



ISCE

NEWSLETTER

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ISCE

FROM THE EDITOR

A reminder: if you have not yet paid your membership dues for 2000, please do so. The Membership Renewal Form can be downloaded from the website if you have misplaced the copy that was sent out in the last Newsletter. Please return this form with your dues to our new Treasurer, Steve Teale. Note that you can pay by credit card if you wish - VISA, Mastercard, or Discover card.

For the year 2000, the ISCE meeting will be held Aug. 15-19 in Poços de Caldas, Brazil, and the dates have been set so as to dovetail with the International Congress of Entomology, to be held Aug. 20-26 in Foz do Iguassu in southern Brazil, and all travel to and from Poços de Caldas and Sao Paulo's Guarulhos International Airport is being arranged by the organizers. If you are flying through Sao Paulo to go to the Congress, there should be no extra cost to detour to the ISCE meeting. Further details of the meeting and all the required forms are included in this Newsletter, or can be downloaded from the Society website (www.isce.ucr.edu/meetings/2000/). Please note the **deadline dates of April 10 for early registration, and May 31 for receipt of abstracts**.

Thanks to those members who have sent me photos, news items, notices of upcoming meetings, etc. to include in the Newsletters. Please keep them coming! The Newsletter will only be as good as the information in it, and to provide good information, I need your help. Please send to me by Email or regular mail. My address and Email are listed on the masthead above.

I still have several hundred copies of the ISCE brochure on hand, for use in recruiting new members, and for fundraising. If you need some, please contact me.

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REPORT FROM THE ANNUAL BUSINESS MEETING

President John Hildebrand thanked the local meeting host Jean-Luc Clément for arranging a splendid meeting, and announced that the 1999 Silver Medal winners Reginald Chapman and Elizabeth Bernays, had been unable to attend because of illness. Hildebrand then announced the results of the 1999 elections; Steve Teale and Walter Leal were elected with unanimous support for treasurer and vice-president respectively.

As his last official duty before handing over the Treasurer's position to Steve Teale, Treasurer Webster reported that the Society is in good shape financially. Major expenses for 1998 included the cost of the Newsletter and the

new Society pamphlet, and travel expenses of officers. These costs were offset by funds returned to the Society by Alan Renwick from the surplus from the 1998 Ithaca meeting. Webster emphasized that dues are best paid by credit card or postal money order, because fees for cashing cheques from foreign banks are so high that there would be little left of the original dues sum.

Secretary Millar reported that unpaid dues continues to be a problem, with 20-30% of members being at least a year behind. After 2 years of unpaid dues, members are removed from the roles. Millar reported that the ISCE Webpage maintained by Adam Trickett seemed to be functioning well. The Newsletter is also running smoothly. In the coming year the members will be polled with regard to possibly moving to an all-electronic format to save money. These cost savings cannot be realized as long as paper copies are printed at all, because much of the expense is in the preparation and printing, whether it is 50 copies or 500. However, for the few members who absolutely could not handle electronic copies, paper copies could be printed from the electronic version and mailed.

John Romeo reported for the Journal of Chemical Ecology editors. The Journal's impact factor is currently 1.04, and the rejection rate is about 25%. Steps are being instituted to reduce the time between receipt of a manuscript and publication, and to increase the impact factor by soliciting minireviews. Romeo also indicated that the editors would enquire as to the possibility of getting the Journal into electronic format.

Local meeting host Jean-Luc Clément reported that the Marseille meeting should make a small profit. The meeting had run smoothly, and 108 new members had been signed up as they registered for the meeting.

President Hildebrand reported that Fuji Flavor Co. had contributed \$3,000 per year for 3 years in support of the Silver Medal award, Trécé Inc. had contributed \$3,000 for 1999 for student travel, and Plenum had contributed \$2,500 in support of the Silverstein-Simeone award.

Evaldo Vilela gave a brief report on the meeting planned for Brazil at Poços de Caldas, Aug 15-19, 2000. The program is well advanced, and every effort will be made to make it as convenient as possible for attendees to travel to this small city outside Sao Paulo. Future meetings are planned for Lake Tahoe in 2001, Hamburg in 2002, Ottawa in 2003, and South Korea in 2005. The ISCE is actively soliciting a meeting host and site for the 2004 meeting. President Hildebrand requested help from the membership in identifying sites and hosts for future meetings, and for candidates for Society officers and councilors. A referendum will be held via the Newsletter to determine whether members are satisfied with the current system of having only one candidate for office, or whether we should try to have two candidates for each elected office.

A proposed change to the Bylaws (Article II, section 2) to include a 4th category of membership, "special membership", for members in countries where regular payment of dues would be difficult or impossible because of financial hardship or political barriers to paying dues, was passed unanimously. Special membership will be free, and can be obtained by writing a letter of justification to the president; each special membership application must be voted on by the executive committee. Special membership is awarded for 3 years, and is renewable upon reapplication. As called for in the Bylaws, the intention to change the Bylaws had been announced in the Newsletter of October 1998.

President Hildebrand also announced a change to the student travel award application process. To use the awards as a recruiting tool, applicants do not have to be ISCE members, and one year's dues will be paid as part of the award.

President Hildebrand introduced incoming President Thomas Hartmann. There being no other business, the meeting was adjourned.

Jocelyn Millar, Secretary

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ISCE FROM THE PRESIDENT

At the exciting annual meeting in Marseille that the privilege and responsibility of serving as President of the International Society of Chemical Ecology was passed over to me from my dear colleague John Hildebrand. I will try my best to serve the ISCE and follow John, who set high standards and handed over a strong society to my stewardship. On behalf of the Society, thank you John!

It was not only the ancient atmosphere during the medieval banquet at the Pope's Palace in Avignon where I received the symbols of office, but also the uniqueness of the 1999/2000 term that makes me look back to the very beginning of our discipline and the Society. Plant chemical defense was first recognized at the end of the nineteenth century. The Austrian physician and botanist Anton Kerner von Marilaun devoted long chapters in his textbook (1890) to the "Schutzmittel" (protective means) of green leaves, roots or flowers against herbivores. At about the same time Ernst Stahl published his often quoted classical paper (1888) about chemical protection of plants against snails, and Léo Errera (1886) related the observed localization of plant chemicals in peripheral tissues to defensive functions. However, at the beginning of the twentieth century, any ecological functions for plant chemicals were rejected or simply ignored by most biologists. Plant secondary chemicals were considered to be waste products resulting from metabolic degradation, or formed as byproducts of plant metabolism. It was not until the second half of the last century, in North America, that entomologists such as Gottfried Fraenkel (1959) and Paul Ehrlich and Peter Raven (1964) "rediscovered" and emphasized in their classical papers the ecological importance and evolutionary impact of plant chemicals in insect-plant interactions. This was one of the major landmarks of modern chemical ecology. There have been, of course, many other important events and developments that greatly shaped the research agenda in the following decades, for example the isolation of bombykol in Adolf Butenandt's laboratory (1959) which marked the beginning of insect pheromone research, and the rapid development of organic and analytical chemistry. Consequently, a number of foreseeing scientists, among others Gerald Rosenthal, Robert Silverstein and John Simeone, brought together the various chemical and biological fields of chemical ecology and founded our Society of Chemical Ecology, with the first annual meeting being held in Austin (Texas) in 1984.

A strong and vibrant ISCE accomplished the move into the new millenium. However, the strength of a society is entirely based on the strength and enthusiasm of its members. The I SCE needs your engagement, ideas and suggestions to keep its good spirit and high scientific standards for the future. The individual disciplines that come under the umbrella of chemical ecology are developing rapidly. In many fields, the powerful tools of molecular genetics and cell biology provide the keys for new answers to both mechanistic and evolutionary questions. One of the most valuable properties of our Society is the broad interdisciplinary arena represented at our annual meetings.

To maintain our current high standards I ask all of you to actively participate in the activities of ISCE. For example:

- Suggest new topics which you find important for a symposium at one of the future annual meetings.
- Encourage colleagues working in our discipline or closely related fields to join our meetings and become members of the Society. By the way, this was just what happened to me. It was Jacques Pasteels who persuaded me, a plant biochemist, to attend the 1991 annual meeting in Dijon. After this meeting I became a permanent member of the Society and missed only two of the following meetings.
- Suggest candidates of your choice as ISCE councilors and committee members.
- Suggest outstanding candidates for the ISCE awards.

I look forward to seeing most of you in August at the 2000 Annual Meeting at Poços de Caldas in Brazil.

Thomas Hartmann, President

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ISCE FROM THE SECRETARY

First, let me express my appreciation to Jean-Luc Clément for hosting a large and productive meeting in a very nice venue, and for enrolling a large number of new members while organizing the Marseille meeting. The meeting went like clockwork, and finished on a spectacular note with the wonderful dinner at the Pope's Palace in Avignon.

I would also like to express my appreciation to Fran Webster for his many years of service as the ISCE Treasurer. This job takes a considerable amount of time, particularly as the Treasurer maintains the membership database as well as the Society's accounts. Steve Teale has now taken over as Treasurer. Please be patient if there are minor delays in processing membership renewals as Steve becomes acquainted with the duties and responsibilities of his new position.

As I enter my third year as Secretary, I am finally becoming familiar with all the various things that need to be done at different times of the year, and the Society is functioning quite smoothly. The Newsletters are coming out approximately on time, and the Website (www.isce.ucr.edu/) is growing larger all the time as the abstracts from the annual meetings are added. My thanks to Dr. Adam Trickett, who is continuing his great job of maintaining the ISCE website from England, even though it resides on my computer here in Riverside! I have also begun to assemble lists and protocols for the various Society functions and activities as an aid to ISCE officers in the future, particularly as the officers change every three years. From my own experience, it is a little difficult to take on the job with essentially no background, so I hope that a handbook to be passed on to newly elected officers will both make their jobs easier, and ensure the continued smooth functioning of the Society.

The Society's Executive Committee is also moving forward with several changes in the way that we function, and the various changes that are being considered are described elsewhere in this Newsletter. However, before

we institute changes, we would like to have input from the membership as a whole, to make sure that the changes reflect the opinions of the majority of the membership. Consequently, there is a questionnaire in this Newsletter; please take the time to fill it out and return it to me. Alternatively, you can Email me your choices at jocelyn.millar@ucr.edu.

I would also like to echo President Hartmann's comments about participation in Society affairs and activities. We are a relatively small society, and to minimize the costs to the membership, all of the people involved in running the society (the officers, the councilors, and the meeting hosts) are unpaid volunteers. Everyone enjoys the good science and the camaraderie of the ISCE meetings. Please do your part by giving something back to the Society by participating in Society affairs, and volunteering to serve the Society as the need arises for new officers and councilors.

Jocelyn Millar, Secretary

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ISCE FROM THE TREASURER

As of 1 November, 1999, the Society has \$112,910.28, of which \$30,741.28 is in a checking account and \$82,169.00 is in a Merrill Lynch investment account. The current "amount" takes into account a \$4,500.00 deposit for the 2001 meeting. Thus, the Society is currently in a good financial condition when compared to most the years in the 90's. The 1998 fiscal year saw a reversal of fortunes for the Society largely due to the success of the Ithaca meeting. In particular, the Society neither bore the costs for student travel nor for executive committee travel to the Ithaca meeting. However, lest I create a false impression, please remember that in normal years, the Society's revenues from dues are less than our ongoing expenses. Consequently, it is vital that members pay their dues in a timely fashion so that we do not drain the Society's funds.

In the 1998 fiscal year, the major expenses were the ongoing costs associated with printing and mailing the Newsletter, a one-time charge for the printing of the new ISCE brochure, and Executive Committee travel to the annual meeting. Lesser expenses include bank fees, credit card service charges, incorporation costs, wire transfer costs, and software for the Webpage. Revenue included members' dues, members' Journal subscriptions, and a gift in support of the Silverstein/Simeone award from Kluwer/Plenum Press.

The fiscal year for 1999 looks bright. The Fund Raising Committee has been successful with the notable addition in 1999 of a Student Travel Award from Trece (\$3,000), and a 3-year commitment from Fuji Flavor Co. in support of the ISCE Silver Medal Award. Returns on the invested monies have been fluctuating of late but a return approaching 10% seems likely.

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Summary of the 16th Annual Meeting, Marseille, France

The 16th Annual Meeting of the Society was held at the Mediterranean seaside resort Hotel Palm Beach in Marseille, France on November 13-17, 1999. This end-of-the-millennium meeting was attended by 268 participants from 24 countries including 110 new members. A total of 64 oral presentations were made in six working sessions. Topics included Molecular Biology of Odour Reception with introductory remarks by Linda Buck, Plant Defence with Doyle McKey, Social Communication with Eric Keverne, Analytical Chemistry with Jean-Claude Tabet, Sensorial Physiology and Behavioural Communication with Ingrid Boeckoff, and Venom and Molecular Targets with Hervé Rochat. The Silverstein-Simeone Lecture was given by Alan Renwick on "Variable diets and changing taste in plant-insect relationships". Unfortunately the ISCE Silver Medal lecture entitled "Plant secondary compounds and insects: beyond plant defenses" was canceled on account of the last minute illness of Reginald Chapman. In addition, three 2-hour poster exhibitions with 148 entries were held in the hotel lobby. Both the oral sessions and poster exhibitions were highly successful with much stimulating and informative discussion. Thanks to support from four firms (namely: CCE, Novartis, Hewlett-Packard, and DowAgroSciences), from the University of Marseille, from the Centre National de Recherche Scientifique (CNRS), from the Institut National de Recherche Agronomique (INRA), and from local government bodies including the City of Marseille, the Regional Council and General Councils, the meeting was a financial success despite the relatively low registration and accommodation fees. Following a reception at the Marseille City Hall, participants attended a Classical Music Concert in the Roman-style St. Laurent's Church overlooking the Old Harbor where Phocian Greeks founded the city 2600 years ago. The meeting closed with an unforgettable medieval banquet at the Pope's Palace in Avignon. Thus, by attending this three-day meeting in a 26-century-old city, the chemical ecologists went from the molecular biology of odour reception to the troubadours and jugglers of the Middle Ages with a detour into the realm of LC/MS/MS/MS by ion trapping!

Jean-Luc Clément

Chairman of the XVIth Annual ISCE meeting

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ISCE ANNOUNCEMENTS

At the Marseille meeting, the ISCE Executive committee and councilors transacted a number of pieces of business to clarify or change some society functions. Please read through these carefully, as follows:

1. The question of a Society archive has been a perennial problem, with it being difficult to identify a permanent home for the Society's records. Wittko Francke has now provisionally agreed to consider housing the archives. If you have material that you feel should be in the ISCE archives, please contact him.
2. There has been considerable concern expressed about the turnaround time for the Journal of Chemical Ecology. This is partly due to the delays inherent in overseas mailings, and the editors are examining the

possibilities of using electronic media to speed up the process. However, a large part of the longer than necessary turnaround times is the fault of authors; many authors do not follow the Instructions for Authors when submitting their manuscripts (the instructions are in every copy of the Journal), and in many cases manuscripts are missing references or in other ways deficient. Consequently, one simple way in which significant cuts can be made in the turnaround times is to make sure that your manuscripts are indeed complete and correctly formatted.

3. At some point in the past, the ISCE executive committee began appointing ISCE councilors, instead of electing them as called for in the bylaws. Consequently, beginning this year, the Society will hold annual elections for the Councilor positions, with the ballots to appear in the June Newsletter.
4. There has been an ongoing controversy as to whether only a single candidate should be put forward for the offices of Vice-President, Secretary, and Treasurer. On one hand, concern has been expressed that with only a single candidate, the process is not really democratic. On the other hand, officers are volunteers, and the ISCE Executive Committee was concerned that candidates who were not elected might not be inclined to run again, with the result that the Society may indirectly discourage a significant number of highly able individuals from standing for office, particularly if they failed to be elected previously. Consequently, there is a referendum ballot on this question elsewhere in the Newsletter.
5. The 4th category of membership, special membership, has now been formally created, with a change in the Society's bylaws. Special membership will be awarded in cases where financial or political reasons prevent an individual from being able to pay the annual dues. To obtain special membership, an individual must write a letter of justification to the President, and the application must be approved by the Executive Committee. The term of special membership will be 3 years, and may be renewed upon reapplication.
6. The rules for Student Travel Awards have been clarified. Applicants do not have to be members of the Society, and each award will include a one-year membership in the ISCE. Otherwise the rules are unchanged, and can be found on the enclosed application form.
7. It may be time to consider transitioning to an entirely electronic format for the Newsletter. In particular, the costs of printing and mailing the Newsletter constitute one of the most significant ongoing costs to the Society. It also takes more time and work for me as the editor to prepare the raw material, which is then formatted and printed by a professional printer, with one or more proof-reading cycles involved. Furthermore, formatting and printing has taken up to 4 weeks, which causes significant delays in getting the Newsletter out. Thus, it would be of considerable benefit to switch to an electronic format, with each member receiving an Email alert when the latest Newsletter was available on the Website. For the few members who absolutely could not access the Newsletter in electronic form, paper copies could be printed directly from the electronic version and mailed. Again, there is a referendum question on this subject in this Newsletter, so that you can express your opinion on this subject.
8. The design and logo on the Society medals has been updated, and future medals will be struck with the new design as they are required.

J. ALAN RENWICK - 1999 SILVERSTEIN-SIMEONE AWARD WINNER

Dr. Alan Renwick of the Boyce Thompson Institute, Ithaca, New York, was the winner of the 1999 Silverstein-Simeone award. The award, sponsored by Kluwer/Plenum Press, is made in recognition of cutting-edge work in chemical ecology.

Dr. Renwick received his first degree in Chemistry in 1960 from Dundee Technical College in Scotland, before coming to the United States to continue his graduate training. He began work at the Boyce Thompson Institute in 1960, and while continuing to be affiliated with that institution, received a Master's degree in Chemistry in 1964 from City College of New York, and then returned to Europe to complete his training with a PhD. degree in Forestry from the University of Göttingen in 1970. He currently holds the position of Chemist at the Boyce Thompson Institute, as well as being an Adjunct Professor of Entomology at Cornell University. Dr. Renwick has been very active in ISCE affairs as a frequent participant at meetings, as a councilor from 1992-1995, and most recently, as the host of the 1998 ISCE meeting in Ithaca.

Dr. Renwick has studied the chemistry of insect-plant interactions for many years, particularly in relation to the oviposition behavior of *Pieris* butterflies on cruciferous plants. His award lecture focused on some of his recent work demonstrating that natural variations in the chemistry of plants, as a result of growth characteristics, genetic variation, or environmental factors may provide opportunities for non-adapted herbivores to utilize what is normally a nonhost plant, or conversely, for a plant to become resistant to a herbivore which normally feeds on it. Dr. Renwick's work has also shown that insect responses to plants are not fixed, but may vary due to natural genetic variation, or due to environmental factors. In particular, previous feeding experience on a particular host plant may influence the ability of insects to detect phytochemicals that serve as indicators of suitability of unsuitability. Particular compounds appear to be able to suppress the development of sensitivity to normally deterrent phytochemicals, and remarkably, the presence of specific stimulants results in an effect akin to addiction to those stimulants. Thus, the variations seen in herbivore feeding can have their roots in genetic, environmental, or physiological factors. Overall, the high degree of natural variability in host plant chemistry and biochemistry, coupled with the surprising flexibility of insects' sensory systems may provide an appropriate combination of circumstances that would favor the rapid evolution of new insect-plant relationships.

On behalf of the Society, I would like to reiterate our thanks for an intriguing lecture and for Dr. Renwick's numerous contributions to the ISCE, and extend our congratulations for being selected as a very deserving recipient of the Silverstein-Simeone Award for 1999.

Jocelyn Millar, Secretary

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**ELIZABETH BERNAYS AND REGINALD CHAPMAN,
1999 ISCE SILVER MEDAL AWARD WINNERS**

Professors Elizabeth A. Bernays and Reginald F. Chapman were the co-winners of the ISCE's 1999 Silver Medal. This award, sponsored by the Fuji Flavor Company, Ltd. (Tokyo), recognizes long-term scientific achievement in the field of chemical ecology.

Dr. Bernays is Regents' Professor Emerita of Entomology and Ecology and Evolutionary Biology at the University of Arizona, Tucson. She received her B.Sc. degree in zoology from the University of Queensland, Australia, and then after three years as a grammar-school biology teacher in London, UK, she earned her M.Sc. and Ph.D. degrees in entomology at the University of London. Dr. Bernays then served as a scientific officer for the UK's Center for Overseas Pest Research and in 1983, joined the University of California, Berkeley as Professor of Entomology. In 1989 she moved to the University of Arizona as Head of the Department of Entomology, and in 1991 she was honored with elevation to the rank of Regents' Professor. Among her previous honors is the 1987 Gold Medal of the Pontifical Academy of Sciences. She is the author or co-author of more than 170 papers, reviews and chapters, editor or co-editor of seven books, and co-author (with Dr. Chapman) of the book "Host Plant Selection by Phytophagous Insects" (Chapman and Hall, 1994).

Dr. Chapman earned his B.Sc., Ph.D., and Sc.D. degrees at the University of London, UK. After holding research appointments in Northern Rhodesia (now Zambia) and Ghana, he joined the faculty of Birkbeck College of the University of London in 1959 and served successively as Lecturer, University Reader, and University Professor. From 1970-83 he was Assistant Director and Chief of Research for the Center for Overseas Pest Research in London, before moving to the Department of Entomology, UC Berkeley as Adjunct Professor of Entomology. In 1989 joined the Division of Neurobiology at the University of Arizona, where he is Professor of Neurobiology and Joint Professor of Entomology. He has also served as Director of the University's Center for Insect Science and as Acting Chairman of the Interdisciplinary Graduate Program in Insect Science. Dr. Chapman has authored several books, including "A Biology of Locusts" (Edward Arnold, 1976) and his monumental work "The Insects: Structure and Function", which recently appeared in its 4th edition (Cambridge University Press, 1998). He has also authored or co-authored more than 120 papers, reviews and chapters and edited four important books, of which the most recent is "Regulatory Mechanisms in Insect Feeding" (with G. de Boer, Chapman and Hall, 1995). Among his honors is his election to Fellowship in the Entomological Society of America.

Drs. Bernays and Chapman, individually and together, have made numerous major contributions to our understanding of chemosensory aspects of insect behavior, mechanisms of hostplant selection, regulation of feeding behavior in insects, the general biology of grasshoppers and locusts, and evolution of insect chemosensory systems.

In their joint award lecture, which could not be presented at the Annual Meeting due to illness but which will be published in the Journal of Chemical Ecology, Drs. Bernays and Chapman focus on plant secondary compounds and the evolution of various behavioral and anatomical adaptations in grasshoppers to tolerate those compounds. Polyphagous grasshoppers have a relatively low level of sensitivity to the taste of many secondary compounds. Even if the insects do respond to the taste, they can habituate to it, and this allows time for the induction of detoxifying enzymes, so that unpalatable but potentially nutritious plants may be eaten safely. Specializations of the digestive system endow various species of grasshoppers with enhanced detoxification capabilities, impediments to absorption of certain compounds, and facilitated elimination of others. Some polyphagous species can utilize secondary compounds as defensive substances or even in cuticular sclerotization. Species feeding only on grasses have evolved independently from these polyphagous ancestors on numerous occasions. These insects lack the post-ingestive adaptations of their ancestors for avoiding deleterious effects of secondary

compounds. Instead, they never eat them. Their taste receptors are very sensitive to secondary compounds and they reject any plant containing substantial amounts of such compounds with little or no feeding. The grasshoppers thus exhibit two completely different ways of dealing with the potential toxicity of secondary compounds in plants.

On behalf of the ISCE, I thank Drs. Bernays and Chapman for their award paper and congratulate them again for their selection as the Society's Silver Medalists.

John G. Hildebrand, Past President

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1999 Winners of Student Travel Awards

Congratulations to the winners of the 1999 Student Travel Awards, used to assist with attendance at the Marseille meeting. The award winners are listed below, along with their affiliations and the titles of their presentations. Their abstracts can be found on the ISCE webpage (www.isce.ucr.edu/meetings/99/).

Andrés Gonzalez, Cornell University. Chemical egg defense in *Photuris* "Femmes-Fatales".

Eileen Hebets, University of Arizona, Tucson. An electrophysiological study of olfaction in the whip spider *Phrynus parvulus* (Arachnida: Amblypygi).

Asha Rao, Texas A&M University. The venom of *Monomorium minimum* and its effect on the fire ant *Solenopsis invicta*.

Arnaud Temonia, Univ. Libre de Bruxelles, Belgium. Larval chemical defense and evolution of host shifts in *Chrysomela* leaf beetles.

Quing-He Zhang, Swedish University of Ag. Sciences, Alnarp. Nonhost volatiles and their role in host selection of conifer bark beetles.

In addition, an award was made to **Dovi Kelman** from Tel Aviv, but Mr. Kelman was unable to attend the meeting.

The 2000 Student Travel Award Committee consists of Jean-Luc Clément (Chair), Evaldo Vilela, and Judith Reinhard.

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UPCOMING

ISCE 2000 MEETING, POÇOS DE CALDAS, BRAZIL
17th ANNUAL MEETING OF THE INTERNATIONAL SOCIETY OF CHEMICAL
ECOLOGY

The 17th Annual Meeting of the ISCE will be held in the resort town of Poços de Caldas, Minas Gerais State, Brazil, August 15th-19th, 2000. The meeting is timed so that participants can go directly on to the 21st International Congress of Entomology in Foz do Iguassu, Brazil, on August 20th -26th, 2000. For International Congress participants connecting through Sao Paulo airport, there should be no additional airfare to also attend the ISCE meeting. All transfers between Sao Paulo's Guarulhos airport and Poços de Caldas will be arranged for participants who inform the organizing committee of their travel plans by July 16th.

The Scientific Program will be composed of sessions for submitted papers and posters, anchored by a series of award and invited lectures, as follows:

Silverstein-Simeone Lecture, sponsored by Kluwer-Plenum Press
May Berenbaum (University of Illinois)

Neuroethology of Semiochemically Mediated Host-finding and Acceptance
Thomas C. Baker (Iowa State University, Ames)

Silver Medal Award Lecture, sponsored by Fuji Flavor Co. Ltd.
William Bowers (University of Arizona, Tucson)

Mechanism of Orientation of Flying Moths to Pheromone
Ring T. Cardé (University of California-Riverside)

Metabolic Engineering of Cyanogenic Glucoside Synthesis in Plants
B. L. Moeller (Plant Biochemistry Laboratory, Denmark)

Organic Synthesis in Chemical Ecology: Past, Present, and Future
Kenji Mori (Tokyo Science University)

Title to be Announced
Wilhelm Boland (Max-Planck Institute, Jena, Germany)

The ISCE meeting will be followed by the 2nd Brazilian Meeting on Chemical Ecology, on August 19th, also in Poços de Caldas. ISCE meeting attendees are invited to participate in this meeting to network with their Brazilian colleagues, and transportation back to Sao Paulo airport will be arranged so that participants can continue on to the International Congress of Entomology.

The meeting will begin with an opening ceremony, the Silverstein-Simeone award lecture, and the opening reception on the evening of Tuesday August 15. The Scientific Program will continue Wednesday through Friday, August 18, with the closing banquet on Friday evening. A variety of one-day tours will be available on Saturday, August 19, including a tour of a coffee plantation, a tour of the city, or ecotours of some of the natural

ecosystems in the area. Alternatively, participants may travel back to Sao Paulo on Saturday, or participate in the 2nd meeting of the Brazilian Society for Chemical Ecology. For those who choose to stay through Saturday, shuttle buses will be available to return participants to the Sao Paulo airport on Sunday for connecting flights to the International Congress of Entomology or elsewhere. A more detailed description of the program is available in the packet of forms accompanying this Newsletter. Please note that the conference registration fees are all-inclusive, with the exception of dinner on Wednesday evening.

Conference Organizing Committee: Prof. E.F. Vilela, Chairman (Univ. Fed. Viçosa, MG, Brazil), Dr. W.S. Leal, Vice-Chairman (NISES, Tsukuba, Japan), Prof. P.C. Vieira (Univ.Fed. São Carlos, SP, Brazil), Prof. J.B. Fernandes (Univ.Fed. São Carlos, SP, Brazil), Dr. P. Zarbin (Univ. Fed. Paraná, Curitiba, Brazil), Prof. A. E. Sant'Ana (Univ. Fed. Alagoas, Maceió, Brazil), Dr. A.E. Eiras (Univ. Fed. Minas Gerais, Belo Horizonte, Brazil), Dr.J. R. Trigo (UNICAMP, Campinas, Brazil), E. R. Lima (Univ. Fed. Viçosa, MG, Brazil), Dr. R. Epifânio (Univ. Fed. Fluminense, Niteroi, Brazil), Dr. H. Prates (Embrapa, Brazil).

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The logo for the International Society of Chemical Ecology (ISCE) features the letters "ISCE" in a bold, yellow, sans-serif font. The letters are set against a blue rectangular background that has a fine, grid-like halftone pattern.The word "NOMINATIONS" is written in a large, bold, black, sans-serif font. It is positioned on the right side of a blue horizontal bar that spans the width of the page, matching the background of the ISCE logo.

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 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 the names, contact addresses, phone and FAX numbers, and email addresses of candidates to Prof. John Hildebrand, ISCE Past-President, FAX (+1) 520- 621-8282, email jgh@neurobio.arizona.edu. Please include a short description of why you think the candidate would be suitable and a brief summary of their qualifications. **DEADLINE FOR RECEIPT OF NOMINATIONS: APRIL 1, 2000.**

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CALL FOR NOMINATIONS FOR THE YEAR 2001 SILVERSTEIN-SIMEONE AWARD

The Silverstein-Simeone lecture and award, sponsored by Kluwer/Plenum Press, 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.

The scientists who have been honored with this award to date include:

- 1995- Professor Wilhelm Boland of the Institute for Organic Chemistry and Biochemistry at Bonn University, (now director of the newly formed Max-Planck-Institute for Chemical Ecology in Jena, Germany).
- 1996 - Professor Louise E. M. Vet of the Department of Entomology at the Agricultural University in Wageningen.
- 1997- Professor Clarence A. Ryan of the Institute of Biological Chemistry at Washington State University, Pullman.
- 1998- Dr. Ian Baldwin, Head of the Department of Molecular Ecology, Max-Planck-Institute for Chemical Ecology, Jena, Germany.
- 1999- Dr. Alan Renwick, Boyce-Thompson Institute, Ithaca NY.

Please help the society by nominating someone who is doing innovative research in chemical ecology for the Silverstein-Simeone award for the year 2001. All that is required is a nomination letter explaining why your nominee deserves to be recognized for his/her innovative research, a Curriculum vitae, and a list of publications pertinent to the research on which the nomination is based. If possible, please send your nomination materials by electronic mail in MSWORD or Rich Text Format to Prof. Thomas Hartmann (email T.Hartmann@tu-bs.de). Alternatively, send nomination packets to Prof. Thomas Hartmann, President, ISCE, Institute for Pharmaceutical Biology, Technical University of Braunschweig, Mendelssohnstrasse 1, D-38106 Braunschweig, Germany.
Deadline for receipt of nominations, April 1, 2000.

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CALL FOR NOMINATIONS FOR THE YEAR 2001 ISCE SILVER MEDAL

The officers of the ISCE welcome nominations for the 2001 ISCE Silver Medal Award, sponsored by the Fuji Flavor Company, Ltd. (Tokyo). This award recognizes outstanding long-term scientific achievement in the field of Chemical Ecology. Previous winners have been Professors Silverstein, Blum, Rothschild, Roelofs, Schneider, Meinwald, Eisner, Harborne, Rosenthal, Janzen, Francke, Mori, Pasteels, Fenical, Hartmann, Bernays, and Chapman. The process of selecting the 2001 Silver Medalist will be completed at the 2000 ISCE meeting in Brazil. **Nominations must be received by 1 April 2000**, so that the Executive Committee and Councilors will have time to review the nominations and reach a timely decision. committee members and councilors are excluded from nomination during their terms of office.

We are confident that there are several scientists who richly deserve this prestigious award. Please help to ensure that these colleagues are recognized through nomination for the award. The nomination procedure is very simple: we require only the nominee's Curriculum Vitae and list of publications and a letter of nomination that explains

the accomplishments of the nominee that qualify her/him for the award. Please submit nominations by **April 1, 2000** to: Dr. Walter Leal, ISCE Vice President, Department of Entomology, 1 Shields Ave., University of California, Davis CA 95616, USA.

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ISCE**POSITIONS**

- **Postdoctoral Position in Chemistry of Plant-Insect Interactions.** The Insect Chemistry Research Unit of the Center for Medical, Agricultural and Veterinary Entomology, USDA, ARS, Gainesville, FL has a **Postdoctoral Research Associate** position available immediately for an analytical/organic chemist with experience in the isolation and identification of biologically active natural products. The person selected for this position will work as a member of a team of chemists, entomologists and plant biochemists to elucidate the chemical mechanisms that regulate the tritrophic interactions among plants, insect herbivores and natural enemies of the herbivores. Knowledge and experience in chromatographic separations and spectroscopic identification of biologically active natural products is highly desirable. Experience in designing and conducting bioassays to monitor isolations would also be desirable. Applicants for this position should send a letter stating experience and interest along with a curriculum vitae and the names, addresses, e-mail addresses and telephone numbers of three references to Dr. J. H. Tumlinson, CMAVE, ARS, USDA, P. O. Box 14565, Gainesville, FL 32604, USA. Additional information may be obtained directly from Dr. Tumlinson at jtumlinson@gainesville.usda.ufl.edu.

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ISCE**SOCIETY**

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COUNCILORS, 1999-2000

Kyung Saeng Boo, South Korea	Peter Proksch, Germany
Jonathan Gershenzon, Germany	Judith Reinhard, Germany
Keiichi Honda, Japan	John Romeo, USA
Murray Isman, Canada	Jim Tumlinson, USA
Dietland Mueller-Schwarze, USA	Ted Turlings, Switzerland
Valerie Paul, Guam	Evaldo F. Vilela, Brazil
John Pickett, England	Jan Vrkoc, Czech Republic

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ISCE**MEETINGS**

- **Eurolabcourse technical seminars in methods in plant anatomy, plant physiology and plant ecology for allelopathy research.** Three sessions will be held, in Napoli (Seconda Universita degli Studi di Napoli, Dr. Giovanni ALIOTTA local organiser), Vigo (Universidade de Vigo, Dr. Manuel J. REIGOSA local organiser), and Chambéry (Universite de Savoie, Dr. Francois PELLISSIER local organiser). Participation is completely free (travel and subsistence fees will be funded), but there are eligibility criteria (age, nationality) and a limited number of places (22 per event). Information (seminar content, dates, how to apply...): consult the dedicated web site at www.univ-savoie.fr/labs/ldea/eur/intro.htm. Deadline to apply for the first event is March 31st 2000.

- **Multitrophische Interaktionen zwischen Pflanzen, Mikroorganismen und Insekten:**
Arbeitstagung der Arbeitskreise Parasitoide und Pflanze / Insekt (DGaaE), Göttingen, Germany, March 31- April 4, 2000. Conference language: German. Information: Prof. Dr. Stefan Vidal, Institut für Pflanzenpathologie, Georg-August Universität, Grisebachstr. 6, 370077 Göttingen. E-mail: svidal@gwdg.de.
- **Antonie van Leuwenhoek Symposium: 7th European Workshop on Insect Parasitoids,**
Haarlem, The Netherlands, 1-6.10.2000. This meeting also celebrates the 300th anniversary of the first correct description of insect parasitism on the October 26, 1700 by Antonie van Leuwenhoek. Information: Ineke Kok, Laboratory of Entomology, Wageningen University, P.O. BOX 8031, 6700 EH Wageningen, The Netherlands. E-mail: Ineke.kok@users.ento.wag-ur.nl.
- **Chemical Signals in Vertebrates IX,** in Krakow, Poland, July 26-31, 2000. Multidisciplinary studies of chemical signals (Olfaction and taste) in all vertebrates including humans will be presented and discussed. Information: Dr. Anna Marchelewska-Koj, Institute of Environmental Biology, Jagellonian University, Ingardena 6, PL 30-606 Krokow, Poland. Phone: 4812-633 4003; E-mail: csv@eko.uj.edu.pl.
- **XXIst International Congress of Entomology,** Foz do Iguasu, Brazil, August 20-26, 2000. Complete information is available on the congress website: www.embrapa.br/ice.
- **25th Anniversary Meeting of the International Organization of Biological Control,** Working Group "Use of pheromones and other semiochemicals in integrated control", Samos, Greece, Sept. 25-29, 2000. Information, Maria Konstantopoulou, mkonstan@mail.demokritos.gr.

[Webmaster's note: Additional meeting information of an even more general interest can be found at the ISCE website [meetings page](#)]

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