**Call for Abstracts for Platform and Poster Presentations**

The Ohio Valley Chapter of SETAC is proud to offer this opportunity for scientists and students to present their work at a regional professional meeting of toxicologists, chemists, environmental engineers, risk assessors, and policy experts.

This year, the Ohio Valley Chapter (OVC: [www.ohiovalley.setac.org](http://www.ohiovalley.setac.org)) of the Society of Environmental Toxicology and Chemistry (SETAC: [www.setac.org](file:///C%3A%5CUsers%5Cdhenshel%5CAppData%5CLocal%5CTemp%5Cwww.setac.org)) will be co-sponsoring this meeting along with the University of Cincinnati College of Engineering and Applied Science (<https://ceas.uc.edu/>) and College of Arts and Sciences (<https://www.artsci.uc.edu/>). We are inviting abstracts for platform or poster presentations for the regional meeting to be held at the **University of Cincinnati Tangeman University Conference Center** located at 2766 UC MainStreet, Cincinnati Ohio 45221 on **April 9th and 10th, 2020**.

On Thursday April 9th, a Keynote Address will be provided by Dr. Dionysios Dionysiou, Professor in the College of Engineering and Applied Sciences at the University of Cincinnati. Platform presentation sessions will follow. A poster session will be held on Friday April 10th. Platforms will follow the 12-minute presentation plus 3-minutes for questioning format.

The theme of the meeting is: **Engineering-Science-Policy interdisciplinary solutions to complex environmental and human health challenges**. Presentations on all topics in environmental engineering, toxicology, and chemistry, including environmental policy, wastewater and drinking water treatment technologies and risk assessment, are acceptable and will be considered regardless of focus. The meeting is designed to promote the dissemination of information from current research concerns, priorities, potential risks, and management strategies. Awards will be presented for the best student presentations.

**Estimated\* Registration Costs:** Please see the registration form on the OVC meeting webpage for more details on the meeting and how to register. Please direct questions to Angela Schmidt @502-315-6313 or via email at Angela.L.Schmidt@USACE.Army.mil

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| --- | --- | --- |
| Membership Type | OVC Member | Non-member\* |
| Full Meeting | One-day | Full Meeting | One-day |
| Professional | $60 | $50 | $80 | $65 |
| Post-doc researcher/fellow  | $25 | $20 | $40 | $35 |
| Recent graduate (obtained degree within last three years) | $25 | $20 | $40 | $35 |
| Graduate student | $15 | $10 | $30 | $25 |
| Undergraduate student | FREE | FREE | FREE | FREE |

**\*Costs are estimated, final costs will be determined in early 2020.**

**Abstract Submission:** Graduate and undergraduate students, post-docs, and area scientists who would like to present a platform or poster presentation of their research should submit an abstract following the guidelines below. Submit abstract electronically (non-PDF format, such as Microsoft Word) to the Ohio Valley Chapter (ovc.setac@gmail.com) with the Subject Line: 2020 OVC Abstract Submission. Abstract submission requirements and format are presented below. **Please indicate if you prefer to give a platform presentation on Thursday or Friday in the e-mail.**

**Deadline for Submission of Abstracts:** Receipt by 5:00 PM EST, Monday March 16th, 2020.

**ABSTRACT SUBMITTAL GUIDELINES**

Abstracts are to be no more than 300 words. Include at the top of the file the following information:

1. Author list. List all authors of paper and provide last name, first initial, and second initial for each author.

2. Key words. List four key words to be used to assign your paper to a session.

3. Presenting author. Please indicate if presenting author is an Undergraduate student, Master’s student, PhD student, or Professional (includes Postdoctoral).

4. Specify preference for PLATFORM (12 minutes plus 3 minutes for questioning) or POSTER presentation. Students are encouraged to submit platform and poster presentations.

5. If you are submitting an abstract for a platform presentation, indicate preference for a THURSDAY or FRIDAY presentation. Please let us know if you cannot attend one of the two days.

*Presentations should be prepared for use with PowerPoint at 16:9 (widescreen) in a PC compatible format.*

*Poster Guidelines should follow those of SETAC NA (https://sacramento.setac.org/scientific-program/abstract-submission/presentation-guidelines/#poster)*

6. Author to contact (we suggest that this be the presenting author).

* Institution
* Complete mailing address
* Phone number and FAX number
* E-mail address

7. Skip a line and follow the format shown in the example exactly. In particular:

* Type the title of the abstract in bold.
* For the authors, list the first initial, middle initial, last name, and affiliation.
* In cases of two or more authors, place an asterisk (\*) after the name of the person presenting the platform or poster.
* Include the name of the institution and the city and state, but not the department affiliation or street address.

8. Without skipping a line, begin the text of the abstract. DO NOT INDENT any part of the abstract. The text should be a single paragraph.

Please don't hesitate to contact us (ovc.setac@gmail.com) if you have any questions or comments regarding your abstract submission.

Thank you,

The Ohio Valley Chapter of the Society of Toxicology and Chemistry (SETAC)

**EXAMPLE ABSTRACT**

Armstrong, B.M.\*

McNaught, S.

Mora, F.X.

Klingler, R.

Carvan, M.J.

Basu, N.

Head, J.

Murphy, C.A.

Key words: mercury, fish behavior, *Perca flavescens*, modeling

Presenting author: Brandon M. Armstrong (Professional)

Platform or poster preference: Platform

Platform Preference: Thursday; attending both days

Author to contact: Brandon M. Armstrong

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**Linking behavioral effects of methylmercury to adverse population outcomes in yellow perch using an individual based model.** Armstrong, B.M.\* 1, McNaught, S. 2, Mora, F.X. 3, Klinger, R. 3, Carvan, M.J. 3, Basu, N. 4, Head, J. 4, Murphy, CA. 1; 1 Michigan State University, East Lansing, MI, 2 Central Michigan University, Mount Pleasant, MI, 3 University of Wisconsin-Milwaukee, Milwaukee, WI, 4 McGill University, Montreal, Canada.

Yellow perch populations in Lake Michigan declined in the 1990s which was attributed to consecutive year-class failures following changes in trophic structure and adverse habitat conditions. The potential effects of contaminants on yellow perch recruitment have not been explored fully either in isolation or in combination with other stressors. Methylmercury (MeHg), a persistent contaminant found in the Great Lakes, has been shown to alter foraging and predator avoidance behaviors of larval yellow perch, which could affect their recruitment. We adapted a larval fish individual based model (IBM) to incorporate laboratory derived MeHg behavioral effects on a larval yellow perch. Effects on swimming speed and foraging efficiency simulated during a 0.21, 0.95 and 3.14 μg/g total mercury (THg) whole embryo tissue exposure resulted in a 13.8 %, 87.7 %, and 64.6 % decrease in survival in a Lake Michigan larval yellow perch cohort, respectively, relative to a MeHg absent simulation. While our experimental THg concentrations were higher than those typically found in Lake Michigan, our findings suggest that exposure to neurotoxic contaminants such as MeHg, when coupled with low food availability and suboptimal water temperatures, could be an additional factor impacting recruitment of yellow perch in Lake Michigan, and that this deserves further exploration.