



Attendees of the 9th Young Environmental Scientist Meeting 2020 held 9-11 March at Baylor University, Waco, TX.

SETAC South Central 2020

NEWSLETTER

In this issue:

- Research Spotlight
- 9th Young Environmental Scientists (YES) meeting
- 2019 Highlights in the chapter
- 2019 Distinguished SETAC-SC members
- NASAC 101
- News from our student organizations
- Highlights from Shell Ecotoxicology Team Houston Tx
- 2019 Publications



SETAC South Central Regional Chapter

The South-Central regional chapter of the Society of Environmental Toxicology and Chemistry is composed of members from Louisiana, Texas and Oklahoma, and from different sectors, including academia, industry and government.

Contact and Follow SETAC-SC

-  www.southcentralsetac.com
-  setac.southcentral@gmail.com
-  SETAC South Central
-  @SETAC_SC

Newsletter prepared by:
Armando Elizalde Velazquez (Texas Tech University)

2019 SETAC South Central Regional Chapter Annual Meeting

The 2019 SETAC-SC annual meeting at Baylor University, Waco, Texas was a great success. A total of 65 attendees, including students and professionals from academia, industry and government, were present at the meeting. The meeting featured twenty-three platform presentations. Additionally, twenty-nine posters were presented during afternoon and evening sessions. Highlights included the election of new board members for the 2019-2020 period, and the selection of the location and potential dates for the annual meeting in 2020.

Unfortunately, due to the COVID-19 outbreak and the associated travel restrictions, the 2020 South Central SETAC meeting scheduled to be held in Corpus Christi on Friday, April 24th and Saturday, April 25th, was cancelled by the SETAC-SC Board of Directors.

While the cancellation of our meeting was disappointing, the decision was made to protect the health and safety of our members and all meeting participants. The South-Central Board of Directors appreciate the efforts of our meeting co-chairs Drs. Jeremy Conkle, Frauke Seemann, and Wei Xu from Texas A&M University - Corpus Christi, who worked hard to guarantee a successful meeting for all the attendees but due to the unfortunate events we won't be able to participate.

We are disappointed that we will not get to see everyone this Spring, but we hope to see everyone in Fort Worth during the 41st SETAC North America annual meeting in November and next Spring during our annual meeting, which will be held in Corpus Christi.



Deadline to submit an abstract for 41st SETAC NA June 3rd.

We hope to see everyone at the SETAC NA meeting in November and next Spring during our annual meeting!

Research Spotlight

Effects of Microplastic Pollution on Fish Health

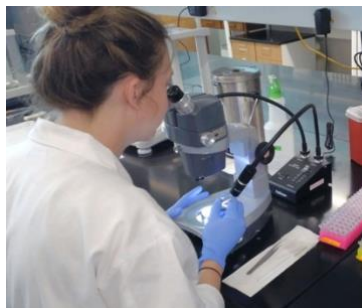
Elizabeth DiBona, a Master's student at Texas A&M University-Corpus Christi (TAMUCC), has always had a strong interest in wildlife and the impacts of humans on the environment. When Dr. Frauke Seemann presented Elizabeth with the opportunity to pursue her Master's degree at TAMUCC focusing on the effects of microplastic pollution on fish health, Elizabeth jumped at the opportunity.



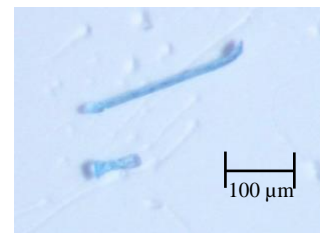
TAMUCC have provided Elizabeth with a unique opportunity for her research with the ability to collaborate with other researchers investigating microplastic pollution. In 2018, the Seemann Lab at TAMUCC established a Japanese medaka (*Oryzias latipes*) colony, and they have been using them as models for assessing the impact of microplastic on fish health. In addition to the vital resources provided by TAMUCC, in 2019 Elizabeth was awarded with a Texas Sea Grant Grants-In-Aid of Graduate Research to fund her investigation on the effects of microplastic pollution on fish health.



Plastic pollution is hot topic within the environmental field. Microplastics have attracted the attention of scientists and the general public in recent years not only because microplastics are very prevalent and persistent in the environment, but also because they can cause adverse health effects on fish. However, previous studies observed these effects after microplastic exposure to concentrations well above the concentrations currently measured in the environment. With this in mind, Elizabeth pursued research investigating the effects of a chronic exposure to common polyethylene (PE) microplastic fibers on fish health at environmentally relevant concentrations using Japanese medaka as a model.



In collaboration with the Geist lab at TAMUCC, Elizabeth observed that wild fish from South Texas bays are consuming microplastics at a size ratio of 1:4 (microplastic to fish size). With this information in mind, Elizabeth obtained blue PE multifilament yarn from Lumat USA for her exposure experiments. Prior to the exposure, the filaments were characterized with the help of the Conkle lab also at TAMUCC. Once characterized, Elizabeth prepared the PE fibers at the appropriate size to ensure that larval (7 days old) and juvenile (1-month old) medaka would be able to consume them. With the microplastics fibers ready Elizabeth proceeded with her chronic low dose exposure experiment. For 21-days, she exposed medaka larvae and juvenile to microplastic concentrations ranging from 25 fibers to 300 fibers per tank per day.



Elizabeth's research showed that chronic, low dose exposure to environmentally relevant concentrations of PE fibers induced subtle changes on larval and juvenile fish health, and significantly impaired F1 offspring development. Despite these results, Elizabeth concluded that her research shows there is no imminent threat to fish condition at the current measured microplastic concentrations; however, she recommends close monitoring of microplastic levels in vital spawning grounds for commercially important fishes as microplastics could be impacting offspring development and ultimately population recruitment levels.

Elizabeth presented her work in March at the 2020 YES meeting where she tied for 3rd place for her platform presentation.

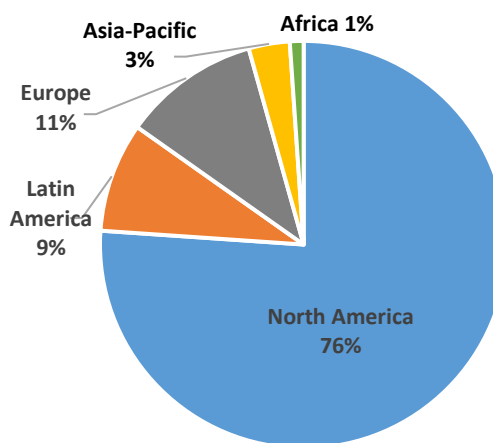
If you would like to know more about the effects of microplastics on fish health, reach out to Elizabeth at edibona@islander.tamucc.edu

9th Young Environmental Scientists (YES) Meeting

Established in 2009, the YES meeting is an annual event branching out from the Society of Environmental Toxicology and Chemistry (SETAC), that brings young scholars working on fields of environmental science, toxicology and chemistry together.

This year, Baylor University opened its doors to young scientists arriving from all over the world to hold the 9th Young Environmental Scientists (YES) in the city of Waco, Texas from March 9-11. The meeting was a total success, a total of 92 students and recent graduates registered for the meeting, with a distribution by geographic unit as follows:

- North America: 76%
- Europe: 11%
- Latin America: 9%
- Asia-Pacific: 3%
- Africa: 1%



The meeting offered a wide variety of scientific and social events that allowed attendees to present their work, learn new techniques and network with colleagues from all SETAC geographic units.

A total of nine scientific sessions were offered, with the addition of a late-breaking research session for poster presentations.

Table 1. Scientific sessions at the 9th YES meeting.

Scientific session
Emerging topics of concern in environmental toxicology and chemistry
Freshwater ecotoxicology
Environmental and analytical chemistry
Environmental risk assessment and engineering
Alternatives to animal testing:
OMICS in environmental science
Terrestrial ecotoxicology
Marine ecotoxicology
Toxicology of nanomaterials
Poster presentations
Late-breaking poster presentations

Besides the multiple scientific sessions offered at the meeting, attendees were able to participate in seven different short courses, instructed by Baylor faculty members, students of NASAC and invited speakers.

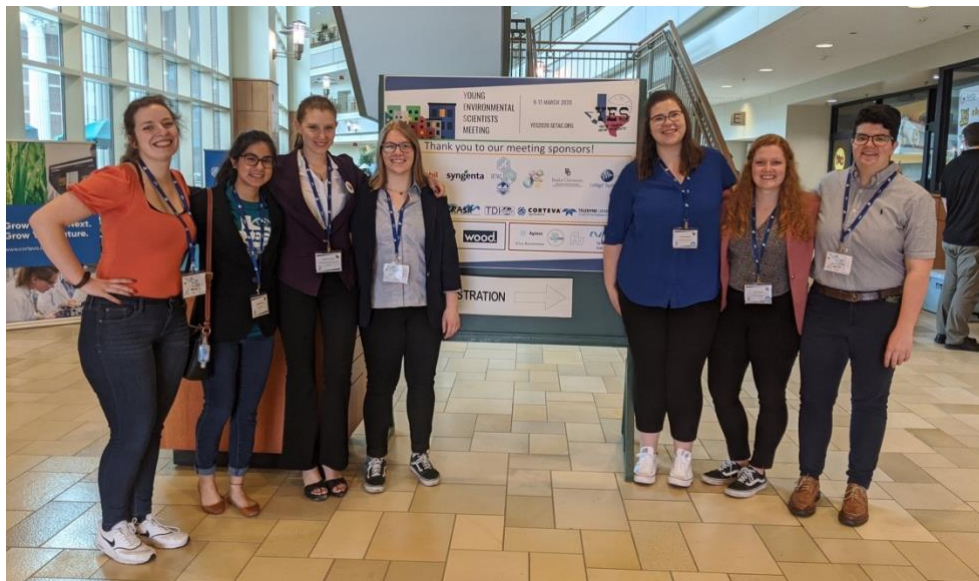
Table 2. Short courses and instructors at the 9th YES meeting.

Short courses	Instructor
Data analysis and visualization	Dr. Ryan King, Baylor University
Statistics for environmental data	Dr. Amanda Hering, Baylor University
Development of resumes and CVs	Students of NASAC
Scientific writing	Dr. Bryan Brooks, Baylor University Dr. Alistair Boxall, University of York
Methods in analytical chemistry	Agilent Technologies representatives
Graphic design	Baylor PhD students Keighley Reisenauer Baylor PhD student Haley Gandy
Field techniques: -Stream discharge measurement -Water chemistry and sample collection -Biological organisms use and collection	Students of NASAC

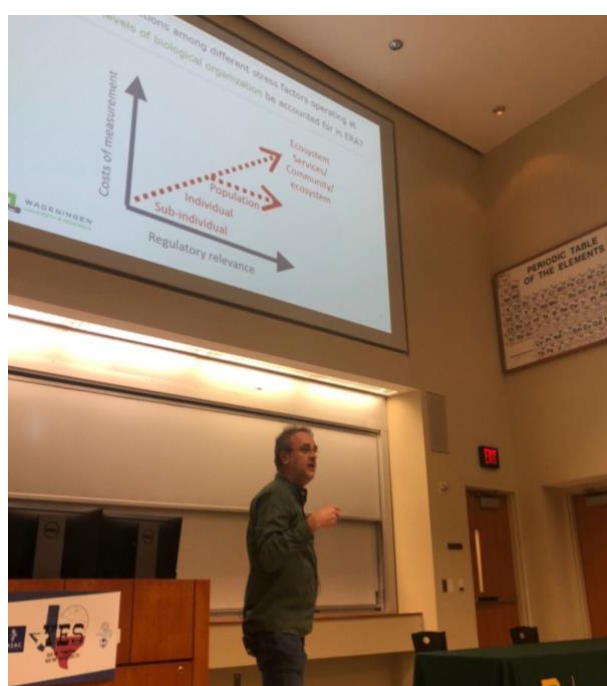
Short courses were a total success and they were all very well received by the attendees. “Field techniques short course” was a highlight of the meeting. Students were transported to Bullhide Creek in Lorena Texas to work in three rotation stations, using real instrumentation and live organisms.



Major events during the 9th YES meeting included a career panel with invited speakers with established careers in industry and academia. Panel was led by **Dr. Karla Johanning**, CEO of KJ Scientific, **Dr. Latonya Jackson**, Assistant Professor at the University of Cincinnati, and **Drs. Theodore Valenti and Richard Brain** from Syngenta.



Similarly, two keynote presentations were given by world-renowned scientists. **Professor Alistair Boxall** from the University of York in the UK gave a presentation about chemical exposure science in the 21st century, and **Professor Paul Van den Brink** from Wageningen University and Research in the Netherlands talked about the top four research questions arising from the European horizon-scanning project.



At the end of the meeting, five platform presenters were awarded for their ability to communicate their research and the quality of their presentations. The awardees were:

- 1st Place:** Marina George – Baylor University
- 2nd Place:** Tomas MacLoughlin – Universidad Nacional de La Plata
- 3rd Place:** Armando Elizalde – Texas Tech University
S. Rebekah Burket – Baylor University
Elizabeth DiBona – Texas A&M-Corpus Christi

As with platform presentations, 4 poster presenters were awarded for their ability to deliver their research and ability to answer questions. The awardees were:

- 1st Place:** Andressa Alves – Arkansas State University
- 2nd Place:** Bronte McPhedran – University of Waterloo
- 3rd Place:** Andrew Todd – Middle Tennessee State University
Ana Belen Muñiz Gonzales - UNED



The YES meeting brought the SETAC-SC chapter to the international spotlight, and our members are very proud that one of our very own institutions had the privilege of hosting such an important event. We would like to recognize the students and faculty members of the chapter involved in this event, especially to the YES organizing committee composed of Baylor students who have directly served in our chapter: **Bekah Burket** (former SETAC-SC student rep.), **Marco Franco** (former SETAC-SC student rep.) and **Kendall Scarlett** (BU-SETAC Vice-president).



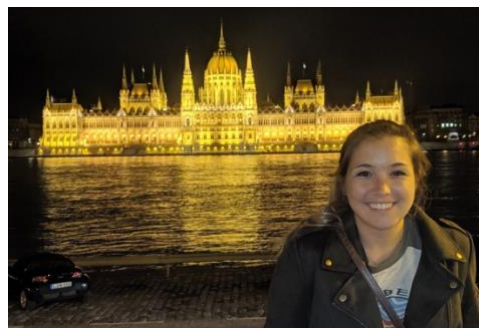
What happened in our chapter last year?

2019 was full of exciting accomplishments in our regional chapter, and we have the responsibility of bragging a little about our outstanding scientists and scholars. Here we highlight the major accomplishments of our student members in the past year.

- **Folasade Adedoyin** (Texas Southern University) delivered a poster presentation at SOT regional conference at UTMB Galveston
- **Folasade Adedoyin** (Texas Southern University) was awarded with a travel award to deliver an oral presentation at the Emerging Researchers National Conference in Washington.
- **Folasade Adedoyin** (Texas Southern University) was awarded 2nd place for her oral presentation by the College of Science, Engineering and Technology (COSET) at the Environmental and Interdisciplinary Science Research week held by TSU.
- **Folasade Adedoyin** (Texas Southern University) was awarded with a travel award to deliver an oral presentation at YES meeting. **Folasade Adedoyin** (Texas Southern University) was awarded with a travel award to present her poster at SETAC North America Meeting in Toronto, Canada
- **Dalton Allen** (Texas Christian University) received a College of Science and Engineering Graduate Student SERC grant to support his research aimed at developing alternative methods for marine effluent toxicity testing.
- **Sanjana Banerjee** (University of Louisiana at Lafayette) was elected as Chair of the Career Development Committee (CDC)
- **Fabrizio Bonatesta** (University of North Texas) was selected as a Gulf of Mexico Research Initiative (GoMRI) Scholar, by his research on the Deepwater Horizon oil spill.
- **Fabrizio Bonatesta** (University of North Texas) presented his work at the Society for Experimental Biology Annual Meeting, Seville, Spain
- **Bekah Burket** (Baylor University) was awarded Baylor Fall 2019 Outstanding Graduate Student Research Award, STEM Category
- **Bekah Burket** (Baylor University) was awarded 3rd overall place for her platform presentation at 2020 YES meeting
- **Caleshia Calvin** (Texas Tech University) was awarded The Graduate Student Research Funding, Texas Tech University



- **The Chumchal/Drenner lab** (Texas Christian University) made presentations at the National Atmospheric Deposition Program (NADP) Scientific Symposium in Boulder, Colorado
- **Elizabeth Dibona** (Texas A&M Corpus Christi) was tied 3rd overall place for her platform presentation at 2020 YES meeting
- **Armando Elizalde** (Texas Tech University) was awarded The Graduate Student Research Funding by Texas Tech University
- **Armando Elizalde** (Texas Tech University) was awarded 3rd overall place at the Three Minute Thesis Competition held by Texas Tech University Graduate School
- **Armando Elizalde** (Texas Tech University) Study Abroad Scholarship, Texas Tech University
- **Armando Elizalde** (Texas Tech University) was tied 3rd overall place for his platform presentation at 2020 YES meeting
- **Miranda Finch** (Texas Christian University) was awarded 2nd place for best poster at the 2019 SETAC-SC regional meeting.
- **Allexandra Folcik** (Texas A&M University) presented her work at the Tihany Symposium on Radiation Chemistry in Siófok, Hungary in May 2019. Her project focuses on using electron beam irradiation technology to remove cyanobacteria and cyanotoxins in water treatment.
- **Allexandra Folcik** (Texas A&M University) was awarded 2nd place for best platform at the 2019 SETAC-SC regional meeting.
- **Marco Franco** (Baylor University) was awarded the 2020 Colgate-Palmolive Award for Student Research Training in Alternative Methods
- **Maddy Hannappel** (Texas Christian University) was awarded 3rd place for best platform at the 2019 SETAC-SC regional meeting.
- **Cassie Henry** (Texas Tech University) was awarded with a Summer Dissertation Research by Texas Tech Graduate School.
- **Olukayode James Ayodeji and Nicole Dennis** (Texas Tech University) received two of three Water Conservation Research Fellowships awarded from Texas Tech University Graduate School.
- **Abby Johnson** (Texas Christian University) obtained an ORISE Ecotoxicology Research fellowship with the US EPA in Duluth, MN.



- **Alex Kascak** (University of Louisiana at Lafayette) was elected co-chair for the leadership subcommittee of the social media chair for inclusive diversity committee on the steering committee of the sediment interest group
- **Julie Krzykwa** (Texas Christian University) authored an article titled “Identifying sublethal endpoints for evaluating neurotoxic compounds utilizing the fish embryo toxicity test”, which was published in Ecotoxicology and Environmental Safety.
- **Julie Krzykwa** (Texas Christian University) accepted a research position in the Ecotoxicology Department of Smithers Environmental Risk Science LLC.
- **Steven Lasse and Nicole Dennis** (Texas Tech University) were awarded with Texas Tech Graduate School Travel Grants to attend SETAC NA meeting
- **Lihua Lou** (Texas Tech University) was awarded Study Abroad Scholarship, Texas Tech University
- **Lihua Lou** (Texas Tech University) was awarded Summer Thesis Scholarship, Texas Tech University
- **Lihua Lou** (Texas Tech University) was awarded The Love of Learning Award, Phi Kappa Phi
- **Lihua Lou** (Texas Tech University) was awarded The Graduate Student Research Funding, Texas Tech University
- **Lihua Lou** (Texas Tech University) was awarded APAC Summit Travel Grant, Golden Key International Honor Society
- **Henry Lujan** (Baylor University) was awarded 1st place platform presentation and a small grant award at Texas Society of Microscopy 55th Annual Conference.
- **Henry Lujan** (Baylor University) delivered a presentation at Lone Star Society of Toxicology Annual Meeting
- **Henry Lujan** (Baylor University) was awarded an ORISE Scholarship as a Graduate Student Fellow for the Air Force Research Labs in Dayton, Ohio Summer Internship 2019
- **Henry Lujan** (Baylor University) delivered an oral presentation at 2020 YES meeting
- **Gabriella McConnell** (Texas Tech University) received The James “Gus” Foyle Memorial Scholarship by the Texas Mosquito Control Association
- **Marina Mulenos George** (Baylor University) was awarded best poster presentation in STEM by Baylor Graduate Student Association Research Showcase Fall 2019
- **Marina Mulenos George** (Baylor University) was elected as webmaster of BU-SETAC
- **Marina Mulenos George** (Baylor University) was elected as the 2020 SETAC-NA Science Committee Student Representative



- **Marina Mulenos George** (Baylor University) was awarded 1st place for her platform presentation at YES meeting
- **Marina Mulenos George** (Baylor University) was awarded an ORISE Scholarship as a Graduate Student Fellow for the Air Force Research Labs in Dayton, Ohio Summer Internships in 2019 and 2020
- **Marina Mulenos George** (Baylor University) was awarded 2nd place platform presentation at Texas Society of Microscopy 55th Annual Conference
- **Marina Mulenos George** (Baylor University) was awarded best poster presentation at the 2019 SETAC-SC regional meeting
- **Marina Mulenos George** (Baylor University) won Glasscock Grant for Endowed Fund for Excellence in Environmental Science
- **Marina Mulenos George** (Baylor University) delivered a poster presentation at Lone Star Society of Toxicology Annual Meeting
- **Bianca Rendon** (Texas Tech University) received The Jimmy K. Olson Memorial Scholarship by the Texas Mosquito Control Association
- **Kyle Roush** (Texas Christian University) published an *Environmental Toxicology and Chemistry* article titled “Sexual maturity status as a confounding variable in fish-based screening assays for the detection of anti-estrogens and non-aromatizable androgens”
- **Kyle Roush** (Texas Christian University) obtained a position as an Environmental Steward at Procter & Gamble in Cincinnati, OH.
- **Leah Thornton Hampton** (University of North Texas and Texas Christian University) successfully defended her PhD dissertation and obtained a position with the Southern California Coastal Water Research Project.
- **April Tran** (Texas Christian University) was awarded 3rd place for best platform at the 2019 SETAC-SC regional meeting.
- **Students from Baylor University, Texas A&M College Station, Texas A&M Corpus Christi, Texas Christian University, Texas Southern University, Texas Tech University, University of Louisiana at Lafayette and University of North Texas** participated successfully with multiple poster and platform presentations at the SETAC North America Meeting in Toronto, Canada.

Congratulations to all of you

2019 Distinguished SETAC-SC Members

It is no secret that our chapter has some of the best scientists in SETAC, and we are extremely happy to feature them in our newsletter.



Todd Anderson (Texas Tech University) travelled to Erzincan University in September to collaborate with faculty colleagues in biology and physics. While there, he was invited by the school rector to give the opening plenary talk of the academic year at TC Kemah Erzincan University Vocational School.



Dr. Bryan W. Brooks (Baylor University) received the Recipharm International Environment Award at a prize ceremony in Stockholm. Dr Brooks was awarded for his contributions and scholarly research on environmental sustainability.



Dr. David Hoeinghaus (University of North Texas) was appointed Associate Chair of the Department of Biological Sciences UNT.



Dr. Marlo Sellin Jeffries (Texas Christian University) co-chaired a full-day session on Immunotoxicity at the 2019 SETAC North American meeting and was selected to co-chair the 2020 SETAC North American meeting. She was also recognized as a high-ranking reviewer by *Environmental Toxicology and Chemistry*.



Dr. Ron Kendall (Texas Tech University) was appointed to serve on the U.S. Environmental Protection Agency's (EPA) Clean Air Scientific Advisory Committee



Edward Mager (University of North Texas) presented his research at the Society for Experimental Biology Annual Meeting, at Seville, Spain.



Dr. Steve Presley (Texas Tech University) was presented with the “2019 Distinguished Achievement Award for Outstanding Achievement in Vector Ecology Science”. The annual award recognizes scientist that has contributed significantly to advancing the knowledge base regarding arthropod vectored disease ecology.



Dr. Aaron Roberts (University of North Texas) was appointed Director of the Advanced Environmental Research Institute (AERI).



Dr. Phil Smith (Texas Tech University) was appointed associate editor of Environmental Pollution journal by Elsevier. Dr. Smith concurrently serves as associate editor for the Society of Environmental Toxicology and Chemistry’s flagship journal, Environmental Toxicology and Chemistry.

Congratulations!

NASAC 101

It's 2020, and, as always, NASAC is gearing up for another busy year! You're a student and you've never heard of NASAC? Oh wait, you've heard of it, but have no idea what it is? Either way, we're happy to oblige your curiosity with a quick, simple refresher and/or introduction to our group!

What is NASAC and what does it do?

- The North American Student Advisory Council or "NASAC" is the central student group within SETAC North America.
- Our primary goal is to provide a voice for students within the society.
- All year round we work to improve and enhance the SETAC student experience by providing student perspectives to issues within the society and planning student-centered programming.



How is NASAC organized?

- NASAC is comprised of the executive student leadership (Chair, Vice Chair and Outgoing Chair), all North American Regional Chapter Student Representatives, two members at large, associate members and two advisors from the SETAC Board of Directors.
- Voting members include the executive leadership, regional chapter student representatives and members at large.
- All members of NASAC are organized around subcommittees to complete a wide variety of student-centered projects. For example, we have a subcommittee for the annual Student Mixer. This group works to organize and fundraise for one of our most popular student events.
- Since NASAC members are scattered across North America, we work together via email and monthly conference calls to discuss projects in the works.



How do you get involved in NASAC?

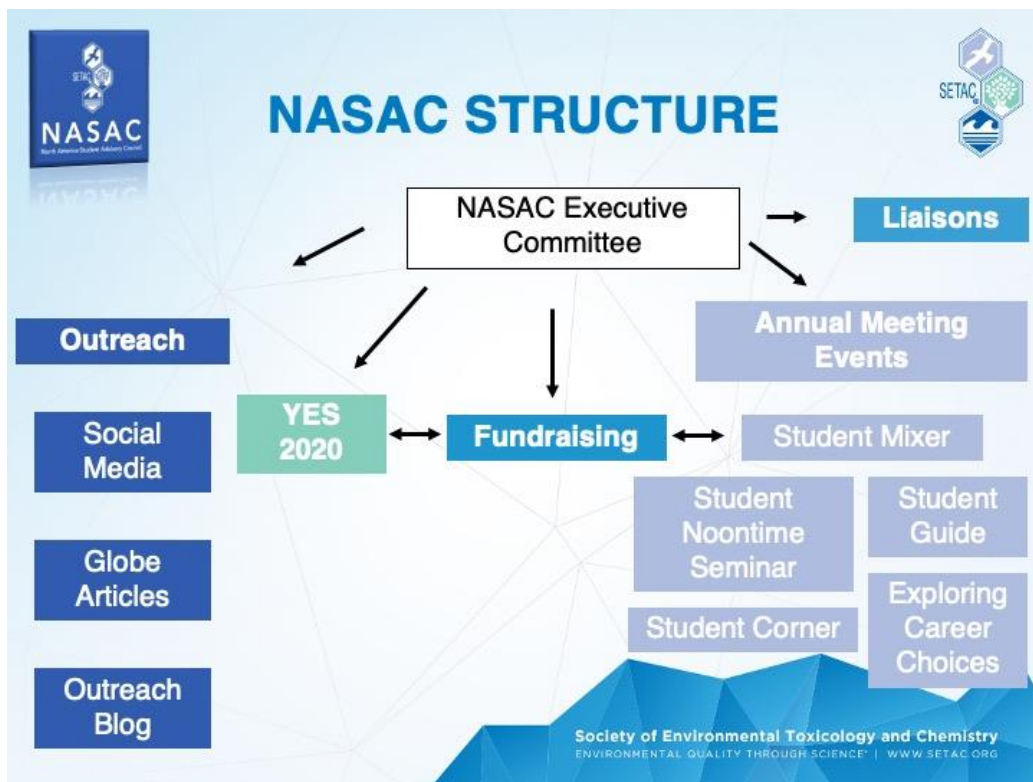
- Getting involved is easy! Just contact any member of the NASAC executive leadership or your Regional Chapter's Student Representative!
- Anyone can become an associate member and help with any NASAC project(s) that interest them.
- Jump right in! Don't worry if you feel as if you are not qualified. All you need to be a NASAC member is enthusiasm. We're all here learning—we are students after all, right?

What are some the benefits of getting involved?

- You can work on turning your ideas for student programming and activities into a reality!
- You can be involved as little or as much as you want. We have projects of all sizes!
- NASAC is a great place to meet SETAC members all over North America and even the globe.
The networking opportunities are truly endless!

Recent changes

- NASAC Chair is a voting member of the SETAC board!
- YES Program evaluation: Refined YES meeting and fundraising SOP
- Defined NASAC Structure



Still want to know more? Contact Derek Green (Current NASAC Chair, d.green@usasks.ca) or Armando Elizalde (South Central Regional Chapter Student Representative, armando.elizalde-velazquez@ttu.edu), and we would be happy to answer any questions that you may have. Enthusiastic and driven students can get involved at any time throughout the year. We can't wait to hear from you!



Derek Green
NASAC Chair 2020
University of Saskatchewan

News from Our Student Organizations

2019 Llano Estacado SETAC (LE-SETAC) officers:

President: Cassie Henry

Vice-president: Brett Henry

SORC Rep: Audrey Willis

Treasurer: Alyssa Hay

Faculty advisor: Jordan Crago

LE-SETAC Student Chapter at Texas Tech University was really busy last year, and participated in quite a few activities:

- They taught summer camps to middle and high school students, under the themes “Science is a Girl Thing” and “Shake Hands with Your Future”.
- They proudly maintained a 2-mile highway stretch clean, as part of the program “Adopt a Highway”.
- They volunteered with book sales at the Lubbock library.
- Member of the chapter judged middle and high school students as part of a local science fair.
- Dr. Elaine Dorward-King, Executive Vice President at Newmont Mining Corporation was invited speaker last fall to give a lecture to LE-SETAC members.



2019 Baylor University SETAC Student Chapter (BU-SETAC) officers:

President: Marco Franco

Vice-president: Kendall Scarlett

Outreach chair: Henry Lujan

Treasurer: Sahar Pradhan

Secretary: Lea Lovin

Webmaster: Marina Mulenios

Faculty advisor: Ramon Lavado

BU-SETAC also had a great 2019, with many science and social outreach activities in Central Texas:

- BU-SETAC participated in the Waco Cultural Science and Arts Fest, teaching young scholars about environmental science.
- They also conducted many fun science activities at the Girl Scout STEM Fest.
- Members of the chapter volunteered to judge elementary and middle school students at the Central Texas Science and Engineering Fair.
- BU-SETAC had local fundraisers aimed to support graduate and undergraduate research at Baylor.
- BU-SETAC was deeply involved in the organization of the 2020 YES meeting .



News from Our Industry Members



Shell's Ecotoxicology Team in Houston has five SETAC SC members:

- Dr. Delina Lyon
- Dr. Jonathan Naile
- Dr. Adriana Bejarano
- Dr. Sarah Hughes
- Dr. Charles Meyer



- **Dr. Delina Lyon** was shortlisted as finalist for the International Oil and Gas Producers (IOGP) [outstanding young professional award](#). The finalists had to create a [three minute video](#) ← **CHECK THE VIDEO**, it is a good perspective for students thinking of joining industry as an environmental professional.
- **Dr. Sarah Hughes** was elected to the SETAC North America Board of Directors Fall 2019 and will serve on the Board for a three-year term.

Publications

- Arneson Westbrook L, Mudge J, **Hughes SA, Lyon D, Dong M, Carr D, Anderson TA.** (2020). Terrestrial toxicity of synthetic gas-to-liquid (GTL) versus crude oil-derived drilling fluids in freshly spiked and aged natural sandy loam soil *Environmental Toxicology and Chemistry* 39(3) 721-730
- Barron, M., **Bejarano, A.**, Conmy, R., Sundaravadivelu, D., & Meyer, P. (2020). Toxicity of oil spill response agents and crude oils to five aquatic test species. *Marine Pollution Bulletin*, 153, 110954.
- Mitchelmore CL, **Bejarano AC.** and Wetzel DL. (2020). A Synthesis of DWH Oil: Chemical Dispersant and Chemically Dispersed Oil Aquatic Standard Laboratory Acute and Chronic Toxicity Studies. *Deep Oil Spills*, Springer. 480-496
- Barron MG, Chiasson SC, **Bejarano AC.** (2020) *Ecotoxicology of Deep Ocean Spills*. *Deep Oil Spills*, Springer. 466-479
- **Bejarano, A.** (2019). Further Development and Refinement of Interspecies Correlation Estimation Models for Current-Use Dispersants. *Environmental Toxicology and Chemistry*, 38(8), 1682-1691.

- **Lyon, DY**, M Smit, B Lee, B Conley. (2019). OTC-29835-MS: Modeled Environmental Risk of Offshore Drill Cuttings Discharges with Different Drilling Base Fluids. Technology Conference Brasil, 29-31 October, Rio de Janeiro, Brazil.
- Gouin T, Salinas E, Coady K, Franco A, Hoke R, Hopp P, Hughes C, Leonard M, **Lyon D**, Sergeant JA. (2019). TR 132 - An evaluation of the challenges and limitations associated with aquatic toxicity and bioaccumulation studies for sparingly soluble and manufactured particulate substances. ECETOC report.
- Oziolor E, De Schamphelaere K, **Lyon D**, Nacci D, Poynton H. (2019). Evolutionary Toxicology - an informational tool for chemical regulation? Environmental Toxicology and Chemistry. 39. 257-268.
- Birch H, Redman A, Letinksi DJ, **Lyon D**, Mayer P. (2019). Determining the water solubility of difficult-to-test substances: A tutorial review. Analytica Chimica Acta.1086
- Fairbrother A, Muir D, Solomon KR, Ankley GT, Rudd MA, Boxall ABA, Apell JN, Armbrust KL, Blalock BJ, Bowman SR, Campbell LM, **Cobb GP**, Connors KA, Dreier DA, Evans MS, Henry CJ, Hoke RA, Houde M, Klaine SJ, Klaper RD, Kullik SA, Lanno RP, **Meyer C**, Ottinger MA, Oziolor E, Petersen EJ, Poynton EC, Rice PJ, Rodriguez-Fuentes G, Samel A, Shaw JR, Steevens JA, Verslycke TA, Vidal-Dorsch DE, Weir SM, Wilson P, **Brooks BW**. (2019). Toward sustainable environmental quality: Priority research questions for North America. Environmental Toxicology and Chemistry. 38. 1606-1624.
- Menzie C, **Hughes S**, Assis H. (2019). Insight: Weight of evidence best way to manage chemical risks. Bloomberg Environment & Energy.
- **Hughes SA**, **Naile J**, Pinza M, Ray C, Hester B, Baum J, Gardiner W, Kallestad W, Brzuzy L. (2019). Characterization of miscellaneous effluent discharges from a mobile offshore drilling unit to the marine environment. 38. 2811-2823.
- Ajaero C, Peru KM, Simair M, Friesen V, **Hughes S**, Chen H, McKenna A, Corilo Y, McMartin D, Headley JV. (2019). Atmospheric pressure photoionization Fourier transform ion cyclotron resonance mass spectrometry characterization of oil sand process-affected water in constructed wetland treatment. Energy & Fuels.33. 4420-4431.
- Kilgour B, Mahaffey A, Brown C, **Hughes S**, Hatry C, Hamilton L. (2019). Variations in toxicity and ecological risks associated with some oil sands groundwaters. Science of the Total Environment. 659. 1224-1233.

Congratulations!

2019-2020 Publications from SETAC-SC Members

- **Lihua Lou**, Seenivasan Subbiah, **Ramkumar Seshadri***, Ernest Smith, **Ronald J. Kendall**. (2019) Functional PVA/VB2/TiO₂ Nanofiber Webs for Controlled Drug Delivery *ACS Applied Bio Materials* 2 (12), 5916-5929
- **Lou, L., Kendall, R., Smith, E., & Ramkumar, S.** (2020). Functional PVDF/rGO/TiO₂ nanofiber webs for the removal of oil from water. *Polymer*, 186, Polymer, 09 January 2020, Vol.186.
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