



Lavado and Brooks Labs, from Baylor University, during a field sampling campaign in Park City, UT

# SETAC South Central 2019

# NEWSLETTER

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## 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

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## 2019 SETAC South Central Regional Chapter Annual Meeting

The 2018 SETAC-SC annual meeting at the Texas Tech University Center in Grand Junction, Texas was a great success. A total of 40 attendees, including students and professionals from academia, industry and government, were present at the meeting. Twelve student platform presentations were held, and three presentations were given by new faculty in the region. Additionally, fourteen posters were presented during afternoon and evening sessions. Highlights included the election of new board members for the 2018-2019 period, and the selection of the location and potential dates for the annual meetings in 2019 and 2020.

Baylor University, located in the city of Waco, Texas, will host the 2019 regional meeting from **May 3<sup>rd</sup> to the 5<sup>th</sup>**. The meeting chairs, Dr. Cole Matson and Dr. Ramon Lavado, are actively working to guarantee a successful meeting for all the attendees, and have planned an eventful meeting including platform talks, a poster social and networking opportunities. The Baylor Sciences Building (BSB) and the Mayborn Museum Complex will serve as the main venues for the upcoming meeting. The BSB is the largest academic building on Baylor's campus and it houses six of the academic departments from the College of Arts and Sciences, and more than 10 interdisciplinary centers, such as the center for microscopy and imaging, the mass spectrometry center, and the molecular biosciences center.



The city of Waco, TX, known as the “heart of Texas”, is home to multiple attractions in the southern U.S., including the Dr. Pepper Museum (Yes, Dr. Pepper was invented in Waco!), Magnolia Market (owned by the hosts of the TV show “Fixer Upper”), the Texas Ranger and Texas Sports Halls of Fame, and the famous Waco Mammoth National Monument.

These are more than enough reasons to start preparing for the regional meeting at Baylor, as not only you will be surrounded by many colleagues and have the opportunity to present your research, but also, you will experience many of the experiences Baylor and the city of Waco have to offer.

**Deadline to submit an abstract is April 15<sup>th</sup>.**

**We hope to see you at Baylor!**

## Research Spotlight

### Hawaiian Green Sea Turtles at Risk of Lead Contamination

Katherine Shaw, a Ph.D. candidate at Texas Tech University, has a deep passion for marine organisms, and when she was presented with the opportunity to study sea turtles, she did not hesitate about taking it. This was the beginning of a journey that took Katy all the way to the Oahu island in Hawaii, where she has been actively investigating the effects of lead on the magnificent Hawaiian green sea turtle (*Chelonia mydas*).

The Kaimalino neighborhood in Kailua Bay, Hawaii, is located on windward Oahu. This was once the home of the Honolulu Skeet Club. Lead shot was used during the 23 years the skeet club was active (1933 – 1956), resulting in significant accumulation of these pellets on and near the coastline. Layers of lead shot can still be seen in the sand, tidepools along the coastline, and on the seafloor. Hawaii Department of Health warning signs at public access points currently advise that lead and arsenic found in pellets may be harmful to children if swallowed. The pellets slowly degrade and release lead, putting organisms living, breeding, and foraging in this area at risk of heavy metal accumulation and toxicity.



Green turtles studied since 2000 along the shoreline of the Kaimalino neighborhood at the mouth of the Kawainui Marsh are highly resident, with 75% of turtles re-captured during sampling events spanning three years, 2011-2013. This high site fidelity suggests that turtles serve as bioindicators of contaminant presence in Kailua Bay. To evaluate the risk of exposure of Hawaiian green sea turtles to lead, and the effects associated with it, Katy received a significant grant from the Hawaii Department of Health to conduct these studies.



Katy's project began with the tracing of lead movement through the Kailua Bay ecosystem. This was done by measuring lead concentrations in sand and algae samples from the beach and tide pools, using inductively coupled plasma-mass spectroscopy (ICP/MS). In visibly contaminated sites, lead concentrations ranged from 388 to 653 g/Kg. Similarly, lead concentrations in the red algae *Acanthophora spicifera*, often consumed by green sea turtles and collected from contaminated sites, were approximately 63 ng/g.

With the confidence that lead was indeed present in green sea turtle habitats, Katy proceeded to obtain blood and scute samples from 33 sea turtles between 2011 and 2013, and measured lead concentrations in these two matrices. The highest lead concentration in blood was 940 ng/g, with an average of  $340 \pm 180$  ng/g, whereas scute lead concentrations ranged from 20 to 590 ng/g.

Unfortunately, the toxic threshold of lead in sea turtles is unknown, but it is well established that lead does not have a biological function in animals and that its toxicity severely affects different biological processes. Therefore, further research needs to be conducted to explore the adverse effects that lead may cause on sea turtles, and how the ecology of this species may be impacted.

Katy presented these findings to the Hawaiian Department of Health in October 2018.

If you would like to know more about this Hawaiian green sea turtle project, reach out to Katy at [Katherine.Shaw@ttu.edu](mailto:Katherine.Shaw@ttu.edu)

## 9<sup>th</sup> Young Environmental Scientists Meeting

For those of you who are unfamiliar with YES, this meeting was established in 2009 to bring young scholars working the fields of environmental science, toxicology and chemistry together. The YES meeting is an annual event branching out from the Society of Environmental Toxicology and Chemistry (SETAC).

Initially, the YES meeting was only held in Europe, being the European Student Advisory Council responsible for organizing and coordinating the event. It was not until after four YES meetings (2009 in Landau, Germany, 2011 in Aachen, Germany, 2013 in Kraków, Poland, and 2015 in Valjevo, Serbia) that YES was brought to North America in 2016, specifically to the University of Florida and under the theme “Science in the Swamp”.

After the YES meeting in Florida, it was established that the meeting was going to be held every year, alternating between Europe and North America. In 2018, YES was held at the University of Wisconsin-Madison, and while this event took place in Ghent, Belgium in 2019, the meeting is set to come back to North America in 2020 under the theme “New Times, New Science”, as Baylor University will open its doors to the young scientists arriving from all over the world.



This is an exciting opportunity for the SETAC-SC chapter as one of our very own institutions will have the privilege of hosting such important event. The YES organizing committee is composed of Baylor students - two of them having directly served in our chapter: Bekah Burket (former SETAC-SC student rep.) and Marco Franco (current SETAC-SC student rep.). Additionally, the organizing committee will work closely with the North America Student Advisory Council, which is currently chaired by our very own Leah Thornton (University of North Texas).

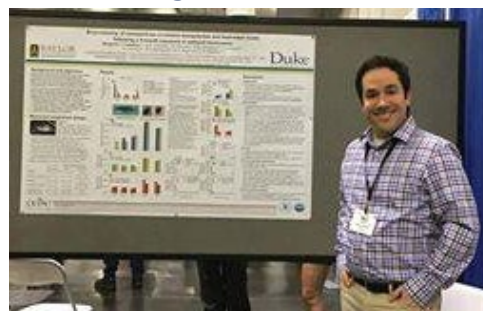
It is worth mentioning that not only YES attendees have the opportunity to interact with other students from all geographic units, but also the YES meeting is free of registration fees. The only requirement is to present a platform or poster, given the abstract is accepted. We encourage all of our student members to take advantage of the YES meeting, which is set to happen from the 8<sup>th</sup> to 12<sup>th</sup> of March in 2020.

Stay tuned to find out when the abstract submission is open and other YES updates in the SETAC website ([www.setac.org](http://www.setac.org)) and by following our chapter on Facebook and Twitter.

## What happened in our chapter last year?

2018 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) presented her research work for the first time at a SETAC National Conference during the 2018 Sacramento meeting, and joined the Emerging Researchers National Conference in February.
- **Olushola Awoyemi** (Texas Tech University) was awarded 3<sup>rd</sup> place for best student platform presentation at the 2018 SETAC-SC regional meeting.
- **Benjamin Castellon** (Baylor University) won 2<sup>nd</sup> place on the Ph.D. student posters at SETAC Sacramento, and obtained a Doris Kayser Stark graduate scholarship at Baylor.
- **Armando Elizalde** (Texas Tech University) obtained 3<sup>rd</sup> place & audience choice award at the 3-minute thesis competition at Texas Tech.
- **Marco Franco** (Baylor University) was awarded the Doris Kayser Stark graduate scholarship and was a recipient of the C. Gus Glasscock, Jr. Endowed Fund of Excellence in Environmental Science at Baylor. Additionally, he received travel grants to attend the 2018 European Congress on Alternatives to Animal Testing, the national SETAC meeting in Sacramento, and was an invited speaker at the first “Ecotoxicology in Guatemala” symposium at the University of the Valley in Guatemala City.
- **Jing Liu** (Baylor University) obtained a Doris Kayser Stark graduate scholarship at Baylor.
- **Lea Lovin** (Baylor University) won 2<sup>nd</sup> place for best poster presentation at the 2018 SETAC-SC regional meeting.
- **Chad Mansfield** (Baylor University) presented his research entitled “Data mining RNA-Sequencing for population structure and mitochondrial reads in *Tachycineta bicolor* (Tree swallow)” at the national SETAC meeting, and collaborated in a research project presented at the Plant and Animal Genome Conference.
- **Opeyemi Ojekunle** (Texas Southern University) spent her summer working with STEM scholars as part of the Urban Schools Collaborative in Texas. She also presented her research entitled “Investigation on oxidative and genotoxic stress effect of heavy metals and pesticides exposure on tardigrade and the antioxidative effect of vitamins” in SETAC Sacramento.



- **Cassandra Schmitt** (Texas Tech University) obtained 1<sup>st</sup> place at the 3-minute thesis competition at Texas Tech, and tied in 1<sup>st</sup> place for best poster presentation at the 2018 SETAC-SC regional meeting.
- **Katherine Shaw** (Texas Tech University) won 3<sup>rd</sup> place for best Ph.D. student platform at the National SETAC in Sacramento. She also obtained a \$20,580 grant from the Hawaii Department of Health to study the effects of lead on sea turtles.
- **Kyle Roush** (Texas Christian University) obtained 1<sup>st</sup> place at best platform presentation during the 2018 SETAC-SC regional meeting.
- **Grace Sutherland** (Baylor University) was awarded the Doris Kayser Stark graduate scholarship and was a recipient of the C. Gus Glasscock, Jr. Endowed Fund of Excellence in Environmental Science to explore the use of cell co-cultures to evaluate the toxicity of chemical mixtures in seafood.
- **Sabrina Tabassum-Tackett** (University of Louisiana at Lafayette) obtained a best poster presentation award in the graduate student category at the 2018 State of the Coast Conference in New Orleans, LA.
- **Kelsey Thompson** (Texas Tech University) won 2<sup>nd</sup> place for best platform presentation during the 2018 SETAC-SC regional meeting.
- **Leah Thornton-Hampton** (University of North Texas) was awarded 1<sup>st</sup> place for best poster presentation at the 2018 SETAC-SC regional meeting, and transitioned to be the 2019 NASAC Chair.



**Congratulations to all of you!**

# 2018 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.



**Dr. Todd Anderson** (Texas Tech University) was recognized as the SETAC Outstanding Regional Chapter Member during the 2018 meeting in Sacramento.



**Dr. Bryan W. Brooks** (Baylor University) was honored as a Fellow of SETAC at the national meeting in Sacramento.



**Dr. Matthew Chumchal** (Texas Christian University) was recognized as an Exceptional Reviewer from ET&C in 2018.



**Dr. Jordan Crago** (Texas Tech University) was recognized as an Exceptional Reviewer from ET&C in 2018.



**Dr. Paul Klerks** (University of Louisiana at Lafayette) was recognized as an Exceptional Reviewer from ET&C in 2018.



**Dr. Marlo Sellin-Jeffries** (Texas Christian University) was recognized as an Exceptional Reviewer from ET&C in 2018.



**Dr. Xiaolong Shen** (Texas Tech University) was recognized as a High-Ranking Reviewer from ET&C in 2018.

## Congratulations!

## NASAC 101

It's 2019, 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 sub-committees 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!**

Still want to know more? Contact Leah (Current NASAC Chair, [leahthornton@my.unt.edu](mailto:leahthornton@my.unt.edu)) or Marco (South Central Regional Chapter Student Representative, [marco\\_franco1@baylor.edu](mailto:marco_franco1@baylor.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!](#)



**Leah Thornton-Hampton**  
*NASAC Chair 2019*  
*University of North Texas*

## News from Our Student Organizations

The Llano Estacado SETAC (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.

The Baylor University SETAC Student Chapter (BU-SETAC) also had a great 2018, 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.
- The Waco Creek cleanup was a great success!
- BU-SETAC had local fundraisers aimed to support graduate and undergraduate research at Baylor.



## 2018-2019 Publications from SETAC-SC Members

- Chung, S. S., Zheng, J. S., **Burket, S.R., Brooks, B.W.** (2018). Select antibiotics in leachate from closed and active landfills exceed thresholds for antibiotic resistance development. *Environment International*. 115: 89-96
- McRae, N.K., Glover, C., **Burket, S.B., Brooks, B.W.,** Gaw, S. (2018). Acute Exposure to an Environmentally Relevant Concentration of Diclofenac Elicits Oxidative Stress in the Culturally Important Galaxiid Fish *Galaxias maculatus*. *Ecotoxicology and Environmental Safety*. 37 (1) 224-235
- **Brooks, B.W.** (2018). Urbanization, environment and pharmaceuticals: advancing comparative physiology, pharmacology and toxicology. *Conservation Physiology* 6 (1): 79
- Bean, T.G., Rattner, B.A., Lazarus, R.S., Day, D.D., **Burket, S.R., Brooks, B.W.,** Haddad, S.P., Bowerman, W.W (2018). Pharmaceuticals in water, fish and osprey nestlings in Delaware River and Bay. *Environmental Pollution*. 232: 533-545
- **Steele, W.B.,** Mole, R.A., **Brooks, B.W.** (2018). Experimental Protocol for Examining Behavioral Response Profiles in Larval Fish: Application to the Neuro-stimulant Caffeine. *Jove-Journal of Visualized Experiments*. (137). Video Article, URL: [www.jove.com/video/57938](http://www.jove.com/video/57938)
- **Steele, W.B.,** Kristofco, L.A., Corrales, J., Saari, G.N., Haddad, S.P., Gallagher, E.P., Kavanagh, T.J., Kostal, J., Zimmerman, J.B., Voutchkova-Kostal, A., Anastas, P., **Brooks, B.W.** (2018). Comparative behavioral toxicology with two common larval fish models: Exploring relationships among modes of action and locomotor responses. *Science of the Total Environment*. 640: 1587-1600
- Scott, W. Casan, Breed, Christopher S., Haddad, Samuel P., **Burket, S. Rebekah,** Saari, Gavin N., Pearce, Paul J., Chambliss, C. Kevin, **Brooks, B.W.** (2018). Spatial and temporal influence of onsite wastewater treatment systems, centralized effluent discharge, and tides on aquatic hazards of nutrients, indicator bacteria, and pharmaceuticals in a coastal bayou. *Science of the Total Environment*. 650: 354-364
- Haddad, Samuel P., Luek, Andreas, Scott, W. Casan, Saari, Gavin N., **Burket, S. Rebekah,** Kristofco, Lauren A., Corrales, Jone, Rasmussen, Joseph B., Chambliss, C. Kevin, Luers, Michael, Rogers, Clint, **Brooks, B.W.** (2018). Spatio-temporal bioaccumulation and trophic transfer of ionizable pharmaceuticals in a semi-arid urban river influenced by snowmelt. *Journal of hazardous materials*. 359: 231-240
- **Burket, S.R.,** Sapozhnikova, Y., Zheng, J.S., Chung, S.S., **Brooks, B.W.** (2018). At the Intersection of Urbanization, Water, and Food Security: Determination of Select Contaminants of Emerging Concern in Mussels and Oysters from Hong Kong. *Journal of Agricultural and Food Chemistry*. 66:20 5009-5017
- **Liu, J., Dungana, B., Cobb, G.P.** (2018). Copper oxide nanoparticles and arsenic interact to alter seedling growth of rice. *Chemosphere*. 206: 330-337
- **Franco, M.E., Sutherland, G.E., Lavado, R.** (2018). Xenobiotic metabolism in the fish hepatic cell lines Hepa-E1 and RTH-149, and the gill cell lines RTgill-W1 and G1B: Biomarkers of CYP450 activity and oxidative stress. *Comparative Biochemistry and Physiology C-Toxicology & Pharmacology*. 206: 32-40
- Watkins, P.S., **Castellon, B.T., Tseng, C.,** Wright, M.V., **Matson, C.W., Cobb, G.P.** (2018). Validation of a Sulfuric Acid Digestion Method for Inductively Coupled Mass Spectrometry Quantification of TiO<sub>2</sub> Nanoparticles. *Bulletin of Environmental Contamination and Toxicology*. 100:6 809-814
- Geitner, N.K., Cooper, J.L., Avellan, A., **Castellon, B.T., Perrotta, B.G.,** Bossa, N., Simonin, M., Anderson, S.M., Inoue, S., Hochella, M.F., Richardson, C.J., Bernhardt, E.S., Lowry, G.V., Ferguson, P.L., **Matson, C.W.,** King, R.S., Unrine, J.M., Wiesner, M.R., Hsu-Kim, H. (2018) Size-Based Differential Transport, Uptake, and Mass Distribution of Ceria (CeO<sub>2</sub>) Nanoparticles in Wetland Mesocosms. *Environmental Science & Technology*. 52:17 9768-9776
- Becker, D., **M.M. Chumchal,** H. Broders, J. Korstian, T. Rainwater, S. Platt, N. Simmons, M. Fenton. (2018). Mercury bioaccumulation in bats reflects phylogeny and dietary connectivity to aquatic food webs, *Environmental Pollution*, 233:1076-1085.
- Burnham, J., K. Burnham, **M.M. Chumchal,** J. Johnson, and J. Welker. (2018). Correspondence between mercury contamination and trophic position in marine and terrestrial avian species from northwest Greenland. *Polar Biology*, 41: 1475-1491.

- **Chumchal, M.M.**, R.W. Drenner, M.N. Hall, D.K. Polk, E.B. Williams, **C.L. Ortega-Rodriguez**, J.H. Kennedy. (2018). Seasonality of dipteran-mediated methyl mercury flux from ponds, *Environmental Toxicology and Chemistry* 37: 1846-1851. \*\*\*Selected by the Editor for Inclusion in a Virtual Issue on ET&C's Website Celebrating the Minimata Convention on Mercury
- Korstian, J.M., **M.M. Chumchal**, V.J. Bennett, A.M. Hale. (2018). Mercury contamination in bats from the central United States, *Environmental Toxicology and Chemistry* 37:160-165. \*\*\*Editor's Spotlight Feature Article
- Norberg-King TJ, Embry MR, Belanger SE, Braunbeck T, Butler JD, Dorn PB, Farr B, Guiney PD, Hughes SA, **Jeffries M**, Journal R, Lèonard M, McMaster M, Oris JT, Ryder K, Segner H, Senac T, Van Der Kraak G, Whale G, Wilson P. (2018). An international perspective on the tools and concepts for effluent toxicity assessments in the context of animal alternatives. *Environmental Toxicology and Chemistry* 37:2745-2757.
- **Krzykwa JC, Olivas A, Sellin Jeffries MK.** (2018). Development of cardiovascular and neurodevelopmental metrics as sublethal endpoints for the fish embryo toxicity test. *Environmental Toxicology and Chemistry* 37:2530-2541.
- **Thornton LM**, Path EM, Nystrom GS, **Venables BJ, Sellin Jeffries MK.** (2018). Embryo-larval BDE-47 exposure causes decreased pathogen resistance in adult male fathead minnows (*Pimephales promelas*). *Fish and Shellfish Immunology* 80:80-87.
- **Roush KS, Krzykwa JC**, Malmquist JA, Stephens DA, **Sellin Jeffries MK.** (2018). Enhancing the fathead minnow fish embryo toxicity test: Optimizing embryo production and assessing the utility of additional test endpoints. *Ecotoxicology and Environmental Safety* 153:45-53.
- **Roush, K. S., & Jeffries, M. K. S.** (2019). Gonadosomatic Index as a Confounding Variable in Fish-Based Screening Assays for the Detection of Anti-Estrogens and Non-Aromatizable Androgens. *Environmental Toxicology and Chemistry*.
- **Jordan, J, KP Singh**, and **JE Cañas-Carrell.** (2018). Carbon-based nanomaterials elicit changes in physiology, gene expression, and epigenetics in exposed plants: A review. *Current Opinion in Environmental Science & Health*, 6:29-35. \*\*\*Invited special issue submission
- **Cano A**, JD Maul, M Saed, F Irin, SA Shah MJ Green, AD French, **DM Klein**, and **JE Cañas-Carrell.** 2018. Trophic transfer and accumulation of multiwalled carbon nanotubes in the presence of copper ions in *Daphnia magna* and fathead minnow (*Pimephales promelas*). *Environmental Science and Technology*, 52(2): 794-800.
- Brüniche-Olsen, A., Urban R, J., Vertyankin, V.V., **Godard-Codding**, C.A.J., Bickham, J.W., DeWoody, A. (2018). Genetic data reveal mixed-stock aggregations of gray whales in the North Pacific Ocean. *Biological Letters*, 14.
- **Godard-Codding, C.**, and Collier, T. (2018). The effects of oil exposure on cetaceans. In *Marine Mammal Ecotoxicology: Impacts of Multiple Stressors on Population Health*. Eds. Fossi, M.C., and Panti, C. Elsevier Academic Press.
- **Godard-Codding, C.**, and Fossi, M.C. (2018). Field sampling techniques and exotoxicological biomarkers in cetaceans. In *Marine Mammal Ecotoxicology: Impacts of Multiple Stressors on Population Health*. Eds. Fossi, M.C., and Panti, C. Elsevier Academic Press.
- **Klerks, P.L., Kascak, A.**, Cazan, A.M., Adhikary, N.D., Chistoserdov, A., Shaik, A., Osman, S., & Louka, F.R. (2018). Effects of the Razor Clam *Tagelus plebeius* on the Fate of Petroleum Hydrocarbons: A Mesocosm Experiment. *Archives of environmental contamination and toxicology*, 1-10.
- Chen, H., Guo, Z., Zhou, Y., Li, D., Mu, L., **Klerks, P.L.**, Luo, Y., & Xie, L. (2018). Accumulation, depuration dynamics and effects of dissolved hexavalent chromium in juvenile Japanese medaka (*Oryzias latipes*). *Ecotoxicology and environmental safety*, 148, 254-260.

## Looking for a job?

- **Lab technician/ Research Assistant:** Looking for personnel who can run a nutrient autoanalyzer (SEAL AA3). Boston University, Department of Earth and Environment, Department of Biology, [www.fulweilerlab.com](http://www.fulweilerlab.com). Please contact Wally Fulweiler for more details: [rwf@bu.edu](mailto:rwf@bu.edu); 617-358-5466
- **Environmental Scientist:** Edwards Aquifer Authority, Job posting PVA# 08-18. Application will be accepted through 4:30 p.m. Friday, April 13, 2018. Completion of an application is required. Applications may be obtained from our website, [www.edwardsaquifer.org](http://www.edwardsaquifer.org), at the Edwards Aquifer Authority located at 900 Quicy, San Antonio, TX 78215 or by calling (210) 222-2204.
- **Toxicologist I:** Conducts toxicological reviews and risk assessments for the Toxicology Division of the Texas Commission on Environmental Quality (TCEQ). Job Posting #19069. Work Location: 12100 Park 35 Circle, Austin, TX 78753. Email a State of Texas application to [jobs@tceq.texas.gov](mailto:jobs@tceq.texas.gov) or mail to TCEQ Human Resources & Staff Services, P.O. Box 13087, MC-116 Austin, TX 78711-3087.
- **Environmental Intern:** Georgia-Pacific, Corrigan, TX. This position works within the Environmental Department assisting to ensure that the facility is following state and federal regulations as well as company compliance policies and procedures such as Georgia Pacific's Environmental Compliance Standards in the areas of Air, Storm Water, Wastewater and Waste management. Find more information at <http://k.rfer.us/KOCHjnPQdW>.
- **Technical Writer - Environmental Science and Geology:** Kleinfelder, Houston, TX. Job ID# 51445. Work with a dynamic team of environmental professionals to develop and implement innovative technical solutions for the projects. Apply at Kleinfelder's website [http://jobs2.smartsearchonline.com/kleinfelder/jobs/process\\_jobsearch.asp#](http://jobs2.smartsearchonline.com/kleinfelder/jobs/process_jobsearch.asp#)

More job postings are available at the SETAC Career Center website:  
<https://jobs.setac.org/>