



Society of Environmental Toxicology and Chemistry

# ANNUAL REPORT

# 16



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# WHO WE ARE



## MEMBER-DRIVEN SOCIETY

SETAC Members  
Global Partners and Affiliates  
Geographic Unit Sustaining and Affiliate Members and Partners  
Tripartite balance among academia, business and government



## GOVERNED BY

Members involved in the SETAC World Council and Global Committees  
Geographic Unit Boards and Councils  
Regional Chapters and Branches  
Committees



## WORKING TO ACHIEVE

Environmental Quality Through Science®



## PROVIDING

International Activities  
Professional Training  
Workshops  
Interest Groups  
Meetings  
Publications  
Awards  
Certification

# MISSION

## ABOUT THE SOCIETY

The Society of Environmental Toxicology and Chemistry (SETAC) is a not-for-profit, global professional organization comprised of some 6,000 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 unique strengths in governance and in objectivity to SETAC meetings, workshops, interest groups and publications at a time when such objectivity is so critical to sound policy and societal decision-making.



# PRESIDENT'S MESSAGE



2016 SETAC PRESIDENT  
**PATRICK GUINEY**

The Society of Environmental Toxicology and Chemistry (SETAC) is an international scientific community with nearly 6,000 members drawing from prominent environmental scientists and engineers in government, business, academia, and non-governmental organizations from nearly 100 countries. We are engaged in the study, analysis and solution of environmental problems, 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 in the world.

The SETAC World Council worked 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. We launched a scientific integrity initiative aimed at ensuring that our members are aware of and adhere to high standards of ethical behavior in scientific discourse. The science conducted by SETAC members in all three sectors is frequently used in regulatory and legal decisions that have significant environmental and monetary impact. Subsequently, the work itself and how it is reported should be beyond reproach; it must be free of obvious bias and based on objective, well-substantiated, and replicable scientific methods.

Activities in our Global Science Committee 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 advisory groups were rebranded interest groups (IGs) to better reflect that these groups welcome SETAC members at all stages of their careers interested in the subject matter of the IG. In addition to providing opportunities for collaboration on specific topics and between SETAC groups, as well as seeking information and peer review, there is a new focus on consistent communication and mentoring among IGs. The topics covered by IGs range from animal alternatives to nanotechnology to wildlife toxicology, 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 ecosystem services and economic valuation decisions. Whether it is in scientific meetings and workshops, in the classroom or lab, or in the media, the SETAC World Council believes that building relationships and trust must remain a central objective 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 culture to ensure that decisions are made with members in mind. The Global Horizon Scanning Project, a SETAC-wide activity to identify and prioritize regional, local and international environmental issues and challenges by surveying our GU network, announced the most important research questions at the World Congress in Orlando. The continued roll-out of these important environmental research needs is being planned for next year, and future society efforts will focus on topics identified by our global membership.

In addition to successful branch and chapter meetings, a world congress, annual or biennial meetings in Nantes (SETAC Europe), Singapore (SETAC Asia-Pacific) and Orlando (SETAC World and SETAC North America) offered professional opportunities in all geographies and across a wide range of scientific disciplines. Other focused topic meetings and symposia in Europe and North America covered "Environmental Quality Implications of Unconventional Natural Gas Development," "Life Cycle Innovation for the Transition to a Sustainable Society," "Environmental and (Eco)toxicological -Omics and Epigenetics: Science, Technology and Regulatory Applications" and "Risk Mitigation Measures, and Risk Assessment and Labeling in the EU 28: Introduction to the MAGPIE toolbox." SETAC is esteemed for its pre-eminent Pellston Workshops, a forum for scientific dialogue and debates on important and emerging scientific issues that can influence policy decisions. The most recent SETAC Pellston Workshop, "Environmental Hazard and Risk Assessment Approaches for Endocrine-Active Substances (EHRA)," was held January–February 2016 in Pensacola. Forty-eight experts participated in this major effort to bring together scientists from around the globe and from a spectrum of scientific opinions to consider several chemical case studies and critically evaluate the underlying issues that have been fueling a serious scientific controversy.

In addition, a webinar and in-person risk assessment training model, which was developed and previously delivered in Latin America and Africa, was expanded in Orlando and Singapore. Our goal is to add to this impressive story in the years ahead, working to present it at the next SETAC Latin America 12<sup>th</sup> Biennial Meeting in September 2017 in Santos, São Paulo, Brazil.

Our well-respected journals, Environmental Toxicology and Chemistry (ET&C) and Integrated Environmental Assessment and Management (IEAM), continue to attract leading research and review articles – publishing 3,946 pages in 2016. The impact factor for ET&C was an impressive 2.763 and IEAM's impact factor increased to 1.530 after its initial year of ranking. 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.

In closing, I want to state that SETAC's most valuable resource is its members. I hope you will join me in making a commitment for 2017 to continue communicating the value of SETAC to friends, colleagues and regulators; maintain scientific integrity practices, which will enhance our value in this new collaborative world; and mentor young up-and-coming researchers to ensure the vigor of our great society. My colleagues on the SETAC World Council and I encourage your active participation in SETAC. Your contributions as individual members, and ours collectively as a professional society, will ensure that SETAC always remains a scientific leader in addressing environmental issues. With your cooperation, the networks that emerge from our meetings, whether physical or virtual, will have a continuing powerful impact on environmental toxicology and chemistry and on our discipline as a true driver for international scientific relations.

# 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 18.
- SETAC interest groups, committees and regional branches and chapters also driven by member volunteers, feed initiatives, opportunities, ideas and direction to the various boards and councils, resulting in a truly grassroots organization.



SETAC World Council in Orlando (top row, left to right): Karsten Liber, Barnett Rattner, Charlie Menzie, Bart Bosveld, Ross Smith, David Phillips, Doug Fort, Tom Augspurger, (bottom row, left to right) Kuan-Chun Lee, Mary Reiley, Kurt Maier, Pat Guiney, José-Julio Ortega-Calvo, Gertie Arts, Greg Schiefer

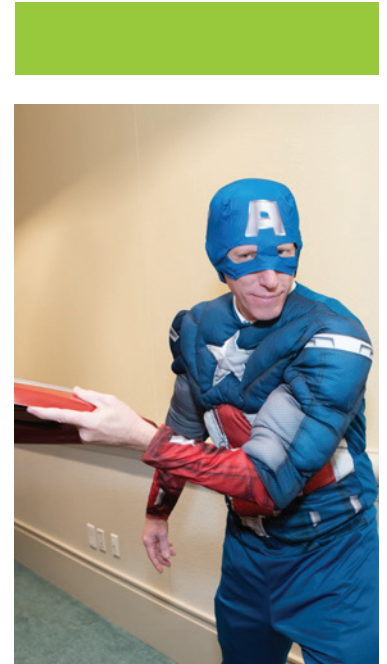


To learn more about SETAC's governing body, visit [www.setac.org](http://www.setac.org).



SETAC members interested in becoming more involved, contact [setac@setac.org](mailto:setac@setac.org).





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

# PUBLICATIONS

## SETAC Globe

The SETAC Globe, now in its 18<sup>th</sup> year, reaches more than 10,000 readers worldwide. The Globe, which publishes society news such as meeting session summaries, regional branch and chapter highlights, and more, welcomes submissions from all members.

**VIEW PAST ISSUES AT  
[GLOBE.SETAC.ORG](http://GLOBE.SETAC.ORG)**

## Books

We are excited to announce a new partnership with CSIRO Publishing. Together we will be launching an Environmental Pollution series – short books on issues and chemicals of emerging concern.





### PODCASTS

*Get real! Stuart Hurlbert on pseudoreplication and other sins of statistical analysis*

*Impaired ecosystems: Ounce of prevention or pound of cure? With Aida Farag and Ruth Hull*

*At your service! Linking healthy ecological function to human well-being, with Wayne Munns*

*Pulling it all together: Harmonizing marine environmental assessment, with Ruud Jongbloed*

### BLOG

*The "Microbead-free Waters Act": Saying goodbye to the tiny plastic fragments that pollute our waterways*

*Methane leaks: The big and the small*

*Insidious danger: Microplastics pollute aquatic life and harm our food supply*

*The arctic is opening up: Offshore drilling and melting sea ice*

### INVITED COMMENTARIES

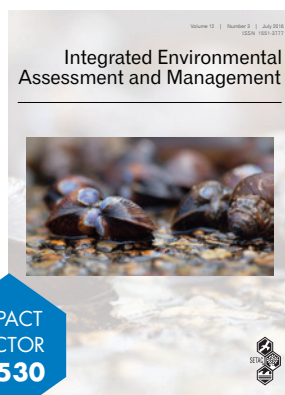
*Lessons learned and consequences of the Fukushima Daiichi Nuclear Power Plant accident, five years later*

### SPECIAL SERIES

*Using mechanistic effect models for ecological risk assessment of pesticides: Examples and recommendations from the MODELINK workshop*

*Restoration of impaired ecosystems: An ounce of prevention or a pound of cure?*

*LCA in promoting eco-innovation and sustainability: Education, research, and application*



IMPACT  
FACTOR  
**1.530**

### 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.

Some examples include:

- Are harmful algal blooms becoming the greatest inland water quality threat to public health and aquatic ecosystems?
- Accounting for metal bioavailability in assessing water quality: A step change?
- Are we going about chemical risk assessment for the aquatic environment the wrong way?

### PERSPECTIVES

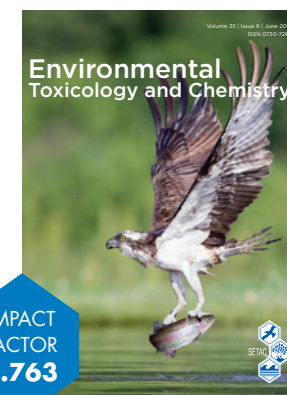
Perspectives are part of a regular series designed to discuss and evaluate potentially competing viewpoints and research findings on current environmental issues. Two or three authors from the tripartite structure of SETAC (academia, government, business) present their own thoughts and opinions on an issue of national and international importance.

Some examples include:

- How can we improve the quality of ecotoxicology research to increase relevance and use in regulatory decision making?
- Bias is creeping into the science behind risk assessments and undermining its use and credibility

### SPECIAL SERIES

- Exposure and effects of environmental stressors to bees
- Pharmaceuticals in the environment
- Plastic debris in the aquatic environment—mechanisms and implications
- Non-target structural and functional effects of ivermectin residues in cattle dung on pasture – Guidance for researchers and regulators



IMPACT  
FACTOR  
**2.763**

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



# INTEREST GROUPS

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

In 2016, SETAC advisory groups were renamed interest groups to better reflect that these groups welcome SETAC members at all stages of their careers. Inspired by a session at the SETAC Asia-Pacific meeting in Singapore, discussion started to form a new interest group addressing indigenous knowledge and values.



For more information about each group and their activities, visit [www.setac.org/interestgroups](http://www.setac.org/interestgroups).

## GLOBAL INTEREST GROUPS

- Animal Alternatives in Environmental Science
- Bioaccumulation Science
- Chemistry
- Ecological Risk Assessment
- Ecosystem Services
- Ecotoxicology of Amphibians and Reptiles
- Endocrine Disruptor Testing and Risk Assessment
- Exposure Modeling
- Freshwater Salinization
- Global Soils
- Life Cycle Assessment Global Coordinating Group
- Metals
- Nanotechnology
- OMICs
- Pharmaceuticals
- Plants
- Sediment
- Sustainability
- Wildlife Toxicology

## NORTH AMERICA INTEREST GROUPS

- Chemistry
- Human Health Risk Assessment
- Life Cycle Assessment\*

## EUROPE INTEREST GROUPS

- Dung Organism Toxicity Testing
- Environmental Monitoring of Pesticides
- Life Cycle Assessment\*
- Mechanistic Effect Models for Ecological Risk Assessment of Chemicals
- REACH
- Science and Risk Communication

\*Part of the Life Cycle Assessment Global Coordinating Group



# 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®.



If you are interested to learn more about a committee or become involved, visit [www.setac.org/committees](http://www.setac.org/committees).

## GLOBAL COMMITTEES

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

## NORTH AMERICA COMMITTEES

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

## EUROPE COMMITTEES

- Awards
- Certification of Risk Assessors
- Education
- Finance
- Long-Range Planning
- Membership and Public Relations
- Nominations
- Regional Branches
- Science
- Student Advisory Council (SAC)

# NORTH AMERICA *SINCE 1979*

## Highlights from SETAC North America

SETAC North America had a busy year in 2016, hosting the 7<sup>th</sup> SETAC World Congress, supporting an abundance of student activities, and tackling hot-button environmental issues.



Two hundred and one session recordings from the world congress in Orlando are available for free at [setac.sclivelearningcenter.com](http://setac.sclivelearningcenter.com).

Occurring only once every four years, the 7<sup>th</sup> SETAC World Congress/SETAC North America 37<sup>th</sup> Annual Meeting was held from 6–10 November in Orlando, Florida. More than 2,200 attendees came from 43 countries, creating a truly global networking opportunity, and focused on timely and thought-provoking science across 752 platform and 1,351 poster presentations.

SETAC North America recognizes the importance of student participation. Thanks to the contributions from members and supporting organizations, the society was able to provide travel support for 150 students for the world congress, totaling more than US \$71,000.

The North America Student Advisory Council (NASAC) proved their incredible enthusiasm and leadership skills by organizing the 5<sup>th</sup> Young Environmental Scientist (YES) Meeting from 28 February–2 March in

Gainesville, Florida. The YES meeting is an all-student event, designed by students for students. This was the first time the event was held in North America.

SETAC North America also tackled two hot button issues in 2016. Forty-eight invited experts gathered for a SETAC Pellston® workshop from 31 January–5 February in Pensacola, Florida, to address “Environmental Hazard and Risk Assessment Approaches for Endocrine-Active Substances.” In addition, a Focused Topic Meeting on “Environmental Quality Implications of Unconventional Natural Gas Development” was held from 17–19 March 2016, Denton, Texas.

At the end of December, the society announced the Stephen J. Klaine Environmental Education Award (formerly SETAC/Menzie Environmental Education Award) in honor of the late Steve Klaine, who passed away in 2016 and touched the lives of so many with his dedication to environmental science, teaching and mentoring of students during his 30-year career.

## THE WORLD CONGRESS IN PICTURES



Remarkable efforts by the international program committee created a compelling program for scientists from 43 countries.



NASAC members shined at the meeting with their enthusiasm and leadership to support science and science activities.



During the opening reception, members held a celebratory toast to the life and work of Steve Klaine.

# EUROPE *SINCE 1989*



## A Year in Review

The SETAC Europe 26<sup>th</sup> Annual Meeting, held from 22–26 May in Nantes, France, attracted 2,010 delegates and 43 exhibitors from 60 countries. The delegates could choose from 77 sessions, 1,133 poster presentations and 575 platform presentations.



View an infographic summarizing the specifics of the meeting at [nantes.setac.eu](http://nantes.setac.eu).

Two workshops on “Chemicals: Assessment of Risks to Ecosystem Services (CARES)” were conducted in May and November in the heart of Europe. A SETAC Pellston workshop, co-organized with the SETAC–UNEP Life Cycle Initiative took place in January in Valencia, Spain, and focused on “Life Cycle Impact Assessment.” A fourth workshop was organized in February in Montpellier, France, and concentrated on “Improving Representation, Management and Mitigation of Spray Drift for Plant Protection in Arable Crops (DRAW).”

Student volunteers pose for a photo during the SETAC Europe 26<sup>th</sup> Annual Meeting in Nantes.



SETAC Europe organized three symposia in 2016. “Risk Mitigation Measures, Risk Assessment and Labelling in the EU 28: Introduction to the MAGPIE Toolbox” was held in May in Brussels, Belgium. “Life Cycle Innovation for the Transition to a Sustainable Society” took place in September in Montpellier, France, and the the first SETAC Europe Focused Topic Meeting “Environmental and (eco) toxicological Omics and Epeigenetics: Science, Technology and Regulatory Applications” was jointly organized with the UK Environmental Omics Synthesis Centre (iEOS) and held in September in Ghent, Belgium.

### BRANCH HIGHLIGHTS

Within SETAC Europe five regional branches are active and focus on the specific needs and issues relevant to the region. The Arabian Gulf Branch, German Language Branch, Italian Language Branch, Russian Language Branch and the United Kingdom Branch. Five regional meetings were held in 2016, including two student meetings. Young scientists presented their research, and awards were presented for the the best work.

For more information about SETAC Europe’s regional branches, visit [www.setac.org/SEBranches](http://www.setac.org/SEBranches).

### FOCUS ON COMMUNICATION STRATEGIES

The SETAC Europe Council paid special attention to strengthening communication strategies in their long-range plan, including increased transparency in award procedures and strengthened European engagement with the SETAC journals. The council also laid the groundwork for a helpdesk on environmental issues.

### Europe Education Program



Launched in 2015, the SETAC Europe Certification of Environmental Risk Assessors (CRA) program provides an internationally recognized standard for environmental risk assessors. After one year, six scientists completed the certification, while more students and early career professionals are in different levels of the training process.

As part of the CRA program and the SETAC Europe Summer Schools, several workshops offered scientists and students up-to-date training and knowledge in environmental toxicology and chemistry throughout Europe.



For more information on the SETAC Europe CRA program, visit [certification.setac.org](http://certification.setac.org).



# ASIA-PACIFIC *SINCE 1997*

## Highlights of SETAC Asia-Pacific Meetings in 2016

2016 marked a productive year with many firsts. The 2016 SETAC Asia-Pacific Conference was held from 16–19 September in Singapore. The conference celebrated the GU's 20<sup>th</sup> anniversary and was the first SETAC Asia-Pacific meeting held in Southeast Asia. The theme was “Managing Environmental Quality in the Asian Century” as the SETAC community tackled the environmental challenges in this fast-growing region.

This was the first SETAC conference to establish the “Indigenous Knowledge and Values in SETAC and Environmental Science” session, focusing on inclusion of indigenous knowledge and values in SETAC science. The final SETAC Global Horizon Scanning Project Workshop was held at the conference, and discussed the research prioritization for Asia, marking the readiness to bring the project into implementation.

The 2016 SETAC Australasia Conference was held from 4–7 October 2016 in Hobart, the first time in Tasmania. The theme was “Industry, Science and Environment – Towards a Sustainable Future.” This was the first SETAC Australasia conference using social media through a Reddit ‘Ask me Anything (AMA)’ session to engage the public. Challenging scientific questions were posted – all met with knowledgeable and engaging answers by the participants.

### OUTREACH AND TRAINING

SETAC Asia-Pacific continued to extend its outreach to the tripartite community and build capacity in the region. The “Symposium on Chemical Risk Assessment Approaches and Needs for Asia-Pacific” was held during the conference in Singapore. SETAC members were joined by speakers from governments in Australia, China, Japan, Korea, Vietnam and Thailand to share the chemical management framework, best practices on risk assessment and management, and identified opportunities for promoting use of science in environmental policy and decision-making.

SETAC, together with the Indonesian Chemical Society, continued to engage the community in Indonesia by holding a professional course that focused on comprehensive and representative sampling and successful journal article publishing. The SETAC effort contributed to building the scientific capacity in Indonesia while strengthening awareness in the region.

On the organizational side, SETAC Asia-Pacific established the Asia-Pacific Student Advisory Council (APSAC). The student body will provide advice to the board on student engagement, needs and interaction on a global scale.



(Top) The Singapore conference started with the traditional Lion dance on September 16.



(Left) A ferry transports members to the conference dinner during the 2016 SETAC Australasia conference.



Jenny Stauber, Karluss Thomas, Patrick Guiney, Bruce Vigon and Kuan-Chun Lee with the Speakers at SETAC Symposium on Chemicals Risk Assessment Approaches.

# LATIN AMERICA *SINCE 1999*

## SETAC Latin America – Another Successful Year

The Brazilian Society of Ecotoxicology (ECOTOX-BRAZIL), SETAC Latin America, the Federal University of Paraná, the Pontifical Catholic University of Paraná and the Positive University jointly held the XIV Brazilian Congress of Ecotoxicology from 7–10 September in Curitiba, Paraná, Brazil.

The meeting brought together members from academia, government and business from 13 countries to learn, share their ideas and communicate their research across 192 oral presentations and 556 posters. Participants discussed technological advances and new challenges for ecotoxicology, the central theme of ECOTOX 2016. Interesting discussions occurred during mentor conversations, plenary talks and a debate session addressing “Ecotoxicology Outside of the Borders of Academia.” Student leaders from three of the SETAC geographic units met during the meeting and made great strides in sharing information. For the first time, students organized an environmental education outreach activity involving local public schools. The event was a huge success with a number of participants from the meeting expressing their interest in finding tools and approaches to advance the academic knowledge usually taught in Brazilian schools.

### SETAC ARGENTINA REGIONAL CHAPTER UPDATE

More than 330 representatives met at the VI Congress of the SETAC Argentina Regional Chapter from 11–14 October at the National University of Córdoba. The meeting theme was “Commitment Between Academia, Business and Government for a Better Environment.” Scientists from Argentina, Brazil, USA, Australia and Spain held five one-day short courses. In addition, attendees could choose from eight plenary talks, 15 symposia, 27 round tables, 42 platform and 228 poster presentations.

A new SETAC Argentina Chapter board was elected, and the seven members, including a student representative, will lead the chapter’s activities for the next two years.



To learn more about the SETAC Argentina Regional Chapter, visit [setacargentina.setac.org](http://setacargentina.setac.org).

## Upcoming Meeting

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

Santos, São Paulo, Brazil | 7–10 September 2017  
[sla2017.setac.org](http://sla2017.setac.org)

Bridging the Gap Between Science and Government



(Left) Diogo Cardoso, Blair Paulik and Jason Andersen pause for a photo during ECOTOX 2016.



(Bottom) Karina Miglioranza, Daniel Wunderlin, Valeria Ame and Fabi Lo Nostro gather during the VI Congress of the SETAC Argentina Regional Chapter.

# AFRICA *SINCE 2012*



## Highlights from SETAC Africa

SETAC Africa welcomed new executives Ikechukwu Onwurah, President, and Olawale Otitoju, Vice President, who were elected at the 2015 conference held in Langebaan, South Africa. As a first order of business, regular teleconferences were established to plan for the 2017 SETAC Africa meeting.

An encouraging number of SETAC Africa members attended SETAC Europe meeting in Nantes. In the words of Secretary Beatrice Opeulu, "SETAC Africa is indeed honored to have you in our corner." They promised to share their ideas to grow the geographic unit together. Two "good heads" they say are better than one; more than two are even better!

Six students and two members of the Board benefited from travel support and were able to attend the SETAC World Congress in Orlando. Otitoju Olawale represented SETAC Africa at the world council meeting, and co-chaired a successful SETAC Africa meeting on Thursday, 10 November. More than 25 members gathered to discuss strengthening interaction through social media, the call for session proposals, building support for students in the geographic unit, and increasing mentoring opportunities. The need for a strong SETAC Africa structure in terms of getting all members involved in community engagement and visibility projects' commencement was also noted.

The large number of African participants at the world congress in Orlando was greater than expected, and we believe this indicates we will have stronger SETAC Africa representation at future SETAC meetings.

## Upcoming Meeting

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

Nigeria | 17–19 October 2017  
[saf2017.setac.org](http://saf2017.setac.org)

Quality of African Environment; The Roles of Science, Industry and Regulators



(Top) SETAC Africa members socialize during a poster social at the SETAC World Congress in Orlando.



(Left) Ikechukwu Onwurah chats with students during the Global Partner Reception in Orlando.



(Bottom) SETAC Africa members gather for a photo in Orlando.





**THANK YOU  
TO ALL OUR  
MEMBERS FOR  
A SUCCESSFUL  
2016!**

# 2016 MEETINGS, WORKSHOPS AND SYMPOSIA

## SETAC NORTH AMERICA FOCUSED TOPIC MEETING

Denton, TX, USA | 17–19 March

Environmental Quality Implications of Unconventional Natural Gas Development

## 7<sup>TH</sup> SETAC WORLD CONGRESS/SETAC NORTH AMERICA 37<sup>TH</sup> ANNUAL MEETING

Orlando, FL, USA | 6–10 November

Fostering Environmental Science for an Ever-changing World

## SETAC PELLSTON WORKSHOP

Pensacola, FL, USA | 31 January–5 February

Environmental Hazard and Risk Assessment Approaches for Endocrine-Active Chemicals

## SETAC EUROPE/iEOS JOINT FOCUSED TOPIC MEETING

Ghent, Belgium | 12–15 September

Environmental and (Eco)toxicological Omics and Epigenetics: Science, Technology and Regulatory Applications

## SETAC EUROPE 26<sup>TH</sup> ANNUAL MEETING

Nantes, France | 22–26 May

Environmental Contaminants from Land to Sea: Continuities and Interface in Environmental Toxicology and Chemistry

## SETAC PELLSTON WORKSHOP

Valencia, Spain | 24–29 January

Co-organised with the SETAC-UNEP Life Cycle Initiative: Life Cycle Impact Assessment

## 2<sup>ND</sup> CARES WORKSHOP

Brussels, Belgium | 3–4 May

Chemicals: Assessment of Risks to Ecosystem Services (CARES)

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

Brussels, Belgium | 10–12 May

Risk Mitigation Measures, Risk Assessment and Labelling in the EU 28: Introduction to the MAgPIE Toolbox

## 3<sup>RD</sup> CARES WORKSHOP

Brussels, Belgium | 24–25 November

Chemicals: Assessment of Risks to Ecosystem Services (CARES)

## SETAC EUROPE WORKSHOP

Montpellier, France | 16–17 February

Improving Representation, Management and Mitigation of Spray Drift for Plant Protection in Arable Crops (DRAW)

## 22<sup>ND</sup> SETAC EUROPE LCA CASE STUDY SYMPOSIUM

Montpellier, France | 20–22 September

Life Cycle Innovation for the Transition to a Sustainable Society

## VI SETAC ARGENTINA CONGRESS

Córdoba, Argentina | 11–14 October

Commitment Between Academia, Business and Government for a Better Environment

## XIV BRAZILIAN CONGRESS OF ECOTOXICOLOGY

Curitiba, Paraná, Brazil | 7–10 September

Ecotoxicology Outside of the Borders of Academia

# 2017 MEETINGS

## 6<sup>TH</sup> YOUNG ENVIRONMENTAL SCIENTISTS MEETING

Stockholm, Sweden | 16–20 February  
[yes2017.setac.org](http://yes2017.setac.org)

Environmental Science in a Warming World

## SETAC PELLSTON WORKSHOP

Cornwall, ON, Canada | 1–7 April

Advancing the Adverse Outcome Pathway Concept – An International Horizon Scanning Approach

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

Brussels, Belgium | 7–11 May  
[brussels.setac.org](http://brussels.setac.org)

Environmental Quality Through Transdisciplinary Collaboration

## 2016 SETAC ASIA-PACIFIC CONFERENCE

Singapore, Malaysia | 16–19 September

Managing Environmental Quality in the Asian Century

## 2016 SETAC AUSTRALASIA CONFERENCE

Hobart, Tasmania | 4–7 October

Industry, Science and Environment – Towards a Sustainable Future

## 2017 SETAC AUSTRALASIA CONFERENCE

Gold Coast, Queensland, Australia | 3–6 September  
[setacgoldcoast2017.com.au](http://setacgoldcoast2017.com.au)

The Role of Environmental Toxicology and Chemistry in a Changing Environment

## SETAC NORTH AMERICA FOCUSED TOPIC MEETING

Denver, CO, USA | 6–8 September  
[mixtures.setac.org](http://mixtures.setac.org)

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

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

Santos, São Paulo, Brazil | 7–10 September  
[sla2017.setac.org](http://sla2017.setac.org)

Bridging the Gap Between Science and Governance

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

Nigeria | 17–19 October  
[saf2017.setac.org](http://saf2017.setac.org)

Quality of African Environment; The Roles of Science, Industry and Regulators

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

Minneapolis, MN, USA | 12–16 November  
[msp.setac.org](http://msp.setac.org)

Toward a Superior Future: Advancing Science for a Sustainable Environment

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

Barcelona, Spain | 28–29 November  
[lca2017.setac.org](http://lca2017.setac.org)

Consequential LCA for Decision Support

## SETAC TECHNICAL WORKSHOP

Pensacola, FL, USA | 3–8 December

Bioavailability-Based Water Quality Criteria



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

EcoTrac Consulting

The Capacity-Building Award was created in 2008 to recognize individuals or groups for their contribution toward building capacity in the environmental sciences within countries with developing economies.



Founders Award  
**NANCY DENSLow**

University of Florida

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



Herb Ward Exceptional Service Award  
**TIMOTHY J. CANFIELD  
AND EUGENE MANCINI**

Renamed in 1999 to honor Environmental Toxicology and Chemistry's founding Editor-in-Chief C. Herb Ward for his important contributions to the founding and development of SETAC, this award recognizes a SETAC member who has performed long-term, exceptionally high-quality service to the society.



Rachel Carson Award  
**DAVID W. SCHINDLER**

University of Alberta

Bestowed only once every four years at a SETAC World Congress, the award recognizes a scientist for their meticulous research and increasing awareness among the public for potential threats to the natural world.



SETAC/ICA Chris Lee Award  
**TAMZIN A. BLEWETT**

University of Alberta

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  
**FRANCESCA GISSI**

CSIRO

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 an Asia-Pacific or a Latin American university.

## SETAC Journals Best Paper Awards

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



Best Student Paper  
Sponsored by Colgate-Palmolive

**REBECCA S. LAZARUS**

U.S. Geological Survey

Exposure and food web transfer of pharmaceuticals in ospreys (*Pandion haliaetus*): Predictive model and empirical data. BA Rattner, BW Brooks, B Du, PC McGowan, VS Blazer and MA Ottinger. *Integrated Environmental Assessment and Management*, 11:1



Environmental Toxicology and Chemistry  
Best Paper Award

**ANDREU RICO**

Wageningen University, The Netherlands

Evaluating aquatic invertebrate vulnerability to insecticides based on intrinsic sensitivity, biological traits and toxic mode-of-action. Paul J Van den Brink. *Environmental Toxicology and Chemistry*, 34:8



Integrated Environmental Assessment and  
Management Best Paper Award

**TIM J. ARCISZEWSKI**

University of New Brunswick

Development of an adaptive monitoring framework for longterm programs: An example using indicators of fish healthscience reflect the goals of SETAC. Kelly R. Mukittrick. *Integrated Environmental Assessment and Management*, 11:4

# NORTH AMERICA AWARDS



Eugene Kenaga SETAC Membership Award

## **BRYAN BROOKS**

Baylor University

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.



Outstanding Regional Chapter Member Award

## **DAVID JANZ**

University of Saskatchewan

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.



SETAC/EA Jeff Black Fellowship Award

## **CHANTILLY HIGBEE**

Eastern Washington 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 Government Service Award

## **THOMAS AND CHRISTINE CUSTER**

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.

SETAC/Menzie Environmental Education Award

## **NATURE VISION**

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



## Student Travel Awards

SETAC North America Endowment Fund

## **KRISTIN BRIDGES**

University of North Texas

## **KRITTIKA MITTAL**

McGill University

## **CARLOS BARRIGA VALLEJO**

University of Nuevo León

Kevin Johnson Memorial

## **CHELSEA WILLIS**

University of Alberta

SETAC North America awarded more than 100 travel grants to students to go to the SETAC World Congress in Orlando, Florida.



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

# EUROPE AWARDS



SETAC Europe/EDANA Lifetime Achievement Award in Life Cycle Assessment

## ANGELINE DE BEAUFORT

European Corrugated Board Industry, The Netherlands

The award is presented biannually and recognizes the outstanding contributions of individuals and/or organizations in promoting life cycle thinking and improving LCA approaches.



SETAC Europe/NOACK-Laboratorien Environmental Education Award

## VOLKER GRIMM

Helmholtz Centre for Environmental Research – UFZ, Germany

The award honors activities in the dissemination of knowledge in the field of environmental sciences.



Young Scientist Award in Life Cycle Assessment

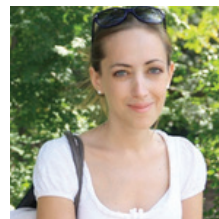
## ANDERS BJØRN

Technical University, Denmark

This Award is sponsored by LENZING AG and Springer Verlag and recognizes exceptional achievements by a young scientist in the field of life cycle assessment.

## SETAC Europe Best Publication Awards

Recognizing the outstanding contributions to environmental sciences in the form of a publication in a peer-reviewed scientific journal.



RifCon Best Publication Award in Ecotoxicology

## TSARPALI VASILIKI

School of Natural Sciences, Greece

Investigation of toxic effects of imidazolium ionic liquids, [bmim][BF<sub>4</sub>] and [omim][BF<sub>4</sub>], on marine mussel *Mytilus galloprovincialis* with or without the presence of conventional solvents, such as acetone. Alexia Belavgeni and Stefanos Dailianis, *Aquatic Toxicology*, 2015



SETAC Best Publication Award in Chemical Analysis and Environmental Monitoring

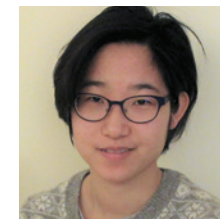
## GERT EVERAERT

Ghent University, Belgium

Multidecadal field data support intimate links between phytoplankton dynamics and PCB concentrations in marine sediments and biota. Frederik De Laender, Peter L.M. Goethals and Colin R. Janssen, *Environmental Science and Technology*, 2015

## SETAC Europe Young Scientist Awards

Honoring a young scientist for the best platform and poster presentation at the SETAC Europe Annual Meeting in Nantes, France.

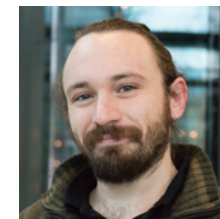


ECETOC Best Platform

## YUANG PAN

University of Sheffield, United Kingdom

Using the ecosystem services framework to link scientific research and policy-making; A case study of Lake Tai, China



SETAC Europe Best Poster

## RICCARDO MASSEI

Helmholtz Centre for Environmental Research – UFZ, Germany

Detection of cholinesterase inhibitors in water samples from Novi Sad (Serbia) using effect-directed analysis

SETAC Europe awarded 28 registration grants, 8 short course grants and 28 travel grants.



# ASIA-PACIFIC AWARDS



SETAC Asia-Pacific Lifetime Achievement Award

**GRAEME BATLEY**

CSIRO, Australia

Best Oral Presentation Awards

First Place

**ANDREW NOVIC**

University of Queensland, Australia

Second Place

**SARAH AU**

Clemson University, USA

Best Poster Presentation Awards

First Place

**S. REBEKAH BURKET**

Baylor University, USA

Second Place

**EUN-SU SHIN**

Pohang University of Science and Technology, South Korea

Developing Economy Participant Travel Awards

**SANKAR GANESH PALANI**

India

**ASIF QURESHI**

India

**YUNIANITA SUBROTO**

Indonesia

**BABI KAFLE**

Nepal

International Institute for Environmental Research (IIES) Student Travel Awards

**OYONO YANNICK**

University of Buea, Cameroon

**SARAH AU**

Clemson University, USA

**BI XIAOWEI**

Shanghai Jiao Tong University, China

**SUBHAVANA KATAKAM**

IIT Hyderabad, India

## SETAC Australasia Awards

SETAC Australasia Early-Career Medal

**ANNE TAYLOR**

University of Canberra

SETAC Australasia Mid-Career Medal

**GRANT HOSE**

Macquarie University

Best Student Oral Presentation

**DIVYA VINOD**

University of Technology, Sydney

Best Student Poster Presentation

**BRETT KNOWLES**

University of Wollongong

Science Communication Award (inaugural)

**INGRID ERRINGTON**

Macquarie University

SETAC Asia-Pacific awarded 19 additional travel grants to students to attend the Asia-Pacific biennial meeting in Singapore.



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

# GLOBAL PARTNERS AND AFFILIATES

## SETAC Global Partners



## SETAC Global Affiliates



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

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



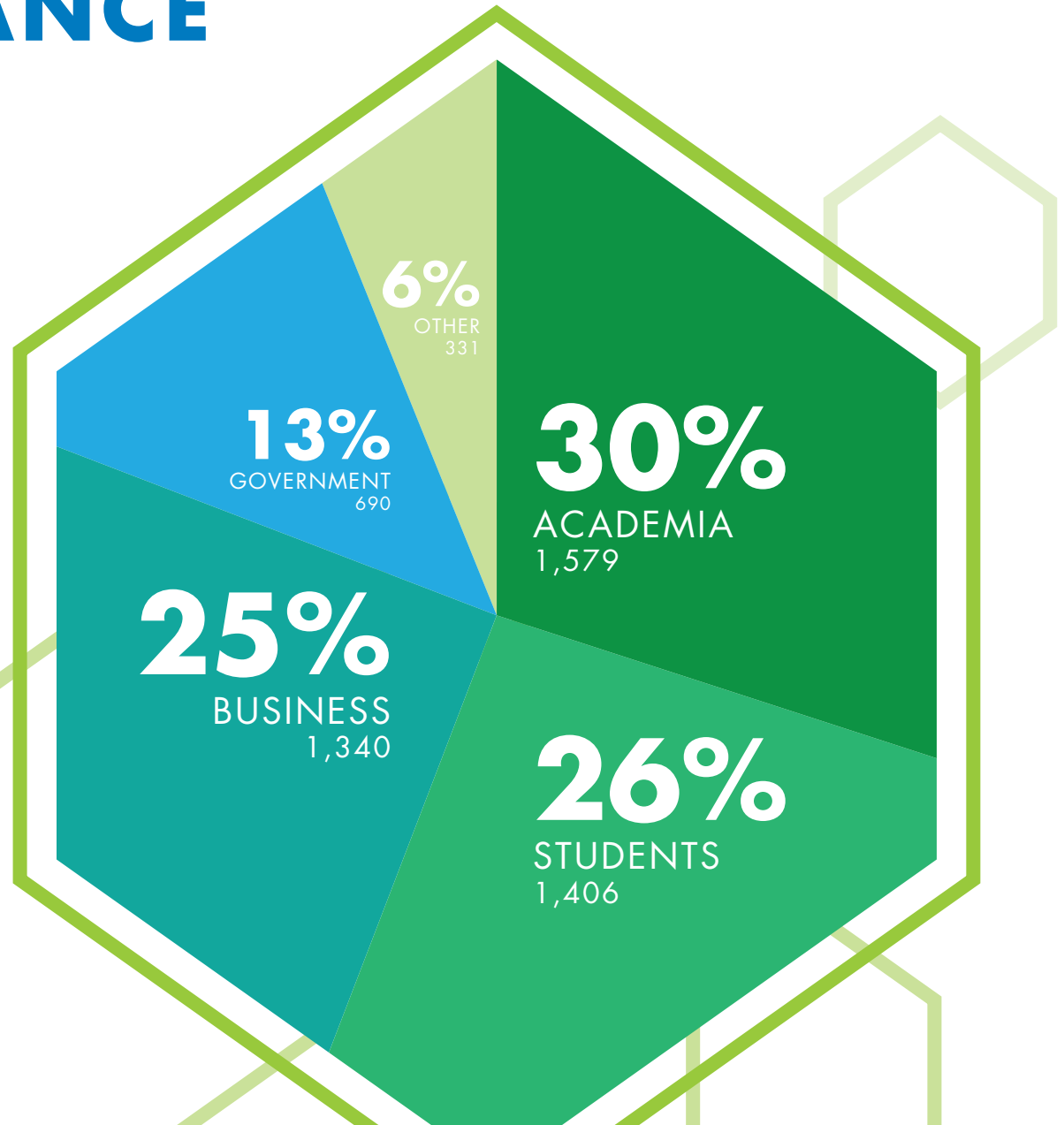
## SETAC Europe Nonprofit Partners





# TRIPARTITE 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.

## \$1,969,039

NET ASSETS

## \$3,426,714

TOTAL ASSETS

## \$1,457,675

TOTAL LIABILITIES

	OPERATING REVENUE	OPERATING EXPENSES
Europe	\$1,878,404	\$1,829,513
North America	\$1,952,620	\$1,924,813
World Council	\$1,267,496	\$1,381,347
Asia-Pacific	\$246,869	\$197,662
<b>Total</b>	<b>\$5,345,389</b>	<b>\$5,333,335</b>

	SOURCES OF REVENUE	AREAS OF EXPENSES
Annual Meetings	\$2,644,878	\$2,035,391
Workshops/Programs	\$401,079	\$496,171
Membership	\$985,486	\$151,021
Publications	\$544,671	\$527,997
Other	\$769,274	\$2,122,755
<b>Total</b>	<b>\$5,345,388</b>	<b>\$5,333,335</b>



Environmental Quality  
Through Science®

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

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