



2010 ANNUAL REPORT

SOCIETY OF ENVIRONMENTAL TOXICOLOGY AND CHEMISTRY



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SETAC'S MISSION

The Society of Environmental Toxicology and Chemistry (SETAC) is a not-for-profit, global professional organization comprised of some 5500 individual 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
- 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 GOVERNMENT

In addition to its cutting-edge global 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 academia, business, and government—adds unique strengths in governance and in objectivity to SETAC's 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

BY JANE P. STAVELEY

In 2010, SETAC marked several key milestones confirming our identity as a unique and growing worldwide scientific society, with notable contributions to Environmental Quality Through Science®. Our uniqueness stems from our multidisciplinary nature and our commitment to equal consideration of the input of members from academia, business, and government. In an economic climate where many professional scientific societies have been struggling to maintain membership, SETAC actually added members.

With a traditionally strong presence in Europe and North America, we have observed promising growth in the Latin America, Africa, and Asia/Pacific regions. Most notably, during 2010, we welcomed the members of the Australasian Society for Ecotoxicology into the fold. We are looking at additional potential growth in Brazil, India, Russia and the former Soviet Union, Japan, and Mexico, as our outreach to scientists in these geographic regions continues to expand.

SETAC's efforts in developing countries continue to be a focus of our Global Partners and Affiliates, organizations who provide a premier level of

support to SETAC and whose number grew to 23 in 2010. Through our ongoing participation in the Strategic Approach to International Chemicals Management (SAICM), participation in the United Nations Environment Programme (UNEP) Global Mercury Partnership, and other activities, we are clearly bringing SETAC science to the international community of policy-makers.

We held very successful meetings in 2010 in Seville, Guangzhou, and Portland, marked by enthusiastic participation and cutting-edge science. We now have eleven Advisory Groups at the global level providing a focal point for discussion and advancement of



the science in their selected topics. These groups are open to SETAC members and nonmembers alike. We are engaging in new areas such as human health risk assessment, global climate change, ecosystem services, and sustainability. We were pleased to react quickly to addressing the science of the Gulf of Mexico oil spill, with major discussions at our regional meetings.

An important part of our mission is environmental education. To this end, we have built upon our successful program of short courses to launch a program of webinars, the first steps in our eLearning strategy. The subjects of these initial webinars were persistent organic pollutants and persistent, bioaccumulative, and toxic substances (POPs/PBTs). Future webinars will cover additional topics of interest to scientists and policy-makers. This past year also saw the inaugural edition of the fully electronic *SETAC Globe* newsletter and improvements to the SETAC web site, all of which serve to enhance communication among our members and to external parties. Our journals, *Environmental Toxicology and Chemistry* and *Integrated Environmental Assessment and Management*, have continued to thrive with the collaboration of our new global publishing partner, Wiley-Blackwell.

Going forward, SETAC has an ambitious program to further promote the use of sound science in environmental policy and decision-making, on scales from local to global. We remain committed to being a significant part of the broad effort to support the development of principles and practices for protection, enhancement, and management of sustainable environmental quality and ecosystem integrity throughout the world.

2010 SETAC WORLD COUNCIL

JANE P. STAVELEY | PRESIDENT

EXPONENT INC., USA

PAUL VAN DEN BRINK | VICE PRESIDENT

ALTERRA AND WAGENINGEN UNIVERSITY, NETHERLANDS

FRED HEIMBACH | TREASURER

RIFCON GMBH, GERMANY

MIKE MCLAUGHLIN | IMMEDIATE PAST-PRESIDENT

CSIRO/UNIVERSITY OF ADELAIDE, AUSTRALIA

TIMOTHY CANFIELD, FEDERAL GOVERNMENT, USA

PEDRO CARRQUIRIBORDE, UNIVERSIDAD NACIONAL DE LA PLATA, ARGENTINA

GEORGE P. COBB, TEXAS TECH UNIVERSITY, USA

WILLIAM L. GOODFELLOW, EA ENGINEERING SCIENCE AND TECHNOLOGY, USA

LÚCIA GUILHERMINO, UNIVERSIDADE DO PORTO, PORTUGAL

PATRICK GUINEY, S. C. JOHNSON & SON, INC., USA

JUSSI V.K. KUKKONEN, UNIVERSITY OF EASTERN FINLAND

CHARLES A. MENZIE, EXPONENT INC., USA

MIGUEL MORA, TEXAS A&M UNIVERSITY, USA

DAVID PHILLIPS, COVANCE LABORATORIES LTD., UNITED KINGDOM

RICHARD P. SCROGGINS, ENVIRONMENT CANADA

GLOBAL ENGAGEMENT

GLOBAL SCIENCE PROGRAM

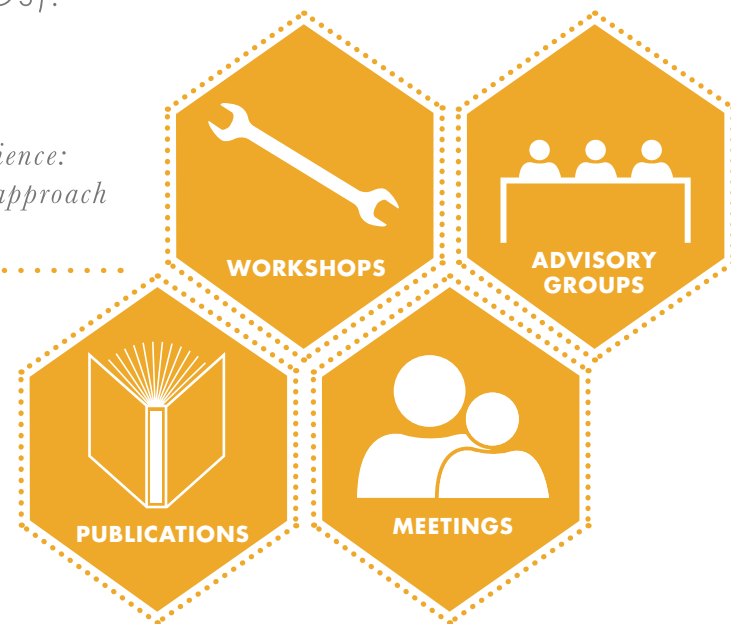


The Society's global program gained considerable energy and structure in 2010. Program activities are mutually reinforcing and generate numerous opportunities for SETAC members to expand the scope of their science and discussion to a truly international stage. The program's pillars are science, engagement with international organizations and programs, training and capacity building, and partnerships with leading nongovernmental organizations (NGOs).

SCIENCE

SETAC's science is a four-pronged effort, drawing on well-attended annual meetings in key regions of the world, global and regional workshops and symposia, active advisory groups, and our superb journals *Environmental Toxicology and Chemistry* (ET&C) and *Integrated Environmental Assessment and Management* (IEAM), which continue to attract leading science and research articles. Members are exploring the broad theme of sustainability, with discussions being featured at every meeting and the goal being an interdisciplinary SETAC approach to scientific and practical dimensions of the issue.

*SETAC's Science:
a four-pronged approach*



COLLABORATION

SETAC's collaboration with the United Nations Environment Programme in the UNEP/SETAC Life Cycle Initiative demonstrates the Society's broad impact in a discipline where the economy and environment meet. The Initiative's robust phase 2 is tackling new conceptual and practical areas of life cycle assessment (LCA). SETAC Executive Director Michael Mozur co-chairs the Initiative's International Life Cycle Board in leading the Initiative's numerous activities and LCA tools development.

In 2010, SETAC joined the UNEP Global Mercury Partnership, and an active working group of SETAC members is addressing key issues of interest. SETAC is also exploring relationships with other major international programs and agreements, including the Stockholm Convention, and is preparing to contribute science to the United Nations Conference on Sustainable Development (Rio+20) in 2012.

PARTICIPATION

SETAC's participation in international programs has been underpinned by its role as an NGO stakeholder in the Strategic Approach to International Chemicals Management (SAICM) since 2007. SETAC has provided science to SAICM and is considering further efforts with other leading scientific organizations. The proposal in 2010 of two new emerging issues—endocrine disruptors and persistent pharmaceutical

pollutants—will open up additional opportunities as SETAC prepares for the next major SAICM meeting, the International Conference on Chemicals Management (ICCM3) in 2012.

TRAINING

SETAC's training and capacity-building efforts encompass outstanding programs of short courses at geographic-unit and regional meetings and successful distance learning via well-attended webinars. Major international capacity-building events are related to SAICM, with whom the Society has conducted risk assessment training for Africa, has a pending program for Latin America and the Caribbean, and foresees other opportunities in LCA.

In 2010, the Society began its preparations for such key events as the 6th SETAC World Congress in Berlin and the Rio+20 in 2012. And these are just the most prominent elements of the program's future focus. The daunting nature of today's pressing environmental challenges demands broad and continued collaboration among key actors, from governments, businesses, academia and the NGO sector. SETAC's active dialogue with many international partners will enhance the Society's impact where it is needed most, particularly in developing countries and in areas where multidisciplinary approaches—keyed to human health, biodiversity, and sustainability—are increasingly needed.

SETAC'S PROGRAM

GLOBAL SCIENCE PROGRAM

Who We Are



SETAC MEMBERS

GLOBAL PARTNERS AND AFFILIATES

GEOGRAPHIC UNITS

SUSTAINING AND AFFILIATE MEMBERS AND PARTNERS

participate in

SETAC GOVERNANCE:
WORLD COUNCIL
and
COMMITTEES

and in

INTERNATIONAL ACTIVITIES

2002
UNEP/SETAC LIFE CYCLE INITIATIVE

2007
STRATEGIC APPROACH TO INTERNATIONAL CHEMICALS MANAGEMENT (SAICM)

2010
UNEP GLOBAL MERCURY PARTNERSHIP

2011
STOCKHOLM CONVENTION OUTREACH TO NEW PARTNERS BIODIVERSITY

TRAINING

SHORT COURSES
SUMMER SCHOOLS
SAICM CAPACITY BUILDING
eLEARNING

What We Do

SCIENCE



2010
Guangzhou, China
Ho Chi Minh City, Vietnam
Seville, Spain
Portland, OR, USA

2011
Darwin, Australia
Buea, Cameroon
Milan, Italy
Cumaná, Venezuela
Boston, MA, USA

Focused Topics:
Gulf oil spill, Pensacola, FL, USA
Environ Pollutants, Mérida, Mexico
LCA Case Studies, Budapest, Hungary
Special Symposia, Brussels, Belgium

2012
Berlin SETAC World Congress, Germany
Long Beach, CA, USA
Kyushu, Japan



2010
Environmental Effects of Nanomaterials
Problem Formulation for ERA
ESCORT 3

2011
Pesticide Risk for Pollinators
LCI Database Guidance
Global Climate Change

2012
Antimicrobial Resistance
Passive Sampling Devices



2010
JOURNALS: Wiley-Blackwell becomes publisher; Special sections: AquaticTox & Biomonitoring, Hurricane Katrina, Urban Pesticides, ERA of Pharmaceuticals; Virtual issues: Gulf Oil Spill
BOOKS: Mixture Toxicity, Uncertainty Pesticide Risks, Selenium, Soil Quality Standards, Ecotox Amphibians & Reptiles, Semi-field ERA Pesticides
NEWSLETTER: SETAC Globe goes electronic.

2011
JOURNALS: ET&C launches FOCUS features; IEAM begins podcasts; Special sections: Radiation/Radionuclides, Tissue Residue Approach, Traits-based ERA, Latin America Symposium
BOOKS: Environmental Life Cycle Costing: A Code of Practice, Linking Non-Target Arthropods Testing and Risk Assessment with Protection Goals (ESCORT 3), Assessing Risks of Pesticides to Pollinators

2012
JOURNALS: ET&C welcomes new editor-in-chief; Special issue: Nanomaterials in the Environment; Special sections: California Sediment Quality Objectives, Bayesian Belief Networks, Lab-Field Bioaccumulation



Amphibians & Reptiles Ecotoxicology | Animal Alternatives | Aquatic Macrophyte Ecotoxicology
Bioaccumulation Science | Ecosystem Services | Exposure Modeling | Life Cycle Assessment
Nanotechnology | Pharmaceuticals | Sediments | Soils

PUBLICATIONS

GLOBAL SCIENCE
PROGRAM

JOURNALS

In the first year of a 5-year publishing agreement with Wiley-Blackwell, SETAC's respected scientific journals expanded their global reach through Research4Life, making online content available free or at nominal cost to researchers in developing countries. Research4Life consists of the United Nations-backed Health InterNetwork Access to Research Initiative (HINARI), Access to Global Online Research in Agriculture (AGORA), and Online Access to Research in the Environment (OARE). For all users, the first issue of ET&C and IEAM each year is open access.

Environmental Toxicology and Chemistry (ET&C)

In 2010 ET&C celebrated 29 years of distinction through scientific excellence, publishing nearly 3000 pages that included 351 articles from 39 countries in its three major subject areas: Environmental Chemistry, Environmental Toxicology (aquatic, terrestrial, and plant), and Hazard/Risk Assessment.

- The journal published three special sections in 2010, on Aquatic Toxicology and Biomonitoring from a workshop in the Czech Republic, Urban Pesticides, and Hurricane Katrina.
- In response to the 2010 Gulf of Mexico oil spill, ET&C published a virtual issue that was cited by ScienceWatch as 6th in the 20 most-cited journals on the special topic of oil spills.
- ET&C's impact factor is 2.565, a 6% increase over its previous rating. And it ranks 2nd in total cites for toxicology journals, with more than 13,000 citations in the two years contributing to the impact factor (ISI 2010).

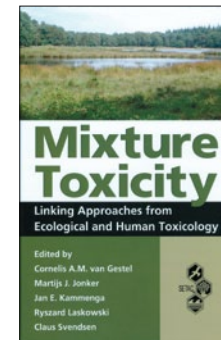
Integrated Environmental Assessment and Management (IEAM)

IEAM celebrated its 6th year of publication with 59 peer-reviewed articles from 12 countries in four quarterly issues, as well as regularly featured Book Reviews and timely scientific opinions in Learned Discourses.

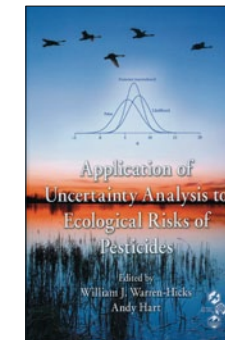
- In 2010 IEAM published its first Special Supplement issue, entitled "Environmental Risk Assessment of Pharmaceuticals (ERAPharm)."
- IEAM responded to the Gulf oil spill by featuring a virtual collection of previously published, still-relevant papers titled "Managing and Responding to Oil Spills."
- Special series in IEAM included The Tissue Residue Approach for Toxicity Assessment and Trait-Based Ecological Risk Assessment (TERA).

BOOKS

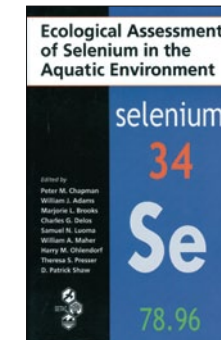
SETAC distributed more than 2000 books worldwide in 2010, including these new titles:



Mixture Toxicity: Linking Approaches from Ecological and Human Toxicology



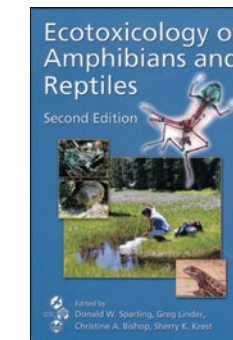
Application of Uncertainty Analysis to Ecological Risks of Pesticides



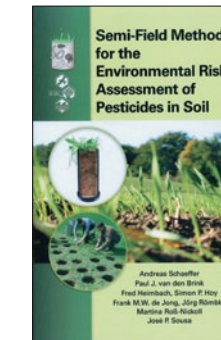
Ecological Assessment of Selenium in the Aquatic Environment



Soil Quality Standards for Trace Elements: Derivation, Implementation, and Interpretation



Ecotoxicology of Amphibians and Reptiles, Second Edition



Semi-Field Methods for the Environmental Risk Assessment of Pesticides in Soil

GLOBE NEWSLETTER

- The new electronic *SETAC Globe* began publishing in August. The newsletter's five 2010 issues reached more than 5500 SETAC members, online, literally around the globe.
- The *SETAC Globe* regularly highlights submissions from SETAC student councils, regional chapters and branches, and advisory groups, along with timely announcements and direct links to SETAC Communities online.
- The presidents and executive directors of SETAC's geographic units, along with the global executive director and the scientific affairs managers, all regularly report on annual meetings, workshops and other significant events in the Society's worldwide science program.

ADVISORY GROUPS

GLOBAL SCIENCE PROGRAM



SETAC's Advisory Groups provide a vital forum for professional interests in more than 21 topical areas across the environmental sciences. In 2010, the groups' activities ranged from sponsorship of platform and poster sessions at annual meetings to proposing and supporting workshops and books on several current issue topics including the second edition of the book *Ecotoxicology of Amphibians and Reptiles* and the workshop "Ecotoxicity of Nanomaterials."

SETAC GLOBAL ADVISORY GROUPS

Amphibians and Reptiles Ecotoxicology

Supports the wide range of herpetology topics critical to amphibians and reptiles that currently are struggling to "catch up" with other frequently encountered organisms of interest and concern in SETAC sessions at annual meetings and at focused conferences and workshops. Chair: Greg Linder, U.S. Geological Survey, Biological Resources Division

Animal Alternatives

Explores key technical challenges for the future of reduction, refinement, and replacement of animal tests in environmental science, seeks to advance the state of the science in animal alternatives with respect to acute and chronic testing, and aims to identify when and where animal testing alternatives are appropriate and how they can be used in environmental risk assessment. Co-Chairs: Scott Belanger, The Procter & Gamble Company; Michelle Embry, ILSI Health & Environmental Sciences Institute.

Aquatic Macrophyte Ecotoxicology

Champions the development of approaches to the assessment of the effects of chemicals on aquatic macrophytes and their use in ecological risk assessment. Co-Chairs: Angela Poovey, U.S. Army Corps of Engineers; Gertie Arts, Alterra Wageningen University and Research Centre.

Bioaccumulation Science

Seeks to advance the state of bioaccumulation science and increase the use of sound science in decision-making through the use of models, in vitro, and in vivo data for bench-scale, site-specific, and regional bioaccumulation assessments. Co-Chairs: Henriette Selke, Roskilde University; Mark Lampi, ExxonMobil Biomedical Sciences Inc.

Ecosystem Services

New in 2010, the group aims to create a platform for exchanging information and ideas on the ecosystem services concept in risk assessment and management, environmental regulation, and valuation of ecosystem services. Plans include holding targeted subject-specific discussion groups at annual meetings and workshops. Co-Chairs: Joke Van Wensem, TCB; Lorraine Maltby, University of Sheffield; Tim Canfield, U.S. Federal Government.

Exposure Modeling

Concentrates on modeling the properties, sources, environmental fate, and exposure of environmental pollutants, notably the development of quantitative models that describe the behavior and exposure pathways of chemical, biological, and physical contaminants in the environment and for human and ecological populations. Chair: Matthew MacLeod, ETH Hönggerberg.

Life Cycle Assessment

Advances the science, practice, and application of LCAs to reduce resource consumption and environmental burdens associated with products, packaging, processes, or activities. Serves as a focal point of a broad-based forum for the identification, resolution, and communication of issues regarding LCAs, facilitates guidance for the development and implementation of LCAs, and through representatives, acts as the coordinator for the geographic unit-level LCA advisory groups. Co-Chairs: Christian Bauer, European Aluminium Association; Jane Bare, U.S. Environmental Protection Agency.

Nanotechnology

Dedicated to investigation of environmental aspects of nanomaterials technology, ranging from toxicology and chemistry to life cycle and risk assessment; work streams focus on nanomaterial definition and characterization, environmental fate and behavior, toxicokinetics and bioaccumulation, ecotoxicology, and risk assessment frameworks.

Chair: Bart Koelmans, Wageningen University, Aquatic Ecology and Water Quality Management.

Pharmaceuticals

Devoted to study of the bioactive property of pharmaceuticals, addressing concerns about whether the current environmental risk assessment methodology needs revision or replacement to more appropriately assess the potential environmental impact of pharmaceuticals. Chair: Alistair Boxall, University of York, Environment Department.

Sediments

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 conducting effective environmental risk assessment and management of sediment: transport, fate, exposure, effect, impact analysis, guideline values and frameworks, and management strategies.

Chair: Susanne Heise, Technische Universität, Hamburg-Harburg, Environmental Science & Technology.

Soils

Provides a scientific basis for, as well as scientific 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. Co-Chairs: Mónica Amorim, Universidade de Aveiro, Departamento de Biologia; Michael Simini, U.S. Army Edgewood CB Center.

SETAC NORTH AMERICA ADVISORY GROUPS

Chemistry

Constitutes a voice for chemists as a professional area. Improves and sustains the inherent interdisciplinary nature of SETAC in members and expertise. Increases awareness of and relevance for environmental chemistry through scientific, education, and communication opportunities. Brings visibility and discipline balance to the Society in convening annual meeting sessions as well as outreach to and collaboration with other chemistry-oriented professional groups. Promotes multidisciplinary activities among chemists and other environmental professionals. Instituted planning for SETAC involvement in the International Year of Chemistry in 2011. Chair: Charles Wong, University of Winnipeg.

Ecological Risk Assessment

Advances the science, practice, and application of ecological risk assessment, disseminates approaches to reduce uncertainty in the assessment process, promotes the institutionalization of its use in environmental planning and assessments, and encourages the harmonization of assessment methods. Successfully proposed a workshop to explore how expected changes in climate will influence the scientific underpinnings of environmental toxicology and

chemistry. Co-Chairs: Wayne Munns, U.S. Environmental Protection Agency, Atlantic Ecology Division; Mary Sorensen, ENVIRON International Corporation.

Human Health Risk Assessment

Includes interactions between human activities and environmental exposures. Industrial pollutants and other emerging contaminants constitute candidate stressors. Scientific coverage of the 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. Chair: Betty Locey, ARCADIS.

Metals

Keeps members abreast of science developments and regulatory directions relating 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 within environmental policy. Chair: Bill Stubblefield, Oregon State University.

SETAC EUROPE ADVISORY GROUPS

Dung Organism Toxicity Testing (DOTTS)

Established to exchange information about testing the effects of veterinary drugs on dung organisms, to develop test protocols for toxicity testing with dung flies and dung beetles, and to perform ring tests with dung flies and dung beetles in order to standardize and validate test protocols. Chair: Jörg Römbke, ECT Oekotoxikologie GmbH.

Environmental Monitoring Advisory Group on Pesticides (EMAG-Pest)

Objective is to promote exchanges of views, experience, and data in environmental monitoring and post-registration studies related to the use of plant protection products (PPPs) or pesticides in crop protection. Particular emphasis will be given to links with developments in ecological modeling, linked to the MeMoRisk advisory group. Co-Chairs: Anne Alix, French Ministry of Agriculture; Martin Streloke, BVL.

MeMoRisk

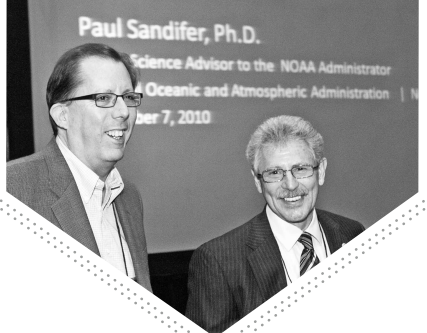
Explores and evaluates the benefit of mechanistic effect modeling for the risk assessment of chemicals in Europe through the establishment of a forum for better communication and cooperation of scientists in academia, business, and government, working on or with mechanistic modeling, to analyze and predict effects of chemicals on organisms, populations, and communities. Co-Chairs: Thomas Preuss, RWTH Aachen University, Institute for Environmental Research; Udo Hommen, Fraunhofer IME.

REACH

Formed in 2008 in response to the implementation of the new European Union regulation concerning the Registration, Evaluation, Authorization and restriction of Chemicals. Serves as a focal point for scientific REACH-orientated discussions and activities, specifically in discussing regulatory concerns in order to encourage and channel scientific activities, enhancing exchange of scientific information among experts in the relevant fields, and promoting the further development of scientific solutions in order to facilitate the formulation of technical guidance by the European Chemicals Agency (ECHA). Chair: Tim Kedwards, S. C. Johnson Ltd.

WORKSHOPS

GLOBAL SCIENCE PROGRAM



SETAC is known and respected for its pre-eminent 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 nearly 50 Pellston workshops, each focusing on a relevant environmental topic with proceedings published as a peer-reviewed or informal report.

The 2010 Pellston calendar was dominated by preparations for three workshops scheduled for early in 2011:

PESTICIDE RISK ASSESSMENT FOR POLLINATORS

In response to declines in pollinator species in North America and many parts of the world, SETAC member scientists will focus on “Pesticide Risk Assessment for Pollinators” in January 2011 in Pensacola, Florida. Participants will work to develop an improved system for conducting assessments of risk to bees using existing and proposed tools for estimating exposure and effects while identifying chemicals with potential to pose a risk to bees and refining risk estimates for such chemicals.

GLOBAL GUIDANCE PRINCIPLES FOR LIFE CYCLE ASSESSMENT DATABASES

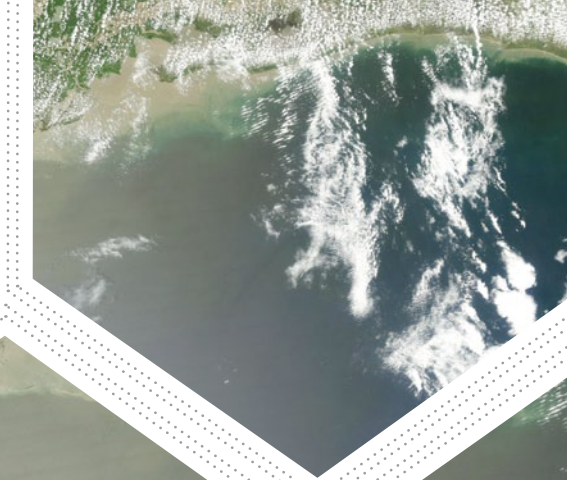
Life cycle assessment is where the environment confronts the economy, and the UNEP/SETAC Life Cycle Initiative is a global focal point for tackling critical methodological and analytical problems. The Pellston-style workshop on “Global Guidance Principles for Life Cycle Assessment Databases,” scheduled for January 2011 in Japan, will bring together specialists from around the world to address the need for greater consistency with respect to database requirements to underpin quality life cycle assessments.

THE INFLUENCE OF GLOBAL CLIMATE CHANGE ON THE SCIENTIFIC FOUNDATION AND APPLICATION OF ENVIRONMENTAL TOXICOLOGY AND CHEMISTRY

With climate change the headline environmental issue of the century, SETAC is preparing a global workshop to examine the topic. Set for July 2011, the workshop will address the potential interactions of climate change with the foundations of environmental toxicology and chemistry and the impacts those interactions will have on the application of the science to exposure, effects, and recovery assessments.



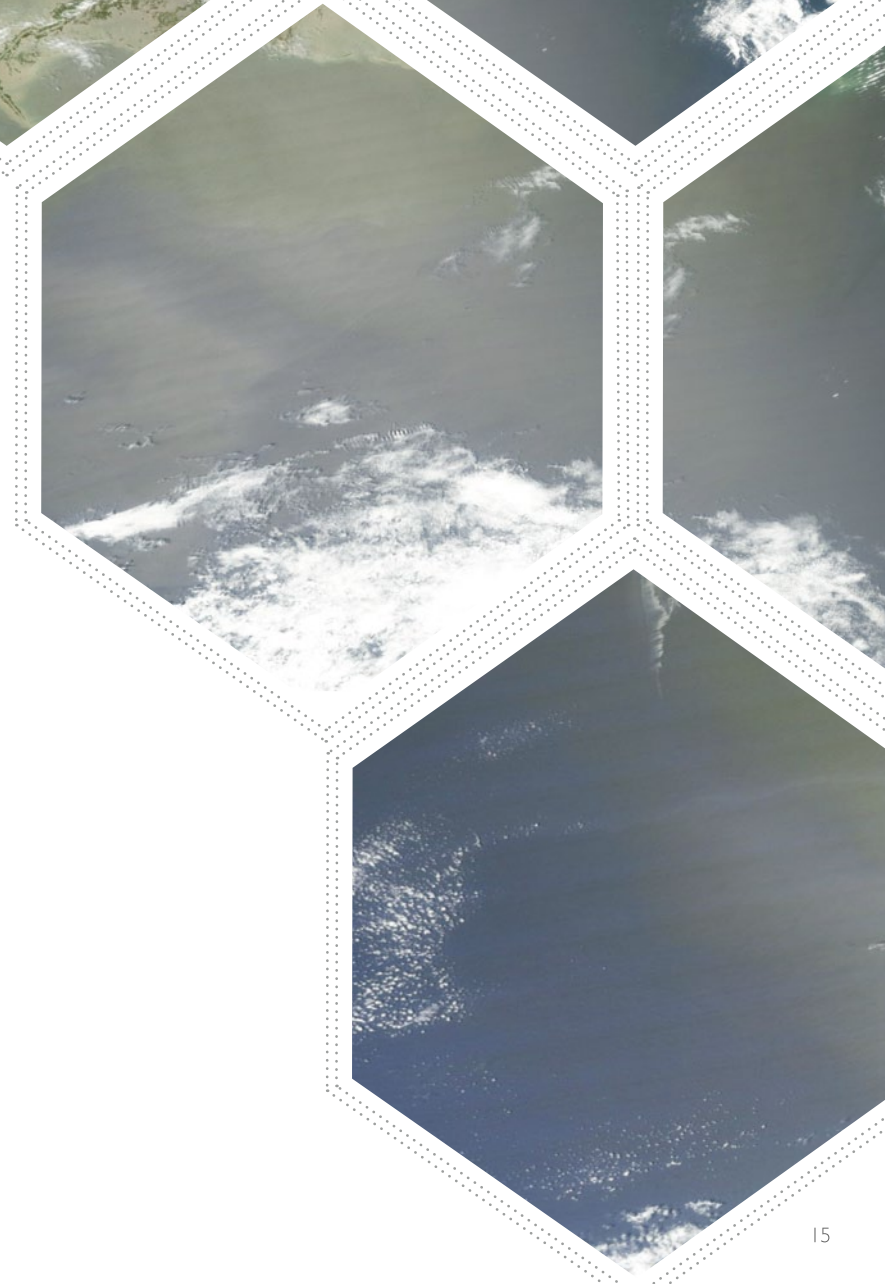
Photo courtesy of NASA



SPECIAL TOPIC: GULF OF MEXICO OIL SPILL

In 2010, SETAC meetings and journals provided an immediate global platform for tackling key issues related to the Deepwater Horizon oil spill accident that occurred in April in the Gulf of Mexico. The SETAC Europe meeting in Seville was the setting for a significant initial discussion in May, attracting more than 100 scientists to a special session. In June, the SETAC journal *Environmental Toxicology and Chemistry* published a virtual edition recapping significant existing science. SETAC North America scheduled a special session, “Breaking News—Oil Spill Update,” to the lineup of scientific events during its November meeting in Portland. Oil-spill related topics included crude oil chemistry, ecotoxicology of crude oil and dispersants, hydrocarbon concentrations in affected media, natural resource conditions, summary statistics, and comparisons to other large crude spills of the past.

These discussions set the stage for a more extensive focused topic meeting, to be held in April 2011 in Pensacola Beach, Florida, bringing together a diverse group of environmental scientists and engineers active in the field of oil spill prevention and response during the Gulf oil spill. The meeting will provide a platform for these professionals to share their latest research findings, with the goal of developing science-based recommendations for improving oil spill response and tracking, control techniques, management, and effects assessment.



EDUCATION,
TRAINING, AND
eKNOWLEDGE

GLOBAL SCIENCE
PROGRAM

Consistent with the SETAC mission, education and training have long been leading strategic and operational priorities for the Society. Focused on professional development at all career levels, the program has traditionally relied on short courses that address current and cutting-edge topics at major geographic unit and regional chapter meetings. But the program is evolving and is moving increasingly into the realm of eLearning approaches.

SETAC has an ambitious vision for its future education efforts as a provider of professional environmental eLearning in response to the clear, growing, and global demand for viable online tools and courses in environmental science, taking advantage of SETAC's recognized expertise in key disciplines. In this spirit, SETAC became a member of the consortium supporting the World Library of Toxicology, to add further expertise on environmental toxicology to the largely human health-focused WLT program.

In 2010, SETAC added webinars to this important effort, drawing on volunteer experts to offer a program on "Science-Based Guidance for the Evaluation and Identification of PBTs and POPs: An Overview" in June and "The Science of Assessing POPs-PBTs: Focus on Persistence" in October. Both webinars were well attended and available to

audiences around the world. This initial success sets the stage for an expanded program with a wider range of topics in 2011 and in future years.

Still, quality short courses remained the Society's educational bread and butter. Twelve short courses were offered at the SETAC Europe meeting in Seville, addressing such topics as marine risk assessment, biomarkers, and issues relevant to European regulation, including the use of QSAR models for REACH. At the SETAC Asia/Pacific meeting in Guangzhou, short courses addressed general and regional research issues. The SETAC North America meeting in Portland featured 11 short courses, with a number of new topics serving to complement more familiar offerings on environmental risk assessment and environmental chemistry, for example:

"The mussel course was very well done. Instructors were top-notch and leaders in this field. Could expand the course to include testing with other life stages of mussels as well as testing with other mollusks such as snails."

- Participant in a SETAC short course

THE ENDOCRINE SYSTEM:

The Good, the Bad and the Regulations

SUSTAINABILITY:

What Is It, Why Is It Important and How to Think About It

LIFE CYCLE IMPACT ASSESSMENT FOR LAND AND WATER USE:

Focusing on Ecosystem Services

COMMUNICATING SCIENCE TO POLICY MAKERS AND THE MEDIA





NORTH AMERICA

In recognition of the critical importance of bringing global science to local challenges, SETAC North America focused its 31st Annual Meeting on the theme “Bridging Science with Communities.”

The meeting, held in Portland, Oregon, attracted more than 2300 attendees from 40 countries. The meeting was organized to minimize its environmental impact and to promote green practices.

Key session topics highlighted the Gulf of Mexico oil spill, climate change, population-based ecological risk assessment, advances in investigative tools for hormone disrupters and the emerging concept of ecosystem services. The Portland meeting also saw the continuation of Society-wide discussions on the critical issue of environmental sustainability.



SETAC North America continued its commitment to supporting environmental activities in host cities through service projects. The Portland project, in conjunction with Weston Solutions, involved salmon habitat restoration along the Salmon Creek in the neighboring city of Vancouver, Washington.

THE YEAR ALSO SAW EARLY PREPARATIONS FOR A FULL PROGRAM IN 2011. AS A FOLLOW-ON TO SCIENTIFIC DISCUSSIONS AT SEVILLE AND PORTLAND, PLANNING COMMENCED FOR A FOCUSED TOPIC MEETING ON THE GULF OF MEXICO OIL SPILL, TO BE HELD IN PENSACOLA BEACH, FLORIDA IN APRIL.

Led by the Mexico Regional Chapter, planning began for a second focused topic meeting on “Pollutants in the Environment: Fate and Toxicity,” to be held in Mérida, México in August.

Noted plenary speakers addressed critical and topical environmental issues.

PAUL SANDIFER

From the National Oceanic and Atmospheric Administration (NOAA), spoke on “Oil Spills, the Deepwater Horizon and New Directions in Ocean Policy.”

ERNESTA BALLARD

Weyerhaeuser Company, discussed “Sustainability: Values and Behaviors for Success.”

BRUCE HOPE

Oregon Department of Environmental Quality, addressed “When Chemicals Have Friends—Thoughts on Chemical Management.”

**BRIDGING
SCIENCE**

WITH COMMUNITIES

PORTLAND, OREGON

2300

SCIENTISTS

FORTY

COUNTRIES

ENDOWMENT FUND

The SETAC North America Endowment Fund continued to prosper, with total assets growing 25% to exceed \$80,000 in 2010. This member-driven program supported an increase in travel awards for students and competitively selected environmental engineers. The fund established a Legacy Society to recognize and encourage substantial and continuing contributions and launched an effort to create a special endowment fund to recognize the significant contributions of founding member Eugene Kenaga to SETAC.

MENTORING

In addition to mentoring activities that are ongoing at the regional chapter level, the Portland meeting's luncheon seminar "Career Experiences of Young Professionals in SETAC" featured a panel discussion by recent graduates working in the academic, government, and business sectors with a question and answer session on what students need to know and do to be successful in their future careers. A Student/Mentor Dinner allowed participants to strengthen networks within SETAC and provided a valuable opportunity for discussion of scientific topics and career experiences. Stacey Harper of Oregon State University spoke at the annual Women in SETAC luncheon.

The meeting program also included "SETAC Unveiled for Students" to acquaint student members with how SETAC works and to find opportunities for them to get involved in SETAC North America committees.

REGIONAL CHAPTERS

North America's 18 regional chapters are the Society's active link to local environmental practitioners and a spectrum of critical issues. Their yearly meetings are significant subregional events and underpin the broader scientific discussion featured at the annual geographic unit meeting.

AWARDS

Professional Awards

SETAC Government Service Award: John Elliott, Environment Canada, Science & Technology Branch, Pacific Wildlife Research Centre

SETAC/Menzie Environmental Education Award: Kiawah Island Golf Resort Nature Program, Kiawah Island, South Carolina

Eugene Kenaga SETAC Membership Award: Jane P. Staveley, Exponent Inc.

Outstanding Regional Chapter Member: David R. Ownby, Towson University

Research Fellowship Awards

SETAC/EA Engineering Jeff Black Award: Sandy Wiggins, Texas Tech University

SETAC/Royal Society of Chemistry (RSC) Environmental Science Award: Myrna Simpson, University of Toronto

Student Awards

SETAC-American Chemical Society (ACS) ENVR Student Exchange Program: Diana Delach, Clemson University

Student Travel Awards

A total of 161 student awards were funded, with more than \$48,000 committed by SETAC North America for 2010 (to include travel, registration waivers, and other support)



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STUDENT MEMBER: JULISKA PRINCZ, UNIVERSITY OF SASKATCHEWAN



EUROPE

The SETAC Europe 20th Annual Meeting was conducted from 23–27 May in Seville, Spain, the largest and most successful SETAC event ever held in Europe. More than 2300 scientists attended, presenting their work in eight parallel sessions with 520 platform presentations on the theme “Science and Technology for Environmental Protection.” Posters numbered more than 1500, and in addition, four special sessions and 10 short courses were offered.

The scientific program addressed such themes as climate change and environmental quality; emerging pollutants; handling, monitoring and remediation of pollution; nanomaterials; risk assessment and regulation; and life cycle assessment and management. The special sessions dealt with evolutionary processes in ecotoxicology; global stressors such as climate change, invasive species, and chemicals; water quality and assessment under scarcity; and defining adverse outcome pathways for predictive ecotoxicology.

Keynote lectures were given by four high-profile scientists:

DAMIÀ BARCELÓ

Director of the Catalan Institute for Water Research (ICRA), spoke on “Fate and Risk of Pharmaceuticals and Illicit Drugs in River Basins: The Ebro and Llobregat Case Studies.”

JOSEPH M. SUFLITA

George Lynn Cross Research Professor of Microbiology at the University of Oklahoma, discussed “Energy Choices and Environmental Impacts: Lessons from the Anaerobes.”

MICHAEL NEWMAN

The A. Marshall Acuff, Jr. Professor of Marine Science at the College of William and Mary’s School of Marine Science, addressed “Essential Imitation and Innovation in Ecotoxicology.”

DEREK J. KNIGHT

Senior Scientific Advisor to ECHA’s Executive Director, presented “Challenges in REACH.”

THE SETAC EUROPE PROFESSIONAL EDUCATION PROGRAM WAS WELL RECEIVED IN SEVILLE AND FEATURED 10 SHORT COURSES, COVERING A WIDE RANGE OF TOPICS.

Earlier in the year, in Poznan, Poland, SETAC Europe held its 16th Life Cycle Assessment Case Studies Symposium. Attended by LCA practitioners from Europe and elsewhere, the meeting reinforced SETAC Europe’s strong presence at the forefront of the important life cycle agenda.

Also in 2010, SETAC Europe prepared for significant future events, including these:

SETAC EUROPE 21ST ANNUAL MEETING IN MILAN IN MAY 2011, with the theme of “Ecosystem Protection in a Sustainable World: A Challenge for Science and Regulation.”

A SETAC Europe/ISES Special Session with the theme “Emerging Exposure Science for Developing Chemical Regulatory Policy: REACH, Biocides, TSCA reform,” scheduled for the 21st annual meeting in Milan.

3rd and 4th Special Science Symposia on prospective and retrospective environmental risk assessment of mixtures and on ERA of biocides, in Brussels in February and October 2011.

23-27 MAY
in SEVILLE
SPAIN
2300
SCIENTISTS
8 CONCURRENT
SESSIONS WITH
520
presentations

RANDAL ALBERTUS, SASOL TECHNOLOGY,
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RESEARCH, THE NETHERLANDS

STUDENT REPRESENTATIVE: MARKUS
BRINKMANN, RWTH AACHEN UNIVERSITY,
GERMANY



REGIONAL BRANCHES

SETAC Europe is home to five active Regional Branches: United Kingdom Branch (SETAC-UK), German Language Branch (SETAC GLB), Italian Branch (SETAC Italia), SETAC Central & Eastern Europe Branch (SETAC CEE), and SETAC Africa. Each organization offers important opportunities for discussion among academia, business, and regulatory authorities promoting the application of scientific knowledge to environmental policy; organizes workshops, scientific meetings, and training courses on topics of interest to its members; gives support and offers networking opportunities to young scientists; and coordinates local, national, or regional activities related to environmental toxicology and chemistry. The SETAC Africa Branch continues to develop and to progress toward achieving full geographic unit status within the Society.

ENGINEERED NANOPARTICLE IMPACT ON AQUATIC ENVIRONMENTS: STRUCTURE, ACTIVITY AND TOXICOLOGY (ENNSATOX)

SETAC Europe is handling the dissemination of project activities and results for the EU Project ENNSATOX, which began in July 2009 and is to be completed in June 2012. The project involves conducting parallel environmental studies to examine the behavior of nanoparticles in natural waters and how they modify the particles' chemical reactivity, physical form, and biological activity. A comprehensive model will be developed to describe the environmental system and predict the effects of nanoparticles. More information can be found at www.ennsattox.eu.

AWARDS

Young Scientist Awards

ECETOC Young Scientist Award for Best Platform Presentation at the 20th SETAC Europe Annual Meeting went to Anne-Marie Boulay, CIRAIQ Ecole Polytechnique, Montréal, Canada, for "Using GIS to Evaluate Regional Human Health Impacts from Water Use."

Tom Feijtel Young Scientist Award for Best Poster Presentation at the 20th SETAC Europe Annual Meeting was won by Andrea Emili, University of Trieste, Italy, for "In situ Monitoring of Mercury Species from Lagoon Sediments using Dark and Light Benthic Chambers."

SETAC Europe Life Cycle Assessment Young Scientist Award was presented to Jesper Hedal Kløverpris, Novozymes A/S, Denmark, for his remarkable contribution to the methodological development within consequential LCA of land-use changes.

Best Publication Awards

SETAC Europe/Eurofins Best Publication Award for the best publication in Chemical Analysis and Environmental Monitoring went to Christian Bogdal, Swiss Federal Institute of Technology, Zürich.

SETAC Europe/AstraZeneca Best Publication in Risk Assessment, Modelling and Theoretical Studies was awarded to Monica Martinez-Haro, University of Castilla, Spain.

SETAC Europe/RifCon Best Publication in Ecotoxicology, Ecoepidemiology and Biological/Biochemical Studies was awarded Stefanie Knauert, Swiss Federal Office for Agriculture.

Professional Awards

SETAC Europe/NOACK-Laboratorien Environmental Education Award honored Hans Toni Ratte, RWTH-Aachen University, Germany for activities in the dissemination of knowledge on environmental sciences and for outstanding achievements as a scientist and mentor in the fields of environmental biology and toxicology.

SETAC Europe/EDANA Award for Lifetime Achievement in Life Cycle Assessment was conferred on Professor Ruedi Müller-Wenk, emeritus at the University of St. Gallen, Switzerland, for his distinguished contributions in life cycle thinking.

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AFRICA

Population growth, rapid urbanization, increased industrial activity, and greater exploitation of natural resources are just a few of the challenges to Africa's environment. SETAC Africa, a regional branch of SETAC Europe, is actively contributing to developing solutions to these challenges.

In 2009, scientists at the 4th SETAC Africa Conference in Kampala, Uganda, recognized that African toxicologists could benefit from intensive training in a broad spectrum of chemistry, as well as pharmacokinetics, toxicokinetics, and other environmental disciplines. Toward that end, in 2010, SETAC Africa began planning for a toxicology short course in collaboration with the Cameroon Society for Toxicological Sciences (CSTS). The course is just one of many significant offerings at "Searching for African Solutions to Human and Environmental Toxicological Challenges," a joint CSTS/SETAC Africa meeting scheduled for May 2011 in Buea, Cameroon. Other short courses include "Computer-based Approaches in Predictive Toxicology" and "Risk Assessment in the 21st Century," while the conference program features aquatic, environmental, pesticide, reproductive, and regulatory toxicology, among other related topics.

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As with past SETAC Africa meetings, the Buea meeting will be a multidisciplinary effort to bring together scientists involved in research, production, use, release, management, and regulation of toxic chemicals to seek solutions to Africa's human and environmental challenges.

Although this will be the 5th SETAC Africa conference, it is the very first SETAC Africa conference ever conducted out of the southern/eastern African region and the inaugural conference organized by the recently created SETAC Central and West Africa Chapter.

THE CONFERENCE AND TRAINING EFFORTS ARE EVIDENCE OF SETAC AFRICA'S PROGRESSION TOWARD BECOMING A FULL GEOGRAPHIC UNIT OF SETAC AND DEVELOPING REGIONAL CHAPTERS OF ITS OWN.

CSTS/SETAC AFRICA

MEETING SCHEDULED

MAY 2011

BUEA

CAMEROON

Such development will make it easier for SETAC members, especially students, to attend meetings without being stymied by the obstacles of distances and travel costs that currently are the norm for the continent.



ASIA/PACIFIC

The Asia/Pacific region, rich with biodiversity and precious natural resources, faces an array of environmental challenges associated with the ever-increasing human population, industrialization, urbanization and unprecedented economic growth. SETAC Asia/Pacific's meetings and activities addressed many of these challenges and prepared the ground for future scientific engagement.



**4-7 JUNE
GUANGZHOU**

574

PARTICIPANTS
FROM **CHINA**
22 OTHER COUNTRIES

THIRTY-SIX
SESSIONS

450

PLATFORMS

*THE BALANCE BETWEEN
ECONOMIC GROWTH
AND ENVIRONMENTAL
PROTECTION:
SUSTAINABILITY
—THROUGH—
BETTER SCIENCE*

BIANNUAL MEETING

The 2010 SETAC Asia/Pacific biannual meeting was held 4–7 June in Guangzhou, China, with 574 participants from China and 22 other countries. Hosted by Eddie Zeng and the State Key Laboratory of Organic Geochemistry, the conference addressed “The Balance between Economic Growth and Environmental Protection: Sustainability through Better Science.” Some 36 sessions and 450 platform presentations examined important environmental issues. The impacts of other environmental stressors such as global warming and hypoxia and innovative techniques for environmental monitoring and risk assessment were also covered. SETAC members in China considered forming a chapter and set up a preparatory organizing committee. There was a very strong student presence at the meeting.

KEY TOPICS OF THE MEETING: CONTAMINATION OF AIR, WATER, SEDIMENT, AND SOIL FROM SUCH CHEMICALS AS MERCURY, POLYCYCLIC AROMATIC HYDROCARBONS, POLYCHLORINATED BIPHENYLS, PESTICIDES, PHARMACEUTICALS AND PERSONAL CARE PRODUCTS, CHIRAL CHEMICALS, AND NANOPARTICLES | ENVIRONMENTAL FATE AND EFFECTS OF THESE CONTAMINANTS AND THEIR REMEDIATION TECHNOLOGIES



FIRST INTERNATIONAL CONFERENCE ON ENVIRONMENTAL POLLUTION, RESTORATION AND MANAGEMENT: VIETNAM

Earlier in the year, SETAC Asia/Pacific joined Florida International University and the Ho Chi Minh City University of Technology in organizing the First International Conference on Environmental Pollution, Restoration and Management on 1–5 March in Ho Chi Minh City, Vietnam. The conference, attended by 250 scientists from 54 countries, included a day and a half of workshops and short courses and three days of platform presentations and posters featuring ecological risk assessment, human health risk assessment, and application of environmental quality guidelines. More than 200 presentations in 16 parallel sessions covered such topics as environmental pollution, toxicology, public health, risk assessment, remediation, technology, management and policy, and environmental economics. The conference initiated and strengthened collaboration between scientists from developed and developing countries through the exchange of experiences on the quality of environmental research and environmental issues.

TAKING STEPS FORWARD ON PESTICIDES: INDIA

In India, SETAC joined the Energy and Resources Institute (TERI) and the Society of Pesticide Science, India (SPS) in organizing a workshop on “Minimizing Off-site Impacts of Pesticides: A Risk-Based Approach” at the India Habitat Center, New Delhi. The workshop brought together Indian and international expertise as well as tools, approaches, and experiences to improve on-farm management of pesticides and minimize their off-site impact on the ecosystem and human health. Some 43 participants represented industry, resource managers, regulators, researchers, academia, government, NGOs and pesticide expertise. SETAC representatives Paul van den Brink (Vice President) and Rai Kookana presented at a seminar at the Agrochemicals Division of the Indian Agricultural Research Institute (IARI) on SETAC’s global program and on the topics of environmental fate and effects of pesticides in tropical ecosystems.

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THE YEAR 2010 ALSO WITNESSED CONCERTED PREPARATIONS FOR KEY FUTURE EVENTS, INCLUDING THE ENVIROTOX 2011 CONFERENCE OF THE NEWLY ESTABLISHED AUSTRALASIA REGIONAL CHAPTER IN DARWIN, AUSTRALIA AND THE NEXT BIENNIAL MEETING IN KUMAMOTO, KYUSHU, JAPAN IN 2012.

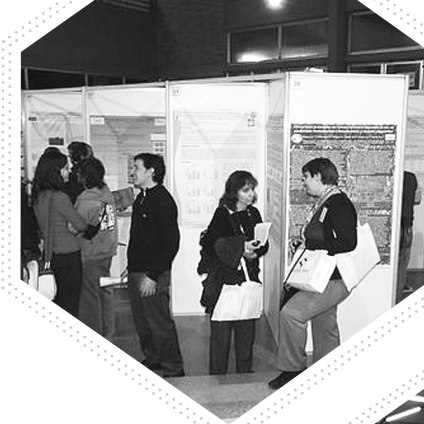
Membership in SETAC Asia/Pacific shows strong growth. The Australasian Society of Ecotoxicology joined SETAC Asia/Pacific as a regional chapter in December, and a SETAC China regional chapter is likely to be launched in 2011/2012. Ongoing outreach efforts aim to strengthen links among other national associations that address chemistry and environmental toxicology.



LATIN AMERICA

SETAC Latin America is a key geographic unit within the Society's global program, and SETAC is working to increase membership and its program of activities in the region. The region faces a daunting array of environmental challenges, and SETAC Latin America is working to contribute to solutions.

SETAC Latin America activities in 2010 included the SETAC Argentina Regional Chapter conference in May in Santa Fe. To promote capacity building, the III Congress of the SETAC Argentina Regional Chapter sponsored a course on pesticide risk assessment in September in Buenos Aires.



CUMANÁ, VENEZUELA WILL HOST THE NEXT BIENNIAL CONFERENCE IN OCTOBER 2011

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ELEINE FRANCONI DE ABREU LIMA, PETROBRAS, BRAZIL

The geographic unit continued its efforts to broaden membership with outreach activities in key countries, including Brazil. A growing group of SETAC Latin America members is interested in life cycle disciplines, and this area has attracted increasing attention.

Scientific Affairs Manager Bruce Vigon represented SETAC Latin America at the March Latin America Caribbean (LAC) regional SAICM meeting in Kingston, Jamaica. SETAC is in line to conduct a SAICM regional risk assessment capacity workshop when funding becomes available.

Preparations continued for the biennial conference, October 2011, in Cumaná, Venezuela, where the organizers expect a well-attended meeting that will enhance SETAC Latin America's outreach to Central America and the Caribbean in particular.

GLOBAL AWARDS

MEMBERS AND PARTNERS

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 reflecting 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. Because Asia/Pacific and Latin America awards are currently under development, candidates from these geographic units are encouraged to apply for awards from North America and Europe.

Rachel Carson Award

The Rachel Carson Award, SETAC's premier global award presented every four years on the occasion of the World Congress, was presented in 2008 to Tim Flannery, an eminent Australian environmentalist and an established researcher in mammology and paleontology who has published extensively on environmental issues in the best tradition of Rachel Carson.

Founders Award

SETAC's highest annual award was presented to Steven Eisenreich of the European Commission. The Founders Award is presented to an individual with an outstanding career in the environmental sciences.

Herb Ward Exceptional Service Award

Presented to Ellen Mihaich of ER2, LLC, this award is given to recognize a past or present SETAC member who has performed long-term, exceptionally high-quality service to the Society.



SETAC/ICA Chris Lee Award

Presented to Nilima Gandhi of the University of Toronto for her outstanding research contributions in the field of metal fate and effects in the environment, this award is sponsored by The International Copper Association and provides up to \$5000 to a graduate student or recent graduate who has researched the fate and effects of metals in the environment.

SETAC/Procter & Gamble Fellowship for Doctoral Research in Environmental Science

Presented to Débora Jesabel Pérez of the Universidad Nacional de Mar del Plata, Buenos Aires, for her work, "Potential of the Wetland Macrophyte *Bidens laevis* L. as Biomonitor of Genotoxic Effects of the Insecticide Endosulfan," this fellowship is sponsored by The Procter & Gamble Company and provides \$15,000 for one year of PhD studies in environmental science.

Global Partners Capacity-Building Award

This award recognizes member volunteer service in capacity building in developing countries. The award was last presented in 2009 to Christina E. Cowan-Ellsberry, Diana Graham, Phil Jennings, and C.J. (Kees) van Leeuwen for developing and teaching an outstanding curriculum on risk assessment for SETAC's Africa Regional Training Workshop under the SAICM Quick Start Programme; the workshop was conducted in March in Dar es Salaam, Tanzania.

ET&C Best Student Paper Award

Presented to Amy Brooks of the University of Sheffield for her paper titled "Sublethal Effects and Predator-Prey Interactions: Implications for Ecological Risk Assessment," this award is given annually to the best student paper published or accepted in SETAC's esteemed journal *Environmental Toxicology and Chemistry* during the past year.

In addition to these traditional awards, in 2010 SETAC created two new awards. The **SETAC Environmental Professional Award** is designed to recognize an individual's advancement and development as a professional, often early in his or her career, and ultimately may include many SETAC members whose association with the Society has been continuous and who are active in their field. The **SETAC Fellows Award** will acknowledge the longer-term and significant scientific and science policy contributions of SETAC members to the sciences embraced by SETAC, including ecotoxicology, environmental chemistry, risk assessment, and life cycle assessment. The hallmark of a SETAC Fellow is leadership within the professional and scientific arenas. SETAC Fellows will constitute a body that possesses institutional knowledge of the Society and thus can serve as a sounding board for the SETAC World Council.

GLOBAL PARTNERS AND AFFILIATES

MEMBERS AND PARTNERS

An ever-changing world requires innovation and advancement in science, often accomplished in the traditional scientific disciplines of toxicology, chemistry, and risk assessment. SETAC members are helping to advance science in areas such as nanotechnology, green chemistry, sustainability, and life cycle considerations. Our Global Partners and Global Partner Affiliates are actively engaged in helping SETAC build valuable partnerships to explore these emerging areas of science and to reinforce the overall effort to promote robust and sound scientific principles, especially in developing countries. With this support, Global Partners and Affiliates are ensuring that Environmental Quality Through Science® and SETAC's mission are heard around the world.

With a breadth of experience resulting from SETAC's unique tripartite relationship of academia, business, and government, the Global Partners Council provides strategic thinking on both science and financial resources to the World Council and SETAC committees. In addition, the sponsorship of the Capacity-Building Award underscores the Global Partners' commitment to recognize excellence in scientific training and capacity building in developing countries, a contribution that will help SETAC meet the challenges facing environmental scientists everywhere.

In 2010, twenty-six Global Partners and Global Partner Affiliates

- Supported student and developing country membership dues to promote membership growth and build scientific capacity in developing countries;
- Contributed expertise in eLearning and training to strengthen efforts in capacity building, both within SETAC and as outreach tools; and
- Provided Global Partner representation to SETAC committees, including Membership and Public Relations and Communications, to coordinate advisory efforts and identify strategic issues for Global Partner activity.

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- Research Institute for Fragrance Materials
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.....
**GEOGRAPHIC UNIT
SUSTAINING MEMBERS,
AFFILIATES, AND
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.....

**MEMBERS AND
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STUDENTS AND MENTORING

MEMBERS AND PARTNERS

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 at the geographic unit governing body-level in Europe and North America. SETAC students are known for their intellectual engagement and enthusiasm, and their special energy always enlivens SETAC annual meetings.

SETAC NORTH AMERICA

In 2010, student activities were an important part of the SETAC North America program. The North America Student Advisory Council (NASAC) organized numerous events at the annual meeting in Portland in conjunction with the Student Activities Committee. Two noontime seminars for students were held. One focused on "Career Experiences of Young Professionals in SETAC," where young professionals in academia, government, and business spoke about their careers, offered advice, and answered students' questions. The second seminar highlighted "SETAC Unveiled for Students," which featured speakers from North America committees to acquaint students with opportunities in diverse programs and activities.

For the second year in a row, NASAC organized a very successful students-only art contest, with the 2010 theme "Bridging Science and Communities." This year's winners received monetary gifts to use toward SETAC membership or the purchase of SETAC items.

1st Place: Brad Glenn, Clemson University A photograph taken in a botanical garden of a meditation waterfall on a channel which has a secondary function: water diversion and erosion control.

2nd Place: Xianming Zhang, University of Toronto A photograph of the dramatic architecture of the art museum she visited while attending the 29th Annual SETAC North America meeting in Milwaukee, Wisconsin.



Ashley Jessick, a member of the Ozark-Prairie Regional Chapter who is pursuing a PhD in toxicology through the University of Nebraska Medical Center, assumed the role of NASAC Chair for 2010–2012. The Vice Chair is Jennifer Cole, a member of the South-Central Regional Chapter, studying for a PhD in environmental toxicology at The Institute of Environmental and Human Health at Texas Tech University. Outgoing chair Juliska Princz completed her advanced degree and began her professional career at Environment Canada.

SETAC EUROPE

The SETAC Europe Student Advisory Council (SAC) organized three activities at the annual SETAC Europe meeting in Seville. The mentor lunch brought 80 students together with senior scientists from all over Europe and North America in a relaxed ambience. The participants had the opportunity to continue developing their own network—not only with established scientists but also with other student members of SETAC. A poster mentoring activity was offered for the first time to give students the opportunity to get unbiased guidance about their posters and presentations. During the rest of the year, the SAC, along with the Scientific Committee chaired by Dominic Kaiser of Frankfurt

University, Germany, and the Local Organization Committee chaired by Sabrina Peddinghaus of Aachen University, Germany, were busy with preparations for the second Young Environmental Scientists Meeting (YES-Meeting) in Aachen in March 2011.

The members of the SAC are Markus Brinkmann, Acting Chair, RWTH Aachen University, Germany; André Dabrunz, University of Koblenz-Landau, Germany; Nika Galic, Alterra Wageningen, Netherlands; Dominic Kaiser, Frankfurt University, Germany; Tao Liu, Kalmar University, Sweden; Michael Melato, Cape Peninsula University, South Africa; Cláudia Mieirol, University of Aveiro, Portugal; Stephanie Sdepanian, Lancaster University, United Kingdom; Ola Westman, MTM Research Center, Örebro University, Sweden; and Jochen P. Zubrod, University of Koblenz-Landau, Germany.

SETAC ASIA/PACIFIC

The successful SETAC Asia/Pacific meeting in Guangzhou was highlighted by an impressive student attendance representing some 40% of the attendees, with 30 students serving as volunteers in organizing the proceedings.

FINANCIAL FACTS

FINANCIAL AND CONTACT INFO

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 expressed in thousands of U.S. dollars.

NET OPERATING RESULTS

493

TOTAL ASSETS

2721

TOTAL LIABILITES

1233

NET ASSETS

1488

EUROPE
1867

WORLD COUNCIL
1386

NORTH AMERICA
1329

OPERATING REVENUES - 4582

EUROPE
1667

NORTH AMERICA
1330

WORLD COUNCIL
1092

OPERATING EXPENSES - 4089

ANNUAL MEETINGS
2411

MEMBERSHIP DUES
885

PUBLICATIONS
754

OTHER
322

TECHNICAL ACTIVITES
210

SOURCES OF REVENUES - 4582

ANNUAL MEETINGS
1418

SALARIES & WAGES
1387

OTHER
782

PUBLICATIONS
502

AREAS OF EXPENSES - 4089

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FINANCIAL AND
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The SETAC Latin America and Asia/Pacific administrative services are performed by the SETAC North America office.

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