

South Central SETAC 2019 Meeting Program

Friday, May 3

7:00 pm – 9:00 pm Dinner Social Place: Coach's xXx Smoke, Downtown Waco

Saturday, May 4

7:30 am – 8:30 am Breakfast Place: Mayborn Museum Complex

8:30 am – 9:00 am Welcome Session

9:00 am – 10:30 am Platform Session 1 *Chairs: Kendall Scarlett, Lea Lovin*

9:00 am – 9:15 am **Connecting developmental thyroid disruption to impaired reproductive success in fathead minnows (*Pimephales promelas*)**
Abbey Johnson, Peter Bruns, Matt Hale, Marlo K. Sellin Jeffries

9:15 am – 9:30 am **The impacts of developmental thyroid disruption on immune function and the immune response in the fathead minnow**
Leah M. Thornton Hampton, Miranda G. Finch, Barney J. Venables, Marlo K. Sellin Jeffries

9:30 am – 9:45 am **Spatiotemporal endocrine disruption activity in an effluent-impacted river under low instream flow: integrating field and laboratory assessments**
Marco E. Franco, S. Rebekah Burket, Jaylen Sims, Lea Lovin, Craig Ashcroft, Michael Luers, Bryan W. Brooks, Ramon Lavado

9:45 am – 10:00 am **Validating methods for the assessment of neurological function in larval fathead minnows**
Julie Krzykwa, Gabby Lamanteer, Marlo K. Sellin Jeffries

10:00 am – 10:15 am **Uncovering the effects of thyroid disruption on immune function and development in larval fathead minnows**
April Tran, Marlo K. Sellin Jeffries

10:15 am – 10:30 am **Geospatial analysis of hurricane Harvey on soil and water characteristics of Buffalo and Brays Bayou watersheds in Harris county, Texas**
Titilope Bukunmi-Omidiran, Maruthi Sridhar Bhaskar

10:30 am – 11:00 am Coffee Break

11:00 am – 12:00 pm Platform Session 2 *Chairs: Kendall Scarlett, Lea Lovin*

11:00 am – 11:15 am **Sorption of nonsteroidal anti-inflammatory drugs (NSAIDs) to microplastics under freshwater, seawater, and acidified water conditions**
Armando Elizalde, Todd A. Anderson, Micah J. Green, Xiaofei Zhao, Jaclyn E. Cañas-Carrell

11:15 am – 11:30 am **Pharmaceuticals in bivalves: bioaccumulation patterns and research needs**
S. Rebekah Burket, Bryan W. Brooks

- 11:30 am – 11:45 am **Lethal and sublethal responses of *Lepidophthalmus louisianensis* to crude oil exposure**
Alex Kascak, Paul Klerks
- 11:45 am – 12:00 pm **Applicability of a human cell co-culture model to evaluate the toxicity of chemical mixtures in seafood**
Grace E. Sutherland, Marco E. Franco, Ramon Lavado
- 12:00 pm – 1:30 pm Lunch Break
- 1:30 pm – 3:00 pm Platform Session 3 *Chairs: Marco Franco, Bekah Burket*
- 1:30 pm – 1:45 pm **Interactive effects of copper oxide nanoparticles and Arsenic on rice (*Oryza sativa japonica* ‘Koshihikari’) plant growth and development**
Jing Liu, George P. Cobb
- 1:45 pm – 2:00 pm **Dietary nutrient (C:P) modulate cadmium toxicity in aquatic systems at two trophic levels**
Olushola Awoyemi, Kelsey N. Thompson, Anahi Velazquez, Md Nazmul Hassan, Angela Peace, Gregory D. Mayer
- 2:00 pm – 2:15 pm **Environmental fate and transport of titanium dioxide nanoparticles in municipal wastewater effluent in outdoor stream mesocosms**
Benjamin T. Castellon, Leanne F. Baker, Preston S. Watkins, George P. Cobb, Ryan S. King, Cole W. Matson
- 2:15 pm – 2:30 pm **Mercury concentrations in fishes from the upper Parana River basin, Brazil**
Corey S. Green
- 2:30 pm – 2:45 pm **Effect of body size on mercury concentration in shoreline spiders**
Madeline Hannappel, Ray Drenner, Matt Chumchal, Jim Kennedy
- 2:45 pm – 3:00 pm **Methylmercury contamination and diet of nestling red-winged blackbirds**
Thomas Thalhuber, Ray Drenner, Matthew Chumchal, Celeste Rodriguez-Ortega, James Kennedy, Shannon Speir, Gary Cocks, Megan Lewis, Holly Whitt, William Zudock, Manton Willoughby
- 3:00 pm – 3:30 pm Coffee Break
- 3:30 pm – 4:30 pm Platform Session 4 *Chairs: Marco Franco, Bekah Burket*
- 3:30 pm – 3:45 pm **Electron beam irradiation to remediate microcystins in drinking water treatment processes**
Alexandra M. Folcik, Cory Klemashevich, Suresh D. Pillai
- 3:45 pm – 4:00 pm **Linking changes in HAB chemical 'fingerprints' with varying toxicological responses**
Raegyn B. Taylor, Bridget N. Hill, Jonathan M. Bobbitt, Amanda S. Hering, Bryan W. Brooks, C. Kevin Chambliss
- 4:00 pm – 4:15 pm **Non-targeted analysis directed molecular initiating events prediction: an integrated approach**
Naveen Kumar, Jordan Crago
- 4:15 pm – 5:30 pm Poster Social
- 6:00 pm – 9:00 pm Social Dinner Place: Lake Waco Wetlands

Sunday, May 5

9:00 am – 10:00 am Breakfast Place: Baylor Science Building

10:00 am – 12:00 pm Executive Meetings