President’s Message: Rodrigo Tarté, Ph.D.

It is a personal honor to enter Phi Tau Sigma’s 69th year of existence as its President. Phi Tau Sigma’s momentum continues to grow, thanks to the time and effort of so my volunteers and the financial support of all members in good standing. This year I am privileged and humbled to serve alongside other very committed members of the Executive Committee: Dr. Lauren Jackson, President Elect; Dr. Kantha Shelke, Treasurer; Dr. Daryl Lund, Assistant Treasurer; and Dr. Kathryn Kotula, Executive Director. The Board of Directors welcomes Dr. Terri Boylston, Stephen Campano, M.S., Dr. Dennis Heldman, and Dr. Amy Simone, who will serve alongside continuing Board members Martha Cassens, M.S., Dr. Rebecca Creasy, Dr. Yaguang (Sunny) Luo, Dr. Laura Strawn, Dr. Navam Hettiarachchy, Dr. Poulson Joseph, Dr. Fanbin Kong, and Dr. Matthew Taylor. We also welcome several new Committee Chairs and numerous new and first-time committee members. I would like to recognize our outgoing Executive Committee members: Past President Dr. Liz Boyle, Directors Stephen Campano, M.S., Ravi Chermala, M.S., Dr. Lili He and Dr. Claire Zoellner, and all outgoing Committee Chairs. I would also like to recognize the efforts of our Executive Director, Dr. Kathryn Kotula, for her excellent administration of the day-to-day affairs of the Society and for serving as editor of our excellent monthly newsletter. Phi Tau Sigma owes you all a debt of gratitude for your dedicated and selfless service.

On July 19, we held our Annual Business Meeting and Awards Ceremony, once again as a virtual event. During the event we recognized 9 individuals and 3 outstanding chapters. If you missed the original airing of the event, or just wish to relive it, the recording is available for viewing on our website, www.phitausigma.org. I’d like to recognize the members of the Awards Committee, led by Chair Dr. Charlwit Kulchaiyawat, and members of the Program Committee, particularly Yiwen Li, Ph.D. Candidate, Dr. Anna Hayes, and Dr. Kaavya Rathnakumar, for putting this excellent program together. While I hope we will meet in person next summer, it gives me great confidence to know that we have members who are willing to step up to new challenges when unusual circumstances call for them.
The four stated **purposes of Phi Tau Sigma** are: 1) To recognize and honor the professional achievements of food scientists and technologists, especially students; 2) To encourage the application of fundamental scientific principles to food science and technology; 3) To stimulate and foster the exchange of scientific knowledge through meetings, lectures, electronic means, publications and other communication tools; and 4) To promote leadership in science, service, education and social programs for the Society membership. In order for Phi Tau Sigma to continue to excel and raise the bar, we need all of us. As I stated during the Annual Meeting, there are three things you can do: 1) Nominate someone; 2) Stay up-to-date on your membership dues; and 3) Get involved. In addition, if you have any feedback or suggestions for the leadership team, please reach out to me or Dr. Kotula.

Thank you for the trust you have placed in me to lead this outstanding Society. I look forward to another great year for Phi Tau Sigma as together we continue to elevate the stature of the Food Science and Technology profession.

**About your Phi Tau Sigma President**

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 received his B. S. in Food Technology and Science, M.S. in Food Technology and Ph.D. in Meat Science and Food Science and Technology, from Iowa State University. He joined the Iowa State faculty in 2015 after 19 years in research & development in the meat processing industry. His primary areas of expertise and research are meat further processing, meat product formulation, non-meat ingredient technology and food safety microbiology. At Iowa State his research program is specifically focused on development and application of technologies to enable product innovation and increase quality and value of processed and value-added meat products. He also teaches the courses *Foods of Animal Origin, Processed Meats* and *Advanced Meat Processing Principles and Technology*, serves as Director of the *Online Graduate Certificate in Meat Science* program, and advises dozens of undergraduate students. He has contributed numerous research articles, and several book chapters and trade articles in his area. He is a past Chair of the Institute of Food Technologists (IFT) Muscle Foods Division and member of the Boards of Directors of the American Meat Science Association and of Phi Tau Sigma. He is a recipient of the *Meat Processing Award* (2013) of the American Meat Science Association, the *Alumni Impact Award* (2014) of the ISU Department of Food Science and Human Nutrition, and the *Early Advisor Award* (2021) of the ISU College of Agriculture and Life Sciences.

In his spare time, Rodrigo enjoys reading (mostly non-fiction) and bicycling. He and his wife Mercedes have two sons, Daniel, a Phi Tau Sigma member, who is a Ph.D. student in Molecular Biology at Yale University, and David, who is a junior in French Horn Performance at Rice University. They also have two pets: Polo, an 8-year-old Shiba Inu, and Enzo, a 9½-year-old chinchilla.
News:

Hawkins, Inc. - Silver Contributing Partner to Phi Tau Sigma

Hawkins, Inc., Food Ingredients Group is again a Silver Contributing Partner to Phi Tau Sigma. Always on the forefront, Hawkins, Inc. has been a consistent and longtime sponsor of Phi Tau Sigma scholarships since 2012, and by this donation has renewed their commitment to the philosophies and accomplishments of Phi Tau Sigma.

Hawkins is a formulator, manufacturer, blender and distributor of specialty chemicals, and provides functional solutions to 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 Ingredient Group is to re-define the concept of shelf life and become a complete solution provider to the food industry.

Interested in becoming a Contributing Partner or other significant donor to Phi Tau Sigma? Read the "Contributing Partners“ article below or the "Sponsors and Donors” section.

Phi Tau Sigma Annual Business Meeting and Awards Ceremony:
The Phi Tau Sigma Annual Meeting and Awards Ceremony was presented virtually on Monday July 19, 2021.

The recording can be found at:
Our website
http://www.phitausigma.org

Our LinkedIn page
https://www.linkedin.com/company/14565458

Our Youtube channel
https://www.youtube.com/channel/UCXhKd6IpZACIV-YL_y0gytA/

Our Facebook page
https://www.facebook.com/phitausigma
The mission of Phi Tau Sigma is to raise the stature of the Food Science and Technology profession by recognizing outstanding achievements of Food Science students and professionals and enhancing professional development among Food Science professionals through the Phi Tau Sigma member network. Towards that mission, the ad hoc Student Relations Committee works hard to promote student member research, activities, and community. This year, Phi Tau Sigma provided sponsorship and volunteer judges for the IFTSA Undergraduate Research Competition. Designed to showcase outstanding research at the undergraduate level, this competition gives students engaged in independent research an opportunity to present their work at the IFT Annual Event. Finalists are awarded a travel stipend for the annual meeting and prize money is given to the top three researchers: First place, $1000; Second place, $750; and Third place, $500.

This year’s top finalists were Diana Karajeh, The Ohio State University (first place); Alton Chambers, Alabama Agricultural and Mechanical University (second place); and Katherine Lobeda, Virginia Tech (third place). The virtual IFTSA Closing Ceremony can be viewed at: https://www.youtube.com/watch?v=cPngDC8lFZM.

Congratulations to these research finalists and we wish all undergraduate researchers many more years of challenging, enlightening, and innovative research! If you would like to feature your research in the monthly Newsletter, please send your synopsis to Claire at cez23@cornell.edu.

Updated Membership Nomination form
An updated Phi Tau Sigma membership nomination form has been developed. It is available on the Phi Tau Sigma website at http://phitausigma.org/membership/ in both Word and writeable pdf formats, respectively. The updated version of the form will be the only one accepted from July 1, 2021 onward.

The membership nomination form is updated from time to time as new situations arise, more explanation needs to be given, and/or for logistical reasons. As always, please read the Instructions which start on page 3 of the form before and after filling it out to be sure it is done correctly. Copies of the new form, any questions, requests for clarification, or comments can be directed to the current Chair of the Membership & Qualifications Committee (elizabeth.grasso-kelley@fda.hhs.gov), or the Executive Director (klkotula@msn.com).

Please try out the form by nominating colleagues and students.
Undergraduate and Graduate Research Competitions through the Agricultural & Food Chemistry Division of ACS

The deadline for nominations for the Undergraduate Research Competition and the Withycombe-Charalambous Graduate Research Competition from the Agricultural and Food Chemistry Division (AGFD) of the American Chemical Society (ACS) is **October 15, 2021**. For more information on these awards as well as others available from AGFD/ACS please visit the AGFD website:  [https://www.agfoodchem.org/](https://www.agfoodchem.org/)

From the Desk of the Treasurer:

**Honor societies – a historical perspective**
(Contributed by Kantha Shelke, Ph.D., Phi Tau Sigma Treasurer)

The persistent stereotype casts scientists as solitary geniuses. Science, however, has always been a cooperative endeavor. Researchers sought inspiration from the reciprocity of ideas, from communal experiments, and from personal rivalry within a coterie with common interests. Historically, the pursuit of scientific discovery has always had benefactors—the community itself, powerful and wealthy citizens, or religious or learning centers—to sponsor, own, and leverage discoveries and to publish theses.

The first documented society, explicitly for the purpose of advancing science, was Accademia dei Lincei organized by Duke Federico Cesi in Rome, in 1603. Charter members included Galileo Galilei (astronomy), Giambattista della Porta (agriculture and pharmacology), and Francesco Stelluti (microscopy) among other prominent scientists who championed the role of experiments in advancing knowledge and the role of a group of experts such as themselves to sanction and support scientific investigation.

The Lincei (lynx) symbolized scientific truth in its struggle with ignorance. *In Native American folklore, the Lynx Spirit has the gift of true seeing and observation. It is the master of sensing things others miss or ignore.* Galileo used the title "Lynceus" throughout his career and acknowledged the “Academy” in his famous dialogue presenting his revolutionary understanding of the universe.

This scientific society set an example for future scientific groups to help advance scientific knowledge and practice through dialog and publications. An important paradigm for the development of scientific societies came not from a group but from Francis Bacon (1561-1626) who famously argued against solitary scholasticism and encouraged scientists to work together in an organized manner for the betterment of mankind.

Phi Tau Sigma offers exactly that – a safe network to extend access of food scientists and technologists to others like them to advance knowledge, careers, and to provide scholarly prestige. While enterprises like LinkedIn tout connections, Phi Tau Sigma connections are with a smaller, tighter, and more relevant network of vetted scientists poised to help pave the way to your career goal.

Honor societies are sometimes criticized as elitist. The enlightened perception is that of a clearinghouse for strategic connections and rapid advancement of discipline and professionals. The practical benefits of Phi Tau Sigma are enormous: to connect
internationally whether for jobs or to find interns, employees and collaborators; to share knowledge; to connect those on esoteric and difficult studies reliably with others of similar interest and expertise; to sponsor prizes to recognize and honor scientific accomplishment; and most of all, to serve as a supportive “family”.

Aren’t you glad you are a member of Phi Tau Sigma, the backbone of the international network of communication and cooperation among food scientists and technologists and allied disciplines?

**Know your Leadership:**

**Phi Tau Sigma Executive Committee:**

Rodrigo Tarté, Ph.D., President  
Lauren Jackson, Ph.D. President Elect  
Kantha Shelke, Ph.D., Treasurer  
Daryl Lund, Ph.D., Assistant Treasurer  
Kathryn L. Kotula, Ph.D., Executive Director

rtarte@iastate.edu  
lauren.jackson@fda.hhs.gov  
kantha@corvusblue.net  
dblund@wisc.edu  
klkotula@msn.com

**Phi Tau Sigma Directors:**

2019-20 to 2021-22: Until August 31, 2022  
Martha Cassens, M.S.  
Rebecca Creasy, Ph.D.  
Yaguang (Sunny) Luo, Ph.D.  
Laura Strawn, Ph.D.  
mcassens@achfood.com  
rebecca.creasy@tamu.edu  
yaguang.luo@ars.usda.gov  
lstrawn@vt.edu

2020-21 to 2022-23: Until August 31, 2023  
Navagnana (Navam) Hettiarachchy, Ph.D.  
Poulson Joseph, Ph.D.  
Fanbin Kong, Ph.D.  
Matthew (Matt) Taylor, Ph.D.  
nhettiar@uark.edu  
poulsonjoseph@gmail.com  
fkong@uga.edu  
matt_taylor@tamu.edu

2021-22 to 2023-24: Until August 31, 2024  
Terri Boylston, Ph.D.  
Stephen Campano, M.S.  
Dennis R. Heldman, Ph.D.  
Amarat (Amy) Simonne, Ph.D.  
tboylsto@iastate.edu  
steve.campano@hawkinsinc.com  
heldman.20@osu.edu  
asim@ufl.edu

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**2021 – 2022 Phi Tau Sigma Committees**

**Awards**  
“The Awards Committee shall develop appropriate awards programs to recognize distinguished scientists who have made substantial contributions to Food Science and Technology and its related disciplines. Awards programs shall also be developed to recognize promising younger scientists and students.” [Phi Tau Sigma ByLaws, Article XI, Section 1]

Lili He, Ph.D., Chair (lilihe@foodsci.umass.edu), Chariwit Kulchaiyawat, Ph.D, Past Chair, Yaguang (Sunny) Luo, Ph.D., Rotimi Aluko, Ph.D., Elena Castell-Perez, Ph.D., Janam
Chapter Affairs

“The Chapters Affairs Committee shall be responsible for the relationships between the SOCIETY and the Chapters” [Phi Tau Sigma Bylaws, Article XI, Section 2]

Terri Boylston, Ph.D., Chair, (tboylsto@iastate.edu), Evelyn Watts, Ph.D., Minh Duong, Ph.D., Trisha Bhatia, Ph.D., Lester Harry Schonberger, Ph.D., P. Kumar Mallikarjunan, Ph.D., Emerson David Nolasco Guzman (Ph.D. student), Laurel Dunn, Ph.D., Shantrell Willis, Ph.D., Denny Heldman, Ph.D., Charl wit Kulchaiyawat, Ph.D., Lily Yang, Ph.D., Urvi Shah, M.S. (Ph.D. student)

Constitution & Bylaws

“The Committee shall maintain continuing surveillance over the developments of any conflicts between the Constitution and the Bylaws. It shall review and make recommendations to the Executive Committee on all proposed amendments to the Constitution or Bylaws.” [Phi Tau Sigma Bylaws, Article XI, Section 3]

Rick Falkenberg, Ph.D., Chair (rick.falkenberg@outlook.com), Anand Mohan, Ph.D., Vijaya Varma Indukuri, Ph.D., Lida Rahimi Araghi, M.S., Ravi Jadeja, Ph.D., Manoj Sawale (Ph.D. student), Chengchu Liu, Ph.D., Virginia Ng, M.S., Shankaralingam Pitchiah, M.S., Kenneth McMillin, Ph.D., Janet Collins, Ph.D.

Finance

“The Finance Committee shall be responsible for managing the SOCIETY’S finances including preparing and submitting the budget.” [Phi Tau Sigma Bylaws, Article XI, Section 4]

Kantha Shelke, Ph.D., Chair (kantha@corvusblue.net), Daryl Lund, Ph.D., Mary Schmidl, Ph.D., Kathryn L. Kotula, Ph.D., Liz Boyle, Ph.D., Rodrigo Tarté, Ph.D., Lauren Jackson, Ph.D.

Membership & Qualifications

“The Membership and Qualifications Committee shall review all membership nominations for compliance with the SOCIETY’S requirements and shall recommend qualified candidates to the Executive Committee for induction into Phi Tau Sigma.” [Phi Tau Sigma Bylaws, Article XI, Section 5]

Elizabeth M. Grasso-Kelley, Ph.D., Chair (elizabeth.grasso-kelly@fda.hhs.gov), Lauren Jackson, Ph.D., Past Chair, Rick Falkenberg, Ph.D., Diane Schmitt, Ph.D., Ashwini Wagh, Ph.D., Rodrigo Tarté, Ph.D., Geoffrey Smithers, Ph.D., Ogechukwu Tasie, Ph.D., Sarah Caballero, M.S., Maria Plaza-Delestre, Ph.D., Terri Boylston, Ph.D., Janet Collins, Ph.D., Doyin Ryu, Ph.D., Aliyar Fouladkah, Ph.D.

Newsletter and Communications

“The Newsletter shall serve as a source of information about the SOCIETY, its Members, and other news and information related to Food Science and Technology.” [Phi Tau Sigma Bylaws, Article XI, Section 7]

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., Tianxi Yang, Ph.D., Diane Schmitt, Ph.D., Tiantian Lin, Ph.D., Kaavya Rathnakumar, Ph.D., Ashwini Wagh, Ph.D., Ravi Tadapaneni, Ph.D., Samruddhi Jadhav, M.S., Damla Dag, Ph.D., Sonali Raghunath, M.S. (Ph.D. student)
Nominations & Elections
“The Nominations and Elections Committee shall solicit nominations for officers and At-Large Councilors, screen candidates and obtain written agreements from them to serve if elected, in time to meet the balloting deadlines.” [Phi Tau Sigma Bylaws, Article XI, Section 6]
Liz Boyle, Ph.D., Chair (iboyle@ksu.edu), Tom Aurand, Ph.D., Past Chair, Lida Rahimi Aragh, M.S. (Ph.D. student), Abhinav Mishra, Ph.D., Kasiviswanathan Muthukumarappan, Ph.D., Nuria Acevedo, Ph.D., Zhongli Pan, Ph.D., Shantrell Willis, Ph.D., Yaquang (Sunny) Luo, Ph.D., Amarat (Amy) Simonne, Ph.D., John Luchansky, Ph.D.

Program
“The Program Committee shall be responsible for identifying and presenting appropriate programs to encourage the long-range professional growth of the SOCIETY. It shall be responsible for all activities at the Annual Meeting of both the SOCIETY and of the Institute of Food Technologists, other than the meeting of the Executive Committee. The committee may develop or assist in developing programs for smaller groups or members, such as: Chapters, regional meetings, symposia or scientific lectureships.” [Phi Tau Sigma Bylaws, Article XI, Section 8]
Lauren Jackson, Ph.D., Chair (lauren.jackson@fda.hhs.gov), Rodrigo Tarté, Ph.D., Past Chair, Hossein Daryaei, Ph.D., Yiwen Li, B.S. (Ph.D. student), Yanhong He, Ph.D., Jamie Kendrick Wiggins, M.S., Cordelia Selomulya, Ph.D., Joy Simpson, M.S., MBA, Anna Hayes, Ph.D., Kaavya.Rathnakumar, Ph.D., Kathiravan Krishnamurthy, Ph.D., Nuria Acevedo, Ph.D., Meera Iyer, Ph.D., Gurpreet Kaur (Ph.D. student), Pablo Torres-Aguilar, Ph.D., Anand Mohan, Ph.D., Hosahalli Ramaswamy, Ph.D.

Development
Develop and implement strategies and mechanisms to raise long range funding to allow Phi Tau Sigma to be funded in perpetuity.
(Christopher) Adam Baker, Ph.D., Chair (bakeca22@gmail.com), Mary Schmidl, Ph.D., Past Chair, Daryl Lund, Ph.D., Bob Yongsheng Xiang, Ph.D., Vaidhyanathan Anantharamkrishnan, Ph.D., Ravi Tadapaneni, Ph.D., Yao Wen Huang, Ph.D., Lily Yang, Ph.D., Rhonda Miller, Ph.D., Rándol Rodríguez-Rosas, Ph.D., Yiwen Li, (Ph.D. Candidate), Lauren Jackson, Ph.D.

Phi Tau Sigma - AMSA Research with Impact Scholarship Selection Committee
Collect and evaluate the nominations for this scholarship, with the cooperation of the American Meat Science Association.
Kathryn Kotula, Ph.D., Chair (kikotula@msn.com), Liz Boyle, Ph.D., Russell Cross, Ph.D., Poulson Joseph, Ph.D., W. Benjy Mikel, Ph.D., Rodrigo Tarté, Ph.D.

Ad Hoc Audit
Audits, reviews, and reports on the Treasurer’s records.
Steve Campano, M.S., Chair (steve.campano@hawkinsinc.com), Mary Schmidl, Ph.D., Past Chair, Denny Heldman, Ph.D., H. Kenneth Johnson, M.S., Rakesh Singh, Ph.D., Katheryn Parraga Estrada, Ph.D., Gurpreet Kaur, M.S. (Ph.D. student)

Ad Hoc Strategic Relations
Develop and recommend to the Executive Committee a prioritized strategic plan for long term financial stability and relationship building of Phi Tau Sigma.
Kantha Shelke, Ph.D., Chair and Past Chair, (kantha@corvusblue.net), Dongjun Zhao, Ph.D., Joshua Herring, Ph.D., Pablo Coronel, Ph.D., Louise Wicker, Ph.D., Sara Gragg, Ph.D., Herbert Stone, Ph.D., Peter Salmon, M.S., MBA, Jorge Welti-Chanes, Ph.D., SuriyaPrakaash Lakshmi Balasubramaniam, M.S. (Ph.D. student), Yaozhou (Sophie) Zhu, Ph.D., Zhongli Pan, Ph.D., Sonali Raguhnath, M.S. (Ph.D. student)
**Ad Hoc Student Relations**
Develop and recommend to the Executive Committee a prioritized strategic plan for a long term relationship with IFTSA and Phi Tau Sigma and improve student relations/interactions with student members of Phi Tau Sigma. The recommended strategies may be implemented with Executive Committee approval.
Halak Mehta (Ph.D. student), Chair (mehta127@purdue.edu), Claire Zoellner, Ph.D., Past Chair, Damla Dag, Ph.D., John Luchansky, Ph.D., Andrew Neilson, Ph.D., Sonali Raghunath, M.S. (Ph.D. student), Ahmed Gomaa (Ph.D. student), Luyao Ma (Ph.D. student), Sasiyeka Rajendran, M. Tech, (Ph.D. student), Shruti Sharma, M.S. (Ph.D. student), Gretchen Gustafson, B.S. (M.S. student), Leslie Loehr, B.S. (M.S. student), Joe Regenstein, Ph.D., Kathryn Westfield, B.S., Rebecca Stayner, B.S., (Gabriel) Keith Harris, Ph.D.

**Ad hoc Website/Wikipedia Committee**
Provides leadership, creativity and timely information for the Phi Tau Sigma website and the webpage on Wikipedia.
Kathiravan Krishnamurthy, Ph.D., Chair & Past Chair (kathiravan.rps@gmail.com), Pablo Coronel, Ph.D., Maryam Enteshari, M.S., Lida Rahimi Araghi, M.Sc., Vijaya Varma Indukuri, Ph.D., Minwei Xu, Ph.D., Tianxi Yang, Ph.D., Sofia Feng, Ph.D., Avinash Patel (Ph.D. student), Alan Gutierrez, B.S. (Ph.D. student), Hardy Castada, Ph.D., Emine Ozen, M.S. (Ph.D. student), Xinyue Fan, M.S.

**Ad hoc Internship Organization Committee**
To organize and administer a program to advertise and link companies seeking interns with Phi Tau Sigma students seeking internships.
Kantha Shelke, Ph.D., Chair (kantha@corvusblue.net), Gayathri Balakrishnan, Ph.D., Ellen Bradley, B.S., Christina Dewitt, Ph.D., Purnendu C. Vasavada, Ph.D., Nancy Maragioglio, B.S., Sarah Corwin (Ph.D. student), Jorge Muriel Mundo (Ph.D. student), Govidaraj Dev Kumar, Ph.D., Chelsea Tyus, Ph.D., Milda Embuscado, Ph.D., Yozhao (Sophie) Zhu, Ph.D., Natalie Haag, B.S., Shengyue Shan, M.S. (Ph.D. student), Dajun Yu (Ph.D. student), Ivanett Barreto Concepción, Aurora Saulo, Ph.D., Jenna Miller, M.S., Sawali Navare, M.S. (Ph.D. student), Cassandra Maya, M.S. (Ph.D. student)

**Ad hoc Future Directions Committee**
To evaluate our relationship with professional societies, and determine our next steps into the future.
Liz Boyle, Ph.D., Chair (lboyle@ksu.edu), Daryl Lund, Ph.D., Past Chair, Tom Aurand, Ph.D., Steve Campano, M.S., Denny Heldman, Ph.D., Lauren Jackson, Ph.D., Kathy Kotula, Ph.D., Mary Schmidl, Ph.D., Rodrigo Tarté, Ph.D., Keith Belk, Ph.D., R. Paul Singh, Ph.D., Connie Weaver, Ph.D., V. M. Balasubramanian, Ph.D., Fred Breidt, Ph.D.

**Calendar:**

- **Phi Tau Sigma Chapter Schedule:**
  - **October 25:** 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
  - **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, Terri Boylston, Ph.D., (tboylsto@iastate.edu), with a copy to Dr. Kathryn L. Kotula (klkotula@msn.com).

**>Phi Tau Sigma Scholarship and Awards Schedule:**

- **November 30:** Deadline to submit nominations to the Awards Committee for the Dr. Daryl B. and Mrs. Dawn L. Lund Student 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 Lili He, Ph.D. (lilihe@foodsci.umass.edu) and Executive Director Kathryn L. Kotula, Ph.D. (klkotula@msn.com). (More information: http://www.phitausigma.org/awards/)

**>Phi Tau Sigma – AMSA ‘Research with Impact’ Scholarship Schedule:**

- **April 19:** Deadline to submit nominations for the Phi Tau Sigma – AMSA Research with Impact Scholarship.

Send completed nomination forms to Executive Director Kathryn L. Kotula, Ph.D. (klkotula@msn.com), and the AMSA Youth Programs Manager (scholarships@meatscience.org). (More information: http://www.phitausigma.org/awards/)

**>December 7:** 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)

**>Election schedule:**

- **December 15:** Nominations due to Nomination and Election Committee (Liz Boyle, Ph.D., Chair, lboyle@ksu.edu)
- **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
- **May:** Newly elected individuals announced to the Membership in the May Phi Tau Sigma Newsletter

**>Phi Tau Sigma Annual Meetings and Events:**

- **2022:** To be determined

**>July 10-13, 2022, Institute of Food Technologists Annual Meeting**

**>June 12-15, 2022 - Reciprocal Meat Conference of the AMSA, Des Moines, Iowa**
**Student Research Synopsis: [YOUR RESEARCH HERE]**
(Contributed by Claire Zoellner, Ph.D., Associate Newsletter Editor)

**- - Calling all student researchers to share your research in the newsletter! - -**

As the purpose of our Honor Society includes recognition of professional achievements, encouragement of the application of scientific principles to food science and technology and the establishment of a professional network, the monthly Newsletter serves to connect all members under this mission. The Newsletter always includes information from Leadership and Committees regarding news, important dates and upcoming events. Some of the special features of the Newsletter include Careers, Lifetime Member Tribute, Chapter News, History and others to highlight our colleagues. The **Student Research** feature article is a great opportunity to strengthen the connection between students and the professional field, while highlighting achievements of our members. All B.S., M.S. and Ph.D. research related to the field of food science and technology is welcomed and encouraged. Please find submission information below and spread the word to respective Chapter members.

**Instructions for Preparation of Articles:**
1. The contributing student must be a Phi Tau Sigma Member in good standing (having paid their dues) working towards a degree in food science or related field.
2. Research must be written in clear and correct English and may be sent to Claire Zoellner, Ph.D. (<cez23@cornell.edu>).
3. Articles should include all authors and should be approved by all authors.
4. The article should be limited to 1-1.5 pages (Verdana 10 font) and include citations for any references mentioned.
5. Synopses must report original research based on accepted scientific practices. Research that has been published in peer reviewed journals is acceptable and preferred.
6. A figure or table and photo of the author(s) are encouraged.
7. The synopsis should include the following:

   **Title, authors and affiliations**
   
   Journal reference (if applicable)

   **Introduction:** background, problem statement, justification for study

   **Purpose:** objectives and/or hypothesis of study

   **Methods:** statement of methods used, specific enough to understand the design, approach and analysis

   **Results:** describe the results obtained in the study with statistical analysis (if appropriate) and (1) table or graphic

   **Significance:** state/discuss the significance and potential uses of findings

   **References:** list of references cited
Lifetime Member Tribute: Rolando A. Flores Galarza, Ph.D.
Dean and Chief Administrative Officer
College of Agricultural, Consumer and Environmental Sciences
New Mexico State University (NMSU)
Las Cruces, New Mexico

Why did you become a Lifetime Member?  A lifetime membership gives me the peace of mind that I have a continuous membership until the end of my days, I do not have to worry about the annual payment, and the organization has an opportunity to manage the budget better for the good of the organization.

Education:
B.S. Mechanical Engineering Universidad de Costa Rica 1974
M.S. Agricultural Engineering Iowa State University 1981
Ph.D. Grain Science Kansas State University 1989

Experience/Accomplishments:
Prior to coming to NMSU, Dr. Flores was Professor and Head of the Department of Food Science and Technology and Director of The Food Processing Center at the University of Nebraska–Lincoln. Dr. Flores served on the faculty at Iowa State University and Kansas State University where he taught food processing courses and conducted research. He worked in process risk modeling for the U.S. Department of Agriculture-Agricultural Research Service and served as the administration director for the National Production Bureau of Costa Rica.

Areas of Expertise:
Byproduct utilization in food and non-food applications, dry fractionation methods to develop food value-added ingredients, process optimization, modeling and computer simulation of food processes, unit operations used in the manufacturing of food, including water utilization and reconditioning in food processing operations and process risk modeling. Fifteen years of experience in management of academic operations at land grant universities.

Awards and Honors (selected list):
In 2008, he received the Stanley Watson Award of the American Association of Cereal Chemists International. In 2012 he was part of the team that received the USDA-ARS National Technology Transfer Award. In April of 2017, he received the Kansas State University Department of Grain Science and Industry’s Outstanding Alumni Award, this award recognizes Grain Science alumni who have made a significant positive impact on, or contribution to the field of grain science. He became a Robert B. Daugherty Water for Food Global Institute Faculty Global Fellow in 2017. In April of 2018, he received the Kansas State University Alumni Fellow for the Graduate School Award, this award recognizes alumni who have distinguished themselves in their careers. In May 2018, during the Women Economic Forum in India, he was the recipient of the prestigious Leaders of the Decade in Academia Award. He received the prestigious Institute of Food Technologists Fellow in 2020.

Personal:  Family, Interests, Hobbies:  Married to Estela M. Flores; has two daughters Andrea Cristina and Ana Catalina (Cata) married to Shu Rau. Two grandchildren from Cata
and Shu, Vincent Arturo and Julian Marcos. Very interested in action mechanisms that activate engines and apparatus. Enjoys motorcycling, camping outdoors and beach sports.

**Advice to university students and career food scientists and technologists:**
Food science careers are extremely rewarding as they impact the wellbeing of humankind. As the world population grows in challenging environments with limited resources for food production, research and its implementation in food safety and production are of high importance to the future of our health and quality of life of humans on the Earth and beyond.

**Careers: Food Microbiologist**
Contributed by Justin Chow, M.S., AEMTEK Inc.

**Introduction/Background:** My current role is Food Microbiologist on the research team at AEMTEK Inc. – a third party laboratory based in San Francisco that provides testing and consulting services for the food industry. I received my B.Sc. and M.Sc. in Food Science from UC Davis and UW Madison. As a student, I have worked on multiple projects related to food safety such as antimicrobial challenge studies and outbreak investigation on dairy farms.

**Qualifications:** Entry level technicians would have a variety of degrees in Food Science, Microbiology, or Biology in general with previous lab experience in the industry. Associate to Mid-level would most likely require advance degree but also possible with a Bachelor’s and the relevant experience.

**Positions:** Research Food Microbiologist (AEMTEK Inc.), Graduate Research/Teaching Assistant (UW-Madison), Undergraduate Research Scholar (UC Davis), Microbiology Technician (Certified Laboratories Inc.)

**Duties:** The duties of a Food Microbiologist at AEMTEK Inc. are similar to other FSQA professionals in the industry, but we manage projects from multidisciplinary clients (food, beverage, supplements, etc.) rather than focusing one or two product lines if you worked at companies specialized in their own food category. Our team provides technical services to clients in solving complex problems related to microbial contamination control, training, and food safety – such as designing complex challenge and validation studies tailored to the client’s specific concerns. In addition, we also work closely with FSQA and R&D teams for shelf-life testing on specific prototype to help them understand its storage variability, ingredient quality, and suitability of packaging conditions. Day-to-day activities vary depending on business demands but most of my time is spent between lab and administrative work such as issuing data reports or designing experiments.

**Salaries:** The salary for lab technicians to microbiologists ranges from $50-85k depending on location, education level and experience.

**Benefits:** Varies by company, typically includes Medical, Dental, Vision, Life Insurance; 401k

**Conclusion:** Working in the FSQA industry is a great way to start your career. Understanding the importance of quality and shelf-life of different food matrices will definitely excel your interdisciplinary knowledge in product innovation or food safety throughout your career as a Food Scientist. Feel free to contact me via LinkedIn if you have questions.
Member News:

Dr. Kathiravan Krishnamurthy – Outstanding Service Award of the Nonthermal Processing Division

Dr. Kathiravan Krishnamurthy is the recipient of Outstanding Service Award from the Nonthermal Processing Division of the Institute of Food Technologists. The award was presented to Dr. Krishnamurthy on July 20, 2021 during the Division’s virtual social event held in conjunction with the 2021 IFT annual meeting and food expo. At the Division’s level, the Outstanding Service Award is the highest award and recognizes someone who made contributions to advancing Nonthermal Processing and/or has a long history of service to the division.

Congratulations Dr. Kathiravan Krishnamurthy!!!

Sasireka Rajendran, M.Tech. - 2021 IFT Burdock Group Student Scientific Award Honoree

Dr. Sasireka Rajendran, an international student member of the Phi Tau Sigma has been awarded the 2021 IFT Burdock Group Student Scientific Award at FIRST 2021. She is a Ph.D. scholar from the Department of Food Process Engineering, Tamil Nadu Agricultural University, India. She visited the University of Minnesota as a short-term scholar under the Scheme for Promotion of Academic and Research Collaborations (SPARC) project funded by the government of India. As a part of her doctoral research, she studied the possibilities of using FT-NIR and Cold plasma technology for the detection and detoxification of aflatoxin in chili pepper, respectively. The overall objective of the project was to develop affordable and safe non-destructive methods that remove aflatoxin while preserving the chili quality. Sasi wants to share the methodology she is developing to ensure the safety of chili from aflatoxin. She is a member of Phi Tau Sigma – The Honor Society of Food Science and Technology, Institute of Food Technologists, and American Society of Agricultural and Biological Engineers since 2020. She has joined the Asia-Pacific Association of Agricultural Research Institutions (APAARI) based in Thailand as a project manager. Sasi will continue her work on safe food transitions, toxin and pesticide mitigation as a part of her work in APAARI.

Congratulations to Ms. Sasireka Rajendran!
Lauren S. Jackson, Ph.D. - AGFD Fellow Award Honoree

Lauren S. Jackson, Ph.D. is a 2021 honoree of the AGFD Fellow Award, sponsored by the Division of Agricultural and Food Chemistry of the American Chemical Society. This purpose of the award is to recognize outstanding scientific contributions to the field of agricultural and food chemistry. Dr. Jackson’s research focuses on the effects of processing on food constituents and chemical contaminants, food allergen control, the stability of biothreat agents, and the analysis of chemical contaminants, constituents and allergens in food. She also is one of FDA’s subject matter experts on measures for controlling allergens in food manufacturing facilities. She authored or co-authored over 200 published papers, book chapters and abstracts and co-edited five books. Dr. Jackson is actively involved in several scientific organizations, including IFT, IAFP and ACS and serves as a Scientific Editor for the Journal of Food Science and the Journal of Food Protection, and as Associate Editor of Comprehensive Reviews in Food Science and Food Safety.

Youling Xiong, Ph.D. – AMSA Signal Service Award Honoree

Dr. Youling Xiong, a Lifetime Member of Phi Tau Sigma, was honored with the Signal Service Award of the American Meat Science Association during the 74th AMSA Reciprocal Meat Conference (RMC) awards presentation on August 17, 2021, in Reno, Nevada, hosted by the University of Nevada – Reno.

Dr. Xiong is a Professor at the University of Kentucky and has been a professional member of AMSA since 1990. His 31-year membership with AMSA is marked with loyalty, devotion, commitment, and service. He is instrumental in fostering the interaction and collaboration of AMSA members with Chinese meat scientists and the meat industry.

As a scholar and academician, Youling has taught Meat Science, Animal Derived Foods, and Advanced Meat Science to more than 1,000 students, mentoring 37 Ph.D. and 29 M.S. students. The influence of his mentorship is evidenced by the key positions held by his former students; for example, presidents or vice-presidents in companies (CAB, Lee's Famous Recipe Chicken, etc.); R&D technical managers; research scientists; and university professors. Youling's meat science research at the University of Kentucky has resulted in 290 peer-reviewed publications in meat science and food science journals, with most addressing meat quality, shelf-life, and muscle protein functionality. His pioneering research on meat protein oxidation and meat protein functionality is well regarded and influential for meat processing and ingredient innovation.

Dr. Xiong said he "always wanted to be a teacher; a career of mentoring and developing both undergraduate and graduate students is a dream come true! I am immensely gratified whenever seeing a student I trained made an impact in the meat and food industry."

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Established in 1956 the AMSA Signal Service Award was and is given to members to recognize devoted service and lasting contributions to the meat industry and the association. The title of Fellow of AMSA accompanies the award. Dr. Xiong’s award is sponsored by Seaboard Foods.

[Modified from: Newsletter of the American Meat Science Association, August 5, 2021 Volume 58e Number 511]

Chapter News:

Phi Tau Sigma Buckeye Chapter successfully held the first annual Phi-ve K Fun Run/Walk
(contributed by: Shengyue Shan and Maria Cotter, Ph.D. candidates at The Ohio State University, Phi Tau Sigma Buckeye Chapter)

On June 25th, Phi Tau Sigma Buckeye Chapter organized the first annual Phi-ve K Fun Run/Walk to enhance community engagement among members. The event also introduced Phi Tau Sigma more broadly to the Food Science and Technology Department at The Ohio State University as everyone was invited to participate. The event took place at OSU’s Columbus Campus, and was organized by Buckeye Chapter President Maria Cotter (Ph.D. candidate) and Treasurer Shengyue Shan (Ph.D. candidate). The event attracted 27 Food Science, Food Engineering, and Human Nutrition students, faculty, and staff. The race had four possible achievement awards: Fastest Faculty – awarded to Dr. Devin Peterson, Speediest Student – awarded to Rahul Venkatram (M.S. student), Speediest Staff – awarded to Mr. Matt Papic, and Most Powerful Power Walker – awarded to Mrs. Kelly Elisar.
The event started on a Friday afternoon outside of the Food Science Department building. The summer heat and humidity did not weaken anyone’s enthusiasm. President Maria Cotter talked out the course and answered any final questions the participants had prior to race. Most of the participants dashed from the starting line immediately after the race started. Dr. Devin Peterson ran across the finish line and secured first place, followed by M.S. student Rahul Venkatram, Ph.D. students Jennifer Janovick and Arial Garsow, and pilot plant manager Matt Papic. Following the race, everyone enjoyed music and chatted with coworkers. All the participants received a button with a special Phi Tau Sigma Buckeye design as a gift, and the winners of each subdivisions received their awards.

The first annual Phi Tau Sigma Buckeye Chapter Phi-ve K Fun Run was a fun time had by all. This is the first in-person event of Buckeye Chapter in the past year after the COVID-19 pandemic started. Moving forward the Buckeye Chapter intends to continue organizing events that will bring the Phi Tau Sigma community closer together.

President Maria Cotter is explaining the route to the group

President Maria Cotter is guiding the athletes to the starting line

Dr. Devin Peterson is running across the finish line and winning the race
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/](http://www.phitausigma.org/membership-dues/). Proceed on to pay by PayPal. Be sure to include your address. 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.
Send an email to Kantha to let her know to expect your check ([kantha@corvusblue.net](mailto:kantha@corvusblue.net)).

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 Phi Tau Sigma – AMSA ‘Research with Impact’ Scholarship Fund, the Program Fund, or the General Fund. [http://phitausigma.org/store/](http://phitausigma.org/store/) Scroll down to Donate and click the yellow Donate button.

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, Terri Boylston, Ph.D. at: tboylsto@iastate.edu, 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](http://www.phitausigma.org/store).

Support Phi Tau Sigma through AmazonSmile:

If you shop at Amazon, please register Phi Tau Sigma as your charity through AmazonSmile ([https://smile.amazon.com/](https://smile.amazon.com/)). There is also a mobile app that one can access. Instructions for the mobile app can be found at: [https://www.amazon.com/b?ie=UTF8&node=15576745011](https://www.amazon.com/b?ie=UTF8&node=15576745011).

The AmazonSmile Foundation will then donate 0.5% of the purchase price of eligible products to Phi Tau Sigma. This may not sound like a lot, but it adds up. Be sure to enter Amazon through AmazonSmile every time you shop ([https://smile.amazon.com/](https://smile.amazon.com/)). **Thank you!**
Editorial:
Phi Tau Sigma Scholarship and Awards Honorees:

Renata Caroline Vieira Carneiro, Ph.D.
Virginia Tech University
Dr. Daryl B. Lund Student International Travel Scholarship
Sponsored by Dr. Daryl B. and Mrs. Dawn L. Lund

Gayathri Upeksha Gunathilaka, M.S. (Ph.D. Candidate)
Michigan State University
Phi Tau Sigma Student Achievement Scholarship
Sponsored by Dr. Rakesh K. Singh
Anbuhkani (Connie) Muniandy, M.S.
Purdue University
Phi Tau Sigma Student
Achievement Scholarship
Sponsored by Peter M. Salmon, M.S., MBA
& Phi Tau Sigma

Sonali Raghunath, M.S.,
(Ph.D. Candidate)
University of Minnesota
Phi Tau Sigma Student
Achievement Scholarship
Sponsored by W. Benjy Mikel, Ph.D.
& David K. Park, B.S.
Damla Dag, Ph.D.
University of Georgia
Dr. Gideon “Guy” Livingston Scholarship
Sponsored by Dr. Catherine Adams Hutt and Peter Barton Hutt, M.S., MBA

Jianan Zhang, Ph.D.
University of Massachusetts Amherst
Phi Tau Sigma Founders’ Scholarship
Sponsored by Hawkins, Inc.
Derico Setyabrata, Ph.D. Candidate
Purdue University
Phi Tau Sigma – AMSA
‘Research with Impact’ Scholarship
Sponsored by Hawkins, Inc.

University of Minnesota Chapter
Phi Tau Sigma Outstanding Chapter of the Year
Sponsored by the Phi Tau Sigma Leadership.
Kantha Shelke, Ph.D.  
Corvus Blue, LLC  
Phi Tau Sigma Special Recognition Award  
Sponsored by the  
Phi Tau Sigma Development Committee

Joe M. Regenstein, Ph.D.  
Cornell University  
Dr. Carl R. Fellers Award  
Sponsored by Phi Tau Sigma

Watch the Awards Ceremony at:  
Our website: http://www.phitausigma.org  
Our Youtube channel: https://www.youtube.com/channel/UCXhKd6IpZACIV-YL_y0gytA/  
Our Facebook page: https://www.facebook.com/phitausigma  
Our LinkedIn page: https://www.linkedin.com/company/14565458
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.; Tianxi Yang, Ph.D., Research Co-Correspondent; Tiantian Lin, Ph.D., Research Co-Correspondent; Samruddhi Jadhav, M.S., Careers Correspondent; Kaavya.Rathnakumar, M.S., Chapter News Correspondent; Diane Schmitt, Ph.D., Member News Correspondent; Ashwini Wagh, Ph.D.; Ravi Tadapaneni, Ph.D.; Damla Dag, M.S. (Ph.D. student), Social media Co-Correspondent; Sonali Raghunath, M.S. (Ph.D. student), Social Media Co-Correspondent

Please be responsive to their inquiries for information for the Newsletter.

Documents:

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

Phi Tau Sigma Membership Nominations

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/

Sponsors, Donors, and Contributing Partners:

Phi Tau Sigma accepts contributions and has a variety of available sponsorship opportunities, as well as the General fund and Program fund.

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.

Contributions 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://phitausigma.org/store/) Scroll down to Donate and click the yellow Donate button, or by going directly to PayPal https://www.paypal.com/donate?hosted_button_id=QTA7NUHUEPP2). Contributions by check (written from a US bank) can be made by sending to our Treasurer: Kantha Shelke, Ph.D., 33 West Ontario, Suite 57F, Chicago, IL 60654. Please write “Sponsorship”, “Donation”, “Contributing Partner”, etc. in the subject line. [A Sponsorship covers the cost}
of the honorarium and the administrative costs (PayPal, plaque, postage). A Donation
covers only the cost of the honorarium. The Contributing Partners program is described
below.]

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 monthly Phi Tau Sigma Newsletter. Endowments are also
accepted.

Contribution opportunities are available for the 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 (on a
‘first come’ basis), as well as the Program fund (which includes the Phi Tau Sigma Awards
Ceremony) and the General fund.

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. ([http://www.phitausigma.org/sponsor/](http://www.phitausigma.org/sponsor/))

**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](http://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 “Contribution” in the subject line.
**2020-2021 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 Ingredient Group is to re-define the concept of shelf life and become a complete solution provider to the food industry. (Contribution to sponsor the Phi Tau Sigma Founders’ Scholarship, and to sponsor the new Phi Tau Sigma – AMSA Research with Impact Scholarship and its endowment.) **Hawkins, Inc. is a Silver level Contributing Partner.**

**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. (Contribution to support and endow the Dr. Daryl B. Lund Student International Travel Scholarship.) **The Lunds are a Silver level Contributing Partner.**

**2020-2021 Sponsors and Donors:**

**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)

**David K. Park, B.S.,** Phi Tau Sigma Lifetime Member, is Principal, Food-Defense, LLC, providing expert food safety / food defense, USDA and USDA-FSIS Process Authority technical and regulatory 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. 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.

**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.)

**Dr. Rakesh K. Singh** is a Past President of Phi Tau Sigma, a Lifetime Member; and is a Professor in the Department of Food Science & Technology at the University of Georgia, where he was department head from 2001 to 2020. He is also a Fellow of IFT, Fellow of IAFoST, Fellow of National Academy of Agricultural Sciences of India, and Editor-in-Chief of LWT – Food Science and Technology. (Sponsorship of a Phi Tau Sigma Student Achievement Scholarship.)
Dr. Mary K. Schmidt 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.

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. (Donation towards a Phi Tau Sigma Student Achievement Scholarship.)

Corvus Blue LLC is a Chicago-based contract food science and research firm retained by food, dietary supplement, and allied enterprises to expedite new product development and commercialization and pave the path for rapid market realization with competitive intelligence and food science communication. The firm works with startups and established entities at the intersection of science and business to maximize opportunity and minimize risk.

Anonymous donation towards the endowment for the Phi Tau Sigma – AMSA ‘Research with Impact’ Scholarship.

Dr. Claire Zoellner, Food Safety Scientist at iFoodDecisionSciences, Phi Tau Sigma Director, Associate Newsletter Editor, and Chair of ad hoc Student Relations Committee.

Phi Tau Sigma Development Committee 2020 - 2021
Each and every member of Phi Tau Sigma Development Committee has generously donated to Phi Tau Sigma. The Development Committee is responsible to develop and implement strategies and mechanisms to raise long range funding to allow Phi Tau Sigma to be funded in perpetuity. The Committee has made its generous contributions to demonstrate its unwavering support and to role model the action of making a financial contribution to the Society. (Sponsorship for the Phi Tau Sigma Special Recognition Award)

Phi Tau Sigma Leadership 2020 -2021
Each and every member of Phi Tau Sigma Leadership has generously donated to Phi Tau Sigma. The Phi Tau Sigma Leadership is composed of its Board of Directors and Chairs of its appointed Committees. Its mission is to honor and build excellence in the profession of food science and technology. Besides sharing generously of their time and talent, the Leadership has made a generous financial contribution to set, through example, what our discipline may achieve through its contributions. (Sponsorship for the Phi Tau Sigma Chapter of the Year Award)

Dr. Rodrigo Tarté, a Lifetime Member of Phi Tau Sigma, is an Assistant Professor of Animal Science and of Food Science & Human Nutrition at Iowa State University, and President and President-Elect of Phi Tau Sigma. (Donation towards the endowment for the Phi Tau Sigma – AMSA ‘Research with Impact’ Scholarship.)

Dr. Liz Boyle, a Lifetime Member of Phi Tau Sigma, is a Professor and Meat Extension Specialist at Kansas State University, and Past-President of Phi Tau Sigma. (Donation towards the endowment for the Phi Tau Sigma – AMSA ‘Research with Impact’ Scholarship.)
Robert Cassens, Ph.D., Professor Emeritus, University of Wisconsin, and long-time member of AMSA; and Martha Cassens, M.S., a long-time member of AMSA, a Lifetime Member and Director of Phi Tau Sigma, and Vice President of Product Innovation, Development & Quality at ACH Food Co. Inc. (Donation in honor of Dr. Anthony Kotula towards the endowment for the Phi Tau Sigma – AMSA ‘Research with Impact’ Scholarship.)

Another Anonymous donation towards the endowment for the Phi Tau Sigma – AMSA ‘Research with Impact’ Scholarship.

Dr. Ogechukwu Tasie, Member, Phi Tau Sigma Membership and Qualifications (M&Q) Committee. (Donation to the General Fund.)

Dr. Lili He, a Lifetime Member of Phi Tau Sigma, is an Associate Professor in the Department of Food Science at University of Massachusetts Amherst. (Donation to the General Fund.)

Lauren Jackson, Ph.D., a Lifetime Member of Phi Tau Sigma, is a Supervisory Food Technologist at U.S. Food and Drug Administration, and Chair of the Membership & Qualifications Committee of Phi Tau Sigma. (Donation towards the endowment for the Dr. Gideon “Guy” Livingston Scholarship.)

Shantrell R. Willis, Ph.D., currently serves as a Research Scientist and Adjunct Faculty at Alabama A&M University, and is a member of the Phi Tau Sigma Membership & Qualifications Committee. (Donation for the General Operating Fund.)

An anonymous donation “In loving memory of Ana Lee (Biyan Chen). May you live on in those you’ve left behind.” (Donation towards the General Fund)

David Anderson, Ph.D., a Lifetime Member of Phi Tau Sigma, retired from Elanco Animal Health R&D. (Donation towards the endowment for the Phi Tau Sigma - AMSA ‘Research with Impact’ Scholarship honoring longtime friend Dr. Tony Kotula)

Dr. Russell Cross, a Lifetime Member of Phi Tau Sigma is a Professor at Texas A&M University, and Past-President of Phi Tau Sigma. (Donation towards the endowment for the Phi Tau Sigma-AMSA ‘Research with Impact’ Scholarship) Tony Kotula has had a tremendous impact on my life and career.

William Benjy Mikel, Ph.D., a Phi Tau Sigma past President and a longtime Lifetime Member. (Recurring donation towards the endowment for the Phi Tau Sigma-AMSA ‘Research with Impact’ Scholarship)

Anthony W. Kotula, Ph.D., a Lifetime Member of Phi Tau Sigma, retired in 1992 as a Supervisory Food Technologist after 38 years of service at the Agricultural Research Service, USDA; 25 years of which were as the Leader of the Meat Science Research Laboratory. (Donation towards the endowment for the Phi Tau Sigma-AMSA ‘Research with Impact’ Scholarship)

Dr. Tommy L. Wheeler, Research Leader of the Meat Safety and Quality Research Unit of the U.S. Meat Animal Research Center of USDA-Agricultural Research Service. A long-time member of AMSA and renewed member of Phi Tau Sigma. (Donation towards the endowment for the Phi Tau Sigma – AMSA ‘Research with Impact’ Scholarship)
R. Bruce Tompkin, Ph.D., Food Industry Microbiologist and long-time member of AMSA. (Donation towards the endowment for the Phi Tau Sigma - AMSA ‘Research with Impact’ Scholarship.)

Dr. Don Beermann, retired Chair of the Iowa State University Department of Animal Science, is a long time member of AMSA. Don also served on the faculty at Cornell University and as a Department Head, Director, and interim Dean at the University of Nebraska–Lincoln. (Donation towards the endowment for the Phi Tau Sigma - AMSA ‘Research with Impact’ Scholarship.)

Dr. Joe M. Regenstein, a Lifetime Member of Phi Tau Sigma, is a Professor Emeritus of Food Science and Head of the Cornell Kosher and Halal Food Initiative at Cornell University. (Donation in memory of Dawn Lund to the Dr. Daryl B. and Dawn L. Lund Student International Travel Scholarship.)

The American Meat Science Association (AMSA) works to cultivate a global community of professionals and students to discover, apply and communicate meat science and technology. An independent, objective, and credible voice for meat science and technology, AMSA is an organization recognized for its unmatched competence and commitment to attracting and developing meat industry leaders. We are an association that encourages our members' active participation and engagement, welcoming collaborative relationships with other groups and organizations.

2021-2022 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 Ingredient Group is to re-define the concept of shelf life and become a complete solution provider to the food industry. (Contribution to sponsor the Phi Tau Sigma Founders' Scholarship, and to sponsor the new Phi Tau Sigma – AMSA Research with Impact Scholarship and its endowment.) Hawkins, Inc. is a Silver level Contributing Partner.

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Anthony W. Kotula, Ph.D., a Lifetime Member of Phi Tau Sigma, retired in 1992 as a Supervisory Food Technologist after 38 years of service at the Agricultural Research Service, USDA; 25 years of which were as the Leader of the Meat Science Research Laboratory. (Donation towards the endowment for the Phi Tau Sigma-AMSA ‘Research with Impact’ Scholarship)

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Dr. Rakesh K. Singh is a Past President of Phi Tau Sigma, a Lifetime Member; and is a Professor in the Department of Food Science & Technology at the University of Georgia, where he was department head from 2001 to 2020. He is also a Fellow of IFT, Fellow of IAFoST, Fellow of National Academy of Agricultural Sciences of India, and Editor-in-Chief of LWT – Food Science and Technology. (Sponsorship of a Phi Tau Sigma Student Achievement Scholarship)

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