



SOCIETY OF ENVIRONMENTAL  
TOXICOLOGY AND CHEMISTRY

**ANNUAL REPORT**

**2017**

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## WHO WE ARE



### MEMBERSHIP SOCIETY

- SETAC Members
- Global Partners and Affiliates
- Geographic Unit Sustaining and Affiliate Members and Partners
- Tripartite Balance Among Academia, Business and Government



### GOVERNED BY

- SETAC World Council
- Geographic Unit Boards and Councils
- Committees
- Regional Chapters and Branches



### PROVIDING

- International Activities
- Professional Training
- Workshops
- Interest Groups
- Meetings
- Publications
- Awards
- Certifications

# MISSION

## About the Society

The Society of Environmental Toxicology and Chemistry (SETAC) is a not-for-profit, global professional organization comprised of more than 5,200 members and institutions dedicated to the study, analysis and solution of environmental problems, the management and regulation of natural resources, research and development, and environmental education.

Since 1979, the society has provided a forum where scientists, managers and other professionals exchange information and ideas.

## SETAC's founding principles are:

- Multidisciplinary approaches to solving environmental problems
- Tripartite balance among academia, business and government
- Science-based objectivity

**SETAC IS IMPLEMENTING THIS MISSION WORLDWIDE.**

## Tripartite in Science and Governance

In addition to its globally respected science, SETAC's tripartite character is the society's principal calling card, providing a quality forum on environmental issues for communication and interaction among professionals on a multisector, interdisciplinary and multinational basis. This tripartite aspect—relying on a fundamental balance of scientific participation among government, academia and business—adds a unique strength to governance and objectivity at SETAC meetings, workshops, interest groups and publications, and is critical for policy and societal decision-making.

**ENVIRONMENTAL QUALITY  
THROUGH SCIENCE®**

# PRESIDENT'S MESSAGE



**2017 SETAC  
PRESIDENT**

**Kurt Maier**

***“The science conducted by SETAC members in all sectors is frequently used in regulatory, policy and legal decisions that have significant environmental and economic impact.”***

SETAC is an international scientific community with more than 5,200 members representing eminent environmental scientists and engineers in government, business, academia and non-governmental organizations from nearly 100 countries. We are engaged in, dedicated to and support the study, analysis and solution of environmental issues, the management and regulation of natural resources, research and development, and environmental education, including public outreach. Our society uses a distinctive tripartite approach in governance and issue engagement. Our science is multidisciplinary, encompassing chemistry, ecotoxicology, engineering, environmental management, life cycle and risk assessment, to name just a few of our areas of expertise. Our global engagement of environmental scientists around the world builds our technical commonalities, our diversity and our value as one of the premier scientific organizations.

The SETAC World Council (SWC) continues to work diligently to expand our global reach and create opportunities to engage emerging scientific ideas, build global partnerships, and to collaborate and discuss common environmental problems. In addition to dealing with routine budget and management activities of an international professional society, we introduced a “Voices for Science” initiative that supports using scientific evidence to drive environmental decision and policy making, thus supporting the core mission of “Environmental

Quality Through Science®.” SETAC is also continuing a scientific integrity initiative that is aimed at ensuring that our members are aware of and adhere to high standards of ethical behavior in scientific discourse, both written and verbal. The science conducted by SETAC members in all three sectors is frequently used in regulatory, policy and legal decisions that have significant environmental and economic impact. Subsequently, the work itself and how it is reported should be beyond reproach; free of obvious bias and based on objective, well-substantiated and replicable scientific methods.

Activities in our Global Science and International Programs committees flourished, and these efforts contributed significantly to the development of several new Pellston Workshops®, Focused Topic Meetings and advancement of SETAC’s Global Horizon Scanning Project. SETAC Interest Groups (IGs) continue to welcome SETAC members at all stages of their careers interested in the subject matter of the IGs. In addition to providing opportunities for collaboration on specific topics and between SETAC members, as well as seeking information and peer review, there is a continuing focus on consistent communication and mentoring among IGs. The topics covered by IGs range from animal alternatives to wildlife toxicology and nanotechnology, and the groups are operating at an all-time high. We continue to interact with other scientific societies and non-governmental organizations to plan and co-sponsor workshops

and symposia on topics such as adverse outcome pathways, risk assessment of chemical mixtures and life cycle assessment, to name a few. Whether it is in scientific meetings and workshops, in the classroom or the lab, or in the media, the SWC believes that building relationships and trust must remain a central strength and goal of our society.

SETAC's five geographic units (GUs), Africa, Asia-Pacific, Europe, Latin America and North America, and its regional branches and chapters reflect a grass-roots, bottom-up culture to ensure that decisions are made with members in mind. Progress on our Global Horizon Scanning Project was a major event at our World Congress in Orlando, the SETAC Europe meeting in Brussels and subsequent meetings in Latin America, Africa and North America. The continued dissemination and discussion of these important environmental research initiatives is being carefully planned. This SETAC-wide activity is prioritizing regional, local and international environmental issues and challenges by engaging our GU network and will focus future society efforts on topics identified by global member perspectives.

Annual or biennial meetings in Stockholm (Young Environmental Scientists Meeting), Brussels (SETAC Europe), São Paulo (SETAC Latin America), Calabar (SETAC Africa) and Minneapolis (SETAC North America) highlighted the global science of SETAC members. In addition to the wide variety of successful

branch and chapter meetings, SETAC offered professional opportunities in all geographies and across a range of scientific disciplines.

SETAC continues to expand its educational programming using webinar-based and in-person training focused on risk assessment, which has been delivered globally. Moreover, SETAC provides an internationally recognized certificate for Environmental Risk Assessors through the Certification of Environmental Risk Assessors (CRA) program recently started in Europe. Our goal is to add to this impressive story in the future, including expanding these efforts in collaboration with the World Bank. SETAC members continue to provide scientific education and support to policy makers through a variety of outreach efforts.

SETAC's well-respected journals, *Environmental Toxicology and Chemistry* (ET&C) and *Integrated Environmental Assessment and Management* (IEAM), continue to attract leading research and review articles. The impact factors for both journals increased again. I commend the editors, editorial staff, reviewers and authors for their efforts. We benefit from the high standard of excellence of our journals, but this advantage can only continue if you—our members—submit your very best research for publication.

To conclude, I want to acknowledge that SETAC's most valuable resource is its members. The efforts and accomplishments of SETAC members are impressive.

Please think about the thousands of hours SETAC members and their employers devote to making SETAC relevant on local, regional, GU and international levels through a variety of activities and programming. I hope you will join me in making a commitment for 2018 to continue communicating the value of SETAC to friends, colleagues and regulators, speaking out for our science, maintaining scientific integrity practices, and mentoring early career researchers to ensure the vitality of our society. My colleagues on the SWC and I encourage your active participation in SETAC. Your contributions as individual members, and ours collectively as a professional society, will ensure that SETAC remains recognized as a scientific leader in addressing environment issues. Your leadership and participation will have a powerful impact on the practice and education of environmental toxicology and chemistry, and on our discipline as a true scientific driver for international scientific relations. Remember SETAC's core mission, Environmental Quality Through Science.\*



# GOVERNANCE

The SETAC World Council is composed of leaders from all five geographic units. Members representing the executive boards and councils from Africa, Asia-Pacific, Europe, Latin America and North America ensure a global approach on society decisions and directions.

- SETAC is an open and democratic organization, and members are represented by elected officials from the geographic unit in which they reside.
- These volunteer boards and councils oversee every aspect of the society and are supported by three executive directors and a staff of 19.
- SETAC Interest Groups and committees, also driven by member volunteers, feed initiatives, opportunities, ideas and direction to the various boards and councils, resulting in a truly grassroots organization.



2017 SETAC World Council members during the SETAC North America 38<sup>th</sup> Annual Meeting in Minneapolis.

(Right) SETAC Europe Council members in Brussels.



(Far right) Michelle Embry and Tom Augspurger during the SETAC North America Board meeting in Minneapolis.



(Below) Student volunteers from the SETAC Europe 27<sup>th</sup> Annual Meeting in Brussels.



**THANKS TO ALL SETAC MEMBERS, VOLUNTEERS AND STAFF!**

# PUBLICATIONS

## SETAC Globe

The SETAC Globe is an international newsletter. Contributors report on the outcomes from session summaries from annual meetings, Focused Topic Meetings and Pellston Workshops®, and activities in Interest Groups and committees, among other things. The Globe spotlights career achievements, regional meetings and endeavors, and broader topics of interest, such as communications best practice and publishing initiatives.

FIND OUT MORE AT  
[GLOBE.SETAC.ORG](http://GLOBE.SETAC.ORG)

## SETAC Books

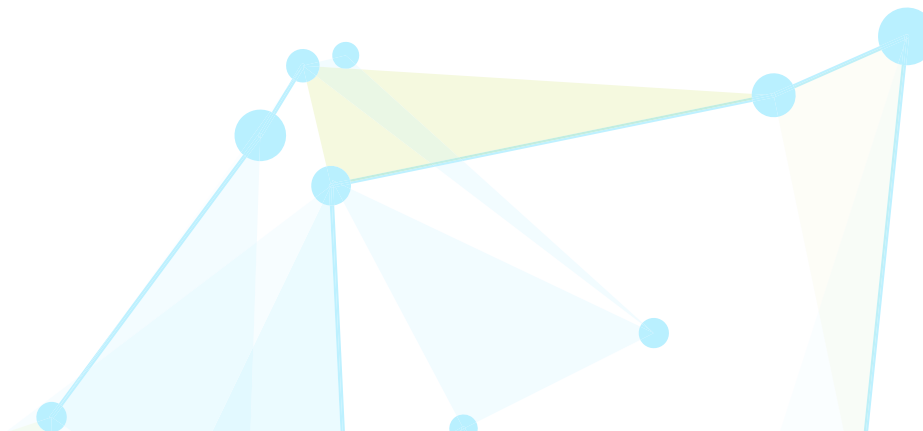
Mitigating the Risks of Plant Protection Products in the Environment: MAgPIE

**Anne Alix, Colin Brown, Ettore Capri, Gerhard Goerlitz, Burkhard Golla, Katja Knauer, Volker Laabs, Neil Mackay, Alexandru Marchis, Véronique Poulsen, Elena Alonso Prados, Wolfgang Reinert, Martin Streloke**

“Mitigating the Risks of Plant Protection Products in the Environment: MAgPIE” is an open access book that published in May 2017. MAgPIE is the output from a two-part workshop designed to inventory the risk mitigation measures implemented in European countries and build the foundation for a toolbox comprising reliable options available to risk managers. The book reflects technical progress and innovation in the area of pesticide application, agricultural practice, and environmental protection.



DOWNLOAD FOR FREE AT  
[WWW.SETAC.ORG/MAGPIE](http://WWW.SETAC.ORG/MAGPIE)





# IEAM

## Integrated Environmental Assessment and Management



### PODCASTS

- No small deal: Evaluating nanomaterials with alternatives assessment, with Rune Hjorth
- Hazard vs. risk: Peter Matthiessen on assessing environmental effects of endocrine disruptors
- You are what you eat: Microplastics in seafood, with David Santillo
- Untapped resources: Finding the right ecotox studies for risk assessment, with Christina Rudén
- Expanding options: Alternatives analysis and predictive tox, with Tim Malloy
- Tipping the scales: Weight of evidence approach for qualities and quantities, with Susan Cormier

### BLOG

- Drylands' best kept secret: Trees
- Fast fashion and viscose production: The time is ripe for sustainable practices
- Why the United States needs the Environmental Protection Agency
- Despite major improvements, levels of air pollution in the U.S. are still unsafe

### SPECIAL SERIES

Ecotoxicological hazard and risk assessment approaches for endocrine-active substances

**Annegaaike Leopold, Peter Matthiessen and Mike Roberts**

### INVITED COMMENTARIES

Current understanding of risks posed by microplastics in the environment



VISIT [IEAMBLOG.COM](http://IEAMBLOG.COM)  
AND [IEAMPODCAST.COM](http://IEAMPODCAST.COM)

# ET&C

## Environmental Toxicology and Chemistry



### FOCUS ARTICLES

Focus Articles are a regular series of timely articles written in a succinct, magazine style intended to sharpen our understanding of current and emerging topics of interest to the scientific community at large.

Here are three examples:

- Assessing and managing multiple risks in a changing world - The Roskilde recommendations
- A framework for predicting impacts on ecosystem services from (sub) organismal responses to chemicals
- Modernizing water quality criteria in the United States: A need to expand the definition of acceptable data

### PERSPECTIVES

Perspectives are part of a regular series designed to discuss and evaluate potentially competing viewpoints and research findings on current environmental issues. Authors from the tripartite structure of SETAC present their thoughts and opinions on an issue of national and international importance.

- Assessment of risks posed by systemic insecticides to hymenopteran pollinators: New perception when we move from laboratory via (semi-) field to landscape scale testing?
- Microplastics in the aquatic environment-Perspectives on the scope of the problem

### SPECIAL SERIES

Environmental fate and effects of 17 $\mu$ -trenbolone and 17 $\mu$ -estradiol

**J.P. Staveley**

Environmental toxicology and chemistry in Latin America

**Gustavo M. Somoza and Pedro Carriquiriborde**

# INTEREST GROUPS

SETAC Interest Groups provide a vital forum for scientific discourse in topical areas across environmental and transdisciplinary science.

The groups' activities can be found throughout this annual report. They wrote highly downloaded journal articles, sponsored platform and poster sessions at SETAC meetings, proposed and supported Focused Topic Meetings, symposia and workshops. More and more, they are working together on cross-disciplinary issues to achieve environmental resiliency.



- Animal Alternatives in Environmental Science
- Bioaccumulation Science
- Chemistry
  - Chemistry - North America
- Dung Organism Toxicity Testing
- Ecological Risk Assessment
- Ecosystem Service
- Ecotoxicology of Amphibians and Reptile
- Endocrine Disruptor Testing and Risk Assessment
- Environmental Monitoring of Pesticides
- Exposure Modeling
- Freshwater Salinization
- Global Soils
- Human Health Risk Assessment
- Indigenous Knowledge and Values
- Life Cycle Assessment Global Coordinating Group
  - Life Cycle Assessment - North America
  - Life Cycle Assessment - Europe
- Mechanistic Effect Models for Ecological Risk Assessment of Chemicals
- Metals
- Nanotechnology
- OMICs
- Pharmaceuticals
- Plants
- REACH
- Science and Risk Communication
- Sediment
- Sustainability
- Wildlife Toxicology

**FIND OUT MORE AT  
[SETAC.ORG/INTERESTGROUPS](https://www.setac.org/interestgroups)**

# COMMITTEES

SETAC standing and ad hoc committees manage many of the society's affairs and events.

Thank you to all the committee chairs and members for their dedicated efforts and commitment to further the society's mission of Environmental Quality Through Science®.



## GLOBAL COMMITTEES

- Awards
- Communication
- Education
- Finance
- Global Partners
- International Programs
- Long-Range Planning
- Membership
- Publications Advisory
- Science

## NORTH AMERICA COMMITTEES

- Awards and Fellowships
- Career Development
- Development
- Early Career
- Endowment Fund
- Finance
- Long-Range Planning
- Meetings
- Membership
- Nominations
- Public Outreach
- Regional Chapters
- Science
- Senior Resource Group
- Student Activities
- Student Advisory Council
- Training and Education

## EUROPE COMMITTEES

- Awards
- Certification Programme
- Development
- Education
- Finance
- Long-Range Planning
- Membership and Public Relations
- Nominations
- Regional Branches
- Science
- Student Advisory Council

# SETAC NORTH AMERICA

SINCE 1979

## An Important Year for Science

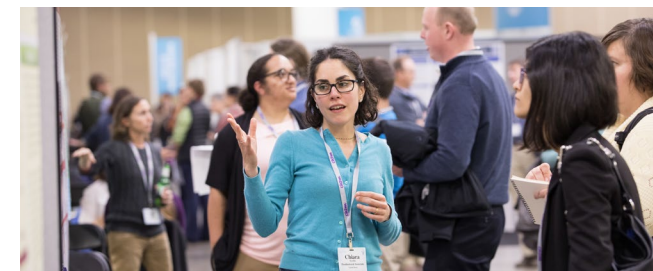
**The SETAC North America Board of Directors supported various initiatives, such as the March for Science, co-signed the letter of the American Institute of Biological Sciences after the presidential election to emphasize the importance of science in decision-making, and inspired the first SETAC Town Hall.**

Raising environmental science's profile and value in decision-making was a focus of SETAC North America in 2017 as science and scientific evidence was and continues to be pitted against emotion, bias and pseudoscience in public discourse in a time of "post-truth" political and media culture.

The SETAC North America 38<sup>th</sup> Annual Meeting, which was held from 12-16 November 2017 in Minneapolis, Minnesota, was a welcoming and open forum to further Environmental Quality Through Science®. The meeting theme, "Toward a Superior Future: Advancing Science for a Sustainable Environment," seemed especially relevant in this political and media culture.



View more than 200 session recordings from SETAC Minneapolis for free online at [msp.setac.org/recordings](http://msp.setac.org/recordings).



Enjoy the scenes from SETAC Minneapolis at your leisure on the SETAC Flickr website.

### OTHER MEETINGS

SETAC North America conducted a Focused Topic Meeting on Risk Assessment of Chemical Mixtures from 6-8 September in Denver, Colorado, to analyze the interplay between scientific knowledge on the environmental hazard, exposure and risk of chemical mixtures, and its consideration in chemical regulation and management.

SETAC North America also helped organize the SETAC Pellston® Workshop on Advancing the Adverse Outcome Pathway Concept – An International Horizon Scanning Approach, which was held from 1-7 April in Cornwall, Ontario, Canada, and the SETAC Technical Workshop on Bioavailability-Based Water Quality Criteria from 3-8 December in Pensacola, Florida.

Water was an inherently important topic at the meeting in Minnesota, the "Land of 10,000 Lakes." To increase the reach of this unique gathering of top scientists, the public was invited to the inaugural SETAC Town Hall. In cooperation with the University of St. Thomas and the local Café Scientifique, the forum focused on "What's in Your Water? Using Science-informed Problem Solving to Protect Our Most Valuable Resource."

To address the unique needs of young scientists, the newly established SETAC North America Early Career Committee held their inaugural Early Career Social to enhance the experience of recent graduates in the SETAC community, to help them network and to increase their engagement.

# SETAC EUROPE

SINCE 1989

## Highlights from SETAC Europe



View an infographic summarizing the specifics of the meeting as well as a video featuring highlights at [brussels.setac.org](http://brussels.setac.org).

SETAC Europe held its 27<sup>th</sup> annual meeting edition from 7-11 May in Brussels, Belgium. It attracted 2,079 delegates from 60 countries and 54 exhibitors. The delegates chose amongst 81 sessions, 1,188 poster presentations and 564 platform presentations. An art & science exhibition organized for the first time, displayed art pieces representing environmental topics created by different Belgian artists. The job event showed to be another great success, a type of speed dating where students and companies met to discuss job opportunities.

Regarding workshops, the second of the DRAW workshop series, "Improving Representation, Management and Mitigation of Spray Drift for Plant Protection in Arable Crops (DRAW)," was organized from 9-10 February in Turin, Italy, which perpetuates the activities initiated by the MAgPIE workshops in 2012 and 2013. The workshop has resulted in scientific collaboration between participants and was the precursor to the third part in 2018.

SETAC Europe also organized a Life Cycle Case Study Symposium in cooperation with the International Life Cycle Academy from 27-28 November in Barcelona, Spain. The event focused on "Consequential LCA for Decision Support." Beginning in 2018, the symposium will be held biannually and will center on case studies only in order to differentiate it from the broad spectrum of LCA sessions at the annual meeting.



Members of the Student Advisory Council celebrated their 10<sup>th</sup> anniversary in 2017.

### STUDENT ADVISORY COUNCIL'S YES MEETING AND 10<sup>TH</sup> ANNIVERSARY

This year, the 6<sup>th</sup> Young Environmental Scientists (YES) Meeting was held in February in Stockholm and welcomed 80 participants.

The Student Advisory Council (SAC) celebrated its 10<sup>th</sup> anniversary at the annual meeting held in Brussels. Initiated in 2007 by a group of six students, the SAC has grown over the years and organizes various student activities at annual meetings.

### BRANCH HIGHLIGHTS

Within SETAC Europe, five regional branches are active and focus on the specific needs and issues

relevant to the region. Four regional meetings were held in 2017, including two student meetings. Young scientists presented their research, and awards were presented for the best work.

### FOCUS ON STRATEGIC GOALS

The SETAC Europe Long Range Planning committee brainstormed to define and refine strategic goals aimed at further developing the support the Society provides to our members and partners. Eight goals have been defined, and goal keepers identified, who will coordinate the associated actions items. Details of this initiative have been communicated through the SETAC Globe and our website.

### EUROPE EDUCATION PROGRAM

As part of our mission, SETAC Europe offered several basic and specialized training and short courses to scientists and students in conjunction with the SETAC Europe 27<sup>th</sup> Annual Meeting and throughout the year as part of the SETAC Europe Certification of Environmental Risk Assessors (CRA) program.



The CRA program continued in its effort to certify professionals, and all Certified Environmental Risk Assessors (CRAs), not only to have a broad understanding of the different fields of environmental risk assessment but also to commit themselves to the use of up-to-date scientific methods and principles to strengthen the understanding of risks of chemicals, thereby protecting the environment. It has undergone revision and restructuring to further optimize the program and to reflect the needs of the candidates while adhering to the set requirements and standards.

# SETAC ASIA-PACIFIC

SINCE 1997

## Advancing Scientific Outreach in Asia

SETAC Asia-Pacific co-sponsored and supported a series of outreach programs in Vietnam, Japan, Malaysia and China. Most notably, two symposia in Vietnam opened significant opportunities with the Ministry of Natural Resources and Environment of Vietnam (MONRE) for SETAC to contribute to addressing local environmental challenges. This has led to a dialogue with the World Bank for further collaboration, increasing the impact and potential reach to the Southeast Asia region. The first outreach opportunity of the Global Horizon Scanning Project (GHSP) in Asia-Pacific was with the Chinese government. The outreach at the 3rd Malaysian Congress of Toxicology was SETAC Asia-Pacific's first attempt to increase awareness of SETAC in Malaysia. Here's a list of events that SETAC Asia-Pacific supported in 2017:

- **3<sup>rd</sup> International Conference on Environmental Pollution, Restoration and Management**  
6-10 March | Quy Nhon, Vietnam
- **19<sup>th</sup> International Symposium on Pollutant Responses in Marine Organisms**  
30 June-3 July | Matsuyama, Japan
- **3<sup>rd</sup> International Conference on Environmental Pollution and Health**  
12-14 May | Guangzhou, China
- **GHSP Engagement Meeting**  
13 May | Guangzhou, China
- **9<sup>th</sup> National Conference on Environmental Chemistry**  
19-22 October | Hangzhou, China
- **3<sup>rd</sup> Malaysian Congress of Toxicology**  
5-6 December | Kuala Lumpur, Malaysia
- **Symposium on Risk Assessment for Environment and Human Health**  
19-21 December | Quy Nhon, Vietnam

The SETAC Asia-Pacific board is very dedicated to the efforts of the geographic unit, and so is the SETAC Asia-Pacific community with their active participation in all the SETAC programs. The next big event for the geographic unit is the 2018 SETAC Asia-Pacific Conference, which will be held from 16-19 September 2018 in Daegu, South Korea.

## SETAC Australasia Gold Coast Conference 2017

The SETAC Australasia regional chapter held their biennial meeting from 4-6 September on the picturesque Gold Coast in Queensland, Australia. The theme was "The Role of Environmental Toxicology and Chemistry in a Changing Environment." The event brought together nearly 200 academic, government, businesses and student delegates from Australia, New Zealand and around the globe. John Sumpter from Brunel University in the United Kingdom presented the Tony Roach Memorial plenary and addressed the current state of ecotoxicology research.



John Sumpter

A SETAC New Zealand regional meeting was held in conjunction with the New Zealand Marine Sciences Conference on 6 July in Christchurch.



SETAC Australasia conference chairs Di Jolley and Will Bennett with Anthony Chariton.

# SETAC LATIN AMERICA

SINCE 1999

## SETAC Santos in Review

SETAC, the Universidade Federal de São Paulo, the Universidade Estadual Paulista and the Universidade Santa Cecília held the 12<sup>th</sup> SETAC Latin America Biennial Meeting from 7-10 September in Santos, São Paulo, Brazil. The meeting, with the theme “Bridging the Gap Between Science and Governance,” brought together members from academia, government and business, promoting the interaction among Latin American professionals engaged in environmental science with colleagues from other parts of the world.

About 455 professionals from 17 countries attended the meeting. The meeting hosted 11 international plenary speakers and six round tables, offered seven pre-meeting courses and 21 special sessions that included 173 oral presentations and 321 posters.

The meeting was conducted in Portuguese, English and Spanish, which worked very well. During the meeting, positive discussions and dialogue occurred among participants. The new president, Tatiana Heid Furler, and vice president, Daniel A. Wunderlin, were announced during the General Assembly to lead the activities for the next two years (2017-2019).

A trilingual and tripartite Chemicals Risk Assessment Symposium was held right before the biennial

meeting. The goal of the symposium was to exchange information and share knowledge on chemical risk assessment and management approaches in Latin American countries with elected officials. These discussions are on-going and will continue in 2018.

SETAC Latin America has made the most substantial progress to date in the SETAC Global Horizon Scanning Project. The Latin America Board disseminated the results of the project at the biennial meeting and invited feedback from stakeholders. This led to a partnership with the Brazilian Funding Authority for Studies and Projects and the São Paulo Research Foundation. As part of the combined efforts, proposals were requested for research projects in areas addressing sustainability and industrial ecology with a focus on cyanobacteria and cyanotoxins, pharmaceuticals and complex mixtures. A second call for proposals will be launched in 2018 in connection with the World Water Forum Conference. Further, a journal article about the project is slated to be published in IEAM in early 2018.



The first in a series of webinars to address the top 20 priority environmental questions discussed management and regulatory tools towards achieving sustainable development.

## ECOTOX Brasil

The Brazilian Society of Ecotoxicology (ECOTOX-Brasil), a chapter of SETAC Latin America, has been dedicated to promoting their science through courses, workshops and other scientific meetings, and they support training in regions with little or no representation in the field. In 2017, they held an “Ecotoxicology Introduction” course in August in Rondonia, followed by the “Ecotoxicology and Risk Assessment of Hazardous Substances” course in September in Santos, the “V Ecotoxicology Seminar” in November in Rio de Janeiro, and the “I Workshop Sul-mato-grossense of Ecotoxicology” in December in Campo Grande.



(Above) A full audience listens attentively during the closing ceremony of the SETAC Latin America biennial meeting



(Left) Helena de Assis, SETAC Latin America President, speaks during the Chemicals Risk Assessment Symposium.

# SETAC AFRICA

SINCE 2012

## Highlights from SETAC Calabar

SETAC Africa (SAF) organized a successful biennial conference, which was held from 17-19 October in Calabar, Nigeria. The theme of the conference was “Quality of African Environment: The Roles of Science, Industry and Regulators,” which attracted stimulating lectures and presentations on landmark scientific research, professional training opportunities and lots of time to connect with colleagues on new collaborations beyond Africa.

Another major highlight of the conference was the SETAC Africa Women’s Event (SAFWE), which attracted more than 50 women scientists from five countries from the continent. This was the first SAFWE at SAF, and it promised to be a part of our conferences in the future.

The educational committee, in collaboration with the SAF students, also promoted the environmental awareness initiatives to the high school students in Calabar. The event comprised an interesting quiz competition among the students.

### 2018 FOCUS

The 2<sup>nd</sup> Central and West Africa Regional Conference is planned to be held from 7-11 October 2018 at the University of Ghana.



(Top) Members gather for the SETAC Africa Women’s Event.

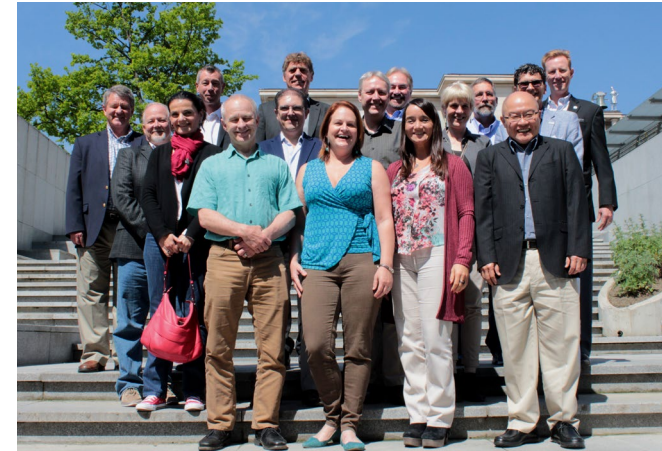


(Left) SETAC Africa organizers pause during registration.

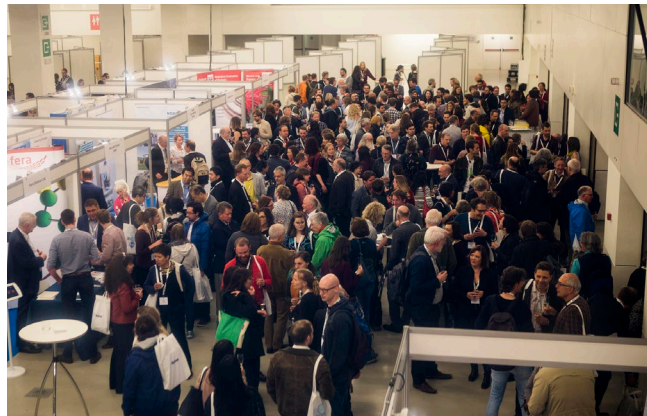


(Bottom) SETAC Africa Council members along with a few SETAC World Council members gathered in Calabar.





THANK YOU TO ALL OUR MEMBERS FOR ANOTHER SUCCESSFUL YEAR!



**SETAC NORTH AMERICA  
38<sup>TH</sup> ANNUAL MEETING**

12-16 November | Minneapolis, MN, USA

*Toward a Superior Future: Advancing Science for a Sustainable Environment*

**SETAC PELLSTON<sup>®</sup> WORKSHOP**

2-6 April | Cornwall, Ontario, Canada

*Advancing the Adverse Outcome Pathway Concept - An International Horizon Scanning Approach*

**6<sup>TH</sup> YOUNG ENVIRONMENTAL  
SCIENTISTS (YES) MEETING**

16-20 February | Stockholm, Sweden

*Environmental Science in a Warming World*

**SETAC EUROPE 27<sup>TH</sup> ANNUAL MEETING**

7-11 May | Brussels, Belgium

*Environmental Quality Through Transdisciplinary Collaboration*

**SETAC EUROPE 23<sup>RD</sup> LCA CASE  
STUDY SYMPOSIUM**

27-28 November | Barcelona, Spain

*Consequential LCA for Decision Support*

**SETAC NORTH AMERICA FOCUSED  
TOPIC MEETING**

6-8 September | Denver, CO, USA

*Risk Assessment of Chemical Mixtures: From Scientific Evidence to Environmental Regulation*

**SETAC NORTH AMERICA  
TECHNICAL WORKSHOP**

3-6 December | Pensacola, FL, USA

*Bioavailability-Based Water Quality Criteria/ Standards for Metals: A Multi-Sectorial Workshop*

**SETAC AFRICA 8<sup>TH</sup> BIENNIAL CONFERENCE**

17-19 October | Calabar, Cross River State, Nigeria

*The Quality of African Environment: The Roles of Science, Industry and Regulators*

**12<sup>TH</sup> SETAC LATIN AMERICA  
BIENNIAL MEETING**

7-10 September | Santos, São Paulo, Brazil

*Bridging the Gap Between Science and Governance*

**2017** MEETINGS  
WORKSHOPS  
SYMPOSIA

# 2018 MEETINGS

## SETAC EUROPE WORKSHOP

Barcelona, Spain | 12-14 February 2018

*Terrestrial Environmental Risk Assessment of Plant Protection Products: Non-target Arthropods and Soil Invertebrates*

## 7<sup>TH</sup> YOUNG ENVIRONMENTAL SCIENTISTS (YES) MEETING

25-29 March 2018 | Madison, Wisconsin, USA  
[yes2018.setac.org](http://yes2018.setac.org)

*Stand Up For Science*

## SETAC NORTH AMERICA FOCUSED TOPIC MEETING

16-18 April 2018 | Durham, NC, USA  
[hts.setac.org](http://hts.setac.org)

*High-Throughput Screening and Environmental Risk Assessment: State of the Science and Emerging Applications*

## SETAC EUROPE 28<sup>TH</sup> ANNUAL MEETING

Rome, Italy | 13-17 May 2018 | [rome.setac.org](http://rome.setac.org)

*Responsible and Innovative Research for Environmental Quality*

## SETAC PELLSTON® WORKSHOP

Valencia, Spain | 24-29 June 2018

*Life Cycle Impact Assessment (LCIA)*

## SETAC ASIA-PACIFIC 2018 CONFERENCE

16-19 September 2018 | Daegu, South Korea  
[setac-ap2018.org](http://setac-ap2018.org)

*Data, Science, and Management Promoting Environmental Welfare*

## SETAC EUROPE 24<sup>TH</sup> LCA SYMPOSIUM

Vienna, Austria | 24-26 September 2018  
[lca2018.setac.org](http://lca2018.setac.org)

*Food, Fibre, Feed, Fertiliser, Fuel and Other Resources: The Role of LCA in Shaping the Future*

## SETAC EUROPE 13<sup>TH</sup> SPECIAL SCIENCE SYMPOSIUM

Brussels, Belgium | 23-24 October 2018  
[sesss13.setac.org](http://sesss13.setac.org)

*Extrapolation of Effects Across Biological Levels: Challenges to Implement Scientific Approaches in Regulation*

## SETAC NORTH AMERICA 39<sup>TH</sup> ANNUAL MEETING

4-8 November 2018 | Sacramento, CA, USA  
[sacramento.setac.org](http://sacramento.setac.org)

*Bridging Divides Between Environmental Stewardship and Economic Development*



Find out more about SETAC geographic unit and regional chapter and branch meetings, workshops and symposia at [setac.org](http://setac.org).

# GLOBAL AWARDS

SETAC recognizes and honors outstanding contributions of individuals or groups of individuals to the environmental sciences and to the society through its awards program.

SETAC also recognizes and honors the participation of students and early career researchers, using society resources to enhance their professional development. Candidates may be self-nominated or nominated by another individual.



## Capacity-Building Award

### Keith Solomon

University of Guelph

The Capacity-Building Award was created to recognize individuals or groups for their contribution toward building capacity in the environmental sciences within countries with developing economies.



## Founders Award

### Thomas Parkerton

ExxonMobil Biomedical Sciences, Inc.

The Founders Award is the highest honor SETAC can bestow. It is given to an individual whose outstanding career and significant contributions to environmental science reflect the goals of SETAC.



## Herb Ward Exceptional Service Award

### Diane Nacci

U.S. Environmental Protection Agency

This award recognizes a SETAC member who has performed long-term, exceptionally high-quality service to the society.



## SETAC/ICA Chris Lee Award

### Maikel Rosabal

Université de Québec à Montréal

Jointly sponsored by SETAC and the International Copper Association, this award provides up to \$5,000 to a graduate student or recent graduate whose ongoing research focuses on fate and effects of metals in the environment.



## SETAC/Procter & Gamble Fellowship

### Julie Krzykwa

Texas Christian University

This \$15,000, 1-year grant, sponsored by Procter & Gamble, is bestowed annually, and rotates among the five SETAC geographic units. The fellowship recognizes a student enrolled in a doctoral program at a North American university in 2018.

## SETAC Journal Best Paper Awards

Recognizing innovative or creative papers with transparent, reproducible, rigorous and relevant science.



## Best Student Paper Award Sponsored by Colgate-Palmolive

### Bryanna Eisner

University of Saskatchewan

Cross-species Comparison of Relative Potencies and Relative Sensitivities of Fishes to Dibenzo-p-Dioxins, Bibenzofurans, and Polychlorinated Biphenyls in Vitro

*Jon A Doering, Shawn C Beitel, Steve Wiseman, Jason C Raine, Markus Hecker*



## Environmental Toxicology and Chemistry Best Paper Award

### Rianne Jacobs

National Institute for Public Health and the Environment (RIVM)

Combining Exposure and Effect Modeling into an Integrated Probabilistic Environmental Risk Assessment for Nanoparticles

*Johannes AJ Meesters, Cajo JF ter Braak, Dik van de Meent, Hilko van der Voet*



## Integrated Environmental Assessment and Management Best Paper Award

### Sheila Reddy

The Nature Conservancy

Evaluating the Role of Coastal Habitats and Sea-Level Risk in Hurricane Risk Mitigation: An Ecological Economic Assessment Method and Application to a Business Decision

*Gregory Guannel, Robert Griffin, Joe Faries, Timothy Boucher, Michael Thompson, Jorge Brenner, Joey Bernhardt, Gregory Verutes, Spencer A Wood, Jessica A Silver, Jodie Toft, Anthony Rogers, Alexander Maas, Anne Guerry, Jennifer Molnar, Johnathan L DiMuro*

# NORTH AMERICA AWARDS



Eugene Kenaga SETAC Membership Award

## Kay Ho

U.S. Environmental Protection Agency

The Eugene Kanaga Award is given annually to any member that provides leadership and development opportunities to the members of SETAC at either the national or chapter level.



SETAC Government Service Award

## Alex Stone

Washington State Department of Ecology

Recognizing exemplary dedication and service by a scientist toward promoting the collective application of environmental toxicology and chemistry to risk assessment in a government function.



Outstanding Regional Chapter Member

## Nile Kemble

U.S. Geological Survey

This award goes to a North America regional chapter member who consistently contributes to the development of the society at the chapter level and who has improved the chapter's services.



Stephen J. Klaine Environmental Education Award

## Ronald J. Kendall

Texas Tech University

The award recognizes significant contributions to environmental education either through educating other educators or by working with community groups and K-12 programs.



SETAC/EA Jeff Black Fellowship Award

## Nicholas Cipoletti

St. Cloud State University

Jointly sponsored by EA Engineering, Science, and Technology, Inc. and SETAC, this fellowship provides \$2,000 to an outstanding Master's level student engaged in any field of study encompassed by SETAC.

SETAC North America awarded 101 travel grants for students to attend the annual meeting in Minneapolis, MN.

## Recent Graduate Travel Awards

### SETAC NORTH AMERICA ENDOWMENT FUND

#### Academia

## Maria Rodgers

University of Southern Mississippi

## Elvis Genbo Xu

University of California, Riverside

#### Business

## Jared Bozich

International Flavors & Fragrances, Inc.

## L. Blair Paulik

Maul Foster & Alongi, Inc.

#### Government

## Rebecca Dalton

Environment and Climate Change Canada

## Meagan Harris

Whatcom Conservation District

## Student Travel Awards

### KEVIN JOHNSON MEMORIAL

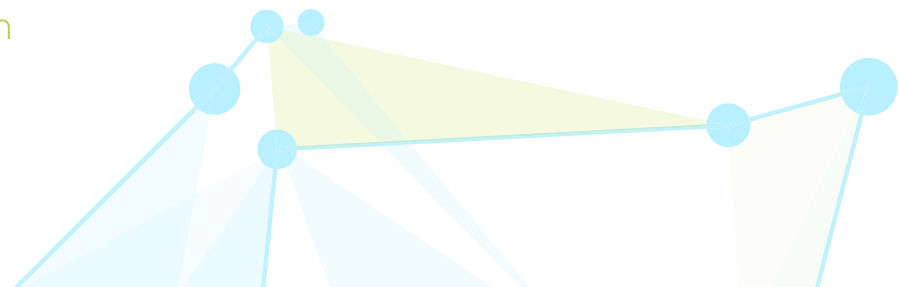
## Erin Ussery

University of Ontario

### MELISSA SCHULTZ MEMORIAL

## Taylor Bujaczek

MacEwan University



# EUROPE AWARDS

## SETAC Europe Young Scientist Awards

Honoring a young scientist for the best platform and poster presentation at the SETAC Europe annual meeting in Brussels, Belgium.



LCA Young Scientist Award  
Sponsored by Lenzing and Springer Verlag

### Eléonore Loiseau

French National Research Institute of Science and Technology for Environment and Agriculture (IRSTEA)

Broadening the Object Scale in LCA: Towards Territorial LCAs



ECETOC Best Platform

### Richard Cross

College of Life and Environmental Sciences

Routes of uptake and bioaccumulation of cerium oxide and silver nanoparticles depend on their fate in sediments



Noack Laboratorien Environmental Education Award

### Àngel Borja

Principal Investigator at the Marine Research Division; AZTI-Tecnalia Foundation (Technological Institute for Fisheries and Food)



SETAC Europe Best Poster

### Amandine Laffite

University of Geneva

Hospital effluents, not an exclusive source of emerging contaminant spread in sub-saharian urban rivers



SETAC Europe Best Publication Award  
Sponsored by RifCon

### Yang Yue

Eawag, Switzerland

Silver nanoparticle-protein interactions in intact rainbow trout gill cells

*Environmental Science: Nano*, 2016

Sponsored by SETAC Europe and Syngenta, 39 registration grants, 27 travel grants and eight short course grants were awarded to attendees of the SETAC Europe annual meeting in Brussels, Belgium.

# ASIA-PACIFIC AWARDS

## SETAC Australasia Awards

Early Career Medal

**William Bennett**

Griffith University

Postgrad Research Publication Award

**Shima Ziajahromi**

Griffith University

Mid-Career Medal

**Kimberley Hageman**

University of Otago

Technical Staff Award

**David Spadaro**

CSIRO

National Travel Fellowship

**Katelyn Edge**

New South Wales Office of Environment and Heritage

Thesis Prize

**Sarah Stone**

University of Wollongong



Visit [setac.org/awards](https://setac.org/awards) for more information on the awards and nomination process.

# GLOBAL PARTNERS AND AFFILIATES

## SETAC Global Partners



We want to thank all of our SETAC partners helping ensure our goal of Environmental Quality Through Science®

## SETAC Global Affiliates



The SETAC Global Partners Program—the premier level of SETAC support—is an invaluable part of our scientific community. SETAC Europe Partners and Nonprofit Partners, and SETAC North America Sustaining Members and Affiliates foster the Society’s mission at the geographic unit level. They are actively engaged in helping SETAC build valuable partnerships to explore emerging areas of science. Thanks to them, the society’s mission is carried out around the world.



## SETAC North America Sustaining Members



## SETAC Europe Partners



## SETAC North America Affiliate Members

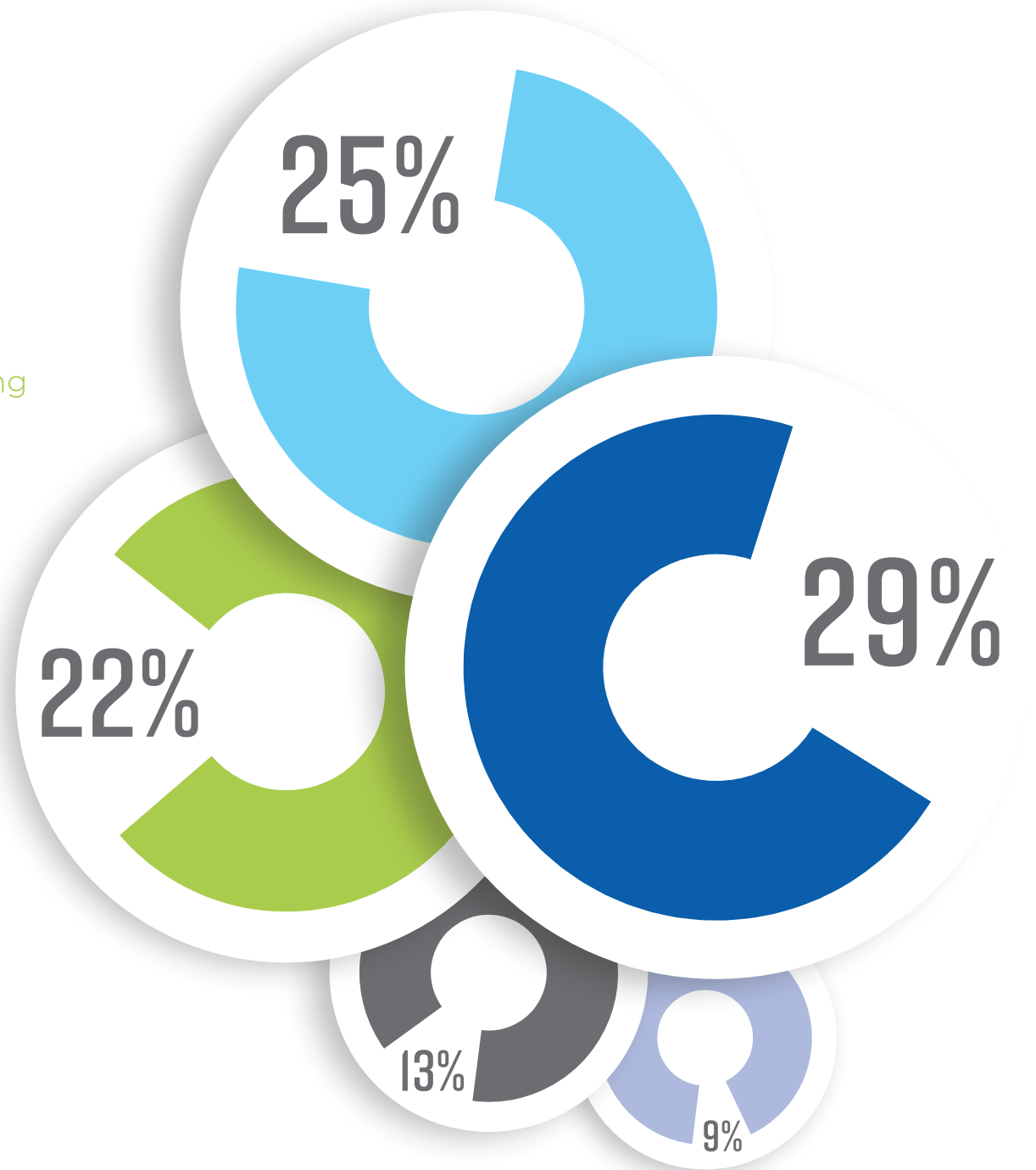
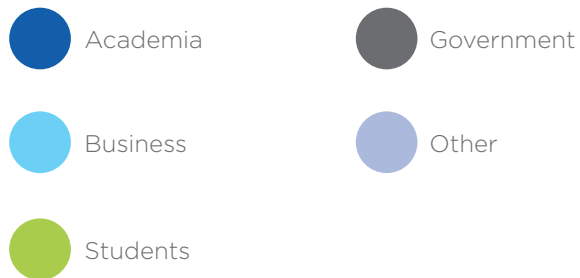


## SETAC Europe Nonprofit Partners



# BALANCE IN SCIENCE AND GOVERNANCE

This visual represents SETAC's tripartite composition, the society's principal calling card that provides a quality forum on environmental issues for communication and interaction among professionals on a multisector, interdisciplinary and multinational basis.



# FINANCIALS

SETAC invests in students, recent graduates and developing country members by subsidizing dues, student travel and meeting registration fees. Assets also support outreach and education efforts in line with the SETAC mission and geographic unit goals of Environmental Quality Through Science®.

The SETAC World Council and the SETAC geographic units operate as separate financial entities. This unaudited summary of financial performance has been consolidated into US dollars and is provided for information only.

	OPERATING REVENUE	OPERATING EXPENSES
Europe	\$1,936,976	\$1,830,276
North America	\$1,878,219	\$1,813,636
World Council	\$1,390,039	\$1,360,673
Asia-Pacific	\$45,252	\$29,971
Other	-	-
<b>Total</b>	<b>\$5,250,486</b>	<b>\$5,034,556</b>

Net Assets

**\$2,397,837**

Total Assets

**\$3,830,138**

Total Liabilities

**\$1,432,301**

	SOURCES OF REVENUE	AREAS OF EXPENSES
Annual Meetings	\$2,317,248	\$1,890,441
Workshops/Programs	\$487,111	\$472,460
Membership	\$947,697	\$158,668
Journals	\$524,689	\$362,739
Outreach and Communications	\$14,923	\$184,622
Certification	\$9,204	\$10,353
Other	\$949,615	\$1,955,272
<b>Total</b>	<b>\$5,250,487</b>	<b>\$5,034,555</b>



# ENVIRONMENTAL QUALITY THROUGH SCIENCE®

[WWW.SETAC.ORG](http://WWW.SETAC.ORG)

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