigma Store

Phi Tau Sigma has an online store. Items featured include Honor Cords, Official Lapel Pins, Banners (podium and wall/table), Annual and Lifetime Member dues, printed Certificates of Membership, and an opportunity to make tax deductible donations to Phi Tau Sigma. The Society Store can be found by going to www.phitausigma.org/store.

Editorial: Timeliness

Recently I was asked why I endeavor not to procrastinate. The short answer is: Life. Life, with its twists and turns (unexpected family needs and emergencies, health issues, severe weather, ...) can quickly bring unanticipated requirements on one's time and energy. If I complete my tasks in an early, or at least timely, manner then the "surprises" life throws are more easily dealt with. This leads to a much more peaceful life.

About Phi Tau Sigma Communications:

The Phi Tau Sigma Newsletter Committee includes: Kathryn Kotula, Ph.D., Editor-in-Chief, Chair (klkotula@msn.com), Claire Zoellner, Ph.D., Associate Editor (cez23@cornell.edu), Anthony W. Kotula, Ph.D., Hossein Daryaei, Ph.D., Tianxi Yang, Ph.D., and Yiren Yue, Ph.D., Laura Stawn, Ph.D., Diane Schmitt, Ph.D., Gabriela John Swamy, Ph.D. Please be responsive to their inquiries for information for the Newsletter.

The Newsletter Committee particularly wishes to share news from Phi Tau Sigma Members and Chapters. Any items for the monthly Phi Tau Sigma Newsletter should be emailed in Word to Editor Kathryn L. Kotula, Ph.D. at klkotula@msn.com or Associate Newsletter Editor Claire Zoellner, Ph.D. at cez23@cornell.edu. Write "*Phi Tau Sigma Newsletter*" in the subject line. Please provide the information by the 1st of the month. Thanks.

Documents:

Phi Tau Sigma Documents can be found on our website at: www.phitausigma.org.

Phi Tau Sigma Membership Nominations

<http://www.phitausigma.org/membership-nomination-form-pdf/>
<http://www.phitausigma.org/membership-nomination-form-word/>

Phi Tau Sigma Scholarships and Awards Forms

<http://www.phitausigma.org/awards/>

Phi Tau Sigma Constitution and By-Laws

<http://www.phitausigma.org/constitution/>
<http://www.phitausigma.org/bylaws/>

Phi Tau Sigma Mentorship Program

<http://www.phitausigma.org/mentorship/>

Every Member Get A Member Campaign

<http://www.phitausigma.org/growing/>

Donors, Sponsors, and Contributing Partners:

Phi Tau Sigma accepts donations and has a variety of available sponsorship opportunities.

Phi Tau Sigma is a non-profit 501(c)(3) charitable organization, so your contributions are tax deductible to the extent provided by U.S. law.

Donations and sponsorships may come from, but are not limited to, Corporations, Companies, Universities, Government agencies, Associations, Consultants, and individuals.

Contributions are appreciated in any amount, and can be made by way of the Phi Tau Sigma website (<http://www.phitausigma.org/sponsor/>). Donations by check can be made by contacting: Treasurer Kantha Shelke, Ph.D. (kantha@corvusblue.net), 33 West Ontario, Suite 57F, Chicago, IL 60654. Please write "Donation" or "Sponsorship" in the subject line. Contributions of \$500 or more will be recognized publicly by the Society at the annual meeting, on the Phi Tau Sigma website, in printed material associated with relevant programs and events, and in the Phi Tau Sigma monthly Newsletter. Sponsorships of awards and scholarships are also available at levels of contribution sufficient to cover the associated cost of the award or scholarship. Endowments are also accepted.

Sponsorship opportunities are available for the Phi Tau Sigma Annual Recognition Event, Phi Tau Sigma Special Recognition Award, Phi Tau Sigma Student Achievement Award (up to 3 will be awarded), the Dr. Gideon "Guy" Livingston Scholarship Fund, the Phi Tau Sigma Founders' Scholarship, the Dr. Daryl B. Lund International Scholarship Fund, and the Phi Tau Sigma Outstanding Chapter of the Year Award. Donations can be made towards the awards and scholarships listed above, as well as the Program fund and the General fund. There are also endowment opportunities for student scholarships named for the sponsoring company.

Phi Tau Sigma has a **Contributing Partners Program** with five levels of sponsorships as described below. The Contributing Partner receives all of the benefits in the previous levels, plus the addition of the benefit listed for that level.

Bronze (\$5,000)

- Company listing in the "Donors and Sponsors" section of the Phi Tau Sigma Newsletter.
- Recognition with company name on www.PhiTauSigma.org
- Prominent recognition at all major Phi Tau Sigma events

Silver (\$10,000)

- Bronze benefits.
- Posting your company's job openings and internships in the Phi Tau Sigma Newsletter.

Gold (\$15,000)

- Silver benefits.
- Acknowledgement of sponsorship and placement of corporate logo on plaque or scholarship/award memorabilia.

Platinum (\$20,000)

- Gold benefits.
- A press release associated with significant contributions, distributed to allied professional and trade associations for circulation to their membership via their publications, e-news and/or listservs.
- Complimentary access to student resume database.

Diamond (\$25,000)

- Platinum benefits.
- Prominent multi-year listing on the Phi Tau Sigma website as a sponsor of an Endowed Program.

Some corporations will match individual contributions of their employees, so check with your company about matching funds.

For more information contact the Treasurer, Kantha Shelke, Ph.D.

(kantha@corvusblue.net), or the Executive Director, Kathryn L. Kotula, Ph.D.

(klkotula@msn.com). Please write "Donation" or "Sponsorship" in the subject line.

2019-2020 Contributing Partners:

Hawkins, Inc. is a progressive concern that manufactures and distributes specialty chemicals and provides functional solutions for a wide variety of industries. The Food Ingredients Group is a leading manufacturer of innovative pathogen control technologies and ingredients for the food industry. The formation of Ingredient Works, an entity conceived to capitalize on expertise in functional ingredient applications, food industry knowledge, technical service, and an extensive product portfolio, is focused on the comprehensive science of shelf-life, providing customized solutions to both the common and the highly complex issues faced every day by food manufacturers. The ultimate goal for the Hawkins



FOOD INGREDIENTS
GROUP

Food Ingredient Group is to re-define the concept of shelf life and become a complete solution provider to the food industry. (Contribution to support the Phi Tau Sigma Founders' Scholarship, and the Phi Tau Sigma general fund.) **Hawkins, Inc. is a Bronze level Contributing Partner.**

2019-2020 Sponsors and Donors:

Dr. Mary K. Schmidl is the President of the International Union of Food Science and Technology (IUFoST), a Lifetime Member and a past President of Phi Tau Sigma, a Past President of the Institute of Food Technologists (IFT) and Adjunct Professor, University of Minnesota.

Dr. Theodore P. Labuza is a Lifetime Member of Phi Tau Sigma, a Past President of the Institute of Food Technologists (IFT) and the Morse Alumni Distinguished Teaching Professor of Food Science and Engineering, University of Minnesota.

Dr. Fergus Clydesdale, a Lifetime Member of Phi Tau Sigma, is the Distinguished Professor and Director of the UMass Food Science Policy Alliance, University of Massachusetts Amherst and a member of Phi Tau Sigma since the 1960's.

Dr. Rakesh K. Singh is the Past President of Phi Tau Sigma, a Lifetime Member; and is Professor and Head of Department of Food Science & Technology at the University of Georgia. He is also a Fellow of IFT and Editor-in-Chief of LWT – Food Science and Technology. (Sponsorship of a Phi Tau Sigma Student Achievement Scholarship.)

Dr. Daryl and Mrs. Dawn Lund. Dr. Lund is past President of Phi Tau Sigma, Lifetime Member, past Treasurer, current Assistant Treasurer, and an Emeritus Professor, University of Wisconsin-Madison. (Sponsorship of the Dr. Daryl B. Lund Student International Travel Scholarship.)

Peter M Salmon, M.S., MBA, a Lifetime Member of Phi Tau Sigma, is the Founder and President of International Food Network, Inc., currently retired. (Sponsorship towards a Phi Tau Sigma Student Achievement Scholarship.)

Elsevier Publishing Company. Elsevier books have an established reputation for providing ground-breaking and expansive content; written by world renowned, award-winning authors and reviewed by an expert team of editors. Elsevier Food Science content covers aspects of food from chemical composition, to growth and production to distribution and consumption – from farm to fork. Our extensive collection includes eBooks, print books, series, handbooks, and major reference works, all complementing our expansive collection of food science journals and designed to help food science professionals continue to be innovative and make evidence-based contributions to the communities, translating knowledge into applications for the world. Our wide variety of books and eBooks reflects our passion for empowering early career researcher development, initiating innovation, and sharing established expertise in the Food Science field. (Donation towards a Phi Tau Sigma Student Achievement Scholarship.)



ELSEVIER

William Benjy Mikel, Ph.D., a Phi Tau Sigma past President and a Lifetime Member who appreciates the field of food science and technology. (Donation towards a Phi Tau Sigma Student Achievement Scholarship.)

Nina Teicholz, M.Phil. is an adjunct professor at New York University, investigative science journalist and author. Her international bestseller, *The Big Fat Surprise* has upended the conventional wisdom on dietary fat—especially saturated fat. The executive editor of “The Lancet” wrote, “this is a disquieting book about...ruthless silencing of dissent that has shaped our lives for decades ... researchers, clinicians, and health policy advisors should read this provocative book.” *The Big Fat Surprise* was named a 2014 *Best Book* by *The Economist*, *the Wall Street Journal*, *Forbes*, *Mother Jones*, and *Library Journal*. Teicholz is also the Executive Director of The Nutrition Coalition, a non-profit group that promotes evidence-based nutrition policy. She is a graduate of Stanford and Oxford Universities and previously served as associate director of the Center for Globalization and Sustainable Development at Columbia University. Teicholz is the only journalist to date to be elected to Phi Tau Sigma. (Sponsorship of the Phi Tau Sigma Special Recognition Award, and Phi Tau Sigma programs.)

David K. Park, M.S., Phi Tau Sigma Lifetime Member, is Principal, Food-Defense, LLC, providing expert food safety / food defense, USFDA and USDA-FSIS Process Authority consultation for thermal and non-thermally processed low acid canned foods (LACF), acidified foods (AF), and refrigerated extended shelf life foods (ESL) and their packaging systems. (Donation towards a Phi Tau Sigma Student Achievement Scholarship.)

Dr. Catherine Adams Hutt and **Peter Barton Hutt**, Phi Tau Sigma Lifetime Members. Catherine is food safety and regulatory consultant and expert witness with RdR Solutions, and Peter is an attorney with Covington and Burling. Both are IFT Fellows. (Donation for the Dr. Gideon “Guy” Livingston Scholarship)

A donation was made towards a Phi Tau Sigma Scholarship by a Phi Tau Sigma Lifetime Member who wishes to remain anonymous.