



The Honor Society of Food Science and Technology

Phi Tau Sigma Newsletter February 2023

News:

Award and Scholarship Deadlines Approaching

"The **Phi Tau Sigma Outstanding Chapter of the Year Award** shall be given to honor a Chapter of Phi Tau Sigma that has achieved excellence in the areas of research, scholarship, leadership and service. The award comes with a plaque and a \$1000 honorarium to be used by the Chapter to advance distinction in the food science discipline."

Nomination deadline of April 1

Phi Tau Sigma – AMSA 'Research with Impact' Scholarship

"is to emphasize the importance of original research, carefully selected to solve vexing problems of the meat/food industry. The scholarship shall be given to a student Member or recently graduated Member of the American Meat Science Association whose undergraduate or graduate research has had, or is expected to have, a significant Impact - a practical and meaningful application." The scholarship comes with a plaque and a \$2000 honorarium.

Nomination deadline of April 19

Full information can be found at: <http://www.phitausigma.org/awards/>.

Send completed nomination forms and nomination statement in on document to Elena Castell-Perez, Ph.D., Awards Committee Chair, at: ecastell@tamu.edu, with a copy to Kathryn Kotula, Ph.D. klkotula@msn.com. Send the Summary (in Word) and photo just to Kathryn Kotula, Ph.D. klkotula@msn.com.

Nomination hints: (From the Editor)

- Read the Criteria carefully. Does the nominee fulfill the criteria?
- Read the Instructions carefully before and after filling out the nomination to be sure all instructions are followed properly, and the information requested is easy to find.
- Feel free to ask questions.
- Don't wait for the deadline to send in the nomination. Early is good.

Are you contributing to the EMGAM Campaign?

Phi Tau Sigma grows through membership. The Chapters are doing their part through student nomination. Here's your opportunity to participate in growth through the Every Member Get a Member (EMGAM) Campaign for Phi Tau Sigma. To facilitate nominating a

colleague or someone you know who should be a member, go to <http://phitausigma.org/membership/> for the nomination form.

The leaders thus far in the EMGAM Campaign are tied between the teams of: Halak Mehta, M.S. (Ph.D. student) and Claire Zoellner, Ph.D.; and Connie Weaver, Ph.D. and Gabriel Davidov Pardo, Ph.D.; and Catherine Cutter, Ph.D. and Robert Roberts, Ph.D. Be a leader!

Program Committee: Promote your presentations at professional meetings to Phi Tau Sigma members

(contributed by Terri Boylston, Ph.D., President Elect and Chair of the Program Committee)

Are you giving a presentation, symposium, or technical session at IFT, IAFP, ACS, the Reciprocal Meat Conference (RMC) of AMSA, Cereals and Grains Association (CGA), or any other Food Science & Technology meeting or conference in 2023? We would like to promote these events in the upcoming Phi Tau Sigma Newsletters to other Phi Tau Sigma members.

Please send your presentation/session information by the deadlines below, or as soon as you have it. (Keep in mind that Newsletter publication dates are one month after the deadline given below):

- IFT: April 1, 2023
- RMC: April 1, 2023
- IAFP: May 1, 2023
- ACS: June 1, 2023 (for Fall ACS meeting)
- CGA: August 1, 2023
- Other conferences/meetings: Please provide information at least 2 months prior to the conference, or as soon as the information is available

Please provide the following information:

- Title of the presentation
- Presenter (and terminal degree and affiliation)
- Authors (with terminal degree and affiliation)
- Presentation Description/Summary
- Meeting or conference
- Date, time and room number of Presentation

Please send the presentation/session information to Dr. Terri Boylston (tboylsto@iastate.edu) and copy Dr. Kathryn L. Kotula (klkotula@msn.com). Thank you for sharing with Phi Tau Sigma members.

Upcoming Election – Two areas requiring your vote

1) The election for Phi Tau Sigma Leadership: President Elect and four Directors will start March 1. **You MUST be a "member in good standing" (have paid your dues) before February 20 to be able to vote.** If you have not paid your dues, follow the instructions in the "Dues Reminder" section below. Your membership status is listed in the cover email of this Newsletter. If you have any questions, feel free to contact Executive Director Kathryn L. Kotula, Ph.D. at klkotula@msn.com.

2) As usual, you will have the opportunity to show your interest in membership on one of Phi Tau Sigma's Committees. The opportunities include: Awards, Chapter Affairs, Communications (includes Newsletter, Social Media, and Website), Constitution & By-Laws, Membership Qualifications & Evaluation, Nominations & Elections, Program, Development, Research with Impact Scholarship Selection Committee, Strategic Relations, Student Relations, Internship Organization, Future Directions, Membership Recruitment & Retention.

Phi Tau Sigma has QR codes. Give them a try.

For the Phi Tau Sigma website: We also have a QR code for contributions:



Calendar:

->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, the Phi Tau Sigma Founders' Scholarship, and the Food Regulation 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 Elena Castell-Perez, Ph.D., Chair (ecastell@tamu.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/>)

->January 15: 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/carl-r-fellers-award>)

->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, Lester Schonberger, Ph.D. (hlschon@vt.edu), with a copy to Dr. Kathryn L. Kotula (klkotula@msn.com).

->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: 2023 (dates to be determined)

July: Phi Tau Sigma Awards Ceremony (virtual)
July: Phi Tau Sigma Networking Dinner

->June 25-28, 2023 - Reciprocal Meat Conference of the AMSA, St. Paul, Minnesota

->July 16-19, 2023 - Institute of Food Technologists Annual Meeting, Chicago, IL

->July 16-19, 2023 - International Association of Food Protection, Toronto, Ontario, Canada

Lifetime Member Tribute: Anna Hayes, Ph.D.

Postdoctoral Researcher/NIH Postdoctoral Fellow, University of Southern California

Why did you become a Lifetime Member?

After being a Student Member for several years in graduate school, I realized that Phi Tau Sigma is an organization that I would like to remain a part of throughout my career. As a result, I became a Lifetime Member upon completing my Ph.D. The leadership and networking opportunities are expansive – on both the local and national/international levels. I am inspired when I learn more about each and every one of the accomplished members of our Society, and this inspiration motivates me to continue to strive for excellence.



Education:

- Ph.D. Purdue University, West Lafayette, Indiana (Food Science) (2021)
- B.S. St. Catherine University, St. Paul, Minnesota (Food & Nutrition Science) (2014)
- B.A. St. Catherine University, St. Paul, Minnesota (Spanish) (2014)

Experience/Accomplishments (selected list):

- Postdoctoral Researcher (NIH F32 NRSA Postdoctoral Fellow, 2022-present), University of Southern California, 2021-present
- Graduate Research Assistant (2014-2021) & Teaching Instructor (2019), Purdue University (Laboratory of Dr. Bruce R. Hamaker), 2014-2021
- Program Committee Member, Phi Tau Sigma Honor Society, 2020-present
- Carbohydrate Division Chair, Institute of Food Technologists, 2022-present
- Student Association President (2019-2020) & Board of Directors Student Representative (2018-2019), Cereals & Grains Association, 2018-2020
- Inorganic Laboratory Intern, Minnesota Valley Testing Laboratories, New Ulm, Minnesota, 2011-2012

Areas of Expertise:

Carbohydrate Structure-Function, Foods for Health, Ingestive Behavior, Behavioral Neuroscience

Awards and Honors (selected list):

- NIH Ruth Kirschstein National Research Service Award (NRSA) Postdoctoral Fellowship Recipient, 2022-2025
- Phi Tau Sigma Certificate of Appreciation for Dedicated, Multi-year Service, 2022
- Diabetes & Obesity Research Institute (DORI) Symposium 1st place Oral Competition Awardee, 2022
- Phi Tau Sigma Dr. Gideon 'Guy' Livingston Scholarship Recipient, 2020
- Institute of Food Technologists (IFT) Carbohydrate Division, Outstanding Service Award, 2019 & 2020
- Cereals & Grains 18 (AACC International Annual Meeting), Nutrition Division Best Student Research Award, 2018
- Institute of Food Technologists (IFT) Feeding Tomorrow Graduate Scholarship Recipient, 2018-2019 & 2014-2015
- Class of 2014 Valedictorian, St. Catherine University, 2014

Personal: Family, Interests, Hobbies: I am getting married in June 2023 (!). I enjoy exploring the outdoors, traveling, making and listening to music, volunteering, and baking.

Advice to university students and career food scientists and technologists:

I consider myself to be taking an unusual career path, dabbling in nutrition and neuroscience along with food science. This gives me a unique, multi-disciplinary perspective that I think will be advantageous as we strive to solve global challenges such as undernutrition (on one hand) and overnutrition (on the other hand). Some key words of advice: Pursue the things that drive you – and that challenge you – because learning is a life-long process. Get involved and network whenever possible. Strive to find both purpose and fun in what you do!

Member News:

Stephen G. Campano, M.S. inducted into the Meat Industry Hall of Fame

Stephen G. Campano, M.S., a Lifetime Member of Phi Tau Sigma, has been selected by the previous Hall of Fame inductees and the Meat Industry to be inducted to the 2022 class of the Meat Industry Hall of Fame. An extraordinary honor, "To be eligible, nominees for the Meat Industry Hall of Fame must have:

- Spent a significant portion of their professional careers in an industry-related field
- Contributed significant innovation, achieved notable business success or otherwise
- impacted their organization, institution or industry segment
- Undertaken notable community service or philanthropy"



Industry Career: Steve studied under Dr. Donald Kinsman of the University of Connecticut to learn Animal and Meat Science and to obtain a M.S. Degree. His research for his degree was accomplished at the Meat Science Research Laboratory, A.R.S., U.S.D.A. Beltsville, Maryland. His research demonstrated that claims that molds of the genus *Thamnidium* effectively tenderize and enhance the flavor of beef and inhibit bacterial growth on meat surface were inaccurate. Thus, the procedure was disallowed by regulatory agencies.

Dr. Kinsman sent Steve to Dr. Eugen Hauser's Meat Science lab in Berne Switzerland and the Herbert Ospelt Fleischfabrik in Liechtenstein, for additional experience. Then Steve worked at companies with increasing responsibility and impact, like Viskase Corporation, Greenwood Packing Company, Central Soya Company, Trumark, Inc., and finally Hawkins, Inc.

Notable Business Success: Steve's leadership has impacted both the entire meat industry and the trajectory of Hawkins' food ingredient business unit. Highlights of Steve's contributions that benefit both Hawkins, Inc. and the meat industry include pioneering low inclusion antimicrobial technology and developing and securing regulatory approval for ingredients to enable the growth in clean label meat and poultry products.

Impact: Using his knowledge of organic acids and associated efficacy on microbial inhibition, Steve and his team have developed an extensive line of low inclusion antimicrobial products. Due to the lower usage rates with similar or improved efficacy when compared to traditional antimicrobial products, processors have saved significant costs in antimicrobial use and associated benefits are realized through reduced packaging and reduced freight demands, both of which are important to Hawkins, a strong proponent of environmental stewardship.

Similarly, Steve and his team have developed clean label antimicrobial products for the growing demands for natural claims with meat and poultry products. This portfolio has grown to find applications in meat and poultry products with claims that include natural, organic, and non-GMO. These efforts to develop new and novel clean label ingredients have benefitted the meat and poultry industry, due to Steve's knowledge of the regulatory process. A cornerstone of the development process for Steve has always been his ability to ensure that ingredients are petitioned, suitable for use and clearly defined through FSIS and the appropriate regulatory bodies.

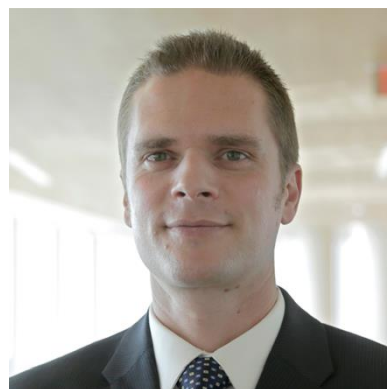
Steve is gifted in his ability to collaborate with many different groups. Two examples of Steve making an impact on the livestock industry can be illustrated through his work with other teams at Hawkins. Steve's antimicrobial knowledge helped foster a novel mold inhibition system for hay production. Through this unique system, significant improvement in hay quality and reduced spoilage have been instrumental in the care and feeding of beef and dairy cattle. Similarly, Steve works collaboratively with Hawkins' Water Treatment Group to improve the health and efficiency of livestock through clean water technologies. His knowledge of the livestock industry and chemistry have helped Hawkins' Water Treatment Group improve the water quality and subsequent health and productivity of over one thousand poultry and swine barns over the past few years.

Community Service: Steve has served the American Meat Science Association in leadership positions (President, Treasurer, and others), and Phi Tau Sigma – The Honor Society of Food Science and Technology as a very active Director for multiple terms, Awards Committee Chair, and various committee memberships.

There will be a live Webinar Roundtable Discussion featuring our honorees on February 22, 2023. For more information about the Meat Industry Hall of Fame, go to: www.meatindustryhalloffame.org

Rodolphe Barrangou, Ph.D., MBA, inducted into the National Inventors Hall of Fame

Molecular biologists Rodolphe Barrangou, Ph.D., MBA, a Lifetime Member of Phi Tau Sigma, and Philippe Horvath, Ph.D. and their colleagues discovered that CRISPR (Clustered Regularly Interspaced Short Palindromic Repeats) sequences and associated proteins (Cas) comprise an acquired immune system in bacteria. Applying their research to enhance starter cultures in the dairy industry, they improved the world's food supply and laid the foundation for the field of gene editing. One of sixteen innovation pioneers, Dr. Barrangou was named as a member of the 50th class of the National Inventors Hall of Fame (NIHF) on January 6, 2023. In



partnership with the United States Patent and Trademark Office (USPTO), NIHF will honor these Inductees on Oct. 26, 2023, at one of the innovation industry's most highly anticipated events — "The Greatest Celebration of American Innovation®." The event also will celebrate the 50th anniversary of NIHF's founding in 1973, when Thomas Edison was the sole Inductee. The NIHF is the premier nonprofit organization in America dedicated to recognizing inventors and invention, promoting creativity, and advancing the spirit of innovation and entrepreneurship. Founded in 1973 in partnership with the United States Patent and Trademark Office, NIHF is committed to not only honoring the individuals whose inventions have made the world a better place, but to ensuring American ingenuity continues to thrive in the hands of coming generations through its national, hands-on educational programming and collegiate competitions focused on the exploration of science, technology, engineering and mathematics.

Born in Paris, Dr. Barrangou earned his bachelor's degree in life sciences from the René Descartes University in 1996, his doctorate in functional genomics from North Carolina State University in 2004 and his MBA from the University of Wisconsin-Madison in 2011.

At Danisco, which was later acquired by DuPont, Dr. Barrangou and Dr. Horvath studied how bacteria survive viruses called bacteriophages. They wanted to develop bacteria with natural resistance to these viruses, because viral outbreaks can destroy bacterial starter cultures for fermented products like yogurt and cheese. Starter cultures are part of a company's intellectual property, and are vital to industrial production and profitability.

In 2005, Dr. Barrangou and Dr. Horvath identified similarities between viral DNA sequences and spacer sequences in bacterial CRISPR regions. They discovered that bacterial genomes evolved over time, picking up sequences from bacteriophages to which they had been exposed and using those spacers to recognize viruses, and that bacterial CRISPR spacers created a permanent record of viruses against which the bacteria have mounted defenses against.

This discovery of CRISPR-based bacterial immunity to phages was first applied to develop resistance to viral invaders in bacterial dairy cultures. In 2011, DuPont began commercializing improved starter cultures, selecting those with CRISPR sequences for increased virus resistance. Worldwide, billions have since consumed cheese and yogurt with CRISPR enhancement.

In 2013, Dr. Barrangou joined North Carolina State University, where he researches CRISPR-Cas systems and their applications. He is building the CRISPR scientific community through co-organizing international conferences, serving as the founding editor-in-chief of The CRISPR Journal and co-founding Ancilia Biosciences, Intellia Therapeutics, Locus Biosciences, CRISPR Biotechnologies and TreeCo.

Dr. Barrangou holds 24 U.S. patents. His honors include the Canada Gairdner International Award in 2016, the Warren Alpert Foundation Prize in 2016, and the National Academy of Sciences Award in Molecular Biology in 2017 and Prize in Food and Agriculture in 2018.

[Modified from articles on: <https://www.invent.org/induction/press>

Please visit the website for more information.

Photo from the NCSU website: <https://cals.ncsu.edu/food-bioprocessing-and-nutrition-sciences/people/rbarran/>]

How/Why I came to be in Food Science/Technology

Qing Jin, Postdoctoral Associate in Food Science and Technology at Virginia Tech

Food plays an important role in China. One important activity of Chinese families in holidays such as the Spring Festival and Mid-Autumn Festival is getting together, cooking different foods, and sharing among families. I remembered when I was young, one of my favorite cooking moments was putting candies in dumplings when my families were making them in Spring Festival. Anyone who ate the dumpling with candy was blessed with sweetness for the next year.

As I grew up, I began to learn how to cook from my parents. I still remember the first time when I cooked shredded potatoes with vinegar sauce by myself for my parents. They were so happy even though its taste was not perfect and I also felt so proud of myself. Since then, cooking food has been my way to express my love for my parents.

All of these good memories help build a special relationship between food and me. Therefore, when I knew that there was one major called 'Food Science and Technology' as I was selecting the major for my undergraduate study, I chose it intuitively, even though I didn't have a clue about what I would learn in this major at that time. It is only when I began my undergraduate study, I knew that Food Science is mainly about 'the principles that guide the whole food supply chain'. Starting from there, I learned the basic knowledge and practiced on project focused lab training. It is just like opening gifts. I always feel excited about learning new things in the Food Science area and that led me to following my Master and Ph.D. journeys, and finally my career focus. That's a little story of how I came to be in the Food Science area. It is definitely one of my best choices in life!



We are pleased to have started this new series of articles in the Newsletter. Please share your story with us. Contact the Newsletter Editor at: klkotula@msn.com.

Who was Dr. Carl R. Fellers? And what did he do that warrants Phi Tau Sigma to name a very prestigious Award for him? The short answer is that he was phenomenal, multi-faceted, impactful, and caring. Read on...

(Due to multiple requests, we are re-running our series on Dr. Fellers. Thank you for the suggestions.)

Memories of Dr. Carl R. Fellers:

(Contributed by Nathan Hale, Ph.D., Professor Emeritus, University of Connecticut)

(Re-printed from November 2010)

I remember Dr. Fellers from my induction into college teaching under Dr. V.A. Rice at the Massachusetts State College (now the University of Massachusetts) back in 1946 -1953. I visited Carl on several occasions while teaching the meat science program at the



college. He was most helpful, especially when I had to share with John Vondell of the poultry group, a course for Home Economics students. To say we were intimidated by the task would be a gross understatement. But with Carl's kind encouragement, and insight into how the course should be taught, which he shared with us, we were not only successful in teaching the students, but found the experience exhilarating. His friendship and teaching advice served me well, not only at the Massachusetts State College, but also in my 30 years teaching at the University of Connecticut.

We encourage individuals who knew Dr. Fellers to provide us with their memories of Dr. Fellers for this section of the Newsletter.

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. 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), and a scan of your check and envelop to Executive Director Kathryn Kotula, Ph.D. (klkotula@msn.com).

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. and Mrs. Dawn L. Lund Student 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/>
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, Lester Schonberger, Ph.D. at: hlschon@vt.edu, 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.

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/>). 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>.



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/>). **Thank you!**

Note: We have been informed that Amazon is discontinuing the AmazonSmile program as of February 20, 2023.

Editorial: Award and Scholarship

The deadlines for our remaining award and scholarship are April 1 and April 19, respectively. Please review the criteria for these honors to determine possible nominees. <http://phitausigma.org/awards/>.

Phi Tau Sigma scholarships and awards are one of the perks of membership.

Questions? Please contact Awards Committee Chair Elena Castell-Perez, Ph.D. (ecastell@tamu.edu), or me (kkotula@msn.com).

About Phi Tau Sigma Communications:

The Phi Tau Sigma Communications Committee includes: Kathryn Kotula, Ph.D., Editor & Chair (kkotula@msn.com); Claire Zoellner, Ph.D., Associate Editor (cez23@cornell.edu); Kathiravan Krishnamurthy, Ph.D., Website Manager, (kathiravan.rps@gmail.com), Anthony W. Kotula, Ph.D., Member News Correspondent; Tianxi Yang, Ph.D., Research Co-Correspondent; Tiantian Lin, Ph.D., Research Co-Correspondent; Lida Rahimi Araghi, M.Sc.(Ph.D. Candidate); Minwei Xu, Ph.D.; Avinash Patel, Ph.D.; Kaavya.Rathnakumar, Ph.D., Chapter News Correspondent; Ashwini Wagh, Ph.D.; Ravi Tadapaneni, Ph.D.; Samruddhi Jadhav, M.S., Careers Correspondent; Damla Dag, Ph.D.; Sonali Raghunath, M.S. (Ph.D. student), Social media Co-Correspondent; Emine Ozen, M.S. (Ph.D. student); Xinyue Fan, M.S.; Lily Yang, Ph.D., Social media Co-Correspondent; Dajun Yu, Ph.D.; Halak Mehta, Ph.D. student; Shruti Sharma, Ph.D.

Please be responsive to their inquiries for information for the Newsletter, which may also be shared on our social media sites, and our website.

Documents:

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

Phi Tau Sigma Membership Nominations

<http://phitausigma.org/wp-content/uploads/2021/07/Phi-Tau-Sigma-Nomination-2022.doc>

<http://phitausigma.org/wp-content/uploads/2021/07/Phi-Tau-Sigma-Nomination-2022.pdf>

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=QTA7NUHUEEPP2). 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. and Mrs. Dawn L. Lund Student 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/>)

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 "Contribution" in the subject line.

2022-2023 Contributing Partners:

Hawkins, Inc. 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



Food Ingredients Group 

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.

2022-2023 Sponsors and Donors:

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