



SOCIETY OF ENVIRONMENTAL TOXICOLOGY AND CHEMISTRY

Annual Report

2012





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MISSION

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. Building on a strong track record in North America and Europe, membership growth and education in developing countries are important priorities for the Society's global program of activities, in recognition of the pressing environmental challenges confronting Asia/Pacific, Latin America and Africa.

Tripartite in Science, Dialogue 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, advisory groups and publications at a time when such objectivity is so critical to sound policy and societal decision-making.

PRESIDENT'S MESSAGE



SETAC President
Timothy Canfield

SETAC enjoyed one of its best years ever in 2012. Global engagement in leading international environmental efforts on chemicals management and mercury, active global advisory groups and several well-attended meetings across all of our geographic units were part of a full slate of activities which all led to a continuing growth of our membership. Through the continued support of the Global Partners and Affiliate Members, and the diligent work of many SETAC members and staff, we were extremely pleased to welcome SETAC Africa as a full geographic unit and SETAC Japan as a chapter of SETAC Asia/Pacific.

The 6th SETAC World Congress/SETAC Europe 22nd Annual Meeting in Berlin, Germany, in May was the highlight of a very active year filled with top-quality scientific meetings. The agenda featured a broad-based interdisciplinary program, addressing global sustainability and SETAC's role in contributing solutions to this crucial challenge. The discussion focused on what SETAC is doing to promote sustainability, both within the Society and as a contributor to the broader scientific community. We formed a new global advisory group to lead the discussion, and they issued a statement on sustainability that positions SETAC science within the global sustainability discourse. The meeting attracted a record number of attendees and was a great success due to the superb efforts of the local organizing committee under Henner Hollert and the science program committee chaired by Norbert Scholz.

The SETAC Asia/Pacific meeting in Kumamoto, Japan, and the SETAC North America meeting in Long Beach, Calif., USA, were similarly successful, were well attended and included sustainability as a significant theme. These

meetings were complemented by an impressive program of regional chapter and branch meetings across North America, Latin America, Europe and Asia/Pacific, again confirming that SETAC is a global Society with strong local roots.

Our science and outreach efforts continued to gather momentum in 2012. We welcomed Allen Burton as the new editor-in-chief of *Environmental Toxicology and Chemistry*, following Herb Ward's great work over the previous three decades in making ET&C a leading global journal for original, experimental and theoretical scientific work. And our newer journal, *Integrated Environmental Assessment and Management*, under the direction of Rick Wenning and Jenny Shaw, has proven to be a leader in innovative approaches that promote bridging the gap between scientific research and its application in environmental decision-making, regulation and management.

And I urge you to follow the Society's story via our very informative *SETAC Globe* newsletter, spearheaded by

Editor-in-Chief John Toll and Associate Editor Nancy Musgrove. The SETAC membership sincerely appreciates the time and effort that each of these individuals expend to help make SETAC a society that demonstrates and promotes Environmental Quality Through Science®.

SETAC continues to experience steady growth in membership, surpassing the 6,000 mark in 2012 at the 6th SETAC World Congress/SETAC Europe 22nd Annual Meeting, a 30 percent increase from the 5th SETAC World Congress held in 2008 in Sydney, Australia. We look forward to this positive trend continuing, given the great interest and needs of developing countries in linking to SETAC science and its network. In an effort to more effectively

connect our global operations across the five geographic units, to improve efficiency and consistency in our internal operations, and to provide the best possible service to our members, we upgraded our web portal and membership database in 2012. The new web portal also provides enhanced and more efficient networking opportunities for our members, committees and advisory groups.

SETAC, through its strong membership involvement and its staff members, will continue to help address ever-changing global environmental problems with top notch science. We look forward to the coming years with enthusiasm and confidence, toward celebrating SETAC and its success at our 7th World Congress in 2016 in Orlando, Florida, USA.

2012 SETAC World Council

President

Timothy Canfield, US Federal Government, North America

Vice President

William L. Goodfellow, EA Engineering, Science, and Technology, Inc., North America

Treasurer

David Phillips, Smithers Viscient, Europe

Immediate Past-President

Paul van den Brink, Alterra and Wageningen University, Europe

Board Members

Peter Campbell, Syngenta, Europe

Paolo Masoni, ENEA, Europe

Lucia Guilhermino, Universidade do Porto, Europe

Pedro Carriquiriborde, Universidad Nacional de La Plata, Latin America

Kenneth Leung, University of Hong Kong, Asia/Pacific

George P. Cobb, Baylor University, North America

Barnett Rattner, US Federal Government, North America

Miguel Mora, Texas A&M University, North America

Douglas J. Fort, Fort Environmental Laboratories, Inc., North America

Patrick D. Guiney, S.C. Johnson & Son, Inc., North America

Richard P. Scroggins, Environment Canada, North America

Michael C. Mozur, Global Executive Director, *ex-officio*



GLOBAL ENGAGEMENT

SETAC had a year of incredible successes in 2012. The Society held a landmark 6th World Congress in Berlin, with a record number of attendees, and opened the road to the 7th World Congress in Orlando in 2016. Moreover, SETAC welcomed Africa as a full geographic unit, embarked on a collective effort to bring the Society into the mainstream global discussion on sustainability, highlighted student participation around the world, and enjoyed continued cutting-edge scientific discussion. Having launched a new, more member-friendly web portal and published its first e-book, the Society made strides toward greater interactivity, networking and knowledge-sharing capabilities. Continuing to grow globally even in the context of global economic downturns, SETAC membership surpassed the 6,000 level in 2012.





Global–Local Balance

Equally important in challenging economic times, the SETAC World Congress in Berlin generated a very positive financial result that will help support SETAC Europe going forward. At the same time, impressive meetings in Kumamoto, Japan, and Long Beach, California, USA, plus large regional chapter meetings in all geographic units, made for an impressive balance between global and local SETAC science.

Cross-Organization Collaboration

The collaboration between North America and Latin America in the US National Science Foundation–funded Pan-American Studies Institutes short course on agro-industrial air pollution was very well received. SETAC’s partnership with UNEP, including the UNEP/SETAC Life Cycle Initiative, continued, as did its involvement with the Strategic Approach to International Chemicals Management (SAICM) and the 2012 International Conference on Chemicals Management (ICCM3) in Nairobi, Kenya. And as a formal observer in the UNEP Global Mercury Partnership, SETAC maintains active input into the ongoing global negotiations on mercury.



GLOBAL SCIENCE

Who We Are



What We Do

Meetings

2012 Geographic Unit Meetings



6th SETAC World Congress/
SETAC Europe 22nd Annual Meeting
Berlin, Germany



SETAC Asia/Pacific
2012 Annual Meeting
Kumamoto, Japan



SETAC North America
33rd Annual Meeting
Long Beach, CA, USA

Future Meetings

SETAC Europe 23rd Annual Meeting
May 2013, Glasgow, Scotland, UK

6th SETAC Africa Conference
September 2013, Lusaka, Zambia

SETAC North America
34th Annual Meeting
November 2013, Nashville, TN, USA

SETAC Europe 24th Annual Meeting
May 2014, Basel, Switzerland

SETAC Asia/Pacific 2014 Annual Meeting
September 2014, Adelaide, Australia

Publications in 2012

JOURNALS & BOOKS

ET&C Special Issue: Nanomaterials in the Environment; Special Series on Environmental Toxicology & Chemistry in Latin America, Special Series on Sources and Effects of Contaminants of Emerging Concern in Southern California Coastal Waters, Published six focus articles

IEAM: Virtual issue on Life Cycle Assessment and Sustainability, Special Series: Lab-Field Bioaccumulation Workshop, Special Series: Bayesian Networks in Environmental and Resource Management, Special Series: California's Sediment Quality Objectives, four new Podcast interviews

Books: ESCORT 3: Linking Non-target Arthropod Testing and Risk Assessment with Protection Goals

Advisory Groups

GLOBAL

Animal Alternatives in Environmental Science	Nanotechnology
Aquatic Macrophyte Ecotoxicology	Pharmaceuticals
Bioaccumulation Science	Sediments
Ecological Risk Assessment	Soils
Ecosystem Services	Sustainability
Ecotoxicology of Amphibians and Reptiles	
Endocrine Disruptor Testing and Risk Assessment	
Exposure Modeling	
Life Cycle Assessment Coordinating Group	
Metals	

EUROPE

Dung Organism Toxicity Testing
Environmental Monitoring-Pesticides
EXCESS
Life Cycle Assessment
Mechanistic Effect Modeling
REACH

NORTH AMERICA

Chemistry
Human Health Risk Assessment
Life Cycle Assessment

Workshops and Special Topic Meetings

2012	2013	2014
5 th SETAC Europe Special Science Symposium	Life Cycle Impact Assessment	Hydraulic Fracturing
MODELINK	Integration of Ecological and Human Toxicology in Adverse Outcome Pathways	Endocrine Disruption Focused Topic Meeting
Building for Better Decisions	Endocrine Disruptor Screening Program Workshop on Endocrine Disruption with TERA	Ecosystem Services
PASI: Air Quality at the Interface	7 th SESSS Nanoparticles in the Environment	Restoration of Impaired Ecosystems
Latin American Aquatic Risk Assessment of Pesticides	8 th SESSS Pollinators	
6 th SETAC Europe Special Science Symposium	19 th LCA Case Studies	
Passive Sampling Devices	9 th SESSS Marine Ecotoxicology	
18 th LCA Case Studies		

International Activities

UNEP/SETAC Life Cycle Initiative	UNEP Global Mercury Partnership
SAICM and ICCM	Global Negotiations on Mercury
International Organization for Standardization	Global Environment Fund Report
Stockholm Convention	

Training

Professional Training Courses
Summer and Winter Schools
SAICM Capacity Building
eLearning

PUBLICATIONS

Books

Since 1987, the Society has published more than 120 books. In 2012, SETAC distributed nearly 2,000 books worldwide. Under the guidance of volunteer Coordinating Editor of SETAC Books Larry Kapustka and Publications Advisory Committee Chair Gary Ankley, the Society produced its first e-book in 2012, “ESCORT 3: Linking Non-target Arthropod Testing and Risk Assessment with Protection Goals.”

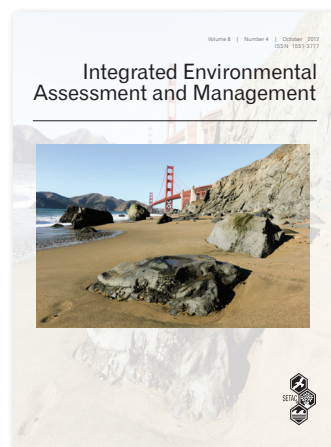
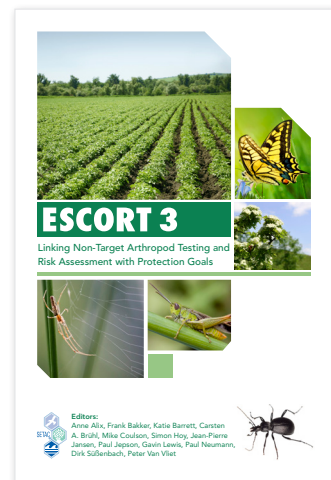
Journals

In collaboration with Wiley-Blackwell, SETAC publishes two distinct, highly respected scientific journals: *Environmental Toxicology and Chemistry* and *Integrated Environmental Assessment and Management*. Over the years, the journals have broadened their reach through participation in philanthropic initiatives, such as the Research4Life program and by embracing aspects of Open Access. In ET&C Critical Reviews and Focus Articles are always freely accessible. In IEAM, Learned Discourses and Book Reviews are always freely accessible. In addition, both journals open one full volume from a prior year and the first issue of the current year. Open Access options are always available to authors, and the journals work diligently to respond to open access funding mandates and requirements across the globe.

Integrated Environmental Assessment and Management

Since its inception in 2005, *Integrated Environmental Assessment and Management* (IEAM) has provided a unique and much-needed forum for the application of new scientific information to some of the world’s most difficult global environmental challenges. In the past two years, for example, IEAM has published groundbreaking papers written by leading scientists and policy-makers addressing new strategies for global assessment of widely used pesticides (Forbes et al. 2009 5(1); Hommen et al. 2010 6(3)), evaluation of emerging toxic chemicals (Buck et al. 2011 7(4); Gobas et al. 2009 5(4)) and the dangers posed by invasive species in the aquatic environment (Panov et al. 2009 5(1)). The journal’s online usage has quadrupled over the last two years, a tremendous success under Editor-in-Chief Richard J. Wenning.

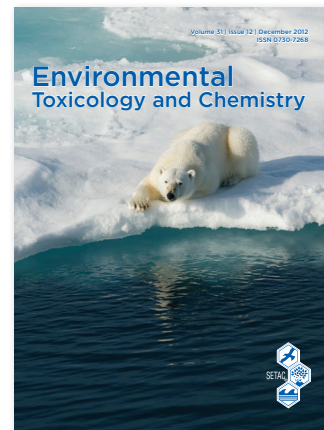
James Meador, the journal’s podcast editor, has worked with Jenny Shaw, the voice of IEAM and its Managing Editor, to produce a podcast that corresponds with an article in every issue. In 2012, the podcasts discussed NOELs and LOELs with Wayne Landis and Peter Chapman, Contaminated Sediment Sites with Todd Bridges, Bayesian Networks with David Barton and California Sediment Quality Objectives with Steve Bay.



Environmental Toxicology and Chemistry

Environmental Toxicology and Chemistry (ET&C) is the flagship research journal of SETAC. It has become a leader in the field over the course of 31 years, with an impressive impact factor (2.809) and contributions from more than 50 countries. Focus Articles, which were introduced in 2010, have become some of the most heavily read articles in the journal, and Editor-in-Chief Allen Burton worked to produce 6 in the 2012 year. In addition, ET&C reduced its time to publication significantly by streamlining internal processes, and it introduced a new subject area editor in non-chemical stressors.

The SETAC Publications Advisory Council worked with journal editors to identify the most highly cited articles ever published, and in 2013, these influential authors will contribute reviews that provide updates, assess the original challenges, evaluate how these were met, and address the remaining uncertainties in the field.



Globe Newsletter

With a well-deserved, high rate of readership, the SETAC Globe reaches the Society's 6,000 members every month, reporting on articles and announcements from SETAC meetings—whether the level is global, geographic unit or regional—and on reports from members, student councils, committees and advisory groups as well as Society officers, directors and managers. Led by Editor-in-Chief John Toll, the 2012 *Globe* featured updates on the success of the SETAC Europe Nano Training School, the launch of a new advisory group on the Effects of Extreme Stress on Ecosystems and Subsequent Recovery (EXCESS), toxicological and environmental health issues in Sub-Saharan Africa, a new carbon neutrality initiative from SETAC North America, the Berlin World Congress sustainability discussion, the activities of the IV Congress of SETAC Argentina, and an array of topics and awards from the SETAC Asia/Pacific conference in Kumamoto, Japan, among many others.



ADVISORY GROUPS

SETAC Advisory Groups provide forums in 22 topical areas across environmental and transdisciplinary science. In 2012, the groups sponsored dozens of platform and poster presentations at SETAC meetings in Berlin, Long Beach and Kumamoto, highlighting interests and activities that are far-reaching, innovative and collaborative. Advisory Groups also offer significant liaisons with other organizations, and they act as incubators for the development of focused topic meetings, workshops and symposia that are vital to the networking aspect of SETAC that is so prized by its members.

SETAC Global Advisory Groups

Animal Alternatives in Environmental Science

The AAAG seeks to identify when and where alternatives to animal tests are appropriate and how they can be used in environmental risk assessment. During the 2012 SETAC annual meetings, AAAG promoted broad information sharing, specifically with the Organisation for Economic Co-operation and Development Fish Testing Framework, the HESI Animal Alternatives in Environmental Risk Assessment Committee and the Euroecotox network (7th Framework Programme). Co-Chairs: Scott Belanger, The Procter & Gamble Company; Michelle Embry, ILSI HESI.

Aquatic Macrophyte Ecotoxicology

Championing approaches to assess the effects of chemicals on aquatic macrophytes and their use in ecological risk assessment, the objectives of AMEG are to provide scientific advice, practical guidance, and communication and education across European Union, Canadian and US directives and regulations. AMEG members participated in workshops and conferences that included the International Symposium on Aquatic Plants in Poznań, Poland. The Myriophyllum and the Species Sensitivity Distribu-

tion Working Groups continued their activities, while new groups are under discussion. Co-Chairs: Gertie Arts, Alterra, Wageningen University Research Center; Mark Hanson, University of Manitoba.

Bioaccumulation Science

The 'B' SAG advances the state of bioaccumulation science and increases the use of sound science in decision-making by using models and in vitro and in vivo data for bench-scale, site-specific and regional bioaccumulation assessments. In 2012, 'B' SAG organized the workshop "In vivo Methods for Bioaccumulation Assessment" with the HESI Bioaccumulation Project Committee and the German Federal Environment Agency, publishing a summary in the *SETAC Globe* that is the most-read article to date. Co-Chairs: Henriette Selck, Roskilde University; Mark Lampi, ExxonMobil Biomedical Sciences Inc.

Ecological Risk Assessment

ERA AG operates to advance the science, practice and application of ecological risk assessment and to encourage harmonization of assessment methods. It was changed to global status in 2012 and held the first global ERA AG meeting and contributed to an Ecosystem Services short course at the Berlin meeting. Co-Chairs: Mary Sorensen, ENVIRON; Mark Johnson, US Army Center for Health Promotion and Preventive Medicine.

Ecosystem Services

ES AG works as a focal point within SETAC, particularly with the ERA AG and GSAG, for information and ideas on the ecosystem services concept in risk assessment and management, environmental regulation and valuation. ES-AG was well represented at the 5th SESSS in February 2012. Though ecosystem services is neither a chemical nor an ecotoxicological topic, it provides a useful framework for a holistic approach to environmental stressors. Even without the presence of “traditional” stressors such as chemical contamination, the concept is relevant to investigating effects of land-use planning and other spatial aspects such as landscape fragmentation. Tri-Chairs: Joke Van Wensem, TCB; Lorraine Maltby, University of Sheffield; Tim Canfield, US Government.

Ecotoxicology of Amphibians and Reptiles

The EARAG sponsored successful platform sessions at SETAC meetings in 2012, highlighting active research on the impact of environmental contaminants on amphibian and reptile health, such as the biological effects measured in wild populations and dose–response exposures, and the development of approaches to evaluate effects of contaminants on reptiles. The EARAG attended the World Congress of Herpetology and is collaborating with the ERA AG to prepare a manuscript on amphibians and reptiles risk assessment, an area of recognized need. Co-Chairs: Christine Bishop, Environment Canada; Jamie Bacon, Bermuda Zoological Society.

Endocrine Disruptor Testing and Risk Assessment

The EDTRA AG was approved in mid-2012 to serve as a scientific resource to stakeholders impacted by endocrine disruption and to advance understanding of fate, effects and potential risk consequences of known and suspected endocrine disruptors, thereby supporting effective regulatory decision-making. The 6th SESSS on environmental endocrine disruptor testing and evaluation in Brussels provided a sound overview of related regulation, with all its unsolved issues and shortcomings as well as its achievements. The EDTRA AG is planning a focused topic

meeting in early 2014 in North America to continue these discussions. In the interim, the group began a Technical Issue Paper and has linked directly to other relevant AGs, especially the ERA AG and the HHRA AG. Chair: Tom Hutchinson, CEFAS, UK.

Exposure Modeling

The EMAG concentrates on developing quantitative models that describe the behavior and exposure pathways of chemical, biological and physical contaminants in the environment and for human and ecological populations. In 2012, several current and former members of the EMAG published an article in IEAM, addressing the need for the formulation and implementation of multimedia chemical fate and transport models for use in regulatory decision-making, the result of a collaborative effort spanning 3 years. In addition, EMAG members held a one-week course on Environmental Modeling for Chemical Exposure Assessment as part of the Postgraduate Course Program in Ecotoxicology, University of Osnabrück, Germany. Co-Chairs: Louis Thibodeaux, Louisiana State University; Justin Birdwell, US Geological Survey.

Life Cycle Assessment Global Coordinating Group

In 2012, the LCA GCG provided expert commentary on an international standard on water footprinting and a technical specification on critical review. They planned a series of methodology harmonization workshops on impact assessment in collaboration with the UNEP/SETAC Life Cycle Initiative with input from both geographic unit-level LCA AGs. The group offers a forum to identify, resolve and communicate LCA issues, facilitates guidance for LCA development and implementation, and coordinates activities of all LCA AGs through their representatives. As a result of the Berlin Declaration on Sustainability, the group also collaborates with the SETAC sustainability community. Global Coordinator: Nydia Suppen-Reynaga, Centro ACV. GU. Co-Chairs: Christian Bauer, SIG International Services GmbH, Europe; Jane Bare, US Federal Government.

Metals

The MAG apprises members of science developments and regulatory directions related to metals and metallic compounds, making use of SETAC annual meetings to present the latest research on the chemistry and toxicology of metals as well as the application and advancement of this research in environmental policy. In 2012, MAG moved to the global level with exciting prospects for enhanced activity. The Mercury Work Group, SETAC liaison to the UNEP Global Mercury Partnership, was particularly active, assembling papers for submission to ET&C. Tri-Chairs: Bill Stubblefield, Oregon State University; Jim McGeer, Wilfred Laurier University; Ilse Schoeters, Rio Tinto.

Nanotechnology

Nano AG activities in 2012 included publishing three papers in ET&C and convening a presentation at the Berlin meeting on the EU/US Communities of Research. The National Nanotechnology Initiative in the US and analogous organizations in the EU are promoting collaboration on a nano-related topics, including ecotoxicology and environmental fate. Nano AG is dedicated to nanomaterials technology, definition and characterization, as well as related fate and behavior, toxicokinetics and bioaccumulation, ecotoxicology and risk assessment frameworks. Co-Chairs: Bart Koelmans, Wageningen University; Jason Unrine, University of Kentucky.

Pharmaceuticals

Devoted to the study of bioactive properties of pharmaceuticals, addressing concerns about environmental risk assessment methodology, and assessing the potential environmental impact of pharmaceuticals, the PAG analyzed the top 20 questions about pharmaceuticals and plant protection products in order to prioritize its activities. The questions were discussed at the SETAC World Congress in Berlin and will be used to explore how best to address them in the future. In addition, the PAG delivered scientific support at the International Conference on Chemicals Management of SAICM in Nairobi, Kenya, and at SETAC annual meetings. Chair: Alistair Boxall, University of York.

Sediments

The SEDAG focuses on environmental aspects of the quantity and quality of sediments, both as deposits and as suspended matter in freshwater, estuarine and marine environments, including all fields pertinent to effective environmental risk assessment and management of sediment: transport, fate, exposure, effect, impact analysis, guideline values and frameworks, and management strategies. The AG's most significant activities were developing and advertising sediment-related sessions at meetings, providing opportunities for members to discuss science and sediment issues and to develop opportunities for collaboration. Co-Chairs: Paul Sibley, University of Guelph; Stuart Simpson, CSIRO.

Soils

Global Soils Advisory Group (GSAG) provides a scientific basis for and guidance in all aspects of soil testing on the laboratory, semi-field and field levels, soil-related risk assessment methodologies, and soil ecotoxicology, for the benefit of the overall risk assessment of chemicals and of contaminated soil, including effects of nonchemical stressors such as compaction or climate change. GSAG is interested in expanding SETAC's liaison with the International Organization for Standardization (ISO) and will pursue discussions with the LCA GCG on how best to accomplish this. Co-Chairs: Mónica Amorim, Universidade de Aveiro; Michael Simini, US Army Edgewood Chemical Biological Center.

Sustainability

The Sustainability Advisory Group advances the scientific, philosophical and educational foundations of sustainability, serving as a resource to SETAC, environmental scientists, decision-makers and society on issues that contribute to policy development, outreach and education within and outside of SETAC. The AG includes such varied disciplines as chemistry, toxicology, ecology, social sciences, environmental economics and decision science. In 2012, the AG supported the SETAC Berlin Declaration on Sustainability, furthered the formation of implementation work groups, and will be developing a Sustainability in SETAC work plan in 2013. Co-Chairs: Cynthia Stahl, US Government; Norbert Scholz, Evonik.

SETAC North America Advisory Groups

Chemistry

The CAG continued its successful support to nonmember faculty and graduate students with the SETAC–American Chemical Society Environmental Division student exchange, whose 2012 winner was Cora Young, Memorial University. The award covers registration and hotel expense for the SETAC North America annual meeting to introduce chemists and their students or mentees to the Society, and it provides travel support for the student to present their research at an ACS meeting. The CAG's goals are to improve and sustain the inherent interdisciplinary nature of SETAC in members and expertise, and to increase awareness and relevance of environmental chemistry. Chair: Sascha Usenko, Baylor University.

Human Health Risk Assessment

HHRA AG addresses interactions between human activities and environmental exposures. Scientific coverage of environmental contaminants includes all fields pertinent to conducting effective environmental risk assessments for human health impacts such as transport, fate, exposure, effect and impact analysis. All environmental compartments, such as aquatic, terrestrial, air and biomass, are included. HHRA AG co-sponsored sessions at the Society of Toxicology annual meeting and reciprocally at the SETAC Long Beach meeting. An Endocrine Disruption Work Group was formed and is collaborating with the new EDTRA AG. Chair: Betty Loccy, ARCADIS.

Life Cycle Assessment

The LCA AG participated in the SETAC LCA community as both the geographic representatives to the newly established LCA GCG and the developers of an ambitious regional program that may expand to the global level. The LCA AG is developing a workshop series on impact assessment methodologies with the LCA GCG, with the first installment to be held in Glasgow at the SETAC Europe meeting in 2013. Co-Chairs: Jane Bare, US Federal Government; Scott Butner, US Department of Energy.

SETAC Europe Advisory Groups

Dung Organism Toxicity Testing

The DOTTS Advisory Group exchanges information about testing the effects of veterinary drugs on dung organisms, notably to develop, standardize and validate test protocols for toxicity testing with dung flies and dung beetles. Much of the original work of DOTTS has been completed, particularly in relation to the standardization of OECD test guidelines, so the focus of the group has shifted to improving test strategies and risk assessment procedures. Starting from a joint meeting during SETAC Berlin, DOTTS will intensify its cooperation with people working on the fate of veterinary pharmaceuticals in dung. Chair: Jörg Römbke, ECT Ökotoxikologie GmbH.

Environmental Monitoring Advisory Group on Pesticides

The EMAG-Pest AG responds to the increased need for monitoring and post-registration studies in Europe in the context of the decision-making process for plant protection products. Working groups focus on four areas: terrestrial vertebrates, terrestrial invertebrates including foliar and soil organisms, surface water and aquatic organisms, and ground water. The AG regularly is invited to present its work in scientific meetings such as the annual Informa meeting and the Fresenius meeting on ecotoxicology. Particular emphasis is given to links with the MeMoRisk AG, with the aim of generating reliable data for model parameterization and extrapolation issues. Co-chairs: Anne Alix, Dow AgroSciences; Martin Strelöke, BVL.

Extreme Stress Events and Ecosystem Recovery

The long-term objective of the EXCESS AG, approved in early 2012, is to promote research on ecosystem impacts of chemical spills and subsequent recovery. Its short-term objective is to assemble expertise on all related aspects, from monitoring to predictive modeling, and to synthesize this expertise in a publication. The preparation of the review manuscript was initiated in summer 2012, and the resulting draft will be discussed at the SETAC Europe meeting in Glasgow in 2013. Co-chairs: Frederik De Laender, UGent; Lúcia Guilhermino, University of Porto.

Mechanistic Effect Models of Ecological Risk Assessment

The MeMoRisk AG focuses on the use of mechanistic effect models at organism, population, community and ecosystem levels within the European Framework for authorization and registration of chemicals such as plant protection products, biocides, pharmaceuticals and industrial chemicals. Such modeling is considered a promising tool to achieve more ecologically relevant risk assessment of chemicals, both in European Food Safety Authority and the Scientific Committees of the EU. In 2012, the AG proposed a technical MODELINK workshop on the use of population models in the risk assessment of pesticides. Collaborative efforts with EXCESS and ERA AGs have been discussed, and the joint ERA AG–MeMoRisk session in Long Beach was a first step in that direction. Co-chairs: Thomas Preuss, RWTH Aachen University; Udo Hommen, Fraunhofer IME.

REACH

The primary aim of this AG is to serve as a focal point in SETAC Europe for REACH-oriented discussions and activities, specifically with regard to regulatory concerns, in order to encourage and channel scientific activities, enhancing exchange of scientific information among experts in relevant fields and promoting the further development of scientific solutions. REACH AG aims to facilitate the formulation of technical guidance by the European Chemicals Agency. Chair: Tim Kedwards, S. C. Johnson Ltd.

To join one of the advisory groups, simply go to www.setac.org > get involved > advisory groups



Annual Meeting Sessions Sponsored by Advisory Groups

AAAG

- Alternative Methods for Evaluating Toxicity

AMEG

- Aquatic and Terrestrial Plant Ecology, Ecotoxicology and Risk Assessment

'B'-SAG

- Advances in Assessing the Bioaccumulation and Bioconcentration of Ionisable Organics and Sediment to Tissue and Tissue to Sediment
- Advantages and Disadvantages of Using Trophic Magnification Factors to Assess Food Web Biomagnification

CAG

- Designing Safer Chemicals with Minimized Unintentional Biological Activity and Safer Consumer Products

EARAG

- Amphibians and Reptile Ecotoxicology
- Needs and Challenges for Protecting Amphibians and Reptiles from the Impact of Environmental Pollutants

EDTRA AG

- Endocrine Disruptors: Identification, Quantification, Hazard and Risk Assessment

EMAG

- Monitoring Data and Post Registration Studies of Pesticides

ERA AG

- 21st Century Environmental Risk Assessment
- Effect Modeling for Ecological Risk Assessment
- Mechanistic Effect Models for Ecological Risk Assessment (with MeMoRisk and CREAM)
- Spatially Explicit Wildlife Exposure Models

ES-AG

- Ecosystem Services and Environmental Stressors

EXCESS

- Environmental Risks and Hazards of Oil and Gas Exploration

GSAG

- Ecotoxicity, Fate, and Risk Assessment of "Materials of Importance to the Military"
- Ecotoxicology and Risk Assessment of Soils
- Soils: Toxicity, Risk Assessment, and Clean-up Values
- Development and Application of Soil Ecotoxicology Tools and Regulatory Schemes for Non-temperate Regions
- Environmental Omics
- Soil Ecotoxicology

HHRA AG

- Concepts Critical to the Next Generation of Human Health and Ecological Risk Assessment (with the Society of Toxicology Risk Assessment Specialty Section)
- Methods and Tools for Effective Human Health and Ecological Risk Communication
- PAH in the Environment
- The USEPA Endocrine Disruptor Screening Program (EDSP)

LCA GCG

- LCA for Emerging Technologies and Life Cycle Impact Assessment Resource Depletion
- Exploring the Role of Life Cycle Assessment in Supporting, Steering and Evaluating Policies
- Increasing the Robustness in Life Cycle Impact Assessment Methods
- Managing Complexity, Uncertainty and Variability in LCA
- Progress in Life Cycle Sustainability Assessment and Social Life Cycle Assessment

MAG

- Bioassessment of Metal Impacts on Freshwater Benthos and Fish
- Ecological Soil Levels and Next Steps in the Development of Metal Cleanup Values
- Fate and Effects of Metals: Aquatic Biological Perspective
- Fate and Effects of Metals: Marine Concerns
- Fate and Effects of Metals: Regulatory and Risk Assessment Perspective
- Global Mercury Pollution UNEP Partnership IV
- Modelling and Interpreting Effects of Metals Mixtures

MeMoRisk AG

- Examples for Use of Ecological Models in Chemical Risk Assessments (with Chemicals Advisory Group)

Nano AG

- Environmental Fate and Effects of Engineered Nanomaterials

PAG

- Ecological Consequences of Exposure to Pharmaceuticals
- Environmental Exposure and Effects of Pharmaceuticals and Veterinary Medicines

Sediments

- Water and Sediment Toxicity Testing with the Amphipod *Hyalella azteca* and Midge *Chironomus*
- Whisky Production in a Sustainability Context (with ES-AG)

WORKSHOPS & SPECIAL TOPIC MEETINGS

SETAC is known and respected for its preeminent global workshops, in particular those described as Pellston workshops in recognition of the inaugural 1970s workshop that brought together leading scientists from academia, businesses and governments around the world to address pressing scientific issues. Decades later, SETAC has held more than 50 Pellston workshops, each focusing on a relevant environmental topic with proceedings published as a peer-reviewed report, book or journal article compilation. In 2012, the SETAC Europe Special Science Symposium (SESSS) celebrated its 6th iteration, and the Life Cycle Assessment Case Studies series held its 18th event.

5th SESSS: Ecosystem Services: From Policy to Practice

The 2-day symposium in Brussels, Belgium in February 2012 provided an overview of the use of the ecosystem services concept, ranging from policy views to practical applications. The symposium highlighted a number of opportunities associated with implementing the ecosystem service approach in environmental management and protection, and identified several scientific and technical challenges that remain to be addressed. More than 60 international participants came to the general consensus that the ecosystem services concept is regarded as a guiding principle for sustainability and is accepted and endorsed by policy makers, academics, businesses, practitioners and funding agencies. Papers presented at this symposium will be published in a special issue of the SETAC journal IEAM in spring 2013.

MODELINK

The goal of the SETAC Europe technical workshop MODELINK is to provide guidance for when and how to apply ecological models to regulatory risk assessments. Such guidance is essential because risk assessment questions, data and protection goals vary across chemicals, ecosystems and species. The workshop is divided into two parts, separated by a period of smaller group case studies, comparing classical risk assessments to those using ecological effect models. The first meeting of the MODLINK workshop was successfully

held in October in Le Croisic, France. The second meeting is set for April 2013, when the individual case studies will be discussed and general recommendations on the use of effect models in pesticide risk assessment will be derived.

Building for Better Decisions: Multi-Scale Integration for Human Health and Environmental Data

SETAC was one of several professional societies that co-sponsored a recent Society of Toxicology “Contemporary Concepts in Toxicology” workshop, held in May at the USEPA Campus in Research Triangle Park, NC, USA. The workshop provided a unique opportunity for environmental and human health scientists to discuss the timely topics of data integration, data management and model interface needs with software developers, software engineers, database architects and administrators, and data analysts. The group developed ideas and analyzed data and modeling needs for how a fully interconnected and interoperable world of risk and sustainability assessment could (or even should) look like in the coming decades.

Air Quality at the Interface: Megacities and Adjacent Agroecosystems

In collaboration with the Pan-American Advanced Studies Institute (PASI) and with funding from the US National Science Foundation and Baylor University, SETAC brought

together graduate and post-doctoral scientists from the Americas for a 9-day instructive course in August 2012 in La Plata, Buenos Aires, Argentina. Leading experts addressed air quality issues in and near megacities and



chemical exchange with adjacent extensive agroecosystems. Intended to broaden the students' scientific background and international perspective, the course targeted objectives on measurement of urban and agricultural pollutants, atmospheric fate and transport, and local and regional modeling. Working in small groups and sharing intense interaction with instructors, the students also benefited from a team research process.

Latin American Risk Assessment of Pesticides (LATARAP)

The first SETAC workshop in Latin American was held 10–12 October 2012 in Buenos Aires, Argentina. Experts from the Americas and Europe came together to review and elaborate on aquatic risk assessment frameworks for use in Latin America. Participants discussed protection goals, effects and exposure assessments, risk characterization and mitigation. A guidance document for aquatic risk assessment that can be implemented into the evolution of Latin America pesticide regulation is currently being produced, and a workshop overview will be published in IEAM in 2013.

6th SESSS: Environmental Endocrine Disruptor Testing and Evaluation

More than 120 regulators and scientists gathered in Brussels, Belgium, in October 2012 to address how suspected endocrine-disrupting chemicals should be tested and regulated. The symposium focused on the different approaches in the European Union, United States and Japan, and addressed new testing methods and strategies which will in future be used

to test a very large number of existing chemicals in a much more efficient way. An important discussion ensued on how EU regulatory criteria can be drafted to identify endocrine disrupting chemicals that are a real threat to the environment. As a next step, SETAC North America is organizing a Focused Topic Meeting on Endocrine Disrupting Chemical Testing and Risk Assessment Approaches and Implications.

Guidance on Passive Sampling Methods to Improve Management of Contaminated Sediments

Management of contaminated sediments is a global challenge. Given the high costs and slow progress associated with remediation of contaminated sediments, the workshop, held November 2012 in Costa Mesa, Calif., USA, addressed the need for new approaches to achieve more timely and accurate risk reduction. Passive sampling methods (PSMs) that target the freely dissolved concentrations of contaminants in sediment with a reference sampling phase provide a new paradigm for overcoming traditional limitations by directly measuring contaminant bioavailability. International experts from business, academia and government sought to promote understanding of PSMs and provide recommendations for current and future use in contaminated sediment management decisions. The scope covered freshwater, estuarine and marine sediments, and major contaminant classes. The executive summary of this workshop is available for free online at www.setac.org, and detailed workshop proceedings will be submitted to the SETAC journals ET&C and IEAM.

18th LCA Case Study Symposium

A sold-out event, the symposium was held in November 2012 in Copenhagen, Denmark, and included poster and platform presentations, special and interactive sessions, software developers fair, poster dinner and training courses addressing Sustainability Assessment in the 21st Century—Tools, Trends and Applications. The symposium focused on the experiences gained in business, government and academia on the application of LCA and new tools for sustainability assessment. This included environmental “footstep” assessments such as carbon, water or chemical footprints, as well as life cycle-oriented tools for assessing other dimensions of sustainability. The 2013 LCA Case Study Symposium will be held in Rome, Italy.

EDUCATION & TRAINING

Education and training are long-standing strategic and operational priorities for the Society. Offering professional development at all career levels, the program has traditionally relied on courses that address current and cutting-edge topics and that are delivered at major geographic unit and regional meetings. As the program has evolved, it has expanded into the realm of online learning opportunities to complement the face-to-face experiences.

Podcasts and Videocasts

Each issue of the SETAC journal *Integrated Environmental Assessment and Management* results in a timely and topical podcast, and in 2012 those topics ranged from the provocative “Well Past Time to Stop Using NOELs and LOELs” to the protective “What’s Up with California’s Mud?” on sediment quality objectives. In addition to these innovative communications from IEAM, *Environmental Toxicology and Chemistry* provided SETAC members and nonmembers alike with a video roundtable on Nanomaterials in the Environment—a discussion among six experts, with simultaneous transcription and translation to Spanish.

Professional Development

Quality professional training (“short”) courses remain the Society’s educational forte, aligned to annual meetings. Eight short courses were offered at the SETAC World Congress/SETAC Europe meeting in Berlin. The SETAC North America meeting in Long Beach featured nine training courses, one of which presented an online video overview. In Kumamoto in September, SETAC Asia/Pacific joined with other organizations to offer professional development events at both the beginning and the end of their annual meeting. The following course samples illustrate the breadth and depth of SETAC learning opportunities.

Europe

- Linking Community Data and Exposure for Mesocosms and Field Investigations
- The Endocrine System: The Good, the Bad and the Regulations
- Evolution and Practical Application of Ecosystem Services in Environmental Decision-Making
- Handling Regionalisation at the Global Scale in Life Cycle Impact Assessment
- Passive Dosing of Hydrophobic Organic Chemicals

Asia/Pacific

- Effects-directed and Mode-of-Action-based Analysis: A Tool for Integrated Exposure and Effects Analysis and Risk Management
- Recent Advances in Mercury Toxicology and Environmental Health

North America

- Science Communication: Talking to the Public and the Media
- Statistical Issues in the Design and Analysis of Ecotox Experiments
- Coal Combustion Byproducts: Chemistry, Toxicity and Environmental Risk
- Implications of Nanomaterials: Synthesis, Characterization and Ecotoxicology

Summer and Winter Schools

Scientists of diverse backgrounds and education levels are afforded the unique opportunity to attend SETAC Europe Summer and Winter Schools that include time for teaching, exchanging ideas and assessing knowledge, as well as hands-on experience and case studies. In 2012, four such courses were offered in Portugal and one in Italy:

- **Ecotoxicology of Amphibians and Reptiles: From Theory to Practice**
University of Aveiro, Portugal, 16–20 April
- **Implications of Nanomaterials: A Hands on Course on Synthesis, Characterisation and Ecotoxicology**
University of Aveiro, Portugal, 28 May–1 June
- **Advanced Course on Protein Profiling of Microorganisms, University of Aveiro**
Portugal, 13–19 July
- **Practical Approach to Ecotoxicogenomics**
University of Aveiro, Portugal, 3–7 September
- **GIS-based Modeling of Chemical Fate, Transport and Impacts for Policy Support**
Trento, Italy, 23–29 July



Accreditation

The SETAC Europe Education Committee is working on an accredited training program for European Risk Assessors, which is expected to provide an excellent professional advancement opportunity for SETAC members.

Service Projects

At the Long Beach meeting, Weston Solutions joined SETAC North America volunteers for the Make-A-Difference Service Event at Los Cerritos Wetlands, a 2,400-acre degraded marsh that is home to several endangered species of birds and beetles. Participants helped propagate emergent wetland plants and weed invasives.



North America

Since 1979



Pensacola staff members were actively engaged in upgrading the SETAC membership database, website and online networking features for the Society during much of 2012, leaving little time for conducting small technical meetings and workshops. However, there was intense focus on the organization of a great annual meeting in 2012.



SETAC North America 33rd Annual Meeting

11–15 November 2012, Long Beach, California, USA

SETAC North America returned to California for the first time since 1996. Long Beach provided an unforgettable backdrop of spectacular ocean views and urban access. The meeting took place in a region known for embracing innovation, collaboration and leadership on environmental issues, and those qualities formed the core of the meeting theme, “Catching the Next Wave: Advancing Science through Innovation and Collaboration.” The meeting included our first mobile web version of the itinerary planner.

The meeting began with an inspiring keynote speech from Ed Begley, Jr., Hollywood actor and leader in “walk the walk and talk the talk” environmental stewardship and activism. Begley has been considered an environmental leader in the Hollywood community for many years. He has served as chairman of the Environmental Media Association and the Santa Monica Mountains Conservancy. He still serves on those boards, as well as those of the Thoreau Institute, the Earth Communications Office, Tree People and Friends of the Earth, among many others. His work in the environmental community has earned him a number of awards from some of the most prestigious environmental groups in the nation, including the California League of Conservation Voters, the Natural Resources Defense Council, the Coalition for Clean Air, Heal the Bay and the Santa Monica Baykeeper.

“Catching the Next Wave:
Advancing Science through Innovation and Collaboration”



Plenary Speakers



Jerry R. Schubel, Aquarium of the Pacific

President and CEO of the Aquarium of the Pacific since 2002, he is also president and CEO Emeritus of the New England Aquarium. Schubel has worked throughout his professional life at the interfaces of science management policy on issues dealing with the ocean. Schubel directs the aquarium’s Marine Conservation Research Institute.



William J. Adams, Rio Tinto

2012 SETAC Founders Award winner, Adams is the General Manager for Rio Tinto where he oversees all of the company’s global remediation programs and is responsible for environmental research, ecological risk assessments and communication with regulators on science-based issues.



Charles Fishman, Investigative Journalist

Charles Fishman, author of “The Big Thirst” and “The Wal-Mart Effect,” is one of America’s most celebrated investigative journalists, specializing in business innovation and social responsibility. Currently an award-winning senior writer at Fast Company, he has reported with striking authority on everything from Wal-Mart to the new water economy.

Scientific Program

Eleven special symposia covered topics ranging from the forward-looking “21st Century Environmental Risk Assessment” and “Models of Collaborative Problem Solving” to those that honored key milestones in our history: the 40th anniversary of the Clean Water Act and the 50th anniversary of Rachel Carson’s Silent Spring. In addition, 11 short courses were offered for interactive professional development. Amidst all these special topics, the core technical program featured 12 concurrent platform and poster sessions each day, and an interactive poster session each afternoon.

SETAC North America Endowment Fund

The SETAC North America Endowment Fund, through a combination of current and planned gifts, is intended to continuously accumulate sufficient principal to annually generate investment interest, dividends and related proceeds for the purposes of supporting technical, scientific and educational activities consistent with the Society’s mission. Contributions to the fund are received from SETAC members, their home organizations and other philanthropic groups. The Endowment Fund exceeded the \$100,000 threshold and in 2012, the Board of Trustees wants to celebrate and thank the many contributors that have supported the fund since 2006, when the Fund was founded. Contributions have been made to honor mentors, outstanding scientific accomplishments and members in memoriam.

Mentoring

Kim Anderson with Oregon State University, Mary Reiley with the US Federal Government, and Anne Fairbrother with Exponent, participated in the Women in SETAC Luncheon at the Long Beach meeting to discuss personal and societal perceptions of women in positions of authority.

Regional Chapters

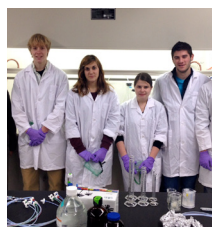
The SETAC North America 19 regional chapters are the Society’s active link to local environmental practitioners and a spectrum of critical issues. Their yearly meetings are significant regional events that underpin the broader scientific discussion featured at the annual geographic unit meeting.

Awards



SETAC Government Service Award

W. Nelson Beyer, US Geological Survey—This award recognizes exemplary dedication and service in promoting the application of environmental toxicology and chemistry to risk assessment, the implementation of programs for ecologically sound practices and principles, and the provision of a communication forum among environmental professionals and society.



SETAC/Menzie Environmental Education Award

Lewiston-Porter High School and the University of Buffalo—With a \$1,000 award donated by the Menzie family, the recipient of this honor will have made significant contributions to environmental education, either through educating other educators or by working with community groups and K–12 programs.



SETAC/EA Engineering Jeff Black Fellowship

Lauren A. Kristofco, Baylor University—This \$2,000 award to a master’s-level student honors Jeff Black’s life in science and his contributions to SETAC by recognizing a student in any field of study encompassed by SETAC.



SETAC/Outstanding Regional Chapter Member

Eve Gilroy, Green House Science—This award goes to a regional chapter member who consistently contributes to the development of the Society at the chapter level and who has improved the chapter’s services through leadership, membership growth, committee involvement, event planning, organizational or administrative support, or participation on the Student Advisory Council.



Eugene Kenaga Award

Patricia Ramirez Romero, Universidad Autónoma Metropolitana-Iztapalapa—The Eugene Kenaga Award was created to honor the many contributions of Eugene Kenaga, one of the founders and the first president of SETAC. This award is presented annually to a SETAC member who has been instrumental in developing and working with the Society’s membership at either the national or the chapter level.



SETAC North America 2012 Board of Directors

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Ashley Jessick, University of Nebraska Medical Center, USA

SETAC North America Executive Director

Greg E. Schiefer, *ex officio*



Europe

Since 1989



The highlight of another outstanding year for SETAC Europe was the 6th SETAC World Congress/ 22nd SETAC Europe Annual Meeting in Berlin, Germany, with more than 2,500 participants from 69 countries. It was the largest and arguably the most successful meeting in SETAC history, with innovative presentations on exposure modeling, emerging contaminants and science communications, as well as discussion forums that contributed significantly to the development of the Berlin Declaration on Sustainability.





Other 2012 milestones included two SETAC Europe Special Science Symposia, one on ecosystem services and the other on endocrine disruptors, an LCA Case Study Symposium with 300 participants, the 3rd Young Environmental Scientist meeting, free of charge to its attendees, and Summer and Winter Schools, offering training on environmental protection. The first Nano Training Winter School addressed the “Synthesis, Characterisation, Ecotoxicity, Hazard and Risk Assessment of Engineered Nanoparticles,” co-sponsored by two EU projects, Engineered Nanoparticle Impact on Aquatic Environments: Structure, Activity and Toxicology (ENNSATOX) and Nanofate; since 2009, SETAC Europe has been the dissemination partner for the ENNSATOX project.

Having guided all this activity, Executive Director Dave Arnold retired near the end of 2012, and former Executive Director Bart Bosveld returned to the helm.

World Congress and Annual Meeting in Berlin

The 6th SETAC World Congress, in conjunction with the SETAC Europe 22nd Annual Meeting, hosted an unprecedented 2,400 presenters from 20–24 May 2012, at the Estrel Hotel in Berlin, Germany. In addition to the wealth of groundbreaking scientific content, congress attendees witnessed other unique events, including the auction of

“Buddy Bears,” a collection of autographed plaster bears who had traveled the world as ambassadors at scientific meetings and who had spawned their own video. Tarpaulins of transport trucks were recycled into conference bags for an eco-friendly fashion statement. Regional Branches had their own booth for the first time, and the associated poster corner focused attention on environmental issues at the local and regional level. Students, always important participants in SETAC meetings, captured meeting highlights on video and took advantage of a Mentor Lunch to network with established professionals.

Three keynote speakers expounded on sustainability, furthering the debate and commentary on the developing Berlin Declaration on Sustainability:

- Jeffy McNeely, Chief Scientist, International Union for Conservation of Nature: Biological Basis of Sustainability
- Jochen Flasbarth, President, German Federal Environment Agency: Sustainability as an Ecological, Economic and Social Programme for Future Development
- Arab Hoballah, Chief, Sustainable Consumption and Production Branch of UNEP: Role of Resource Efficiency as One of the Key Drivers for Sustainability



Regional Branches

SETAC Europe is home to 4 active Regional Branches: United Kingdom Branch (SETAC UK), German Language Branch (SETAC GLB), Italian Branch (SETAC Italia), and SETAC Central & East Europe Branch (SETAC CEE). In 2012, each branch offered important opportunities for promoting the application of scientific knowledge to environmental policy. SETAC Italia, for example, organized an international workshop on “Ecotoxicology of Large Marine Vertebrates,” while SETAC CEE focused their branch meeting on “Ecotoxicology Revisited.” SETAC UK collaborated with the Royal Society of Chemistry for its 2012 conference on bioavailability, and SETAC GLB met jointly with a group of the German Chemical Society and organized a regional hot topics session for the World Congress. SETAC Africa, formerly a SETAC Europe Branch, achieved full geographic unit status in 2012.

Awards

Young Scientist Awards



Dorothea Gilbert, Aarhus University, Denmark
Winner of the ECETOC Young Scientist Award for

Best Platform Presentation at the Berlin meeting for the talk “Passive Dosing Under the Microscope Reveals that Microorganisms Enhance the Mass Transfer of Hydrophobic Organic Chemicals.”



Lisabeth Van Cauwenberghe, Ghent University, Belgium
Winner of the Tom Feijtel Young Scientist Award for Best

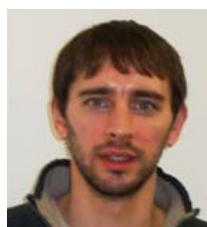
Poster Presentation at the Berlin meeting for the paper “Selective Uptake of Microplastics by a Marine Bivalve (*Mytilus edulis*).”



Miguel Brandao, International Life Cycle Academy, Spain
Winner of the SETAC Europe Life Cycle Assessment

Young Scientist Award, sponsored by PE International, for his several contributions to the LCA field.

Best Publication Awards



Thomas Sizmur, University of Reading, UK
Winner of the Eurofins/SETAC Europe Best Publication Award for Chemical Analysis and

Environmental Monitoring for the paper “Impact of Gut Passage and Mucus Secretion by *Lumbricus terrestris* on Mobility and Speciation of As in Contaminated Soil.”



Karina Petersen, Norwegian Institute for Water Research, Norway
Winner of the AstraZeneca/SETAC Europe Best Publica-

tion Award in Risk Assessment, Modelling and Theoretical Studies for the paper “Assessing Combined Toxicity of Estrogen Receptor Agonists in a Primary Culture of Rainbow Trout (*Oncorhynchus mykiss*) Hepatocytes.”



Mirco Bunschuh, University of Koblenz Landau, Germany
Winner of the RifCon/SETAC Europe Best Publica-

tion Award for Ecotoxicology for the paper “Ozonation of Secondary Treated Wastewater Reduces Ecotoxicity to *Gammarus fossarum* (Crustacea; Amphipoda): Are Loads of (Micro) Pollutants Responsible?”

Professional Awards



Marten Scheffer, Wageningen University, The Netherlands
Honored with the SETAC Europe Environmental Education Award, sponsored by NOACK Laboratorien, for being a successful, surprising and inspiring scientist.



Bengt Steen, Chalmers University of Technology, Sweden
Honored with the SETAC Europe Award for Lifetime Achievement in Life Cycle Assessment, sponsored by EDANA, for achievements in the field of LCA and particularly LCIA with the Environmental Priority Strategies (EPS) system.

Looking Ahead

SETAC Europe 23rd Annual Meeting

13–17 May 2013, Glasgow, Scotland
Building a Better Future: Responsible Innovation and Environmental Protection

3rd Young Environmental Scientists Meeting

11–13 February 2013, Krakow, Poland

SETAC Europe Summer Schools

6–10 May 2013, University of Aveiro, Portugal
Implications of Nanomaterials: A Hands-on Course on Synthesis, Characterisation and Ecotoxicology

7–18 June 2013, Pisa, Italy
BerTh–Biodiversity and its threats

2–6 September 2013, Rimini, Italy
GIS-based Modelling of Chemical Fate, Transport and Impacts for Policy Support

21–25 October 2013, University of Aveiro, Portugal
Ecotoxicogenomics, Epigenetics and Evolution: Practical Approach and Concepts

23–27 September 2013 and 30 September–4 October 2013, University of Coimbra, Portugal
The Use of Biological Traits and Trait-based Approaches in Ecology and Stress Ecology

MODELINK Workshop

April 2013
How to Use Ecological Effect Models to Link Ecotoxicological Tests to Protection Goals

Special Science Symposia

7th SESSS, October 2013, Belgium, Brussels
Nanoparticles in the Environment

8th SESSS, October 2013, Belgium, Brussels
Pollinators

9th SESSS, December 2013, Belgium, Brussels
Marine Ecotoxicology

SETAC Europe 24th Annual Meeting

11–15 May 2014, Basel, Switzerland

19th Life Cycle Assessment Case Studies Symposium

11–13 November, Rome, Italy
LCA in Market Research and Policy: Harmonisation Beyond Standardisation

2012 SETAC Europe Council

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Paolo Masoni, ENEA, Italy

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Laurent Lagadic, INRA, France

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Merab Mirtskhulava, National Center for Diseases Control and Public Health, Georgia

Alberto Pistocchi, Gecosistema, Italy

Ilse Schoeters, Rio Tinto, UK (ad interim)

Amadeu Soares, Universidade de Aveiro, Portugal

Student Representative

Jochen Zubrod, University of Koblenz-Landau, Germany



Asia/ Pacific

Since 1997



SETAC Asia/Pacific successfully held its 2012 biennial meeting in Kumamoto, Japan, and focused on regional chapter and related activities. Preparations for its next biennial meeting, scheduled for 14–17 September 2014 in Adelaide, Australia, are underway. Membership continued to grow. Work progresses on establishing Regional Chapters in Southeast Asia, with plans underway to establish SETAC Japan. Ongoing outreach efforts aim to strengthen links with other national associations that address chemistry and environmental toxicology.



Kumamoto Meeting

The SETAC Asia/Pacific 2012 Biennial Meeting was successfully held from 24–27 September 2012 in Kumamoto, Japan. Approximately 450 participants from 22 countries attended the meeting, and nearly 400 presentations were made. The Kumamoto meeting's theme was "Learning from History and Advancing Science to Build a Safer and Sustainable Environment." An array of topics were successfully discussed, such as air pollution and marine and coastal pollution; water, soils and remediation; persistent organic pollutants, emerging contaminants and human health; environmental and analytical chemistry; ecotoxicology, risk assessment and regulation; and other environmental issues.

Regional Chapters

The 2nd SETAC Australasia Conference was held from 4-6 July 2012 at the St Lucia campus of the University of Queensland in Brisbane, Australia. The theme of the conference was "Navigating through Extreme Weather Events in a Changing Environment," with special emphasis on creatures who suffered from the intense drought and floods that have shaken Australia in recent years.

Looking Ahead

2nd International Conference on Environmental Pollution, Restoration and Management

4-8 March 2013, Hanoi, Vietnam, co-organized with the Hanoi University of Science and Loyola University Chicago
Enhancing Environmental Research and Education in Developing Countries

3rd SETAC Australasia Regional Chapter Conference
1–3 October 2013, Melbourne, Australia

SETAC Global Mercury Symposium
6 October, 2013, Minamata, Japan

SETAC Asia/Pacific 2014 Biennial Meeting
4–17 September 2014, Adelaide, Australia

Student Awards

SETAC Asia/Pacific 2012 Annual Meeting

Dupont Student Awards

Xinxin Hu, Nanjing University, China
Edward Lau, University of Hong Kong, China

Traveling Scholarships

Lee, Ji-Woo, Pusan National University, Korea
Mega Mutiara Sari, Diponegoro University, Indonesia
Rathishri Chandurvelan, University of Canterbury, New Zealand

Oral Presentation Awards

Andy Xianliang Yi, The University of Hong Kong, Hong Kong
Jublee Jasmine, Indian Institute of Technology, India
Hanh Duong, The University of Kitakyushu, Vietnam
Kazuko Sawada, Osaka University, Japan

Poster Presentation Awards

Yared Yohannes, Hokkaido University, Ethiopia
Tak Chuen Edward Lau, University of Hong Kong, Hong Kong
Kotaro Murata, Prefectural University of Kumamoto, Japan
Atcharaporn Somparn, Khon Kaen University, Thailand

2nd SETAC Australasia Chapter Conference

Student Awards

Natsima Tokhun, Khon Kaen University, Thailand
Atcharaporn Somparn, Khon Kaen University, Thailand

SETAC Asia/Pacific 2012 Board of Directors

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Kenneth Leung, University of Hong Kong, Hong Kong

Vice President

Koji Arizono, Prefectural University of Kumamoto, Japan

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Munro Mortimer, The University of Queensland, Australia

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Shu Tao, Peking University, China

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Peter Glazebrook, Rio Tinto, Australia

Rai Kookana, CSIRO, Australia

Kuan-Chun Lee, Procter & Gamble, Singapore

Ross Smith, Hydrobiology Pty Ltd., Australia

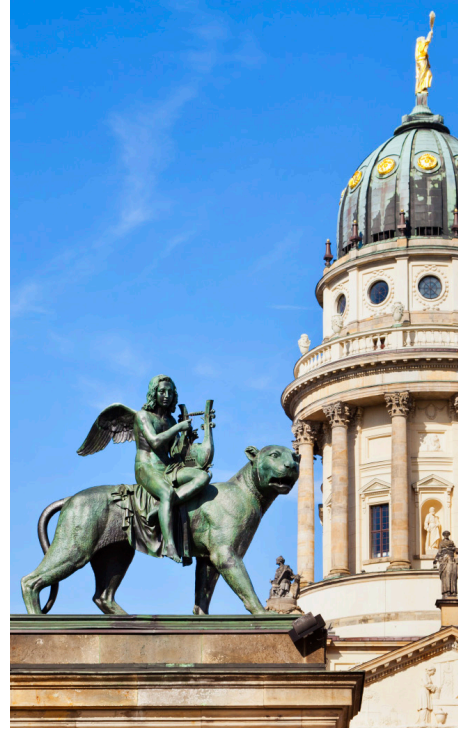
Ichiro Takeuchi, Ehime University, Japan

Jennifer Wang, DuPont, China

Eddy Y. Zeng, Guangzhou Institute of Geochemistry, China

Latin America

Since 1999



In 2012, SETAC Latin America fostered collaboration between professionals, had a burst of new members and added a new regional chapter. The diversity of activities are attributable to the establishment of a board of directors and annual president elections, which changed the dynamic of the geographic unit by opening participation.



Activities

Activities that were traditionally circumscribed to the geographic unit biennial meetings and published as regional grey literature have evolved into more regular SETAC Latin America chapter meetings, which help increase the frequency of interactions among members. In addition, collaborative efforts, such as joint symposia with other societies such as the Toxicological Association of Argentina, have raised SETAC's profile.

In 2012, a select number of studies presented at the 2009 Lima, Peru and 2011 Cumaná, Venezuela meetings were published as a special section of ET&C. This section, chaired by Pedro Carriquiriborde and Afonso Bainy, resulted in the broader dissemination of research from Latin America and improved the standing of the SETAC journals among Latin American researchers.

Workshops and Education

The first SETAC Latin America workshop, Latin American Risk Assessment of Pesticides (LATARAP), was held in Buenos Aires, Argentina, in 2012 and was steered by Steve Mound, Paul van den Brink, Paula Mirabella and Pedro Carriquiriborde.

The short course "Air Quality at the Interface: Megacities and Adjacent Agroecosystems," hosted in La Plata, Argentina, in 2012, was led by George Cobb and Karina Miglioranza and held in collaboration with the Pan-American Advanced Studies Institute Program with funding from the US National Science Foundation and Baylor University.

Regional Chapters

Brazil

The Brazilian Society of Ecotoxicology membership voted to affiliate with SETAC Latin America; the inclusion of this group will significantly boost the membership of SETAC in the region by several hundred and will add a major regional chapter meeting every two years.

The new Brazilian regional chapter held its annual meeting 25–28 September 2012 in Recife, Brazil. The meeting had 650 registrants, 900 scientific abstracts, 9 technical courses, 7 plenary lectures and 5 round tables. It also held 18 itinerant courses throughout Brazil ahead of the congress.

Argentina

Argentina has become a strong regional chapter, and they held the IV Argentine Congress from 16–19 October 2012 in Buenos Aires, Argentina. There were 350 registrants, 250 scientific abstracts, 4 technical courses, 3 plenary lectures and 6 round tables.

SETAC Latin America 2012 Council

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Immediate Past President

José Maria Monserrat, Universidade Federal do Rio Grande, Brazil

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Fabiola Valdés, Instituto Nacional de Pesquisas da Amazônia, Manaus, Brazil

Africa

Since 2012



The first major achievement of 2012 for SETAC Africa was the attainment of an independent geographic unit status, which was declared by the SETAC World Council at the 6th SETAC World Congress in Berlin. The many individuals involved in this process were elated at this great realization, a crowning moment for their efforts. SETAC Africa was represented at the World Congress by its General Secretary, Silke Bollmohr, who delivered informative and arresting poster presentations about SETAC Africa, highlighting the region's beauty and resources. In addition, she led a meeting with SETAC Africa members to discuss pertinent issues that concern scientists on the continent.





The first major task for the new geographic unit was to raise awareness about SETAC Africa among current and potential members. The maiden issue of a newsletter was circulated widely and read with great interest. Many expressed their congratulations at this initiative. The 6th SETAC Africa Conference will be held from 2–5 September 2013 in Lusaka, Zambia. The theme of the first conference as a full geographic unit is “21st Century Africa and Beyond—Balancing Economic Growth Opportunities With Environmental Sustainability.” Organizers are certain the meeting will attract a record number of attendees. Soliciting proposals for sessions and short courses and carrying out fundraising activities will be a focus in the coming year. Building relationships with local and international organizations, including businesses, governments, academic institutions and NGOs in Africa is another aim.

SETAC Africa Treasurer Aviti Mmochi, on the invitation of Global Executive Director Mike Mozur and through the sponsorship of SETAC, attended the Third Session of the International Conference on Chemicals Management in Nairobi, Kenya, in September 2012. The meeting marked a major milestone in the implementation of SAICM, promoted the sound management of chemicals, and provided ample opportunity to network on behalf of SETAC Africa. In November 2012, Patricia Bi Asanga Fai represented SETAC Africa at the SETAC World Council long-range planning meeting in Long Beach, Calif. While there, she promoted the 2013 SETAC Africa conference, and several scientists and businesses showed a vivid interest in participating.

6TH SETAC AFRICA CONFERENCE
21st Century Africa and Beyond
*Balancing Economic Growth Opportunities
 With Environmental Sustainability*
 2–5 September 2013 | Lusaka, Zambia

SETAC Africa 2012 Board of Directors

President

Patricia Bi Asanga Fai, University of Dschang, Cameroon

Secretary

Silke Bollmohr, HAMANA, South Africa

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Aviti Mmochi, University of Dar es Salaam, Tanzania

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Nindi Mathew Muzi, University of South Africa, South Africa

John Wasswa, Makerere University, Uganda

GLOBAL AWARDS

SETAC strives to recognize and honor outstanding contributions of individuals or groups of individuals to the environmental sciences and to the Society by means of the Awards Program. SETAC also endeavors to recognize and honor the participation of students and pre-professionals and to use Society resources to enhance their professional development. SETAC Awards may be global in stature, or they may recognize contributions at the geographic unit or regional level.

The SETAC Global Awards Committee is charged with ensuring the overall intent of the awards and fellowships process; its scope encompasses contributions and achievements throughout all geographic units. Candidates may be self-nominated or nominated by another individual.



Rachel Carson Award

The Rachel Carson Award, our premier global award given every four years, was presented at the 6th SETAC World Congress in Berlin to Lars-Otto Reiersen, Executive Secretary of the Arctic Monitoring and Assessment Programme in Oslo, Norway. Reiersen harnessed the volunteer energy of hundreds of scientists as well as the indigenous Inuit to address scientific and policy issues related to how the Arctic is responding to global pollution and climate change.



Founders Award

SETAC's highest annual award went to William J. Adams, Rio Tinto, whose long list of accomplishments includes implementation of the Biotic Ligand Model by US and European regulatory agencies, which led to a fundamental change in the way the metals industry approaches environmental issues.



SETAC/ICA Chris Lee Award

Kevin Brix, University of Miami, received this award for his exceptional contributions to the understanding of fate and effect of metals in the environment, to the mechanistic environmental toxicology of metals, and to the improvement of environmental regulations for metals. Sponsored by the International Copper Association, this award provides up to \$5,000 to a graduate student or recent graduate.



Herb Ward Exceptional Service Award

Presented to Michael McLaughlin, CSIRO, The University of Adelaide, Australia, this award recognized his instrumental role in championing the merger of the Australasian Society of Ecotoxicology with SETAC, the crowning achievement of his long-term, exceptionally high-quality service to SETAC.



ET&C Best Student Paper Award

Presented to Michel Lavoie, INRS, for his paper titled “Influence of Essential Elements on Cadmium Uptake and Toxicity in a Unicellular Green Alga: The Protective Effect of Trace Zinc and Cobalt Concentrations,” this award is given annually to the best student paper published or accepted in SETAC’s esteemed journal *Environmental Toxicology and Chemistry*.



Global Partners Capacity-Building Award

This award recognizes member volunteer service in capacity-building in developing countries. The 2012 award recognized two such members: Michael Kishimba, University of Dar es Salaam, Tanzania, given posthumously for his leadership in the training of young African scientists; and Kelly Munkittrick, University of New Brunswick, Canada, in recognition of his active contribution to training and networking of scientists in the developing countries of Latin America.



PARTNERS

SETAC Global Partners and Global Partner Affiliates are an invaluable part of our scientific community. Through their distinctive support, SETAC is able to better meet the challenges facing environmental scientists. Global Partners underwrite student activities, memberships and registrations for developing world researchers, workshops and training, and the SETAC Development Fund. This engagement reinforces the overall efforts to promote robust and sound scientific principles, especially in early career researchers and developing countries. The strategic input through the Global Partners Council draws upon SETAC's unique tripartite relationship of academia, business and government and recommends scientific and financial planning to the World Council and SETAC communities, helping to advance science in toxicology, chemistry and risk assessment. Global Partners and Affiliates as well as Geographic Unit Sustaining Members and Affiliates, Partners and Non-profit Partners are ensuring that SETAC's mission is carried out around the world.

Global Partners

3M Company
ARCADIS
BP
Department for Environmental Food & Rural Affairs
Eastman Chemical Company
ERM Group, Inc.
Environment Canada | Environnement Canada
ExxonMobil
Petrobras
The Procter & Gamble Company
Rio Tinto
S. C. Johnson and Son, Inc.
SERDP/ESTCP

Shell
Smithers Viscient, LLC
Syngenta Crop Protection, Inc.
Unilever
Wildlife International, Ltd.

Global Affiliates

American Cleaning Institute
Canadian Water Network
Global Silicones Council
ILSI Health and Environmental Sciences Institute
International Copper Association, Ltd.
International Zinc Association
Research Institute for Fragrance Materials



SETAC North America Sustaining Members

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 Agilent Technologies, Inc.
 Bayer CropScience LP
 Cardno ENTRIX
 CDM Smith Inc.
 CH2M HILL
 Chevron Corporation
 The Clorox Company
 Colgate–Palmolive Company
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 Environmental Enterprises USA, Inc.

Exponent, Inc.
 GEI Consultants, Inc.
 Georgia-Pacific LLC
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SETAC North America Affiliate Members

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 Baylor University
 The Institute of Environmental and Human Health, Texas Tech University
 Mississippi State Chemical Laboratory
 Oregon State University
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SETAC Europe Partners

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 Euro Chlor
 Harlan Laboratories Ltd
 Henkel AG & Co. KGaA
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 wca environment limited

SETAC Europe Non-Profit Partners

Alterra Wageningen UR
 CIIMAR, University of Porto
 European Chemicals Agency
 Brunel University

STUDENT ENGAGEMENT

Recognizing that the students of today are the scientists of tomorrow, SETAC has made student participation and programs a priority. Students are active in meetings at all levels and in all geographic units, and the student community is represented on the governing bodies of both Europe and North America. SETAC students are known for their intellectual engagement and enthusiasm, and their special energy always enlivens SETAC annual meetings.

Europe

The SETAC Europe Student Advisory Council (SAC) organized three activities for the 6th SETAC World Congress/ SETAC Europe 22nd Annual Meeting in Berlin, Germany. During a Mentor Lunch, co-organized by the North America SAC, nearly 80 students had the opportunity to meet and chat with established scientists from all over the world in a relaxed atmosphere. Three Career Talks, held by Ralf B. Schäfer (Germany), Lúcia Guilhermino (Portugal) and John Sumpter (UK), provided useful insights into academic careers. Furthermore, the annual Student Assembly was held.

During the rest of the year, the SAC, together with the Scientific Committee chaired by Michael Melato and the Local Organizing Committee chaired by Dragan Jevtić, jointly organized the 3rd Young Environmental Scientists (YES) Meeting, which will be held 11–13 February 2013 at the Jagiellonian University in Krakow, Poland.



At the Berlin meeting in May 2012, Jochen Zubrod, University of Koblenz-Landau, Germany, continued his role as SAC Chair. Dragan Jevtić, Jagiellonian University, Poland, was elected new Co-chair. Markus Brinkmann, RWTH Aachen University, Germany, is the Immediate Past Chair.

Asia/Pacific

The successful SETAC Asia/Pacific meeting in Kumamoto, Japan, was highlighted by an impressive student attendance. Travel scholarships were awarded to three students at the opening ceremony. Young Scientist Awards were handed out at the closing ceremony for excellent oral and poster presentations. Some award winners from developing countries received free two-year SETAC memberships. Two student awards were also handed out at the SETAC Australasia chapter meeting in Brisbane, Australia. See page 31 for a complete list of awards.

North America

2012 was an exciting and productive year for the North America Student Advisory Council (NASAC) and included a wide array of activities at the Long Beach annual meeting, continuing outreach to students via social networking and the NASAC newsletter.

In November, NASAC worked cooperatively with the Student Activities Committee to host the annual Student Mentor Dinner at the Long Beach meeting. It provided students an opportunity to network with seasoned SETAC members from academia, government and business to gain career advice. The Student Activities Committee once again organized a successful silent auction, with proceeds going to fund student travel grants for future North America meetings.

NASAC also hosted two Noontime Seminars at the Long Beach meeting: Ryan Casey gave students advice on creating and delivering effective poster and platform presentations and Jeremy Conkle, Keith Solomon and Thomas Miller hosted a panel discussion on “Resume and C.V. Writing Tips.” Students in both seminars had great questions, and discussions arose. Students came away with useful advice and tips for their future endeavors.

The 4th Annual NASAC Art Contest in Long Beach boasted a record number of entries, which ranged from water colors and acrylic art to photography and stop-action footage featuring the meeting’s theme “Catching the Next Wave: Advancing Science through Innovation and Collaboration.”

NASAC continues to use their Facebook group page to share information with students, to receive feedback and input on meeting events, and to serve as a forum for SETAC students to communicate with one another. NASAC also distributed two newsletters, which highlighted updates from regional chapters, biographies of new members, upcoming meetings at the regional and national levels, and updates on other SETAC student activities.

Ashley Jessick, University of Nebraska Medical Center, completed her term as NASAC Chair in November 2012, and Erica Brockmeier assumed the role. Brockmeier is a PhD candidate in Interdisciplinary Toxicology at the University of Florida and a member of the Southeast Regional Chapter. Sarah Bowman was elected as Vice Chair. She is a PhD candidate in the department of Evolution, Ecology, and Organismal Biology at The Ohio State University and a member of the Ohio Valley Regional Chapter.



NASAC Art Contest Winners

1st Place
Catherine Baxter,
“Weavers”, Texas
Tech University

2nd Place
Valentina Prado,
(untitled), Arizona
State University



Latin America

SETAC Latin America had many student representatives at the World Congress in Berlin and at the North America annual meeting in Long Beach. SETAC Latin America also co-organized a short course on “Air Quality at the Interface: Megacities and Agroecosystems” in La Plata, Buenos Aires, Argentina. The 9-day instructive course brought together 30 graduate students and post-doctoral scientists from North and Latin America to learn about the transport, fate and impact potential of chemicals and other materials from some of the leading experts in the world. The students were able to network and establish long-term connections via social media. Led by George Cobb and Karina Miglioranza, the course was funded by the Pan-American Advanced Studies Institute Program of the US National Science Foundation.

GLOBAL PHOTO CONTEST

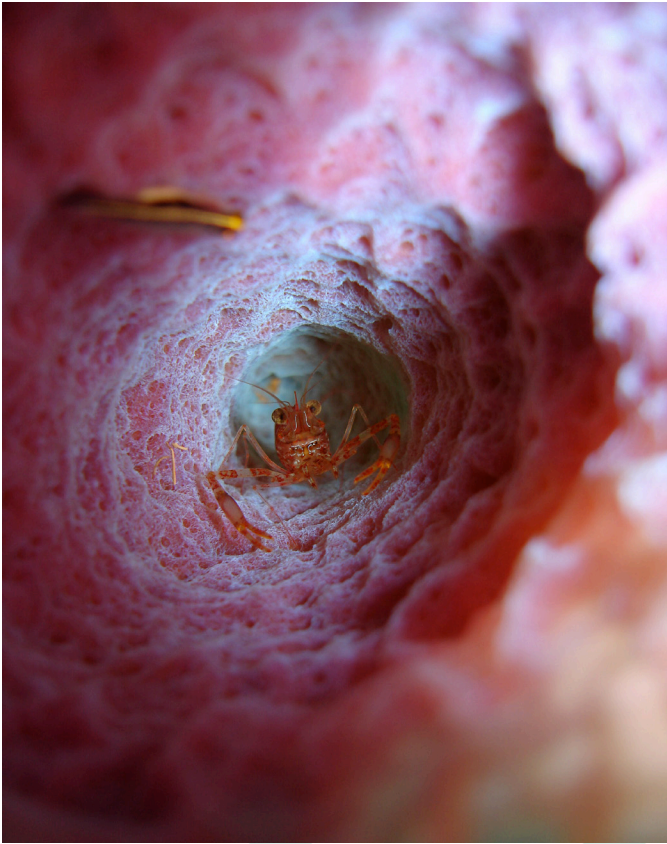
The first-ever SETAC Global Environmental Photography Contest was a tremendous success. Members from seven countries submitted 34 photos, capturing the environment and nature from a truly global perspective. After a difficult first round of votes by the contest committee, the field was narrowed to 10 beautiful and intriguing photographs. SETAC members were invited to cast their votes, and the winners were announced at the SETAC North America 33rd Annual Meeting in Long Beach, Calif. Prizes were awarded to first-, second- and third-place winners.

2012 Winners

1st Shari Weech, Canada
Thunderstorm Over Tarangire



2nd Mariah Arnold, USA
Shrimp Cocktail



3rd Norihisa Tatarazako, Japan
Little Cyclopes Came from the Moon



Financials

The SETAC World Council and the SETAC geographic units operate as separate financial entities. This consolidated and unaudited summary of financial performance is provided for information only. SETAC invests in students, recent graduates and developing country members by subsidizing dues, student travel and meeting registration fees.

All figures are expressed in thousands of US dollars.

Net Operating Results

60

Total Assets

3,223

Total Liabilities

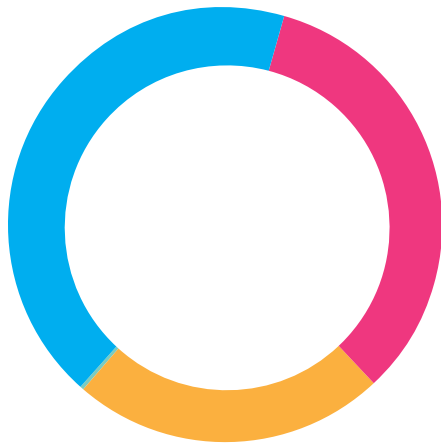
1,268

Net Assets

1,953

Operating Revenues

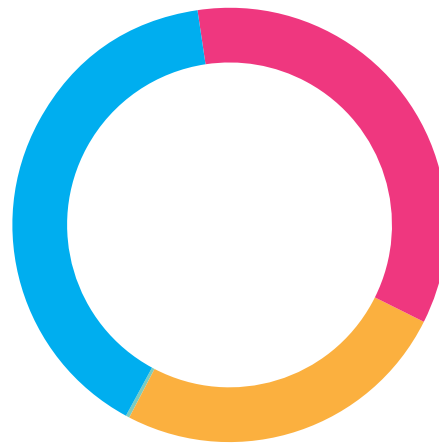
Total – 5,524



Europe	2,379
North America	1,853
World Council	1,281
Other	11

Operating Expenses

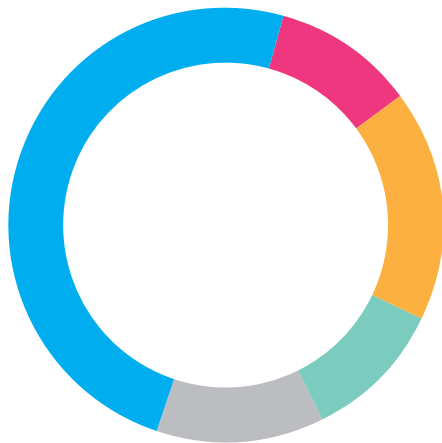
Total – 5,464



Europe	2,184
North America	1,891
World Council	1,381
Other	8

Sources of Revenues

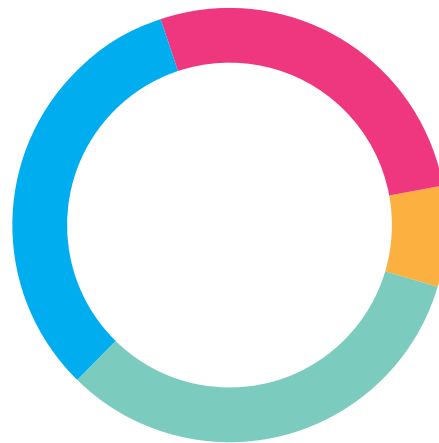
Total – 5,524



Annual Meetings	2,725
Other Meetings	576
Membership Dues	961
Publications	582
Other	680

Areas of Expenses

Total – 5,464



Annual Meetings	1,790
Salaries & Wages	1,480
Publications	414
Other	1,780

STAFF & CONTACTS

Global Office

Responsible for SETAC Global



Mike Mozur
SETAC Global
Executive Director

Pensacola Office

Responsible for SETAC North America,
Asia/Pacific, Latin America

229 S. Baylen Street, 2nd Floor
Pensacola, Florida, USA 32502
Tel +1 850 469 1500
Fax +1 850 469 9778
Email setac@setac.org



Greg Schiefer
SETAC North America
Executive Director
greg.schiefer@setac.org



Jason Andersen
IT Manager
jason.andersen@setac.org



Sabine Barrett
Communications
Specialist
sabine.barrett@setac.org



Teresa Daugherty
Finance/Membership
Manager
teresa.daugherty@setac.org



Linda Fenner
Finance/Exhibits
Manager
linda.fenner@setac.org



Jennifer Lynch
Publications Manager
jen.lynch@setac.org



Nikki Mayo
Events Manager
nikki.mayo@setac.org



Mimi Meredith
Publications Manager
mimi.meredith@setac.org



Joshua Sullivan
Communications
Specialist
joshua.sullivan@setac.org



Laura Swanson
Membership/Awards
Specialist
laura.swanson@setac.org



Bruce Vigon
Scientific Affairs
Manager
bruce.vigon@setac.org

Brussels Office

Responsible for SETAC Europe, Africa

Avenue de la Toison d'Or 67 b 6
1060 Brussels, Belgium
Tel +32 2 772 72 81
Fax +32 2 770 53 86
Email setaceu@setac.org



Dave Arnold
SETAC Europe
Executive Director
dave.arnold@setac.org



Bart Bosveld
SETAC Europe
Executive Director
bart.bosveld@setac.org



Roel Evens
Scientific Project
Manager
roel.evans@setac.org



Filip Gunst
Financial
Administrator
accounts@setac.org



Barbara Koelman
Office and Meeting
Manager
barbara.koelman@setac.org



Sarah Spanoghe
Membership
Coordinator
sarah.spanoghe@setac.org



Veerle Vandevreire
Finances and Meeting
Registration Manager
veerle.vandevreire@setac.org



Valerie Verstappen
Communications
Coordinator
valerie.verstappen@setac.org



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