



CNHS Newsletter

Spring 2018

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Dean Greenwood's Note



As the academic year (and my first year as Dean of the College of Natural and Health Sciences) comes to a close, I want to thank particular people for their service to the College and update you all on our strategic thinking progress. However, first I would like to say how much I have enjoyed meeting and working with students while they experience this transformative UT education, from guest-lecturing in several classes, to attending student talks, honors presentations, and poster sessions. The diversity and quality of student work is impressive, and I have been pleased to be able to support an unprecedented number of student presentations at regional and national conferences. The rich scholarly collaborations among students and faculty colleagues in CNHS are exceptional.

I want to wholeheartedly thank the staff members of CNHS for the amazing work they carry out on a daily basis. There is little that could happen in our classrooms without their dedication, expertise, work-ethic, and general good natures. I also want to acknowledge the exceptional teaching that our part-time faculty do for the College. We are extremely fortunate to have such a talented group of professionals working with us in our central mission of teaching UT students.

Lastly, I would like to update you on the strategic thinking process. Prior to the academic year, qualitative interviews were conducted to gather feedback from CNHS faculty on the mission and direction of the college. This information was then used to develop a quantitative survey to more broadly gauge the topics of most importance to the faculty and the direction of our college. Finally, we offered group lunches and meetings to further discuss what arose as the most critical topics from those surveys. The next step is to have all of these results available to the entire college by the end of May, and to draft several mission statements before the end of the summer. Thanks to all for your willingness to participate and provide feedback in this process.

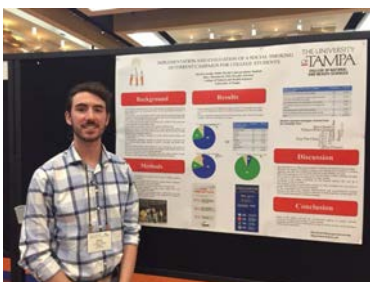
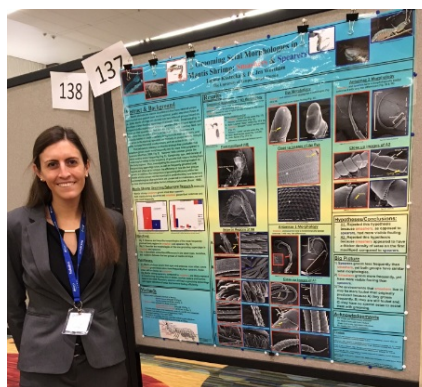
I wish you all a wonderful summer in pursuit of what you hope to accomplish.

Best regards,

A handwritten signature in black ink, which appears to read "Paul J. Greenwood".

Student/Faculty Research and Presentations

Professor Jennifer Wortham and her research student, **Laurie Kostecka** conducted research on grooming morphology of smasher and spearer mantis shrimp. Pictured is Laurie who is graduating May 2018.



David LaTrella, public health research student, presented at the Society for Nicotine and Tobacco Research. Working with **Professor Mary Martinasek**, David evaluated a social smoking campaign at the University of Tampa. This campaign aimed to decrease social smoking among college students. David will be graduating May 2018.



Professor Abraham Miller and honors student **Laura Hearst** presented a poster at the annual Society for Integrative and Comparative Biology conference in San Francisco. They presented findings on the evolution of eye size in scorpions that Laura is working on as part of her honors fellowship. Pictured is Laura working in the lab.



AMERICAN CHEMICAL SOCIETY

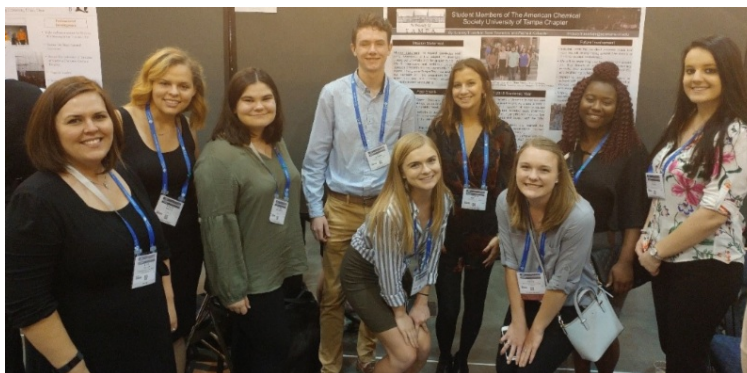
This past March, eight of the Chemistry faculty and 16 students from CNHS attended the 255th National Meeting of the American Chemical Society (ACS) in New Orleans, LA.

Several faculty and students delivered oral and/or poster presentations over their research conducted within the department of Chemistry, Biochemistry and Physics. Along with presentations delivered by **Professors Ballard, Masserini, Sode, and Werner** within their respective divisions of the conference, the following student posters were also presented (UT faculty coauthor/mentor also listed).

- **Joseph Vargas (Professor Masserini)**, "Total Alkalinity Trends and Troubles in Tampa Bay"
- **Casey Nickel (Professor Masserini)**, "Primary production is greener on the other side: Influence of hurricanes on the West Florida shelf"
- **Samuel Maystrovsky (Professor Sode)**, "Exploration of the molecular vibrations of small carbon dioxide clusters with ab initio electronic structure methods"
- **Jasmine Cherry (Professor Sode)**, "Many-body convergence of the energetic and electrostatic properties of CO₂ systems"

- **Alyssa Henry (Professor Werner)**, “Sensitizing Lanthanide Luminescence with CMPO-Based Ligands”
- **Emily Connor (Professor Werner)**, “Variation of Extraction Conditions for Selective Lanthanide Chelation Utilizing Tripodal CMPO Ligands”.

Professor Susan Del Valle was involved at ACS New Orleans in the governance aspect, serving as a Councilor for the Tampa Bay Section of the ACS. CNHS faculty and students were involved over a wide range of areas at this spring’s National Meeting, and we congratulate the UT SMACS students, as well as the faculty and research students on another collaborative and successful year.



Pictured Left to right: **Professor Laura Henchey, Mariah Keller, Rachael Kurlander, Tyler Weinhold, Mikalya Darrows, Lindsay Truesdale, Casey Nickel, Vickeima Sydney, Nicole Zembol**

Congratulations to **Professor Nauris Tamulevicius, Professor Claudia Aguado Loi** and students (**Tanuj Wadhi, Emily Daniels, Stephen Baeder, Dimple Shah**) on the upcoming International research presentations and publication. Additionally, **Professor Tamulevicius** received an International Travel Grant to travel to South Africa and conduct research projects with several universities (North-West University, University of Cape Town and University of Western Cape).



Tamulevicius N., Wadhi T., Daniels E.A., Oviedo G.R., Baeder S. Electromagnetic Field Application Effects on Recovery and Power after Sport-Specific Exercise Intervention: Feasibility Study. Accepted for poster presentation at the American College of Sports Medicine Annual Meeting and World Congress on Exercise in Medicine, May 29-June 2, 2018, Minneapolis, Minnesota. His manuscript will be published in the *Medicine & Science in Sports & Exercise*.

Tamulevicius N., Shah D.M., Wadhi T., Aguado Loi C. X., Martinasek M.P.

Migraine in university students: prevalence, triggers and self-reported effects on exercise was accepted for oral presentation at the Congress of the European College of Sport Sciences, July 4-7, 2018, Dublin, Ireland. This manuscript will be published in the *European Journal of Sport Sciences*.



Pereira S., Tamulevicius N., Wadhi T., Tien J.J., Moss S. J. Stress-recovery dynamics during mount Kilimanjaro climb was accepted for poster presentation at the Congress of the European College of Sport Sciences, July 4-7, 2018, Dublin, Ireland. This manuscript will be published in the *European Journal of Sport Sciences*.



Nursing students, **Daniel Cajina**, **Morgane Garnier** and **Caitlin Novak**, participated in an MLK

Day of service by providing asthma education to high risk families. **Professor Robin White** participated in the event and provided guidance to the students.



Public Health students (**Emily Crandal**, **Jenna Botelho**, **Yomika McCalpine**, **Catherine Apostol**, **Tanner Young**, **Emily Amato**, **Jade Hayes-Diaz**, **Marissa Henderson**, **Marisa Murphy**, **Grace Holcomb**, **Mackenzie O'Drain**, **Allison Barthel**, **Kervens Beauplan**, and **Johanna Yankey**) and **Professor Rebecca Olsen** participated in a Special Olympics Day of health promotion in the community in April. The health promotion was focused on individuals with intellectual and physical disabilities.



On April 7, UT hosted the You Be the Chemist Challenge State Finals, for middle school students. The UT Student Members of the American Chemical Society served as moderators and judges for the competition. **Professor Susan Del Valle** organized the event and **Professor Matthew Wilson** assisted.

The You Be the Chemist Challenge® competition was created in 2004 by the Chemical Educational Foundation® (CEF), a national nonprofit organization. The Tampa Bay American Chemical Society works in collaboration with the CEF to host this event in Tampa Bay. The event has been hosted in Tampa for the past four years. This is the first year that it was held at the University of Tampa.

The program encourages students in grades 5-8 to engage with chemistry concepts and their real-world applications. The Challenge fosters connections between industry, educators, and community members to celebrate outstanding young learners and inspire them to pursue STEM careers. Students compete individually by answering multiple-choice questions to advance through a series of competition levels, beginning at their school and culminating on the national stage. The top student from each state receives an expenses-paid trip to the National Challenge, where they compete for college scholarships and other prizes.



Madison Creech, Jen Geyer, Taylor Kollos and former student Erin Townsend participated in Safe Kids Day at Westshore Mall on April 29th. Pictured below are Jen, Taylor and Erin providing asthma education and resources. Pictured to the left is Madison fitting a child with a bike helmet.



Pedagogy in the Classroom



Professor Tressa Pedroff (Pictured Top) and **Professor Shirley Franks** (Bottom picture) implemented the new teaching strategy, team-based learning (TBL) in the Health Assessment course. Currently this form of pedagogy is being implemented in the Health Assessment and Adult nursing care courses.

Team-based learning (TBL) is an active learning strategy developed to increase student participation and improve teamwork in group settings within the 200 level Health Assessment course. This learning strategy utilizes small student work groups in the application of conceptual knowledge through a sequence of activities involving individual preparation, collaborative teamwork and immediate feedback (Parmalee, Michealsen, Cook, & Hudes, 2012). The primary goals of the TBL strategy are to instill deep, long lasting knowledge attainment and to transform small groups into high performing, cohesive learning teams (Michaelson, et al., 2004). For more information, reach out to TPedroff@ut.edu.



College and Departmental News



Awards & Recognition

2017-18 Academic Awards Received by CNHS Faculty

Louise Loy Hunter Award – **Professor Heather Masonjones**
Excellence in Academic Advising – **Professor Bridgette Froeschke**
Research Grant Award – **Professor Oleseni Sode**
Innovation in Teaching Award – **Professor Carol Botwinski**
Outstanding Student Research Supervision Awards- **Professors Jennifer Wortham and Heather Masonjones**
Outstanding Scholar Award – **Professor Oleseni Sode**
Outstanding Service Award – **Professor Jay Jisha**

2017-18 Academic Awards Received by CNHS Students

Chemistry, Biochemistry and Physics

Chemistry/Biochemistry/Forensic Science Summer Research Fellowship Award – **Angelo A. Nicola ci**
Chemistry/Biochemistry/Forensic Science Summer Research Fellowship Award - **Sherrea E. Brown**
Outstanding Biochemistry Student - Senior Class – **Johannes J. Schabort**
Outstanding Chemistry Student - Senior Class – **Rosa Scholl**
Outstanding Forensic Science Student - Senior Class – **Abigail L. Smola**
Outstanding Physics Student – **Benjamin J. Harney**
Outstanding General Chemistry Student – **Myles Hammond**
Outstanding Organic Chemistry Student - **Diego Patino**
Outstanding Analytical Chemistry Student – **Abigail L. Smola**
Outstanding Biochemistry Student – **Eric Jenkins**
Outstanding Inorganic Chemistry Student – **Melissa King**
Outstanding Physical Chemistry Student – **Edward Brockhuizen**

Sport Management

Sport Management Academic Achievement Award - **Shannon Amely and Andrew Fitzpatrick**
Dr. Robert Birrenkott Professional Development Award - **Matthew Borkan and Antenajia Carter**

Nursing

Academic Excellence Award BSN Program - **Briana Duarte**
BSN – Black Nurses’ Historical Society – **Deja Suttle**
Academic Excellence Award MSN Program - **Amy Cannella and Angela Rodriguez**

Biology

Beta Beta Beta Outstanding Senior in Life Sciences Awards - **Guadalupe Sepulveda Rodriguez and Megan Hill**
2018 Biology Summer Research Fellowship Awards - **Lynn Heller, Katie Serba and Jillian Gomez**

Health Sciences and Human Performance

Public Health Outstanding Student Award - **Caroline Stadler**

Allied Health Medical Sciences Outstanding Student Award - **Tingli Mao**

Allied Health Physical Therapy Outstanding Student Award - **Kelly Hartnett**

Allied Health Occupational Therapy Outstanding Student Award - **Paige Dunham**

Anatomy and Physiology Outstanding Student Award - **Addison Pasarella**

Human Performance and Exercise Science Outstanding Student Award - **Bryon Ladd**

Athletic Training Outstanding Student Award - **Mallory Kummer**



Pictured Left to Right: Mallory Kummer, Paige Dunham, Bryon Ladd, Caroline Stadler, Kelly Hartnett, Addison Pasarella, Tingli Mao

The Physician Medicine and Nursing programs sponsored the West Florida Chapter of the American College of Healthcare Executives/ Florida Organization of Nurse Executives Leadership Summit on the UT campus. This event brought in 140 leaders and executives in healthcare to discuss safety and quality in healthcare systems.



Pictured left to right: Professor Greg Burns (PA Faculty), Professor Allison Kaczmarek (PA Faculty) Paul Grossman (Speaker), Professor Johnna Yealy (PA Dept. Chair), Professor Marisa Belote (PA Faculty) and John Nance (Keynote Speaker)

CNHS faculty **Professors Allison Kaczmarek, Amy Bowersock** and COB faculty **Professor Mia Plachkinova** mentored a six member, interdisciplinary, team of students to compete at the Emory International Global Health Case Competition held at Emory University - Atlanta, GA, March 15 – 17, 2018. CNHS students included team captain, **Kelly Hartnett** (senior, Bloomingdale, IL) and **Elena Figueroa** (senior, Lake Hiawatha, NJ), both students in HSHP and allied health majors. Additional team members included COB students **Aman Shah** (sophomore) and **Christopher Eifler** (freshman), **Indraja Vaddadi** (graduate student), and CSSME student, **Forrest Harrison** (senior).

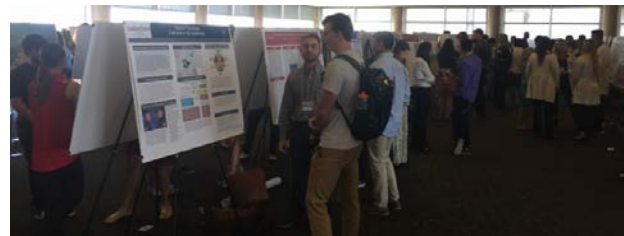
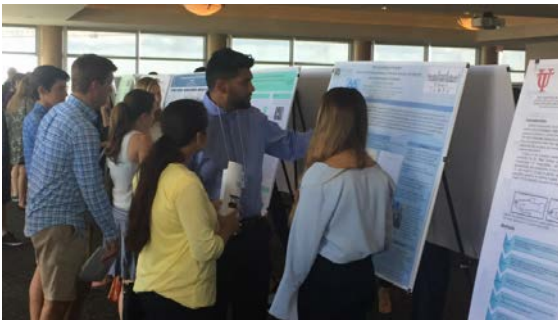
Students were given a case and six days to identify the overarching issues and develop an integrated action plan which included dealing with an imminent health crisis within the cultural framework and geographic region of immediate impact; this plan included integration of a global pandemic prevention and recovery paradigm. Additional planning considerations included auxiliary issues such as economic impact, legal and ethical practices, and plan implementation logistics. Allied Health major, **Kelly Hartnett** said of the experience, “Having worked with students from different educational backgrounds was a unique experience that opened my eyes to the fact that solving a problem requires different people, different minds, and different opinions. It was great to work so well alongside everyone and build off of each other’s ideas.”

The student team has since presented their case at the UT Board of Trustees meeting, COB Student Research Day and at the CNHS Undergraduate Research Symposium.



Pictured left to right: Forrest Harrison, (Psychology), Indraja Vaddadi (MBA), Aman Shah (Cybersecurity), Elena Figueroa (Allied Health), Christopher Eifler (Finance), Kelly Hartnett (Allied Health & Team Captain)

April 27, 2018



A special thank you to symposium organizers: **Professors Eric Werner and Simon Schuler** and members of the Beta Beta Beta Biology Honor Society.

The CNHS Undergraduate Research Symposium provides an opportunity for students within the College of Natural and Health Sciences to present their current or recently completed research projects in a poster format. A total of 78 posters were displayed for discussion and judging.

CNHS Research Symposium winners for 2018 for Nursing

1st place= Taylor Ambruso & Johanna Wagner (The effect of sleep deprivation on the immune system of patients in the acute care setting)

2nd place= Deja Suttle (Mobile phones & their role in infection transmission to patients in acute inpatient care)

Class Project Category

First place:

Blaise Guerriero, Nicole Kieda, Madison Shramek, and Patricia Strother

“The Effects of Temperature and pH on Sea Urchins”

Runner-up:

Maga lea te Kostelnik

“Simulated Effects of Climate Change on Blue Crab Metabolism”

Independent Research Project category

First place:

Taylor Cunningham and Sara Casareto

“It’s a Fish! It’s a Plane! No, It’s a Hammerhead!”

Runner-up:

Siara Isabella and Aaron Joseph

“Contribution of chlorination by-products in the water leading to the head and neck cancer prevalence in Tampa Bay”

Please send future news items to jdavila@ut.edu