



# International Society of Chemical Ecology

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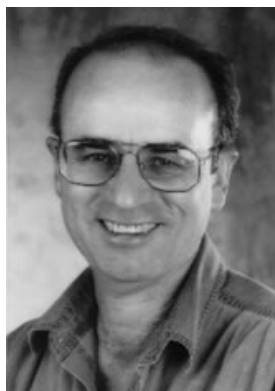
## Newsletter - Volume 27, Number 1, April 2010

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### ISCE 2010 Medal Award Winners

#### Silver Medal Award:



**John Borden**, Professor Emeritus, Simon Fraser University, Burnaby, BC, Canada, and Chief Scientific Officer, Contech Inc. (formerly Phero Tech International Inc.). Over his career, John has published over 380 refereed journal articles, ca. 220 of which are directly related to chemical ecology, including 68 papers in the *Journal of Chemical Ecology*. Although best known for his work on the chemical ecology of bark beetles, John has published on numerous other taxa, including bees, bugs, thrips, moths, weevils, parasitoids, flies, and other beetle pests. These articles have been cited over 5,000 times, and include several pioneering studies that opened new avenues of inquiry. However, perhaps John Borden's most profound and enduring impact will be felt through the students he has mentored and trained. During his career John mentored 101 students for 119 degrees (34 PhD and 85 MPM or MSc level). These students now populate universities and colleges in Canada and abroad, the Canadian Forest Service, the USDA Forest Service, Agriculture and Agri-food Canada, the Canadian Food Inspection Agency, the British Columbia Ministry of Forests, and the pest management industry.

Congratulations, John, on your selection as the International Society of Chemical Ecology 2010 Silver Medal Award winner!

(See also: <http://www.sfu.ca/biology/faculty/borden/>.)

#### Silverstein-Simeone Award:



**Frank Schroeder** is a principal investigator in the Chemical Biology group of Boyce Thompson Institute in Ithaca, New York, and an adjunct Assistant Professor in the Department of Chemistry and Chemical Biology, Cornell University. His research has several foci. First, his group works on the improvement of methods for the detection and structural characterization of natural products, and particularly, the development of differential analysis by 2 dimensional NMR spectroscopy (DANS). Second, his group studies the roles of natural products in mediating biological processes, both within the organisms in which the compounds occur, and in other organisms, with the goal of developing leads for new lead

compounds for pharmaceuticals and other bioactive chemicals. Dr. Schroeder has pioneered the use of NMR in the structural characterization and identification of new compounds from crude extracts and fractions of extracts, avoiding the necessity for the long and tedious isolation of pure compounds for identification. Current research projects in his laboratories include studies of the biosynthesis and identification of new polyketides from *Bacillus*, combinatorial fermentation of fungi, small-molecule signaling in the nematode *Caenorhabditis elegans*, and identification of compounds mediating chemical defense in arthropods. His work has been published frequently in *Proceedings of the National Academy of Sciences (USA)*, *Nature*, *Nature Chemical Biology*, *Angewandte Chemie*, and the *Journal of the American Chemical Society*. Congratulations, Frank, on your selection as the 2010 International Society of Chemical Ecology Silverstein-Simeone Award winner! (See also: <http://www.news.cornell.edu/stories/Feb07/SchroederProfile.kr.html>.)

#### Nominations for 2010 ISCE Officers:

Please read the candidate's descriptions, fill out the ballot, and send (by 1 July) to Jeffrey R. Aldrich, ISCE President, via e-mail ([Jeffrey.Aldrich@ARS.USDA.GOV](mailto:Jeffrey.Aldrich@ARS.USDA.GOV)) or regular mail (*Dr. Jeffrey R. Aldrich, Invasive Insects*

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*Biocontrol & Behavior Laboratory, Agricultural Research Center-West, Bldg. 007, room 313, 10300 Baltimore Avenue, Beltsville, MD 20705 / USA*). Please use only one means (e-mail or mail) to vote, and use the separate ballot provided (i.e. do not copy and paste the ballot into your e-mail text). Also, do not write your name on the ballot itself, but do write your name (as shown in the ISCE membership list) on the envelope or in your e-mail text/signature.

#### Councilors:

Dr. Baldwin Torto is currently the Head of the Behavioural & Chemical Ecology Department at the International Centre of Insect Physiology & Ecology (*ICIPE* - African Insect Science for Food and Health), Nairobi, Kenya. He studied Chemistry at the University of Ghana, and received his Ph.D. in 1988. From 1989 – 1991 he was a postdoctoral research fellow at the University of Maine, Orono, Maine, USA, and thereafter worked as a Scientist at *ICIPE* for 10 years. In 2000, he was a Rothamsted International Fellow at Rothamsted Research, United Kingdom, and from 2001- 2006, he was a Visiting Research Chemist at the United States Department of Agriculture/ Agricultural Research Service, Centre for Medical, Agricultural & Veterinary Entomology (CMAVE), Gainesville, Florida. He rejoined *ICIPE* in 2007 in his current position as a Principal Scientist. Dr. Torto's research interests for the past 20 years have involved the chemical ecology of a wide range of insects that include locusts, stem borers, mosquitoes, bee pests, and various beneficial insects.



Dr. Ylva Hillbur is Assistant Professor and Head of the Department of Plant Protection Biology, SLU, Swedish University of Agricultural Sciences, Sweden (since 2007). She studied biology at Lund University, and received her Ph.D. from SLU (2001). Her research deals with gall midge (Diptera: Cecidomyiidae) sex pheromones and applications for pest management. Since 2003, she has collaborated with colleagues at Addis Ababa University, Ethiopia, in a project focusing on sustainable control by semiochemicals of a major scarab beetle pest of sorghum, *Pachnoda interrupta*. The project has involved the establishment of a chemical ecology lab at AAU. Her research within the SLU-based research program IC-E3 (<http://ice3.se>) deals with host shift induced speciation in gall midges.

Dr. Jeremy D. Allison is an Assistant Professor at Louisiana State University. He received his undergraduate degree in Biology at the University of Guelph, and a Master's of Pest Management (MPM) at Simon Fraser University (SFU). His MPM degree dealt with chemical ecology studies of long-horned beetles and bark beetles. His Ph.D. is from the University of California at Riverside (UCR) with a research focus on studies of the evolution of pheromone communication in Lepidoptera. He has had the pleasure of conducting studies with two ISCE Silver Medal Award winners (Professors John Borden at SFU and Professor Ring Cardé at UCR). His current research and teaching focus on integrated pest management of forest insect pests. Some of his current projects include: 1) Investigation of chemically-mediated interspecific subcortical interactions among larval bark and cerambycid beetles; and 2) The role of pheromones in reproductive isolation and niche partitioning in southern *Ips* bark beetles.



Dr. Tetsu Ando is currently Professor at the Tokyo University of Agriculture and Technology (TUAT). He studied Agricultural Chemistry at the Graduate School of The University of Tokyo, and received his Ph. D. in 1978. He was an Assistant Professor and Associate Professor in the Department of Plant Protection, TUAT, from 1981-1995 and, in 1995, he accepted the position of Professor of the Chemical Ecology Laboratory in the Graduate School of Bio-applications and Systems Engineering. His main research interest is the identification and synthesis of insect pheromones, particularly lepidopterous sex pheromones. He has been a member of the JCE editorial board since 2004, and a Councilor of the Asia-Pacific Association of Chemical Ecology since 2007.

Dr. Jan Bergmann is an Associate Professor at the Institute of Chemistry, Pontificia Universidad Católica de Valparaíso, Chile. He studied Chemistry at the Universities of Kiel and Hamburg, Germany, and received his Ph.D. in 2002. From 2002-2004, he was a postdoctoral researcher at GKSS Research Center in Geesthacht, Germany, before accepting an Assistant Professor position at his current institute. Dr. Bergmann's main research interest is the



identification and synthesis of insect pheromones. Last year, he was appointed president of the newly-founded Latin American Association of Chemical Ecology.

**Vice President:**



**Dr. Paulo H. G. Zarbin** is

an Associate Professor in the Department of Chemistry, Federal University of Paraná, Brazil, since 1998, and served as chairman of the graduate committee in chemistry in 2002-2004. Paulo obtained his Ph.D. at the Federal University of São Carlos in 1998, with part of his thesis research being conducted at the National Institute of Sericultural and Entomological Science, Tsukuba, Japan, in 1996-1997. He served as an ISCE councilor in 2007-2009, and is currently a member of the editorial board of the Journal of Chemical Ecology. He is an assiduous attendee of ISCE meetings, as well as meetings of the Asian-Pacific Association of Chemical Ecology. He was the initiator and organizer of the 1st Brazilian Meeting on Chemical Ecology in 1999, which is now in its 6th

edition. Paulo is one of the founders of the recently created Latin American Association of Chemical Ecology (ALAEQ), and is serving as one of the first ALAEQ councilors. His main research interests are identification, synthesis, biosynthesis, and field evaluation of insect pheromones and other semiochemicals, including coleopterans, lepidopterans and heteropterans.

**ISCE 2010 Meeting in Tours, France:**

On behalf of our Society, it will be a great pleasure to welcome you in Tours (France) for the 26th annual meeting. The 2010 meeting will be held in Tours from the 31st of July to the 4th of August at the Vinci Convention Center. Tours is a lovely city in central France, capital of the Loire Castles. The Loire valley is also a UNESCO world heritage site. Furthermore, Tours, capital city of the art of living, is obviously a gourmet's paradise...

The meeting will be organized with the support of the French GDR of Chemical Ecology and the Institut de Recherche sur la Biologie de l'Insecte (I.R.B.I.), of the University of Tours and the Centre National de la Recherche Scientifique (C.N.R.S).

Visit the conference website [www.atout-org.com/isce2010](http://www.atout-org.com/isce2010), to see our topics and guests

You can register to the Meeting and book your hotel at the same time through an online registration form and you will find all instructions for abstract submission (guidelines and online form) on the conference website. Please mark in your diaries the following key dates:

- **Abstract submission deadline:** May 25th, 2010
- **Notification to the authors:** June 15th, 2010
- **Date of the meeting:** July 31st - 4th August, 2010

We look forward to welcoming you to the beautiful city of Tours.

Faithfully yours,

The organizers, A-G Bagnères (I.R.B.I.) and her collaborators, and the ISCE Congress Logistic Secretariat:

Email: [isce2010@atout-org.com](mailto:isce2010@atout-org.com)

**ISCE 2010 Student Travel Application:**

Visit the website ([www.atout-org.com/isce2010](http://www.atout-org.com/isce2010)) for instructions on how to apply for student travel awards. Applications are accepted from graduate students and postdocs; approximately 50% of the available funds will be given to postdocs. Applicants are not required to be ISCE members, and the award will include a one-year membership to the Society. Applicants are expected to present a paper or poster at the meeting, and to have an endorsement from their major professor or postdoctoral supervisor.

**ISCE 2009 Student Awardees:**

We wish to recognize the 2009 travel award winners, and winners of the oral and poster competitions at the 2009 ISCE meeting in Neuchâtel, Switzerland. We encourage interested Ph. D. students to apply for the ISCE travel award for the 2010 ISCE meeting in Tours, France.

				Amount (CHF)
<b>Travel</b>				
1Brodmann	Jennifer	Graduate student	Germany	400
2Clark	Valerie	Graduate student	UK	400
3Liénard	Marjorie	Graduate student	Sweden	450
4Le Danvic	Chrystelle	Graduate student	France	400
5Gögler	Julia	Graduate student	Germany	400
6Lassance	Jean-Marc	Graduate student	Sweden	450
7Verhulst	Niels	graduate student	The Netherlands	400
8Kuhns	Emily	Graduate student	USA	600

9Kusumoto	Norihisa	Graduate student	Japan	800
10Amsalem	Etya	Graduate student	Israel	600
11Chinta	Satya Prabhakar	Graduate student	Germany	400
12Venkatesan	Radhika	Graduate student	Germany	400
13Schulze	Thies	Graduate student	Germany	400
14Schwantes	Christian	Graduate student	USA	600
15Kai	Marco	Graduate student	Germany	400
16Garms	Stefan	Graduate student	Germany	400
17Khannoon	Eraqi	Graduate student	UK	400
18Ngumbi	Esther	Graduate student	USA	600
19Pankkoke	Helga	Graduate student	Germany	400
20McCallum	Emily	Graduate student	Australia	800

**Oral and poster competition:**Oral presentation

1st: Gaétan GLAUSER, University of Geneva, Switzerland

2nd: Christian SCHWANTES, James Madison University, USA

3rd ex-aeco:

Sara LEONHARDT, University of Würzburg, Germany

Niels VERHULST, Wageningen University, The Netherlands

Poster competition10 prizes ex-aeco

Seung-Joon AHN, Max Planck Institut Jena, Germany

Ivo BEYAERT, Freie Universität-Berlin, Germany

Fanny BRIMAU, UMR 8576 CNRS, France

Satya P. CHINTA, Technische Universität Braunschweig, Germany

Elvira DE LANGE, University of Neuchâtel, Switzerland

Christophe GADENNE, INRA Versailles, France

Jürgen GROSS, Julius Kühn-Institut, Dossenheim, Germany

Rayko HALITSCHKE, Cornell University, USA

Angelos KATSANIS, CABI Europe, Switzerland

Flore MAS, University of Basel, Switzerland

**New book**

A new book is launched on Insect Hydrocarbons: Biology, Biochemistry and Chemical Ecology

(editors GJ Blomquist and A-G Bagnères) and published by Cambridge Univ. Press :

<http://www.cambridge.org/uk/catalogue/catalogue.asp?isbn=9780521898140>

A unique and critical analysis of the wealth of research conducted on the biology, biochemistry and chemical ecology of the rapidly growing field of insect cuticular hydrocarbons. Authored by leading experts in their respective fields, the twenty chapters show the complexity that has been discovered in the nature and role of hydrocarbons in entomology. Covers, in great depth, aspects of chemistry (structures, qualitative and quantitative analysis), biochemistry (biosynthesis, molecular biology, genetics, evolution), physiology, taxonomy, and ecology. Clearly presents to the reader the array of data, ideas, insights and historical disagreements that have been accumulated during the past half century. An emphasis is placed on the role of insect hydrocarbons in chemical communication, especially among the social insects. Includes the first review on the chemical synthesis of insect hydrocarbons. The material presented is a major resource for current researchers and a source of ideas for new researchers.

Contributors:

Gary J. Blomquist, Anne-Geneviève Bagnères, Claude Wicker-Thomas, Thomas Chertemps, Allen

Gibbs, Subhash Rajpurohit, Jocelyn Millar, James S. Buckner, Mamiko Ozaki, Ayako Wada-Katsumata, Jelle

S. van Zweden, Patrizia d'Ettorre, Michael Green, Juergen Liebig, Cristina Lorenzi, Jean-François Ferveur,

Matthew Cobb, Marie Trabalon, Matthew D. Ginzel, Robert Bartelt, Abraham Hefetz

**Member News:**

A new Chemical Ecology laboratory has been founded at the University of Regensburg, Germany. Starting in October 2009, former ISCE councilor Joachim Ruther was appointed Professor of Chemical Ecology, and will continue his work on the chemical basis of insect behavior. The University of Regensburg is located in the gorgeous medieval city that is included in the UNESCO World Heritage List. Before coming to Bavaria, Joachim worked several years on the sexual communication of scarab beetles and parasitic wasps in the lab of current ISCE Vice President Monika Hilker at the Free University of Berlin. The research focus of the Ruther lab will be the continuation of the recently established research program on the chemical and evolutionary ecology of the insect model *Nasonia vitripennis*





and related parasitic Hymenoptera.

<http://www.biologie.uni-regensburg.de/Zoologie/Ruther/index.html>

Positions available:

chemist position (GS-1320-09) is available immediately for 1-year. Research will focus on the isolation, identification, and synthesis of semiochemicals active against the plum curculio pest. Candidates should have at least a Master's degree in chemistry with a strong background in organic synthesis. Experience in GC-EAD is desirable. Skills in GC, GC-MS, HPLC are essential. Candidates with strong interest and research experience in insect chemical ecology and/or semiochemical-based IPM tactics will be given preferential consideration. U.S. citizenship is required. Send resume and names of three references to: Dr. Aijun Zhang, USDA-ARS, Plant Science Institute, Invasive Insect Biocontrol and Behavior Laboratory, 10300 Baltimore Ave., Beltsville, MD 20705-2350, E-mail: [aijun.zhang@ars.usda.gov](mailto:aijun.zhang@ars.usda.gov). AA/EOE

postdoctoral position is available to investigate the plant-insect interactions and pheromone identification of Brazilian agricultural pests. A Ph.D. in a relevant discipline such as bio-organic chemistry, entomology or chemical ecology is expected. The successful candidate will join an interdisciplinary group and will be involved in the supervision of graduate students. Knowledge of basic techniques in odor collection, GC-EAD, GC-MS, and behavioral experiments are essential. Experience with organic synthesis, HPLC and GC-FTIR is an advantage but not a prerequisite. The position is funded for two years by the (Brazilian) National Institute of Science and Technology Semiochemicals in Agriculture, with a salary of ~US\$ 20,000.00/year. The work will be done in the Laboratory of Semiochemicals at Federal University of Parana, located in the beautiful city of Curitiba, Brazil. Please send resume and list of references to Dr. Paulo H. G. Zarbin, Federal University of Parana, Department of Chemistry, CP 19081, 81531-990, Curitiba-PR, Brazil. Enquiries and applications by e-mail are encouraged ([pzarbin@quimica.ufpr.br](mailto:pzarbin@quimica.ufpr.br)).

Prof. Paulo Henrique G. Zarbin

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<http://www.quimica.ufpr.br/semioquimicos>

INCT Semioquimicos na Agricultura

upcoming meetings:

two symposia of ECE2010 represent the field of Chemical Ecology [www.ece2010.org](http://www.ece2010.org)

As you may know, following the tradition, everybody is most welcome, either from inside or from outside Europe. Indeed, we are expecting participants from all parts of the World. Our personal intentions are to give proper emphasis to chemical ecology, sensu lato, on this prestigious Congress.

**Symposium 1.3 "Chemical mimicry and defense mechanisms of Arthropods"**

Organizers: Prof. Dr. Stefan Schulz and Gabor Szocs

**Symposium 10.3 "Sensory Ecology (Pheromones)"**

Organizers: Prof. Dr. Bill S. Hansson and Gabor Szocs

Gabor SZOCS, Ph. D., C. Sc.

senior research entomologist

Head /tud. oszt. vez. Department of Zoology / Allattani Osztaly

Plant Protection Institute / MTA Növényvédelmi Kutatóintézet

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email: [h7192szo@ella.hu](mailto:h7192szo@ella.hu), [www.julia-nki.hu](http://www.julia-nki.hu)

The Chemical Ecology Course ICE 10 at Penn State

This message is to announce that we still have some places remaining in our graduate-level course in Insect Chemical Ecology, ICE 10, that will be held this coming June 1 - 15 at Penn State University.

However, April 1st will be the end of Early Registration and after that date the registration fee will increase to \$600 instead of the current \$500 early registration fee.

This course will be hosted by Penn State's Center for Chemical Ecology, and is a new, North American edition of the successful ICE series that has previously been held at the Swedish Agricultural University at Alnarp in 2005, 2007, and 2009.

We have a slate of 22 internationally known researchers in chemical ecology who will present lectures over the 2-week course and visit in the evenings with the students to discuss their research and to answer any questions students may have about their lectures or their research program. As we announced earlier, enrollment is planned to be capped at 40 students, and the course will be filled on a first-come, first-served basis.

We invite any graduate students and postdocs who are interested in learning more about the course and viewing the schedule of invited lectures and topics, meals, lodging, transportation, etc. to visit the Penn State

Center for Chemical Ecology website:

<http://chemicalecology.psu.edu/252.htm>

After going to this site, hit the hot link to ICE 10 for detailed information and registration procedures.

Thanks!

Tom Baker; Professor of Entomology and Chemical Ecology; Penn State University

#### 14th Symposium on Insect-Plant Interactions

The 14th Symposium on Insect-Plant Interactions (SIP14) will be organized in The Netherlands from 13-17 August 2011. The Symposia on Insect-Plant Interactions have a history of 50 years and bring together scientists involved in studies at different levels of biological organization: from genes to ecosystems. The meetings are characterized by an informal atmosphere with ample opportunity for interactions between young and established scientists. SIP14 will be organized around 8 themes that span the full range from ecosystems to genes. These themes are: (1) evolutionary ecology, (2) community ecology, (3) invasion biology, (4) multitrophic interactions, (5) pollinator-plant interactions, (6) insect-plant interactions and biological control, (7) microorganisms and insect-plant interactions, and (8) molecular ecology.

At present, we are finalizing the program and will inform you on this within a few months. For now, please reserve 13-17 August 2011 in your agenda for SIP14 in Wageningen.

With our best wishes,

Marcel Dicke, Peter de Jong, Joop van Loon, Nina Fatouros, Rieta Gols, Erik Poelman and Roxina Soler

#### 1st Congress of the Latin American Association of Chemical Ecology

The first meeting of ALAEQ will be held from October 17-20, 2010 in Colonia del Sacramento, Uruguay. The major Latin American groups in the field have already committed their participation, as well as several leading scientists from overseas. The Organizing Committee for the meeting in Uruguay is composed of Andrés González (Uruguay), Carmen Rossini (Uruguay), Pablo Guerenstein (Argentina), Paulo H. Zarkin (Brazil), Mauricio Bento (Brazil), Jan Bergmann (Chile), Eraldo Lima (Brazil) and Walter Leal (USA). The main topics to be included as symposia are Pheromone chemistry, Neuroethology of odor detection, Plant-insect and plant-plant interactions, Applications of semiochemicals in Latin America and Chemical ecology of disease vectors.

For registration and further information please go to <http://alaeq1.fq.edu.uy> or contact the Organizing Committee at [alaeq1@fq.edu.uy](mailto:alaeq1@fq.edu.uy)

ante ew ISCE webmaster



I'm your current ISCE Webmaster, having done this with much enthusiasm for the last 10 years. However, I'm 53 years old, getting mighty grey and bald, for those that are interested, and getting out of touch with what is current and up to date on the html front. So it is time for a new volunteer ISCE webmaster.

I did get introduced to html at the very early beginnings. I saw it as a wonderful opportunity to write (pure code) a database for my fast collection of cassette and reel-to-reel audio track tapes of Joni Mitchell, The Doors, Frank Zappa, John Coltrane, and many, many others. Now it's all beautifully interfaced with digital players, I had the analog version, and still had to insert the tape into the mono audio player. But we had "Bitnet", a hint of what was looming on the horizon. Long gone is the period of the 5.5 inch floppy drives, now we have Twitter, Facebook, LinkedIn, etc. etc. I don't see the reason to pour my emotional state into a 140-character sentence out into the anonymous digital abyss, nor do I see

a reason to put up a webpage with a bloated version of who I think I should be. I still prefer the face-to-face encounters one can have while attending an ISCE annual meeting. Thus, it is high time for a replacement of the current ISCE webmaster.

ISCE needs young members to survive and to stay relevant, it also needs young and fresh input at the administrative level. As an ISCE webmaster you can push the society to the next level at both fronts.

Benefits....not really, but as the ISCE webmaster you create the information that we put out to our members and display the ISCE identity to the outside world, that should count for something.

Skills.....a bit more than I have (while we are at it; make it a lot more). Integrating secure social networking into the ISCE website allowing members to interact and exchange information. Secure database integration, integrate membership information (fees, subscriptions, donations), so that the Treasurer doesn't have to paste and copy. Being able to maintain, update, and upgrade the current ISCE website. Format and publish the ISCE newsletters.

If you are willing to volunteer please send a note to the [ISCE President](#). With any luck we can announce a new ISCE webmaster at the upcoming ISCE meeting.

Thanks,

Allard Cossé, ISCE webmaster

ISCE Secretary:

Message to all members! Send me information and news related to chemical ecology, and you will have a world-wide distribution in the next newsletter!

Anna-Karin Borg-Karlson

[akbk@kth.se](mailto:akbk@kth.se)

Phone +46 8 7908449 or +46704804702

**International Society of Chemical Ecology**

[Jeffrey Aldrich](#), President, [Anna-Karin Borg-Karlson](#), Secretary

[Web site questions](#)

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