



NEWSLETTER

INTERNATIONAL SOCIETY OF CHEMICAL ECOLOGY

Volume 18, Number 1, February 2001

UPDATE ON THE 2001 ISCE ANNUAL MEETING

Meeting Website: <http://www.ag.unr.edu/ISCE2001/>

The final plans for the 2001 meeting, organized by Gary Blomquist, at Granlibakken Conference Center in North Lake Tahoe are underway. The conference center is located in the pine forests of the Sierra Nevada mountains, a short distance from the lake. The conference center has numerous recreational facilities, including swimming pool, tennis courts, hot tubs and sauna, hiking trails, etc. For further details about the conference center, maps, etc., please visit the conference center website at <http://www.granlibakken.com/index.asp>

Five symposia are planned, including:

- Novel Techniques in Semiochemical Research (organizer Jocelyn Millar)
- Biosynthesis and Physiological Regulation of Pheromone Production and Emission (organizer Coby Schal)
- Frontiers of Olfactory Reception, Information Processing and Neuroethology in Insects (organizer John Hildebrand)
- Marine Chemical Ecology (organizer Neils Lindquist)
- Fresh Water Chemical Ecology (organizer Peter Sorenson)

In addition, a workshop on applied aspects of pheromones is planned. In addition to the symposia, there will be sessions for submitted oral presentations, and a large poster session. Participants may submit as many posters as they wish.

Participants should arrive on Saturday, July 7, coming in through the nearest large airport in Reno, Nevada. The organizers will arrange buses or vans to shuttle participants from the airport to the meeting site. The meeting will start with an opening reception on the evening of Saturday, July 7. The scientific sessions will start the following morning, and continue through Wednesday afternoon. Tuesday afternoon will be free for a cruise on Lake Tahoe, or other recreational activities. The closing banquet will be on Wednesday evening, with participants departing on Thursday morning. Should you wish to arrive earlier or stay longer to spend more time in the beau-

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tiful forests and mountains of the western US, the conference center will be able to provide additional nights accomodation. Please contact the conference center reservation agent if you wish to stay longer. The contact information is on the enclosed forms.

The fees for the meeting are divided into 2 parts. First, there is a registration fee (\$110, or \$50 for students), which will cover the costs of transportation to and from the meeting site, refreshment breaks, etc. Second, there are the accomodation fees, which are all inclusive,

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From the Editor:

- The membership renewal application forms are only sent out once a year, usually in the October Newsletter. Not infrequently, the forms are forgotten or misplaced, and consequently every year we lose track of a number of members. However, the membership renewal form is permanently available on the **new ISCE website** at the address <http://www.chemecol.org/> in a variety of formats. If you have forgotten to renew your membership, or if you know colleagues who would like to join (or rejoin) the Society, please access the membership form on the webpage. Also note that there is a membership update form, in case your mailing or email address has changed. **Please address all correspondence regarding membership or journal subscriptions paid through the Society to the Treasurer, Dr. Steve Teale, at sateale@mailbox.syr.edu**

A wealth of other information about the Society and its activities is available on the website, including links to all the forms and information required to register for the annual meetings, student travel award applications, etc. The website also has general information pertaining to the Society, including a description of the Society's purpose, the Bylaws, the current officers, descriptions of Society awards, and abstracts of the meetings for the past several years. Links will also be inserted, for example, to the website for each year's annual meeting. The webpage is updated frequently, and it should serve as an up-to-date source of information on Society affairs for you. Please make use of it, and the membership list which is linked to it. The webpage address is <http://www.chemecol.org/>, and there is also a link to the new website from the old one (<http://www.isce.ucr.edu>) which is being phased out. Our new webmaster is Allard Cossé; please contact him if you have suggestions for links, improvements, etc. His contact information is listed on the new ISCE website homepage.

- Please return your ballots for the election of our new vice-president and councilors, and the reelection of the secretary to Jocelyn Millar, at Dept. of Entomology, University of California, Riverside CA 92521, USA. If you wish, you may Email your choices to jocelyn.millar@ucr.edu.

- Please send any news items, such as awards won by Society members, announcements of conferences and symposia, listings of positions available, and other items of general interest to the editor by Email or by regular mail at the address above.

If you have not already done so, please pay your 2001 dues. Annual meeting participants who are not paid-up members will be charged membership dues at the time of registration for the meeting.

covering the costs of five nights accommodation plus all meals, use of all the recreational facilities, welcome reception, and the final banquet.

The registration form, the abstract submission form, the student travel award form, a program summary and contact names and addresses are enclosed. All of these forms are also available on the conference website at <http://www.ag.unr.edu/ISCE2001/> There will be a final meeting update in the May-June Newsletter.

DEADLINE for REGISTRATION, ABSTRACT and STUDENT TRAVEL APPLICATIONS:

- **STUDENT TRAVEL APPLICATION: April 1, 2001**. (Students will be notified by April 21 as to whether they will be funded).

- **REGISTRATION AND ABSTRACTS: May 5, 2001** (You must be registered to have an abstract accepted).

- **LATE REGISTRATION:** Late Registrations will be accepted on a space available basis until July 7. After

May 5, we cannot guarantee that rooms will be available. The late registration fee is \$150.

LETTERS OF INVITATION

Letters of Invitation are available from meeting host Gary J. Blomquist (blomquis@unr.edu) if they are required to help attendees obtain funding from their home countries and institutions.

PING PONG PLAYERS

A singles and doubles ping pong tournament will be organized during the ISCE meeting. If you are interested in participating, please notify meeting host Gary Blomquist (blomquis@unr.edu). Bring your paddle.

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FUTURE MEETING SITES

Other scheduled meetings will be: 2002, Hamburg, Germany; 2003, South Korea; 2004, Ottawa, Canada; 2005, USA, in the Washington D.C. area; 2006, Barcelona.

DONATIONS FROM FUJI FLAVORS, KLUWER, AND TRÉCÉ INC. SUPPORT ISCE AWARDS AND STUDENT TRAVEL

The Society is grateful for continuing support from Fuji Flavors for the ISCE Silver Medal Award, given in recognition of career achievement in chemical ecology. We also thank Kluwer Academic Publishers for a donation in support of the Silverstein-Simeone Lectureship, awarded to a scientist doing cutting-edge research in chemical ecology. We are also grateful to Trécé, Inc. for their generous donation in support of the Student Travel Fund, which sponsors student travel to the annual meeting to make presentations. Student travel awards are made on an annual basis, with 6-10 students and postdoctoral scholars normally receiving awards.

MESSAGE FROM THE TREASURER

At the Meeting in Poços de Caldas, I reported on the difficulty the society was facing with high member turn over. Associated with this was a substantial decline in total membership. Beginning in the mid-1990's, the number of members who did not renew began to increase until the number approached 100 per year in 1998 and 1999. To some extent, these losses were balanced by new memberships (largely originating at our annual meetings, thanks to the efforts of the organizers), but the society's registered membership fell from approximately 650 in the early 1990's to 423 in August, 2000.

Many of the "lost" members were active and dedicated chemical ecologists with an interest in the society but who had forgotten to renew and were then off the mailing list. In an effort to bring these lapsed members back to the society, we sent out a mailing to over 450 people last summer, with the result that about 100 people renewed their membership. The exact figure was elusive because it was often not possible to determine which renewals came in response to the mailing.

Our membership now stands at approximately 520, and it is still climbing as current members renew and new members join. We recently contacted about 70

members from 1999 who had yet to renew. The society's bylaws call for members to be retained in the membership database for one year after the last year for which they have renewed their memberships, so on January 1, 2001, members who were last current in 1999 are removed from the mailing list (and in the past would no longer have received renewal reminders).

In the future, the society will send periodic reminders to members who have not renewed so that memberships are not dropped inadvertently. The situation should also be improved by the recent switch to allow for memberships to be renewed for multiple years at a time, and improvements to the membership database. We believe that this will address the recent problems with declining membership, and that interest in chemical ecology and the society are as high as ever.

TRANSITION TO A WEB-BASED ISCE NEWSLETTER

Dear colleagues,

If all goes well, this Newsletter will be the last printed copy of the ISCE Newsletter, now in its 18th volume. For this issue, we will both mail the paper copy to you as usual, and we will contact you by email to let you know that the new Newsletter is available for viewing and downloading from the Society website. That is, we will not actually email the Newsletter to you, but we will tell you exactly where to locate it on the ISCE website, and how to download and print it. The Newsletter will be posted on the website in several different formats, to make sure that everyone can access it. Posting the Newsletter on the web has several advantages. First, we will be able to incorporate color pictures and active links. Second, eliminating the paper copies of the Newsletter will result in considerable savings in printing and mailing costs. Third, we will be able to get the Newsletters out more quickly because we can eliminate the time required to typeset, proof, print and mail the paper copies.

However, for the first couple of times, we need to make sure that all members are indeed receiving the email notification, and that they can indeed download the Newsletter in at least one of the formats that we are using. If you receive a paper copy, but do not receive an email message, please do several things. First, please check that your email address listed on the Society's membership list at <http://www.chemecol.org/steal/members/index.htm> is correct. At the same time, please check that

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the other information listed is also correct. If any of the information is incorrect, please update your information using the Membership Update form (one of the buttons on the top left hand side of the ISCE homepage at <http://www.chemecol.org/>). The instructions for submitting the updated information are at the bottom of the form.

If the email address appears to be correct, then please contact me at jocelyn.millar@ucr.edu so that I can try and locate the problem. It is likely that I will already know that there is something wrong because any messages sent to an incorrect or outdated address will be returned to me automatically. If I cannot locate you easily to track down the problem, then I will send you a postcard asking you to update your contact information with the Society. We realize that there may be some minor problems for the first couple of times that we do this, and we ask for your patience and cooperation in helping us to get this working smoothly.

Jocelyn Millar, ISCE Secretary
Allard Cossé, ISCE WebMaster

SPECIAL CHEMICAL ECOLOGY ISSUE OF THE JOURNAL OF THE BRAZILIAN CHEMICAL SOCIETY

The Brazilian Chemical Society (BCS) has published a special issue of their journal [Volume 11 (6):2000] focusing on papers presented at the highly successful founding meeting of the Brazilian Society for Chemical Ecology, held at the Federal University of Parana in Curitiba, Brazil in December 1999. Papers cover a wide variety of topics in chemical ecology, including insect pheromones and defensive compounds, new natural products from marine organisms, and the chemistry and biological activity of phytochemicals and floral odors. The entire issue can be accessed on the website of the BCS at <http://www.s bq.org.br/jbcs/> and papers can be downloaded in PDF format for printing.

MEMBER NEWS

Professor Wendell Roelofs Wins the 2000 Spencer Award

ISCE Life Member Professor Wendell Roelofs, current Chairman of the Department of Entomology, Cornell University, is the latest winner of the Spencer Award. This award, administered by the American Chemical Society, Kansas City Section, is given every year in recognition of



outstanding achievement in food and agricultural chemistry. The Kansas City Section presents this award in the hope that it will provide added stimulus in research, education and industry to further progress in agricultural and food chemistry. The award includes a medal and an honorarium which will be presented during a meeting of the Kansas City Section of

the ACS on February 27-28. Professor Roelofs is a past winner of the ISCE Silver Medal, in addition to numerous other honors, awards, and honorary doctorates.

Professor Bernard Philogène Awarded the Entomological Society of Canada Gold Medal



Professor Bernard Philogène, Department of Biology, University of Ottawa, was recently named as the recipient of the Entomological Society of Canada 2000 Gold Medal for his achievements in science, his contributions as a senior administrator of the University of Ottawa and his involvement in international research and education endeavors. Dr.

Philogène specializes in the study of chemical ecology, plant-insect relationships, pesticides of plant origin, and insect development. His main scientific contributions have been in the area of insect development and diapause as influenced by light and temperature, and in the field of plant-insect relationships. His research and university activities have taken him to Europe, Asia, Africa and South America. He has also been heavily involved in the development and discussion of university and policy issues at national and international meetings.
<mailto:bphilog@science.uottawa.ca>

Professor Bill Hansson wins the Jean-Marie Delwart Foundation Award

Professor Bill S. Hansson, Department of Ecology of Lund University, Sweden was the 2000 winner of the Jean-Marie Delwart Foundation Award. The Foundation

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makes an annual award for an original work or series of works, individual or collective, realized in the joint perspective of Ethology and Cultural Anthropology. Dr. Hansson was honored for his work on neurophysiological aspects of insect chemical communication, with special emphasis on correlations between neural functions and behaviour as well

as central nervous processing of neurochemicals and the structure and function of olfactory glomeruli in insects. The Award was presented during the Annual Session of the Académie Royale des Sciences de Belgique, Bruxelles, on the 16th December, 2000. The Award is administered by members of the scientific committee of the Jean-Marie Delwart Foundation and of members of the Académie Royale des Sciences de Belgique.

ISCE ELECTIONS, 2001

Candidate for ISCE Vice-President: Jean-Luc Clément



Professor Jean-Luc Clément, age 48, graduated from the University of Nantes in Brittany in 1973. In his thesis work at the University of Paris under the direction of Pr. C. Bocquet from 1976 to 1981, he studied speciation of *Reticulitermes* termites in Europe including identification of species and determination of their population genetics (allele distribution). Study of the mechanisms

of specific and colonial isolation led him to investigate the role of sexual and social pheromones.

From 1981 to 1988, following post-doctoral stays in Great Britain (6 months in P. Howse's laboratory at the University of Southampton) and the United States (8 months in M. Blum's laboratory at the University of Georgia), Dr. Clément became Maître de Conférences heading a research group at Pierre and Marie Curie University (Paris VI), identifying defensive chemicals produced by plants and insects.

Appointed full professor at the University of

Marseille in 1988, Professor Clément now heads a CNRS Research Laboratory in Neurobiology, directing a group studying perception and regulation of social pheromones in vertebrates and invertebrates. Study of naturally mixed colonies (parasitized and slave maker/slave colonies) and artificially mixed colonies has demonstrated that the colonial signature present in all social insects is regulated by a still undetermined biochemical mechanism. Another area of the team's research has been the linkage between molecular genetics and chemistry. Chemical interactions between plants, pests, predators, and parasitoides are under study. Sequencing, cloning, and expression of mammalian olfactory receptors along with chemical analysis of their ligands (pheromones and odors) are conducted on social vertebrates. In addition to his university and research activities, Professor Clément has been very active in the international academic and applied scientific community. He has authored or co-authored 110 publications. He has spoken at 165 conferences, including 13 as invited speaker. He is the co-holder of 10 patents on natural insecticides (plant and insect allomones) and olfactory receptors. Since 1984, his group has concluded 23 research contracts with industrial firms and public services in the fields of agrochemistry, insect baiting systems, and biocaptors.

In 1984, he was among the scientists who co-founded the International Society of Chemical Ecology in Austin, Texas. He served as an ISCE councilor from 1995 to 1999, and he organized and hosted the very successful 1999 ISCE annual meeting in Marseille. He currently serves on the editorial board of the *Journal of Chemical Ecology*.

Reelection of ISCE Secretary, Jocelyn Millar



According to the Bylaws of the ISCE, members of the executive committee are elected for 3-year terms. Millar's term current term is due to finish in July of this year, but Millar has agreed to stand for reelection for a second term.

Millar is currently a Professor in the Department of Entomology, University of California, Riverside, where he has been for 12 years. He obtained his BSc in Chemistry in 1979 from Simon Fraser Univer-

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sity in British Columbia, Canada and his PhD in Organic Chemistry in 1983, working on aggregation pheromones of cucujid beetles with Dr. Cam Oehlschlager as part of the Chemical Ecology group at Simon Fraser University. He then took a postdoctoral position for a year with Prof. R. M. Silverstein in Syracuse, New York, to work on host attractants for native elm bark beetles. He then did a second postdoctoral fellowship for 2 years, studying pheromones of geometrid, noctuid, and arctiid moths, with Dr. Ted Underhill at the National Research Council of Canada's Plant Biotechnology Institute in Saskatoon. After a 2-year stint in industry as the scientific director and manager of a toxicology laboratory, Millar joined the Department of Entomology at UC Riverside in 1988. His research interests include the identification, synthesis, and development of applications for insect pheromones and related semiochemicals. He has been a frequent participant in ISCE meetings since 1985, and Secretary of the ISCE since 1997.

Candidates for ISCE Councilors.

Dr. Jeff Aldrich, Research Group Leader, US Dept. of Agriculture, USA



Dr. Jeff Aldrich received a B.S. degree in biochemistry (1971, University of Missouri) and, during summers working in the Entomology Department, discovered the world of "true bugs" (Hemiptera: Heteroptera). After a brief exploration of Oceanography as a student at Oregon State University, he returned to Missouri to

pursue his fascination with bugs, receiving an M.Sc. studying the chemistry and action of the defensive secretions of bugs in 1974, with Dr. Thomas Yonke. He then received a Ph.D. in entomology from the University of Georgia on "The Chemical Ecology of Some Coreid and Pentatomid Bugs" in 1977, under the guidance of ISCE Life Member Dr. Murray Blum. During his PhD studies, he also became interested in tropical ecology through participation in an Organization for Tropical Studies field course. His postdoctoral experience included research on the alarm pheromone of Africanized honey bees (1977-78 with Murray Blum; Rockefeller Foundation Grant), and

research on the then newly discovered phytochemicals (precocenes) with anti-juvenile hormone activity (1978-1980 with Dr. William Bowers; NSF grant). In 1980, he joined the US Department of Agriculture-Agricultural Research Service Insect Physiology Laboratory, Beltsville, Maryland, and was transferred to the Insect Chemical Ecology Laboratory in 1990 (now the Chemicals Affecting Insect Behavior Laboratory) where he has been Research Leader since 1999. As Laboratory RL he is increasingly involved in research on invasive species, insect repellents and fruit fly attractants. However, he has continued investigations of the semiochemistry of Heteroptera and their parasitoids, and is actively working to promote the semiochemical manipulation of predacious species for biological control. He has published regularly in the Journal of Chemical Ecology since 1979, and participated in most meetings of the International Society of Chemical Ecology beginning with the inaugural Society meeting in Austin, Texas in 1984.

Dr. Anne-Geneviève Bagnères, Researcher, CNRS, France



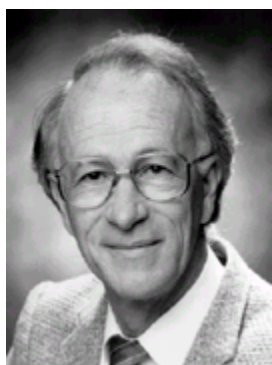
Dr. Anne-Geneviève Bagnères holds the position of researcher at the Centre National de la Recherche Scientifique (CNRS) in Marseille, France. She did her early studies in physiology and neurobiology at the University of Pierre and Marie Curie in Paris, where, in 1989, she completed

a PhD with Jean-Luc Clément. She received the Chancellerie of the Universities of Paris Prize for her PhD work. After a year of postdoctoral studies in analytical chemistry with David Morgan (University of Keele), she was admitted to the CNRS concours for her scientific skill at the interface between biology and chemistry. There she received the French HDR diploma in 1996 for work on composition, variation and dynamics of chemical signatures in insects. During a sabbatical in 1996-97 she worked on biochemical aspects of insect chemical signals as a visiting scientist in the laboratories of Gary Blomquist (UNR, Reno, USA) and Coby Schal (NCSU, Raleigh, USA). Her current research focuses on the chemical ecology of social insects where she continues to be a leading contributor and proponent of the concept of chemical signatures. While her primary research focuses on

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chemistry, behavior, and variation analyses of termite chemical ecology, she participates in several collaborative studies involving chemistry of other insects (ants, wasps, bees...), arachnids (scorpions, spiders) and contact pheromones of mammals (marmots, mice...). She has published frequently in the *Journal of Chemical Ecology*, and has participated in ISCE meetings since 1987. She is also a member of the IUSI and the Isoptera Society.

Professor Ben Burger, South Africa.



Professor Dr. Barend (Ben) Burger, Professor and Head of Organic Chemistry at the University of Stellenbosch in South Africa, is a long-term member of the ISCE. He received his B.Sc. in Chemistry and Mathematics, the M.Sc. in Inorganic Chemistry and the D.Sc. in Organic Chemistry under Prof C.F. Garbers at the same university. As Alexander

von Humboldt Fellow he did post-doctoral work with Prof. L. Birkofer at the University of Cologne and spent a sabbatical year with Prof. H. Schildknecht in Heidelberg in 1975.

Prof. Burger started semiochemical research in 1967, working on the sex attractant of the Pine Emperor Moth and later became involved in the identification and synthesis of constituents of the exocrine secretions of South African antelopes and other mammals, and dung beetles. He has also developed methods for analysis of volatiles in gaseous and aqueous samples for use in his semiochemical research and in the analysis of volatile pollutants. A current project focuses on the development of simplified 2-dimensional GC and GC-MS instrumentation for semiochemical analysis. He has hosted 7 postdoctoral associates from Europe and graduated 23 postgraduate students. He has published over 70 papers, four patents, and two books.

Prof. Burger received the Havenga Prize for Chemistry from the South African Academy for Arts and Science in 1989 and the Shimadzu Trophy for Outstanding Contribution in Chromatography in 1991. He was a Tamkan Chair Lecturer at the Tamkan University in Taiwan in 1990 and is a Fellow of the Royal Society of South Africa. He

serves on the Editorial Board of the *Journal for High Resolution Chromatography* and is a Member of the Board of the International Foundation for Environmental Assistance for Russia.

Dr. Jenny Mordue (Luntz), Department of Zoology, University of Aberdeen, Scotland



Dr. Jenny Mordue obtained her BSc & MSc degrees at the University of Sheffield doing her MSc with Ken Highnam, a pioneer in insect endocrinology. Her PhD, with Professor Reg Chapman at the University of London, focused on the role of mouthpart and antennal receptors in locusts. Since

then she has established an international reputation for her work on semiochemicals in insect chemical ecology. The focus of Dr. Mordue's research is the discovery of semiochemical-based pest control strategies, particularly with azadirachtin and neem products. She also has made substantial progress in resolving the roles of chemical signals in host finding, mate finding and oviposition site location by midges and mosquitoes. Recent work with Professor John Pickett's group at Rothamsted has focussed on identification of novel attractants and repellents for use in push-pull strategies for control of biting flies, with some promising recent results from novel repellents from humans. She also collaborates with the Institute of Animal Health and Dr Phillip Mellor's group on the chemical ecology and molecular biology of *Culicoides imicola* to understand the immigration of this serious vector into Southern Europe. More recently she has begun work with aquatic organisms and is principal scientist in a group involved in pioneering work on the chemical ecology of *Lepiophtheirus salmonis*, an ectoparasitic copepod that is devastating the aquaculture of Atlantic Salmon.

Dr Mordue is the Honorary Secretary for Scotland of the Royal Entomological Society, Chairman, Aberdeen Section and Vice-Chairman Scotland Section of the Society for Chemical Industry and a member of their Crop Protection Group. She interacts widely with scientists from many different disciplines covering physiological, endocrinological, behavioural and chemical ecological approaches in different animal groups. She has been a frequent participant in ISCE annual meetings.

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Dr. Irena Valterova, Senior Scientist, Academy of Sciences, Czech Republic



Dr. Irena Valterova is a senior scientist at the Institute of Organic Chemistry and Biochemistry, Academy of Sciences of the Czech Republic in Prague. She graduated in organic chemistry at the Faculty of Natural Sciences of the Charles University in Prague. She obtained her PhD from the Insti-

tute of Organic Chemistry and Biochemistry of the Czechoslovak Academy of Sciences with Dr. Jan Vrkoc, working on the isolation and structure elucidation of defence substances of termite soldiers.

She then spent 2 years (1990-1992) at a postdoctoral fellow at the Royal Institute of Technology in Stockholm, Sweden, working with Prof. T. Norin on the resolution of monoterpene enantiomers by 2-dimensional gas chromatography. She applied this technique in the determination of enantiomeric purity of monoterpene hydrocarbons isolated from insects (alarm pheromones of termites) and plants (pine oleoresins, flowers and young seedlings of the family Apiaceae).

Her current research includes chemical communication in bumblebees and cuckoo-bumblebees. She studies scent-marking during the premating behavior of males and the ways that these marking pheromone components are formed in the labial glands. She also works on the communication between castes within bumblebee colonies.

Dr. Valterova is an active member of the Czech Chemical Society, where she works on the Board of the Working Group of Organic, Bioorganic, and Pharmaceutical Chemistry. Last year, she was nominated as a member of the Board for the Alfred Bader Prize, awarded to outstanding young Czech scientists in bioorganic and bioinorganic chemistry. Within the framework of her work with talented young people, she also served as a juror of the YEER international competition (Young Europeans Environmental Research) during 1996-1997. She has been an ISCE member since 1993.

POSITIONS AVAILABLE

Postdoctoral position, Applied Insect Ecology

Available spring 2001, for studies of the applied chemical ecology of insect pests. Project will involve molecular signaling pathways that orchestrate the expression of phytochemical defenses using flow through volatile delivery/olfactometer systems and chromatography techniques. Research experience in insect chemical ecology desired. Skill in GC, GC-MS, and HPLC required. Salary commensurate with experience. Excellent medical and dental benefits. Applications should include full c.v., names, addresses, phone numbers, and emails of 3 references, representative reprints, and a letter detailing applicant's research interests and suitability for the position. Contact: Dr. Mark E. Whalon, Center for Integrated Plant Systems, Michigan State University, East Lansing, MI 48824-1311; phone: 517/353-9425; email: whalon@msu.edu. Position open until April 1, 2001 or until filled.

Postdoctoral Position: Molecular Basis of Insect Olfaction

Postdoc. available on an interdisciplinary project to study the molecular basis of the early olfactory processing in insects. A Ph.D. in a relevant discipline such as biochemistry, bio-organic chemistry or cell biology is expected. Knowledge of basic techniques in molecular biology is essential. Salary: \$30,888 per year plus benefits, for 1 or 2 years, contingent upon continued funding. Send resume and list of references to Walter S. Leal, University of California, Department of Entomology, Honorary Sean Duffey Lab, 308 Briggs Hall, Davis, CA 95616; email wsleal@ucdavis.edu. The University of California is an Affirmative Action/Equal opportunity employer.

Postdoctoral position: Entomology/Biology

Postdoc position to study semiochemicals influencing mosquito oviposition behavior. Candidates should have PhD degree in chemical ecology, organic or analytical chemistry, or a related field. Responsibilities include collection and identification of semiochemicals, setup and operation of a coupled gas chromatograph-electroantennogram detector (GC-EAD), development of experimental protocols, data analysis and interpretation, and preparation of materials for publication or presentation. Experience with GC-EAG highly desirable. Position

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available July 1, 2001, for 2 years, with possibility of renewal. Send applications with resume and description of research interests, and names, addresses, phone and FAX numbers, and Email addresses of three references to Dr. Alvaro E. Eiras, Departamento de Parasitologia - ICB/UFMG, Universidade Federal de Minas Gerais, Av. Presidente Antonio Carlos, 6627, Pampulha - CxP. 486, Belo Horizonte, MG, CEP 31270-901, BRASIL. Email: alvaro@icb.ufmg.br, Phone: +55 31 3499 2976, FAX: +55 31 3499 2970 or 3499 2829. Website <http://www.icb.ufmg.br>

UPCOMING MEETINGS OF GENERAL INTEREST

- 4th International Congress on Chemistry & 13th Caribbean Conference on Chemistry and Chemical Engineering, Havana Cuba, April 16-20, 2001. Invited speakers and sessions on Ag. and Food, analytical, organic, physical, industrial, environmental chemistry, chemistry in medicine, natural products chemistry. Information: Dr. Maria A. Chavez Planas, mchavez@infomed.sld.cu.
- 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://apcce2001.domainvalet.com>; The Secretariat, APCCE, School of Biological Sciences, Universiti Sains Malaysia, 11800 Minden, Penang, Malaysia. FAX: 1-604-656-5125.
- 4th Asia-Pacific Conference on Entomology, August 14-17, 2001, Kuala Lumpur, Malaysia. Website: <http://www.mapps.org.my/mapps/APCE.html>
- 3rd IUPAC International Conference on Biodiversity, Nov. 3-8, Antalya, Turkey. Main topics: Chemical basis of diversity; Biomolecular aspects of biodiversity; Innovative utilization. Further information and contact: Prof.

Dr. Bilge SENER, P.O. Box 143 06572 Maltepe-Ankara, Turkey. Fax +90-312-213 39 21. Email blgsener@tr-net.net.tr. Web <http://www.agne.com.tr>

CUT OUT BALLOTS AND MAIL TO ISCE SECRETARY.

You may also register your votes by email to the secretary at jocelyn.millar@ucr.edu. **Ballots or Emails must be received by April 30, 2001 in order to be registered.**

BALLOT

Vice President, ISCE, 2001

_____ Dr. Jean-Luc Clément
_____ Other

Secretary, ISCE, 2001

_____ Dr. Jocelyn Millar
_____ Other

BALLOT

Councilors, ISCE, 2001

Please vote for only 4 of the 5 candidates

_____ Dr. Jeff Aldrich, USA
_____ Dr. Anne-Geneviève Bagnères, France
_____ Dr. Ben Burger, South Africa
_____ Dr. Jenny Mordue, United Kingdom
_____ Dr. Irena Valterova, Czech Republic

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