MISSION STATEMENT

Serving the Chesapeake-Potomac Region (Maryland, DC, Virginia, and West Virginia), our chapter of SETAC North America (SNA) provides a professional forum for individuals from private industry, academia, and government agencies who are engaged in the study and analysis and solutions for environmental problems, management and regulation of natural resources, and/or research and development. We facilitate networking and educational opportunities for scientific professionals, mentoring and career guidance for students, and environmental education and outreach for the public.

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CHAPTER LEADERSHIP AND COMMITTEES

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Vice President  Paula Henry, USGS Patuxent  vice.president.cprc.setac@gmail.com
Past President  Brad Pratt, Alexandria Renew Enterprise  bradalanpratt@gmail.com
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2015 - 2017     Jennifer Flippin, Tetra Tech
2015 - 2017     Tim Iannuzzi, Arcadis
2013 – 2015     Hilda Fadaei, Student Representative, University of Maryland Baltimore County

Editor-in-Chief:  Debra Joseph
Assistant Editors:  Hilda Fadaei and Scott Lynn

WEBSITE  cprcsetac.wordpress.com/
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Improving communications and outreach to CPRC members. Committee Chair: Scott Lynn
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EVENT PLANNING COMMITTEE
Organizes event themes, agenda, keynote speakers, and logistics. Committee Chair: Paula Henry
cprcsetac.wordpress.com/get-involved/event-planning-committee

STUDENT OUTREACH COMMITTEE
Increase student involvement and participation in society at large. Committee Chair: Lance Yonkos
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THE PRESIDENT’S CORNER

The CPRC Board and Executive Committee have been hard at work over the winter preparing for an exciting year of CPRC initiatives and events. I’m thrilled to be working with such a creative and dedicated group of people. We ended 2014 on a high note thanks to the exceptional leadership of CPRC in 2014 by Brad Pratt. Brad’s vision for CPRC is inspiring and we are lucky to have such an enthusiastic Past-President. I would also like to recognize the hard work of Wendy Hillwalker and Paula Henry, whose terms as CPRC Board members ended in 2014. In their place we gained the very capable and diligent Jennifer Flippin and Tim Iannuzzi; welcome! I’m also very pleased we were able to keep Paula around as our Vice President for 2015.

Our biggest event of the year, the Annual Spring Meeting, is fast approaching on April 24-25, 2015 in Columbia, MD. The meeting will be at the Robinson Nature Center, a beautiful facility situated on 18 acres of land adjacent to the Middle Patuxent Environmental Area. I think you will enjoy exploring this LEED Certified Platinum facility, which incorporates geothermal heating/air-conditioning, porous paving, a green roof, solar panels, innovative water conservation methods, and a host of other features. Friday, April 24th will include a full day of poster and platform presentations from CPRC students and professionals. Unwind and network with us following the meeting on Friday at the Ellicott Mills Brewing Company, and on Saturday morning join us back at Robinson for a conservation stewardship activity. I look forward to seeing you there.

This year, I encourage all of you to get more involved with CPRC and to help ensure it is serving your needs. Is there a speaker you would like to hear from? A short course you would like to take or teach? An article you would like to write? Or a committee you would like to join, or perhaps create? Your ideas and input are welcome; you can contact me anytime at president.cprc.setac@gmail.com. Thanks to all of you who are already donating your time to help CPRC create exciting opportunities for environmental toxicology and chemistry professionals and students in our region.

Check out the rest of the newsletter for updates on CPRC activities; and please take note of our 2015 sponsors, who help CPRC serve our membership and our communities.

Elyssa Arnold
CPRC President
NEW MEMBERS OF THE CPRC LEADERSHIP TEAM

Paula Henry, Vice President

After receiving a BA in French literature and art history from Reed College, Paula Henry switched her focus to the sciences. She attended the University of Maryland, College Park where she received a MS in endocrinology from the Department of Zoology and a PhD in toxicology from the Marine Estuarine Environmental Sciences program. She now works as a research physiologist with the USGS Patuxent Wildlife Research Center in Maryland. Although Paula’s research primarily focuses on effects of environmental contaminant exposure on birds, amphibians, and reptiles, she had the amazing opportunity to lead a multi-year USGS field survey and research study investigating terrapin populations in the Chesapeake Bay watershed. Currently she is studying multigenerational effects of endocrine disrupting chemicals in wildlife, and developing cross-species in ovo assays for environmental contaminants. Paula was the recipient of CPRC’s very first Student Award and has since been a member of both SNA and CPRC. Paula served as a board member for CPRC for the past 3 years; and as Vice President she is looking forward to fostering interactions between the student and professional science communities.

Jennifer Flippin, Board Member

Jennifer Flippin is a Senior Ecotoxicologist at Tetra Tech in Owings Mills, MD. Her work focuses on issues related to aquatic science, ecotoxicology, human toxicology, and water quality criteria. Prior to coming to Tetra Tech, she worked intensively with issues related to endocrine disruption and mixture toxicity at the EPA in Research Triangle Park, NC, and metal uptake in aquatic insects at North Carolina State University. She holds a BS in biology from West Virginia University and an MS in Environmental and Molecular Toxicology from North Carolina State University. Outside of work, she enjoys the outdoors and kayaking the rivers within the Chesapeake Bay drainage and beyond. Jennifer first became involved with CPRC-SETAC in 2004 as an undergraduate at WVU and later served as a student representative with the Carolinas SETAC chapter. She has attended the annual SETAC meeting since Montreal in 2006. As a board member, Jennifer hopes to reach out to students and early professionals to encourage participation in local chapter meetings and create networking events that enhance the experience of those just beginning their career in environmental toxicology and chemistry.
**Tim Iannuzzi, Board Member**

Tim Iannuzzi is a Senior Vice President and Principal Scientist at ARCADIS, an international science and engineering consulting firm. His office is located in Annapolis, Maryland. Tim is a long-term member of SETAC, having joined in 1991. Tim is also a Past President of CPRC SETAC and served as a board member for a number of years. Tim is an environmental scientist with more than 25 years of experience conducting ecological risk/impact assessments, natural resource damage assessments, biological monitoring and ecological restoration. He has taught ecological risk assessment courses at the University of Maryland and related short courses and seminars at various scientific venues, including annual SETAC North America and Europe meetings. Tim’s interest in CPRC is in networking with local colleagues and students, and helping to advance the chapter via regional meetings, student advancement and support, and education opportunities.

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**BEFORE ARGUING WITH THE FLIGHT ATTENDANT THAT YOUR POSTER REALLY IS CARRY-ON BAGGAGE . . . JOIN YOUR CPRC COLLEAGUES FOR A HAPPY HOUR**

*By Elyssa Arnold, US EPA*

A small but enthusiastic group of CPRC members gathered at the Madhatter bar on Dupont Circle in Washington, DC for a pre-Vancouver happy hour on November 5th. We had a great time catching up with old friends and meeting new colleagues. This will be an annual event where CPRC members can reconnect and network in an informal setting prior to the SETAC North America national meeting. Everyone is encouraged to attend, whether you will be traveling to the national meeting or staying in the region.
THE 2015 CPRC SETAC ANNUAL SPRING MEETING

Friday April 24, 2015, 9:00 AM – 5:00 PM
Robinson Nature Center, Columbia, MD

CPRC SETAC’s annual spring meeting brings together professionals and students in environmental toxicology and chemistry to present their research and to discuss ongoing and emerging issues in the region. Registration is open! Meeting registration information as well as a full agenda can be found on the CPRC SETAC website at cprcsetac.wordpress.com/meetings-and-events/2015-cprc-annual-spring-meeting/. Registration includes breakfast, lunch, and breaks. The Early Bird deadline is April 17th.

This year’s keynote speaker is Mr. James M. Harkins, the Director of Maryland Environmental Service, an independent state agency that operates hundreds of environmental projects including water and wastewater treatment plants, recycling facilities, landfills, and dredged material containment facilities. Jim is a former Harford County Executive and a two-term member of the Maryland House of Delegates. We are also pleased to welcome SETAC NA President Mary Reiley, a CPRC SETAC member and the National Water Program’s Senior Research Coordinator at the US EPA.

Attendees are encouraged to join us on Friday evening from 5:30-7:30 at the Ellicott Mills Brewing Company (www.ellicotmillsbrewing.com) for a post-meeting happy hour. See our website for directions.

On Saturday April 25th from 10:00 am to 12:00 pm we will return to the Robinson Nature Center to plant trees or remove invasive species; friends and families are welcome! Tools, gloves, and refreshments will be provided. A volunteer form and more details are available on our website.
GRADUATE STUDENT RESEARCH HIGHLIGHT: BALD EAGLE BIOMONITORING

By Kendall L. Simon, PhD Candidate, University of Maryland

As a first-day field technician, I struggled to draw blood from the fuzzy bald eagle nestling wriggling to free himself from my shaking hands. I would never have imagined that experience, and the chest-high swamp hike to follow, to lead to my graduate studies and eventual career as a wildlife toxicologist. I was trained to be a team member for the Michigan Bald Eagle (Haliaeetus leucocephalus) Biosentinel Monitoring Program the summer after my freshman year at Michigan State University. A field season for this program involves 2-3 teams that visit as many as 140 bald eagle nests throughout Michigan during May and June. Team roles include “climbers” and “bleeders”, and in addition to drawing blood for my first few field seasons, I also banded (Figure 1), collected feather samples, and took several biometric measurements of the nestlings that were lowered down from the nest in a lightweight nylon bag by the climber. As a climber, I particularly enjoy the reactions of the nestlings as I first appear over the edge of their nest, ranging from “feed me” peeps to threatening hopping and flapping, as if the nest were a boxing ring. We sample nestlings that range from 3 weeks to 9 weeks and weigh roughly 3 kg (Figure 2) to 4.5 kg (Figure 3), respectively, so my reception into the nest grows progressively unwelcomed with the age of the chicks. Field teams are supplied information on the occupancy and productivity of active breeding areas by aerial surveys. These surveys are conducted by the Michigan Department of Natural Resources during the spring egg-laying and incubation period. An initial survey is done in March/ April to record which nest breeding pairs are using within their breeding areas and a second survey is done in April/May to determine nest success or failure.
Bald eagles are tertiary predators with a mainly piscivorous (fish-eating) diet, making them an ideal sentinel species to assess contaminant levels in the Great Lakes Basin. The average core home range for adult nesting bald eagles during the breeding period is approximately 4.9 km²; meaning contaminants accrued from forage ranges are limited to local watersheds (Watson 2002). The bald eagle population in Michigan has undergone a significant recovery following the ban of organochlorine pesticides, however, population productivity is not consistent throughout the state. Historically, eagles nesting within 8.0 km of the Great Lakes shorelines have greater PCB and p,p'-DDE concentrations, and decreased productivity rates than those nesting in more interior regions. As a result, coastal breeding areas acted as a “population sink” while interior breeding areas are a “population source” (Bowerman et al. 2003). As part of my M.S. research under Dr. Bill Bowerman at the University of Maryland, I modeled the spatial and temporal productivity patterns of inland versus Great Lakes shoreline breeding areas. The model showed that Great Lakes breeding areas, most notably Lake Michigan and Lake Huron, became more productive than inland breeding areas from 2006-2010 (Figure 4). I also explored the possibility that Great Lakes breeding pairs, despite increases in productivity, are experiencing chronic residual reproductive effects from contaminant exposure.

The data indicated that the total length of time that Great Lakes shoreline breeding pairs are reproductively capable has shortened. In addition, these pairs are less successful per reproductive attempt (Simon 2013). This decrease in reproductive fitness may be the result of either in ovo, or early developmental exposure, leading to ‘second generation’ effects, or chronic lifetime exposure. The low reproductive fitness indicated in our results, yet high productivity of Great Lakes breeding areas could be suggestive of a high turnover rate.
within the Great Lakes breeding population from inland areas, Wisconsin, Minnesota, or Canada. This constant turnover of breeding pairs may overshadow any underlying long-term effects or decreases in Great Lake shoreline reproductive fitness caused by environmental contaminants. Currently our lab is extracting a suite of organochlorines from blood plasma, and mercury from feather samples collected during the 2009-2014 field seasons. We also plan to analyze these samples for flame retardants in the fall.

![Graph showing productivity of Great Lakes and inland breeding areas in Michigan](image)

**Fig. 4**  Bald eagle productivity (fledged young/occupied breeding area) between Great Lakes and inland breeding areas in Michigan by five year periods, 1961-2010.

**Works Cited:**


LEARNING TO ASK GOOD QUESTIONS

By Mary Reiley, SNA President

"When you are a student you are judged by how well you answer questions. But in life, you are judged by how good your questions are. You want students and postdocs to transition from giving good answers to asking good questions. Then they'll become great professors, great entrepreneurs, great something."

This is a quote from an interview by freelance writer Trisha Gura with Robert S. Langer and published in the November 28, 2014, edition of Science. I skim Science each week when it shows up in my mailbox. I say skim because to read the entire publication each week would require ignoring my spouse and children, not going to work, and excluding all other activities and endeavors from my daily life! When I skim Science I'm reading titles and asking how they might tie into my interests in environmental sciences, organizational operations, communication, and leadership development. The title of the interview with Dr. Langer was The art of entrepreneurship and there was a bold italicized quote in the center: “Don’t sacrifice publishing good science to be secretive.” Thus the interview caught my eye and I stopped my skim to read.

Turns out Dr. Langer, the David H. Koch Institute Professor at MIT in Cambridge, is the most cited engineer in history (more than 163,000 citations). He holds more than 1000 patents, licensed or sublicensed to more than 300 companies and he has helped found at least two dozen biotechnology companies (from the lead to the published interview). I was intrigued.

The interview was an interesting and entertaining read. But it was the quote near the end of the interview (the lead to this article) that made me stop and think: Do I ask good questions? Am I selling myself short by not asking better questions? Am I mentoring the junior staff I work with, the students that intern with me, my own kids, to ask good questions? How good am I at asking beyond the obvious and encouraging others to do the same? I know I can give good answers or confirm that I don’t know but will find out -- I’m well trained in that art. But, am I really thinking and questioning for insight and growth? To be a “great something”?

Isn’t this what we hope for all of SETAC’s students? Heck, for all of SETAC’s members? That we all become "great somethings"? It is one of the principal purposes of Regional Chapters, Advisory Groups, Committees, SNA, and SETAC - to train new scientists, to help them establish a network of peers and established scientists that will be their associates, collaborators, mentors, and friends. To help them connect with people that will help them be great. As they learn to ask good questions our own competency grows as well. It’s like drafting in NASCAR (I’m showing my colors here). Those we dedicate time to work with, encourage, and push, or even sometimes drag kicking and screaming, gather speed and we fling them forward with
confidence that the skills they've acquired and those they'll learn navigating the mix will serve them well, enable them to be "great somethings", make us proud, challenge us, and make us better.

SNA and SETAC commit a lot of resources to this goal. In fact, two of SNA’s Core Challenges in its Long Range Plan are, in shorthand: To be the environmental society of choice in North America - that is, our members like being members and non-members wish they were members and To be the go-to society in North America for environmental sciences expertise - that those looking for expertise to help solve environmental problems think of SNA first. The SNA Board of Directors (BOD) has asked a good question to themselves and you, the members of SNA. What can we do, as a Society, to meet these challenges? And great ideas have been coming back and are being acted on.

Most recently the SNA BOD, the Chemistry Advisory Group, the SNA Membership Committee, SETAC Europe, and SETAC World Council all contributed financially or committed resources or expertise to support the Young Environmental Scientists (YES) conference being held in Serbia in March. YES is a science convention put on by students for students. There is no cost to students to attend the annual meeting; all expenses are covered by the fund raising of the organizing committee (also made up of students). The students spend the week not only sharing their research but also taking soft-skills classes and networking. Next year YES will be held in North America for the first time and the members of SNA’s NASAC (North American Student Advisory Council) started organizing for the event over a year ago.

For the last several years the SNA Career Development Committee and the Membership Committee have been matching first time annual meeting attendees with veteran participants through the Buddy Program. Remember how overwhelmed you felt at your first 3,000 person annual meeting? Buddies help first time attendees navigate the meeting, make introductions to their network of investigators and mentors, encourage them to participate in Advisory Group and Committee Meetings, and provide general mentorship to help with platform and poster presentations at the meeting, career direction, and critical thinking. The Buddy Program has been so successful we often have to double up to make sure all of the interested first time attendees get a Buddy. The Program was picked up by SETAC Europe last May in Basel with the same success.

Recently, each SNA member received an email from Alan Samel, Chair of the SNA Science Committee, asking you to update your profile on the SETAC website. Why? For several reasons, but most recently because as part of our effort to provide opportunities for SNA members to get their expertise recognized, we have signed a Memorandum of Understanding with the Strategic Science Group (SSG) out of the US Geological Survey (USGS) and Department of Interior (DOI). As part of the SSG, SNA will work with our membership to find experts within our ranks to respond to request for science support during natural disasters,
environmental emergencies, development of expert testimony, and other similar activities. If your profile isn’t accurate, we can’t put you in touch with those who are looking for your expertise.

Keep asking good questions of yourself, your students, your mentors, of SNA and SETAC. I’ll keep trying to do the same myself and with your SNA BOD. I truly want to see that each of us, and SNA, are on track to become “great somethings”.

Best,

Mary

To keep abreast of SNA and SETAC activities and initiatives and her ramblings, follow Mary on the SNA President’s Blog: www.setac.org/blogpost/1224232/SETAC-North-America-President-s-Blog


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CPRC GOES TO VANCOUVER

REPORT OF THE CPRC MEETING HELD AT SETAC, NOVEMBER 2014

By David J. Kent, Science Traveler

The Chesapeake-Potomac Regional Chapter (CPRC) of SETAC held its annual in-person meeting on November 11, 2014 during the SETAC meeting in Vancouver, BC. Past-President David J. Kent chaired the meeting, with over 20 CPRC members in attendance. As always we get a chance to engage in the kind of open discussions that are not generally possible during our monthly Board call.

We also summarized our plans for 2015, which include first and foremost our annual spring meeting scheduled for April 24th at the Robinson Nature Center in Columbia, MD. See the article in this newsletter and the CPRC website for more details (hint: sign up now!). Plans for winter and fall dinner meetings, spring and fall newsletters, various happy hours, and other ideas for maximizing the benefits of CPRC to our members were also discussed.

A highlight of our CPRC in Vancouver was the awarding of our two student travel awards. Alex MacLeod and Heather Govenor each received certificates and a check for $250. Congratulations to all our student winners this year. Be sure to watch our emails, Facebook, Twitter, and CPRC website for details (including student awards to be handed out at our spring 2015 meeting).

We also discussed openings for new Board positions and are happy to welcome Jennifer Flippin and Tim Iannuzzi to the CPRC Board.

Finally, we opened up the floor to the membership who offered many great ideas for the future, including more frequent communication and updates through emails, social media, and the CPRC website. There also is a desire to increase the digital communications and short courses at the chapter level; SETAC-NA is currently working on this and CPRCer Diana Eignor will communicate ideas to the chapter. More effort toward mentoring is also a desire. All ideas are being explored further by the Board and implemented as possible.

Which gets us to the Annual CPRC Spring Meeting to be held on April 24, 2015 at the Robinson Nature Center in Columbia, MD. This is a new location for us and the site promises to be a wonderful addition to our annual adventures. See you at Robinson!
The Vancouver skyline, reflected in the Centre walls. *Photograph by Sharon Hartzell*

The Vancouver Waterfront, visible from the Convention Centre. *Photograph by Sharon Hartzell*
SETAC VANCOUVER: THE STUDENT EXPERIENCE

By Sharon Hartzell, MS Student, University of Maryland

The 2014 SETAC National Meeting brought together over two thousand environmental professionals and students in Vancouver, BC to share stunning scenery, exceptional seafood, and groundbreaking science. Staying true to SETAC’s tripartite character, the meeting featured platform presenters from government, industry and academia, and covered topics ranging from advanced analytical chemistry techniques to the complexities of regulatory decision-making. By presenting cutting-edge research, inspiring broad conversations on science and policy, and offering unparalleled mentorship opportunities, SETAC Vancouver proved that now is an exciting and rewarding time to work in the environmental field.

For students in particular, there was no shortage of professional development opportunities offered at the meeting. One particular highlight was the Student/Mentor Lunch, organized by NASAC, the North American Student Activities Committee. This event placed students at lunch tables with established professionals of SETAC, who shared their wisdom and experience in the field of environmental toxicology and chemistry. On Wednesday, NASAC organized a Student Noontime Seminar, with a special focus on careers. The event featured speakers from government, academia and industry, who recounted their career journeys and shared valuable perspectives on each major sector of the environmental field. Following the event, NASAC held an open assembly to discuss upcoming plans for the group, including the Young Environmental Scientists Meeting, held in Serbia in early March. That evening, NASAC took inspiration from the SETAC student group in Europe, and organized the first annual North American student party at the Portside Pub. Students talked and networked into the night, sampled a great selection of craft beers, and proved that scientists are, indeed, great dancers.
The many mentorship and professional development sessions at SETAC Vancouver gave both students and professionals the opportunity to supercharge their careers. This year’s meeting offered a professional training course entitled Resumes, Interviewing and Networking: How to Become Employed in Environmental Toxicology and Chemistry. The course, featuring speakers from industry, government and academia, covered all aspects of the job search and gave students and jobseekers the opportunity to gain feedback on their own resumes from professionals in the field. The Professional Development Committee also organized a Career Networking Reception for scientists at all stages of their careers, while female scientists gained valuable career advice at the annual Women in SETAC Luncheon.

SETAC, of course, is never just about the science. Sessions throughout the meeting brought attention to current environmental issues, and connected environmental research with policy implications. The meeting featured sessions on the environmental impacts of Canadian Oil Sands Development, as well as on the aftermath of the Deepwater Horizon oil spill. The meeting’s keynote speakers also drew attention to the interdisciplinary nature of the environmental field, and the intersection between science and broader societal questions. Tuesday’s speaker, professor and author Wade Davis, recounted his research and writing experiences in the Pacific Northwest and highlighted the challenges of balancing social values with environmental preservation. On Wednesday night, Robert T. Lackey discussed scientists’ role in informing policy, sparking a lively debate among the audience members about the risks and responsibilities of scientists who choose to engage in the policy arena.

‘Variety’ applied to more than just the sushi platters at SETAC Vancouver. With thousands of platform sessions and dozens of professional development opportunities to choose from, it is safe to say that no two attendees had an identical experience at the meeting. The meeting’s keynote speakers and the discussions they inspired also drew attention to the diversity of opinions on science and policy represented within the environmental toxicology and chemistry field. However, it is likely that all attendees could agree on one thing – the views were truly spectacular!
Name: **Heather Govenor**

University: **Virginia Tech University**

Department: **Biological Systems Engineering**

Type of Degree: **PhD Candidate**

Award: **$250**

Presentation: **Poster (TP096): Sediment as a Surrogate for Multiple Stressors in Freshwater Ecosystems: Digging Deeper to Reveal the Nature of Benthic Invertebrate Impairments**

My research focus is on the impact of clean sediment on benthic macroinvertebrate communities in freshwater streams. Currently the most common remediation goal set for these impairments involves a reduction in sediment loading (mass/time) into the stream in question; however, sediment is associated with a variety of stream and watershed parameters, and the responses of benthic macroinvertebrates to those parameters are variable and often poorly understood. This presentation outlines the challenges of establishing sediment remediation values (total maximum daily loads) that are based on the watershed processes underlying the impairment and that are biologically relevant and likely to be effective at improving stream health.
Name: Alexander MacLeod

University: University of Maryland, College Park

Department: Environmental Science and Technology

Type of Degree: MS Candidate

Award: $250

Presentation: Poster: WP033 - Validation of a Laparoscopic Method for Collecting Testis from Largemouth Bass (Micropterus salmoides) for Non-Lethal Detection of Intersex (Testicular Oocytes)

Currently, I am a Master's student on the Ecosystem Health & Natural Resource Management track at the University of Maryland, College Park. My research focuses on developing laparoscopy as a non-lethal means of collecting testis tissue to investigate intersex in male Black Bass populations. My goal is to continue this research as a PhD candidate, exploring other applications of the tool for non-lethal tissue collection. As approaches in environmental toxicology lean increasingly toward in vitro and in situ models, it becomes increasingly important to establish the links between molecular and tissue-level biomarkers and organismal and population-level consequences. Possible research directions include adapting the technique to other tissues of interest (such as liver for metabolomics analysis); other species of interest (such as the invasive Northern snakehead to improve understanding of reproductive biology); and repetitive sampling of individual fish for longitudinal studies of contaminant impacts over time.
MEMBERSHIP APPLICATION/RENEWAL

SETAC: the Society of Environmental Toxicology and Chemistry is an independent, nonprofit professional society that provides a forum for individuals and institutions engaged in the study of environmental issues, management and conservation of natural resources, environmental education, and environmental research and development.

CPRC: the Chesapeake and Potomac Regional Chapter of SETAC is a non-profit organization started in the year 1983. CPRC’s mission is to promote the exchange of information among environmental scientists in the Mid-Atlantic States.

Note: you do not have to be a SETAC member to be a member of CPRC.

There are three ways to join/renew:

1) **Preferred Method** SETAC North America (SNA) ([tinyurl.com/cprcmember](http://tinyurl.com/cprcmember)). SNA will send us your contact info so we can add you to our chapter mailing list. You do not have to be an SNA member to use this option.

2) PayPal CPRC ([tinyurl.com/DuesCPRCpp](http://tinyurl.com/DuesCPRCpp)) credit cards accepted, no PayPal account needed. Enter appropriate fee amount ($5 student, $15 professional). Please note that it is easier for us to track your membership when you join via the SNA site (option 1 above).

3) Snail Mail: Check and money orders accepted. Please include your name, affiliation and address with your payment.

   SETAC-CPRC
   P.O. Box 153
   Severn, MD 21144
   Attn: Matthew Behum, Treasurer

If you have any difficulty with your membership application or payment, please contact Matthew Behum ([treasurer.setac.cprc@gmail.com](mailto:treasurer.setac.cprc@gmail.com)).
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Local contacts:
Stephen Geiger, Ph.D.
1776 I Street, NW, Suite 200
Washington, D.C. 20006
202-471-2129
stephen.geiger@erm.com

J. Lawrence Hosmer, P.E.
200 Harry S. Truman Pkwy., Suite 400
Annapolis, MD
410-972-0252
larry.hosmer@erm.com

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On behalf of the membership of the Chesapeake Potomac Regional Chapter (CPRC) of the Society of Environmental Toxicology and Chemistry (SETAC), the CPRC Board of Directors are asking for your support as a Corporate/Organizational Sponsor for 2015 or beyond. The benefits of sponsorship are substantial, and include (but are not limited to): fostering interaction among members (both professionally and socially), hosting scientific meetings and social events, writing and distributing a biannual newsletter, maintaining and updating our website, and funding student awards that encourage and promote research and professional development of our student members. Your support would play a key role in maintaining these activities, and help us achieve our goal of expanding the size of CPRC and the range of benefits that we can offer. We offer two formal levels corporate sponsorship with the benefits summarized below. We also welcome and recognize sponsorships focused on specific areas (for example, a student travel award) and smaller level contributions. (https://cprcsetac.wordpress.com/sponsorship/sponsorship-program/)

<table>
<thead>
<tr>
<th>2015 ANNUAL CPRC CORPORATE SPONSORSHIP CATEGORIES</th>
<th>Sustaining ($500+)</th>
<th>Associate ($250)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Logo displayed in CPRC newsletter and meetings</td>
<td>√</td>
<td>√</td>
</tr>
<tr>
<td>Logo and link to webpage on CPRC website</td>
<td>√</td>
<td>√</td>
</tr>
<tr>
<td>Complimentary CPRC meeting registration</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>Advertising in newsletter</td>
<td>Full Page</td>
<td>Half Page</td>
</tr>
<tr>
<td>Table space for distribution of promotional materials at CPRC meetings and events</td>
<td>√</td>
<td></td>
</tr>
<tr>
<td>Poster/Display space at CPRC meetings</td>
<td>√</td>
<td></td>
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<tr>
<td>Job postings in newsletter, email blasts, and CPRC website</td>
<td>√</td>
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</tbody>
</table>

To become a sponsor, please remit payment (payable to CPRC-SETAC) with your company and contact information to:

SETAC-CPRC
P.O. Box 153
Severn, MD 21144
Attn: Matthew Behum, Treasurer

Matthew Behum, Treasurer (treasurer.cprc.setac@gmail.com) can answer any additional questions.