



NEWSLETTER

INTERNATIONAL SOCIETY OF CHEMICAL ECOLOGY

Volume 17, Number 3, October, 2000

Report from the Annual Business Meeting

The annual business meeting was held in Poços de Caldas at the Urca Conference Center, on the afternoon of Friday, August 18, 2000, President Hartmann presiding. President Hartmann reported on the results of the elections, with Murray Isman confirmed as the new vice-president, and the newly elected councilors being Wilhelm Boland (Germany), Nelida Gomez (Panama), Ann Hagermann (USA), and Steve Seybold (USA). Treasurer Steve Teale then gave his report and the Secretary's report (Secretary Millar was unable to attend); see their reports elsewhere in this issue. Jim Nation gave the report from the editors of the *Journal of Chemical Ecology*. The *Journal* is receiving about 22-24 manuscripts per month, with a rejection rate of about 25%. The editors have been very successful in speeding up the review process by sending some manuscripts out for review via email, and by emailing reviewers asking if they could review manuscripts within 2 weeks; the review process now averages 4-5 weeks. The impact factor has also increased significantly, from 1.40 in 1998 to 1.65 in 1999. The *Journal* is ranked 29th out of 90 journals in the subject area of ecology, and 154th out of 293 in the subject area of biochemistry and molecular biology. In the near future, Jim Nation and David Jones will step down as editors, and John Romeo will take over as Chief Editor, with several associate editors (see article elsewhere in the Newsletter).

Evaldo Vilela presented a summary of the meeting. The meeting should break even, or have a small surplus, which will be returned to the Society. Gary Blomquist gave a brief summary of the prepara-

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From the Editor:

Your 2001 Membership Renewal Form is enclosed. Please return this form with your dues to Treasurer Steve Teale. For renewing members, please note that it is only necessary to fill out your mailing address if your address has changed. **PLEASE ALSO MAKE SURE THAT YOU SUPPLY YOUR CURRENT EMAIL ADDRESS BECAUSE OVER THE NEXT YEAR, THE SOCIETY WILL BEGIN CONDUCTING MOST OF ITS BUSINESS ELECTRONICALLY.**

Thus, we will begin the transition to sending out the Newsletters and most routine correspondence by electronic mail rather than by regular mail, and the Society officers are in the process of creating a new ISCE webmaster position so that this can be accomplished. There are more details further on in this Newsletter. If you do not have access to electronic mail, please clearly indicate this so that we can make alternate arrangements for mailings to you. Credit card payments can be made with VISA, MasterCard, or Discover card.

I have received requests to include more announcements of available student and postdoctoral positions in the Newsletter. Such announcements will be accepted free of charge from any ISCE member. Please simply send them to me by email at the address below. Please also send announcements of upcoming meetings that might be of interest to members. In particular, because my interests focus on insect semiochemistry, I may not be aware of meetings that stress other aspects of chemical ecology, or regional meetings. Other items, such as announcements of new books and honors and awards to Society members, are also most welcome.

Thanks to members who have sent me photos and other items over the past year; keep them coming. In particular, as we move to an electronic format for the Newsletter, it will be both cheaper to produce, and I can include many more photos. If you are sending me photos or text, if possible, please send them in electronic format, for example please send photos as jpg files, as these are easiest to handle. However, if you only have prints or slides, I can work with those as well.

tions underway for the 2001 meeting in Lake Tahoe.

President Hartmann described the new position of ISCE webmaster that will be created to aid the transition of the Society to primarily electronic communications, including the Newsletter. Over the next year, the new webmaster, Allard Cossé, will revise the ISCE website, and coordinate with the Treasurer and Secretary on updating, maintaining, and coordinating the membership database. Nelida Gomez suggested linking member names/addresses on the membership web page to their homepages.

In other business, Jeff Aldrich encouraged members to give school presentations to build interest at an early age. Aldrich also suggested that we should establish stronger connections to the organic food industry because chemical ecology provides alternative

methods of pest control that can be used by organic growers. President Hartmann then gave updates on some miscellaneous items, including naming Prof. Wittko Francke as the ISCE archivist, the officers' efforts to maintain and increase the ISCE membership database, and Hartmann requested that members put forward suggestions for symposium topics to the Executive committee.

There being no further business, the meeting was adjourned by President Hartmann.

Stephen Teale, for Jocelyn Millar, ISCE Secretary

President's Message

At the 17th Annual Meeting of the ISCE in Poços de Caldas, I was absolutely delighted to receive the symbols of the Society and have the honour to become the

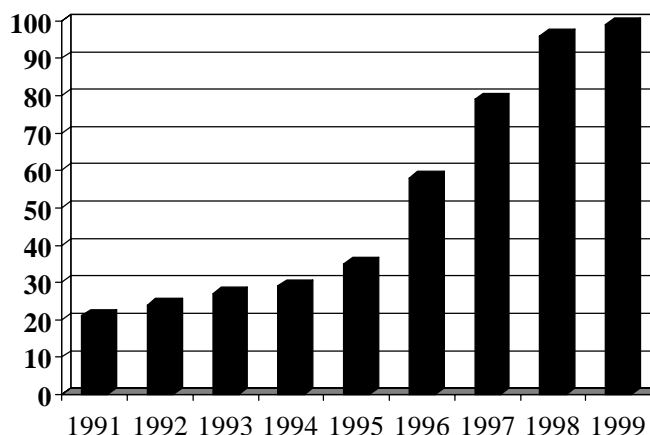
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ISCE President for 2000-2001. As I mentioned in my inauguration speech, I will do my best to continue the high standard of administration set by Thomas Hartmann and his predecessors. Ever since joining the ISCE, I intended to become highly involved in the Society's affairs, but I must confess that the opportunity to run for this office happened a bit earlier than I expected. I would like to thank the officers, in particular, John Hildebrand and Jim Tumlinson, for their nomination and support. Due to the international nature of the Society, they might have thought of a President to represent two countries. I ended up representing three, given my Brazilian citizenship, my education and scientific career in Japan and my current position in the US!

The ISCE plays a vital role in the very existence of modern chemical ecology. In the previous President's Message, Thomas Hartmann pointed out that the importance of chemistry in insect-plant interactions was "rediscovered" in the beginning of the second half of last century. However, it was the ISCE that created the momentum for chemical ecology to achieve its present status. In the 17 years of its existence, the Society has promoted "the understanding of interactions between organisms and their environment that are mediated by naturally occurring chemicals," probably far beyond the expectation of our founders. The annual meetings provide the perfect forum for natural products chemists, chemists, biologists, biochemists, molecular biologists, naturalists, neurobiologists, etc., to speak a common language, chemical ecology, in a friendly, but critical environment. On the other hand, the *Journal of Chemical Ecology*, as the official "voice" of the Society, publishes over 250 research papers annually and stretches our boundaries. The ISCE is also at the forefront of promoting the conservation of a treasure of inestimable value, the wealth of natural products generated by living organisms (The Goteborg Resolution, *JCE* 16,

643, 1990). This is the legacy we inherited from the first generation of chemical ecologists. Despite the fact that institutions that finance scientific research, be they governmental or private, are not generous in their support to chemical ecology-related research programs, we will strive to build on the remarkable scientific legacy bequeathed to us by the pioneers of chemical ecology. I urge you, as members of the Society, to work together for the promotion of chemical ecology. Among others, there is a simple way you can do that: be active in the Society. Participate in the nominations for the Silverstein-Simeone Award and the Silver Medal, make the effort to attend and participate in the oral and poster sessions of the annual meetings on a regular basis, suggest topics for symposia at meetings, let us know if you would like to serve as a Councilor, and do not forget to renew your membership. The ISCE database has over 900 names, and yet a significant proportion of these neglected to renew their memberships. The increasing rate of non-renewed membership per year is alarming (see figure below), and may be due in part to changes in the renewal process. Should you know colleagues who

Number of Non-Renewed Memberships per Year



have not renewed their memberships, please download a membership form for them (<http://chemecol.org/forms/application.htm>), or ask our Treasurer, Steve Teale (sateale@mailbox.syr.edu) to contact them. Help

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us bring these and other chemical ecologists to where they belong: the ISCE. See you in Lake Tahoe in 2001!
Walter S. Leal, President, ISCE

Secretary's Report

I have been working with our new Treasurer, Steve Teale, to resolve problems with the membership database. As some of you have discovered, the online database had some bugs in it, as did the mailing list database used for sending out Newsletters and correspondence. These problems are being resolved, but please check your entry in the newly revised membership database at <http://www.esf.edu/ISCE/> to make sure it is correct. Also, if you see any other mistakes, or entries that you know are outdated, please inform the Treasurer Steve Teale at sateale@syr.edu. Overall, the membership renewal form is sent out once a year, in the October Newsletter, and many people forget to renew, including officers of the Society and long-time members! As we move to electronic correspondence, it should become easier and cheaper to send out reminders and forms. However, it is obviously imperative that we have your up to date Email addresses. Please note that the Society membership database is not sold or made available to any other organization, so providing your email address will not expose you to spamming.

The ISCE Webpage has been functioning well, thanks to a lot of hard work by Adam Trickett. Over the next few months, Allard Cossé, as the new ISCE webmaster, will take over responsibility for maintaining and updating the webpage. Once the transition has occurred, Allard's address will be on the webpage so that you can send him feedback and suggestions for improvements.

The Newsletter is running smoothly, with nice quality in the layout and printing. In the coming year, because the membership voted decisively in favor of switching to an electronic version, we will begin the

transition. The Society should reap considerable savings because we will no longer have to bear the costs of printing and first class mailing of about 2,000 Newsletters per year. However, before starting the transition to the electronic format, the membership database must be updated and the problems resolved. What we have planned is that an email message will be sent out when a new Newsletter has been posted on the ISCE website, so that members can then access the Newsletter at their leisure. Most or all of the ISCE forms for membership updates and renewals, and the registration forms for meetings, already are posted on the ISCE website at <http://chemecol.org/>.

To aid in the orderly functioning of the Society, particularly as the officers change, protocols for most Society functions and awards have been compiled for inclusion in an ISCE officers handbook. This continuously updateable handbook will be sent to all new officers and councilors as they assume their duties.

I still have lots of ISCE pamphlets, which are intended as tools to introduce potential new members to the Society and its philosophy and functions. The brochure is also intended as a fundraising aid, so that potential donors can get a quick overview of the Society, and the types of research and activities that their donations would be supporting. If you need some ISCE pamphlets, please contact me at my address listed on the masthead.

Jocelyn G. Millar, ISCE Secretary

Treasurer's Report

The Society started the 1999 fiscal year with a total of US \$98,623 of which \$18,423 was in a checking account with Chase Manhattan and \$80,200 was in a Merrill Lynch investment account. The Society began the 2000 fiscal year with \$107,664 of which \$23,827 was in the checking account and \$83,837

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was in the Merrill Lynch account. As of August, 2000 the Society has \$120,155 of which \$31,553 is in the Chase Manhattan checking account and \$88,602 is in the Merrill Lynch investment account.

For the 1999 fiscal year, income to the Society was \$3,637 from investments, and \$27,626 from dues, Journal subscriptions, and industry-sponsored awards (Silverstein-Simeone, Silver Medal, and student travel awards), and the surplus from the Ithaca meeting. The Society spent \$22,222 from the checking account, as follows. Members' subscriptions to the Journal of Chemical Ecology totaled \$8,331, paid to Plenum Publishing Corp. The Society spent \$3,734 on the Newsletter, published by Jocelyn Millar at UC Riverside. In order to reserve the meeting place for the 2001 Annual Meeting at Lake Tahoe, a deposit of \$4,500 was paid to Granlibakken Resort. This sum will be returned to the Society from registration fees for that meeting. Student Travel to the 1999 Annual Meeting in Marseilles totaled \$5,400 (other payments for the 1999 meeting were made in the 2000 fiscal year because the meeting was held in November). Administrative costs for determining the Silverstein-Simeone winner were paid to John Hildebrand totaling \$145. Administrative costs for the credit card reader, bank fees, and other minor expenses totaled \$112.

Thus far for fiscal year 2000, income to the Society has been \$4,725 from investments, and \$36,011 into the checking account (dues, Journal subscriptions, and sponsored awards). Costs so far to the Society have totaled \$14,890. Travel costs for the Executive Committee and Award winners for the 1999 Annual Meeting in Marseilles totaled \$5,552. Costs for the Newsletter have been \$7,392. Members' subscriptions to the Journal totaled \$7,508. Administrative costs for the credit card reader, bank fees, and other miscellaneous expenses have run \$343 to date. Stephen Teal, ISCE Treasurer

Summary of the 17th Annual Meeting, Poços de Caldas, Brazil



Meeting host Evaldo Vileda, President Hartman, and President-Elect Walter Leal

The 17th Annual Meeting of the Society, held at the Urca Cultural Center in Poços de Caldas, Brazil, on August 15-19, 2000, was attended by 163 participants from 25 countries. 70 oral presentations were made in 7 working sessions. Topics included **Neurophysiology** with introductory remarks by Dr.

Thomas Baker, **Physiology & Odor Reception** with introductory remarks by Dr. Ring Cardé, **Plant Defense** with introductory remarks by Dr. Birger Lindberg Moller, **General Topics in Chemical Ecology** with introductory remarks by Dr. Kenji Mori, and **Behavioral Applications** with introductory remarks by Dr. Wilhelm Boland. The



President-Elect Leal entertaining at the reception.

Silverstein-Simeone Award Lecture was presented by Dr. May Berenbaum on "Chemical Ecology of DNA". The ISCE Silver Medal lecture entitled "Biorational Pesticides: Evolving Frontiers" was

given by Dr. William S. Bowers. In addition, a 2-hour poster exhibition with 69 entries was held in the Center lobby. Both the oral sessions and poster exhibitions were highly successful with much stimulating and informative discussion. Thanks to support from many sources (ChemTica, Alcoa, Hirabras, 3M, Ministry of Agriculture, Cons. Café, CNPq, FAPEMIG, CAPES, Fuji Flavor, Isca Technology, Rhodia), from the Universidade Federal de Viçosa, and from the local government including the City of Poços de Caldas, the meeting was a financial success despite the relatively low registration

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and accommodation fees. Following a reception at the Urca Cultural Center, participants were entertained by a local chorale group. The meeting closed with a banquet at the Casino Palace. After attending this stimulating three-day meeting in a calm and friendly Brazilian tourist city, many participants went on to the International Congress of Entomology, in Foz do Iguassu. Overall, the meeting was a great success, with excellent posters and presentations, and many exciting new projects being described.

Evaldo F. Vilela, Chairman of the XVIIth Annual ISCE Meeting

2000 Silverstein-Simeone Award Winner



Professor May Berenbaum is probably most well-known to the scientific community for her work on furanocoumarins and their importance in mediating interactions between the source plant, wild parsnip, and its insect herbivores, particularly the parsnip webworm. Her work, extending back into the 1970's, has highlighted the ecological roles of phytochemicals in shaping plant and insect communities. She provided some of the first hard evidence for the coevolution of plants and their herbivores, as proposed in Ehrlich and Raven's classic paper in 1980. A followup study used a quantitative genetics approach to probe the mechanisms involved in coevolution. In her more recent research, Dr. Berenbaum has tackled difficult problems in a variety of fields related to chemical ecology, including the effects of ultraviolet radiation on plant-herbivore interactions, the evolution of cytochrome P450's and their role in detoxification of phytochemicals by herbivores, and the costs of chemical defenses in plants. Her contributions to science were recognized by her election to the National Acad-

emy of Sciences in 1994. She has also received numerous other honors and awards, including being named a Fellow of the Entomological Society of America, the American Academy of Arts and Sciences, and the American Philosophical Society.

However, Professor Berenbaum is equally well known because of her efforts to demystify science by lecturing and writing for the general public. She began and continues to organize the now classic "Insect Fear Film Festival" at the University of Illinois, and she has written four highly entertaining books geared towards bringing the fascinating and arcane details of interesting biological systems to the public in a readable and amusing way. As an example of their success and popular appeal, one of her books, "Bugs in the System", was named Science Book of the Year in 1997.

On behalf of the ISCE, I would like to express our thanks for her impressive Silverstein-Simeone lecture entitled "Chemical Ecology of DNA", particularly as Dr. Berenbaum had spent many hours travelling the day that she gave her lecture, and our congratulations for being selected as the recipient of the award for 2000.

Jocelyn G. Millar, ISCE Secretary

ISCE Silver Medal Award



Dr. Bowers' contributions to the worldwide impact of Chemical Ecology studies, and in particular to the Society itself, should be well known to all. These include his tremendous personal impact in promoting the role of Chemical Ecology in identifying new bioactive compounds of value in crop protection and beyond, and the innovativeness of his own studies in the area. It was, therefore, greatly appreciated that for the first time, a Silver Medallist was called upon to make a scientific presentation and ISCE

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President Hartmann and the organizing committee are to be complimented on this decision.

Dr. Bowers' presentation entitled "Biorational Pesticides: Evolving Frontiers" included his pioneering studies on insect juvenile hormones and the creation of more active analogues, when such structure-activity developments were in their infancy in the area of Chemical Ecology. His subsequent work on the identification of potent juvenoids from plants and the development of the anti-juvenile hormone concept for pest control represents a major scientific milestone. The characterisation of the precocenes alone stimulated a vast effort throughout industry and academe into the search for novel crop protection agents. The isolation and identification of aphid alarm pheromones was an important development in transferring pheromone studies into insect taxa other than the Lepidoptera and Coleoptera. Dr. Bowers concluded his lecture with his most recent work, which continues to generate many new ideas, particularly in providing insights into plant secondary metabolism induced by feeding stress, with a final forecast that organic synthesis with new molecular techniques will drive a new biorational revolution. Indeed, a spin-off from these studies may possibly be termed the "Bowers litmus test for jasmonate activity", in which chenopodiaceous plants show stem reddening during this type of induced stress. Throughout his presentation, Dr. Bowers made kind reference to the many scientists with whom he has interrelated world-wide.

Although Dr. Bowers' presentation covered most aspects of his scientific contributions to Chemical Ecology, he modestly played down wider impacts from his work. For example, he was one of those who pioneered the view, now accepted world-wide, that the natural kingdoms hold vast resources that can underpin the generation of new biologically active molecular structures for many other areas of potential human

benefit. This concept is now proving of immense value in advancing the need for preserving species diversity in the interests of both wealth creation and improving the quality of life throughout the world.

It was personally a great privilege and honor to chair Dr. Bowers presentation in Poços de Caldas, since his work and his larger than life personality had a considerable impact on my own career in science. It also gave me an opportunity for further socialisation with Bill and his wife, Patricia, at what turned out to be an excellent and extremely busy meeting.

John A. Pickett, ISCE Past-President

Student Travel Awards

Congratulations to the winners of this year's Student Travel Awards, used to assist with attendance at the meeting. 20 applications were received, split evenly between males and females, with 7 from the US, 3 each from Brazil and Germany, 2 from Sweden, and one each from Belgium, France, Holland, South Korea, and Austria. Applicants were ranked according to number of publications in relation to career level, quality of abstract and research, and need of financial support. The award winners are listed below, along with their countries and the titles of their presentations. Their abstracts can be found on the ISCE webpage. This year, for the first time, the Student Award Winners all made their presentations in one excellent session, and this concept will probably be continued at future meetings.

Miryam Coracini, Sweden. Sex pheromone of the Brazilian apple leafroller, *Bonagota cranaodes*.

Falko Drijhout, The Netherlands. Close-range sex pheromone of *Lygocoris pabulinus*. Identification of female-specific compounds as possible attractants

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Thomas Koch, Germany. Ion-channel forming alamethicin as a potent elicitor of volatiles biosynthesis and tendril coiling: cross-talk between jasmonate and salicylate signaling in the lima bean.

Monica Puyana, USA. Secondary metabolite chemistry of Caribbean *Aplysina* sponges.

Bruno Digiusto, France. Chemical ecology of an opportunistic protection mutualism and an ant-adapted herbivore: wild yams, ants, and Chrysomelid beetles.

Caroline Mueller, USA. Phagostimulants in potato-different for *Manduca sexta* and *Leptinotarsa decemlineata*?

Florian Schiestl, Germany/Australia. Biologically active volatiles in Australian sexually deceptive orchids.

In addition, an award was made to **Aurelia Reckziegel (Germany/Brazil)**, but she was unable to attend the meeting.

sota, USA

Councilors serve 3 year terms and are appointed from various geographical and disciplinary areas, and advise the ISCE Executive Committee. Further details can be found in the Society's bylaws.

ISCE SILVER MEDAL AND SILVERSTEIN-SIMEONE AWARD WINNERS FOR 2001

The 2001 award winners were announced at the ISCE meeting in Poços de Caldos. The Silver Medal award winner for career achievement in chemical ecology is Professor David Wood, University of California-Berkeley. Dr. Wood was one of the founding members of the ISCE, and the host of the 1987 meeting in Berkeley. The Silverstein-Simeone award winner is Professor Glenn Prestwich, University of Utah, Salt Lake City, Utah, and a previous ISCE councilor. Professors Wood and Prestwich will both present lectures at the 2001 meeting in Lake Tahoe.

ISCE 2001 MEETING, LAKE TAHOE, NEVADA, USA

The 18th annual meeting of the ISCE will be held July 7-12, 2001, hosted by Gary Blomquist, at the Granlibakken resort at Lake Tahoe, one of the most spectacular natural areas in the western US. The resort is about 50 miles from Reno, Nevada, the closest large airport, and arrangements will be made to bus participants to and from the airport. The resort is set in the forest about a mile from the lake, and backs up against the Desolation Wilderness. Besides all the amenities of a luxury resort, there are miles of superb hiking trails and abundant wildlife (including bears!). The scientific sessions are planned to take place over 4 days, with one afternoon free. The meeting will commence with an opening reception on the evening of July 7, and finish with the banquet on July 11. Costs, which are

The 2000-2001 Student Travel Award Committee consists of Judith Reinhard, Evaldo Vilela, and Gary Blomquist. The call for 2001 awards will appear in the February ISCE Newsletter and on the Website.

Results of ISCE 2000 Elections

Murray Isman (Dept. of Botany, University of British Columbia, Canada) has been elected as the new ISCE Vice-President. Four new councilors were also elected:

- Wilhelm Boland, Max Planck Inst. für Organische Chemie und Biochem., Jena, Germany
- Nelida Gomez, Smithsonian Tropical Research Institute, Balboa, Ancon, Panama
- Ann Hagermann, Dept. of Chemistry, Miami University, Oxford, Ohio, USA
- Steve Seybold, Dept. of Entomology, U. of Minne-

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still being worked out, will be all inclusive, and arrangements will also be made for cheap student accommodations close to the conference center. Five symposia are planned, including Marine Chemical Ecology, Fresh Water Chemical Ecology, Pheromone Production, Pheromone Perception, and Chemical Ecology Methods. The registration forms will be sent out with the February Newsletter, as well as being on the ISCE website.

FUTURE MEETINGS

2002 Hamburg, Germany

Planning is underway for the 2002 meeting, to be hosted by Wittko Francke, and with a Scientific Committee composed of Francke, Ian Baldwin, Monica Hilker, and Thomas Hartmann. Sessions will be held at the University of Hamburg, with participants staying at local hotels, and taking meals at local restaurants. Likely dates include early August, with 4 days of sessions and possibly one day for sightseeing. Symposia topics are being discussed, with 4-5 half-day symposia likely.

Other planned meeting sites include: 2003: South Korea/Asia (K.S. Boo), possibly with the new Asia-Pacific Association for Chemical Ecology; 2004, Ottawa (B. Philogene and Thor Arnasson); 2005, Maryland, USA (Jeffrey Aldrich); 2006: Barcelona (Angel Guerrero).

NEW EDITORIAL STRUCTURE AND TEAM FOR THE JOURNAL OF CHEMICAL ECOLOGY

With the retirement of James Nation and David Jones as co-editors of the Journal of Chemical Ecology, Kluwer Academic/Plenum Publishers, the owner of the Journal, asked John Romeo to continue as Chief Editor. He was directed to find Associate Editors to assist with

coverage of the broad subject areas covered by the journal. After consultation with the Editorial Board and others, the following new team has been assembled to cover the major sub-disciplines of chemical ecology. The current editorial board will remain in place until the next series of rotations, scheduled for 2001.



Kelsey R. Downum is Professor of Biological Sciences and Associate Dean for Research in the College of Arts & Sciences at Florida International University in Miami. The major thrust of his research involves developing an understanding of the significance of endogenous plant photosensitizers (chemicals that can be activated to a highly reactive state by exposure to light). These biologically active compounds are believed to mediate a variety of interactions between plants and herbivores. The current research is focused on tropical/subtropical systems. He is a long-term member of the International Society of Chemical Ecology and is Past-President of the Phytochemical Society of North America. Kelsey lives just outside of the Everglades National Park, with his wife Julie. He raises parrots and conures, and endures the occasional hurricane.



Walter S. Leal is an Associate Professor in the Department of Entomology at the University of California Davis. He has a degree in Chemical Engineering from the Universidade Federal de Pernambuco, Brazil and graduate degrees in Agricultural Chemistry (MSc.) and Applied Biochemistry (PhD) from Mie University and Tsukuba University in Japan. He worked for 10 years at the National Institute of Sericulture and Entomological Science as Senior Scientist, Head of

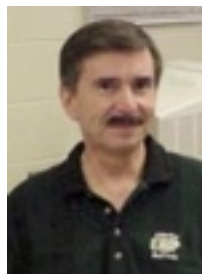
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Laboratory and Team Leader before moving to UC Davis this year. Walter has taken a comprehensive approach to better understand insect chemical communication. He works on isolation, identification, synthesis and biosynthesis of pheromones and other semiochemicals, as well as on the molecular basis of the highly selective and sensitive olfactory system in insects. He has published about 100 scientific articles and holds about 30 patents. Walter was awarded a Medal of Honor by the Entomological Society of Brazil, the *Gakkaisho* (equivalent to ESA Fellow) by the Japanese Society of Applied Entomology and Zoology, and the *Gjitsusho* (Technology Prize) by the Japan Society for Bioscience, Biotechnology, and Agrochemistry. Walter is married and has 3 sons. His major hobby is to talk at international symposia to which he is often invited.



Nancy M. Targett is Professor and Associate Dean at the University of Delaware, Graduate College of Marine Studies, where she has been for 17 years. Her research focuses on marine chemical ecology, particularly plant-herbivore interactions mediated by secondary metabolites, the effect of abiotic and biotic factors on the production of plant secondary metabolites, and ontogenetic shifts in the production of secondary metabolites. She is a lifetime member of ISCE, and has served the Society as Secretary and Editor of the Newsletter, and as a Councilor. She is a longtime member of the JCE editorial board. In 1999 she was named as an Aldo Leopold Leadership Program Fellow. She served 6 years (1994-2000) as a federal appointee to the Mid-Atlantic Fisheries Management Council, chairing several committees. She is also on the Editorial Board for the journal *Biofouling*. Within her home community,

Nancy has chaired the boards of The Jefferson School, an independent elementary school that she helped start 9 years ago, and The Sussex Academy of Arts and Science, a charter middle school that she recently helped launch. She lives in Lewes with her husband Tim and their twelve year old daughter Katharine.



John T. Romeo is a Professor of Biology at the University of South Florida in Tampa, where he has been for 20 years. He served first as Graduate Director and then as Chairman of his department for 8 years. His research interests have centered on the chemistry of nitrogenous natural products, particularly the isolation and characterization of nonprotein amino acids and alkaloids. His biological focus has been on plant/insect and plant/plant interactions. He is a life member of the ISCE, and served for 7 years as Secretary and Newsletter editor. He is a Past President of the Phytochemical Society of North America. Since 1994 he has been Editor-in-Chief of *Recent Advances in Phytochemistry*, an annual symposium volume now in its 34th year of publication. In 1996 he was appointed as Co-editor of the *Journal of Chemical Ecology*. John has received several awards for teaching excellence and is actively involved with educational reform K-16. He is an avid sports fan and he serves as his university's representative to the NCAA. His son is a forensics expert. He lives with two cats and miscellaneous collections that range from air sickness bags to vintage movie posters.

CALL FOR NOMINATIONS FOR ISCE COUNCILORS FOR 2001

In an effort to involve the entire ISCE membership in the selection process for candidates for the 4

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new ISCE Councilors that are required every year, the Executive Committee would like your help in identifying possible candidates. ISCE Councilors are elected for a term of three years, and they must be able to make a commitment to attend at least two of the three ISCE annual meetings during their terms of office. Their primary responsibilities are to participate in the annual Executive Committee meeting, to participate in the selection of the ISCE Silver Medal and Silverstein-Simeone awards, and to provide general guidance and assistance to the Executive Committee as required. A strong record of participation in Society activities would be an asset.

Please send names, contact addresses, phone and FAX numbers, and email addresses of candidates, along with a short description of why you think that the candidate(s) would be suitable to Prof. Thomas Hartmann, ISCE Past-President, t.hartmann@tu-bs.de, Fax: +49-531-391-8104, mail Inst. Pharmazeutische Biologie, Tech. Universitat Braunschweig, Mendelssohnstr. 1, D-38106 Braunschweig, Germany. **Deadline for receipt of nominations: December 1, 2000.**

CALL FOR NOMINATIONS FOR THE YEAR 2002 ISCE SILVER MEDAL AND SILVERSTEIN-SIMEONE AWARDS

Because of some confusion amongst the membership as to the purpose of the two major ISCE awards, the ISCE Executive Committee has decided to issue the call for both awards simultaneously, with all award nomination packets to be sent to the President, Walter Leal, whose address is below. Please note that both Awards honor scientists who have made outstanding contributions to the discipline of chemical ecology, but the intent of each award is different. The Silverstein-Simeone lecture award was established by the ISCE in 1995 to honor Milt Silverstein and John Simeone for

their contributions to the field of Chemical Ecology and for their long service as founding editors of the Journal of Chemical Ecology. It is presented each year to a scientist conducting innovative research on the "cutting edge" of science. The recipient of this award is asked to present a plenary lecture at the annual meeting of the ISCE and to publish a paper on the same topic in the Journal of Chemical Ecology. The expenses of the award recipient to attend the annual meeting are paid by the society through the generous sponsorship of Plenum Press.

In contrast, the ISCE Silver Medal, sponsored by Fuji Flavor Co., is intended to recognize career achievement, rather than any one single achievement, whereas the Silverstein-Simeone Award recognizes outstanding recent or current work at the frontiers of chemical ecology.

Nominators must be ISCE members in good standing. The President and Vice President will jointly review all nominations, to ensure that all nominations are in the most appropriate award category, before forwarding them to the full Executive Committee (ISCE officers and councilors) for voting. If nominations for a particular award are deemed to be possibly more appropriate for the other award, the President will contact the nominator(s) to discuss it. Current ISCE officers or councilors should not be nominated for either award because of possible conflicts of interest.

Please also note that nominations from previous years that were not successful must be renominated, i.e., the files will not be forwarded automatically to the next year's competition. We encourage nominators from previous years to resubmit their nomination packets.

Please help to ensure that deserving colleagues are recognized through nomination for the awards. The nomination process is the same for both awards, and is straightforward. All that is required is:

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- a nomination letter explaining why your nominee deserves to be recognized for the particular award, stressing either the current cutting-edge work for the Silverstein-Simeone award, or the career highlights for the Silver Medal award,
- a Curriculum Vitae, including a list of publications pertinent to the research on which the nomination is based (Silverstein-Simeone award), or a full list of publications (Silver Medal award),
- if desired, supporting letters from other colleagues.

Please submit all parts of your nomination packet in electronic format (including supporting letters), with one paper copy also. The electronic copy may be submitted as an email attachment to Walter S. Leal, ISCE president, at wsleal@ucdavis.edu. Please send the paper copy and a copy on disc (if an electronic copy was not sent by email) to Walter Leal, ISCE President, Dept. of Entomology, University of California, 1 Shields Ave., Davis CA 95616, USA. Please contact Walter Leal, phone 1-530-752-7755, FAX 1-530-752-1537, if there are any problems. **Nominations must be received by January 1, 2001.**

RECENT AWARDS AND HONORS TO ISCE MEMBERS

Professor William Bowers Honored with the Sterling B. Hendricks Award of the American Chemical Society.

The Sterling B. Hendricks Memorial Lectureship was established by the US Department of Agriculture in 1981 to honor the memory of this great scientist. Dr. Hendricks contributed to many diverse scientific disciplines. He is probably best known for leading the ARS team that discovered and isolated phytochrome, the protein that regulates many plant processes. The award recognizes scientists who have made outstanding contributions to the chemical science of agriculture.

The Dr. William Bowers was named the 2000 Sterling B. Hendricks Memorial Lecturer in recognition

of his fundamental role in the growth of chemical ecology as a field of study, and his role in fostering biologically rational approaches to the chemical control of insect pests. Dr. Bowers has been one of the pioneers in defining the chemical defenses of plants against insects and applying this knowledge to agriculture. In particular, his work elaborating how plants disrupt the development, reproduction, and behavior of insects by interfering with their endocrine system, coupled with the fact that the hormones that regulate development in insects are different from those in vertebrate animals, made it possible to create hormone-based insect control strategies. Major advances emerging from his research include: the first synthesis of an insect juvenile hormone, the identification and synthetic optimization of juvenile hormone analogs from plants, the development of the anti-juvenile hormone concept for pest control, and the isolation and identification of aphid alarm pheromones.

Professor John Borden Honored with Symposium and Banquet



Professor John Borden of the Department of Biological Sciences, Simon Fraser University in Canada will be honored at the joint meeting of the Entomological Societies of America, Canada, and Quebec, to be held December 4-7, 2000. In

recognition of his distinguished career and his many contributions to chemical ecology and entomology, the meeting organizers have arranged a special symposium to pay tribute to his many achievements. Over the past several decades, Dr. Borden's energy, drive, and innovative research have led to major discoveries in a wide variety of subject areas, including insect-plant interactions, chemical ecology, and semiochemical

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composition, production, and function. He is probably most well-known for his work with bark beetles in the forests of western North America. His contributions to the understanding of the semiochemical systems used by insects have influenced the fields of entomology, ecology and pest management. Dr. Borden has gained an international reputation, and has earned the admiration and respect of scientists throughout the world. The symposium will be followed up with a banquet on the same day, and a special issue of *The Canadian Entomologist* will be dedicated to Dr. Borden. His legacy to the disciplines of chemical ecology and entomology will continue to grow due to the more than 100 graduate students that he has mentored, as well as numerous postdocs and visiting scientists. Further information about the symposium and banquet in Dr. Borden's honor can be obtained from Leslie Chong at chong@sfu.ca.

Professor Bernard Fried Retires

Professor Bernard Fried, a life member of the Society, recently retired from Lafayette College after serving as a professor of biology for 37 years. Dr. Fried is an internationally renowned expert on parasitic flatworms, and during his career, has published more than 400 papers and has written or edited 9 books. He will be among the parasitologists featured in a Discovery Channel special due to air in November, entitled "Parasites: They're Eating Us Alive". Despite officially retiring, Professor Fried intends to continue his research as an emeritus research professor.

NEW REFERENCE BOOK FOR CHEMICAL ECOLOGY:

Pheromones of Non-Lepidopteran Insects Associate with Agricultural Plants, eds. Jim Hardie and Albert Minks; Oxford Univ. Press, 1999; ISBN 0 85199 3451.

For a variety of reasons, study of the pheromones of lepidopteran insects has dominated semiochemical research. This very useful volume brings together reviews of research on pheromones from other insect families, with chapters written by experts in the various specialized areas of research. Recent research into the pheromone chemistry of other insect orders is presented, along with evaluations of the potential for use of pheromones in insect management. Chapters include the history of research efforts, and describe current progress in elucidating the biology and chemistry of semiochemically mediated interactions, and in developing applications for agriculture, horticulture, forestry, and stored products. Contents include chapters on pest species, such as fruit flies, gall midges, scarab beetles, sap beetles, weevils, forest beetles, stored products beetles, saw flies and seed wasps, aphids, scale insects, termites, phytophagous bugs, and grasshoppers and locusts. A second section includes chapters on beneficial insects, including predators, parasitoids and their hosts, and bees.

POSITIONS AVAILABLE:

- **Postdoctoral Position, Marine Chemical Ecology**
Postdoc. position available November 2000 for studies of the chemical ecology of marine plants and/or animals. Research experience in chemical ecology required although applicants with experience in marine invertebrate larval biology would be considered. A description of the research program can be seen at <http://www.uab.edu/uabbio/mcclinto.htm>. Send curriculum vitae, statement of research interests, and addresses, phone numbers, and e-mail addresses of 3 references to Dr. Jim McClintock, Office of the Dean, Campbell Hall 464, University of Alabama at Birmingham, Birmingham, Alabama 35294-1170; (205-934-8659); e-mail: mcclinto@uab.edu. Affirmative Action/

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Equal Opportunity Employer

- **Postdoctoral Position**

Postdoc. position available spring 2001 as part of a 5-year project funded under NSF's Integrated Research Challenges in Environmental Biology program. Project will evaluate how genetic and chemical variation in naturally occurring and synthetic hybrids of cottonwood species mediates ecological structure and function at population, community and ecosystem levels. Field sites include riparian habitats throughout the Intermountain West. Project PIs include T. Whitham, S. Hart, P. Keim, and G. Martinsen of Northern Arizona University, and R. Lindroth of the University of Wisconsin. Primary responsibilities: coordinate and conduct research/chemical analyses of cottonwood samples, with results to be integrated with those of other participants to determine the influence of cottonwood genetic structure on chemical variation, and the linkages between chemical variation and primary production, herbivore and natural enemy communities, litter quality and nutrient cycling.

Qualifications: Expertise in chemical analysis. Strong interpersonal, writing and statistical skills. Contact Richard L. Lindroth, Dept. of Entomology, U. of Wisconsin, 1630 Linden Drive, Madison, WI, 53706. U.S.A. Phone: 608-263-6277, Fax: 608-262-3322, <http://entomology.wisc.edu/~lindroth/>. Position open until a suitable candidate is found. Salary and Benefits: \$28,000-30,000; excellent medical and dental benefits. Applications should include full c.v., names/addresses of 3 references, representative reprints, and a letter detailing applicants suitability for the position.

Post-Doctoral Research Associate

The Insect Chemical Ecology Lab seeks a Research Associate to work on semiochemistry of the tarnished plant bug, *Lygus lineolaris* (Heteroptera: Miridae).

Candidate will work with ICEL chemists to perform lab and field bioassays guiding isolation and identification of Lygus bug sex pheromone or other behavior-modifying natural products potentially useful in managing this pest. **Requirements:** PhD in entomology with experience in semiochemical research. Skill in micro-analytical techniques such as GC, GC-MS and HPLC desirable, but not mandatory. **Salary:** \$35,000/year plus benefits. **Duration:** 2 y starting early 2001, with possibility of extension. **Information/**

Application: Send resume (preferably by e-mail) to Dr. Jeffrey R. Aldrich, Research Leader, USDA-ARS Insect Chemical Ecology Lab., Beltsville Ag. Research Center-West, B-007, Rm302, 10300 Baltimore Ave., Beltsville, Maryland USA; E-mail: aldrichj@ba.ars.usda.gov; phone: (301)504-8531; FAX: 504-6580. Review of applications will begin Dec. 11/00, and continue until position is filled. The USDA is an Affirmative Action/Equal Opportunity Employer.

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Upcoming Meetings of General Interest:

Stephen Teale, Treasurer

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Jim Tumlinson, USA
Evaldo F. Vilela, Brazil
Jan Vrkoc, Czech Republic

- Combined annual meeting of the Entomological Societies of America, Canada, and Quebec, Montreal, Dec. 3-7, 2000. Information: Judy Miller, email meet@entsoc.org, www.entsoc.org/annual_meeting/2000/2000.html.
- Gordon Research Conference on Plant Herbivore Interactions, Feb. 25-March 2, 2001, Holiday Inn, Ventura, CA. Contact: Jack Schultz, ujq@psu.edu.
- 1st EUROPEAN ALLELOPATHY SYMPOSIUM, June 21-23, 2001, Vigo, Spain. Main Topic, Physiological Aspects of Allelopathy, sessions on Basic physiological aspects, Secondary metabolism and stress, Modes of action of allelochemicals, Applied Aspects of Allelopathy. Early registration and abstract submission by Feb. 1/01. Registration information, feas@uvigo.es; web page <http://www.uvigo.es/feas>.
- 2nd Asia-Pacific Conference on Chemical Ecology, Penang, Malaysia, August 7-11, 2001. Abstracts deadline April 30, 2001. Contact and registration information: apcce@maxis.net.my, <http://apaces.bizland.com/P.shtml>; The Secretariat, APCCE, School of Biological Sciences, Universiti Sains Malaysia, 11800 Minden, Penang, Malaysia. FAX: 1-604-656-5125.



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