



ISCE

NEWSLETTER

Volume 14, Number 2, June 1997.

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None of the material contained herein may be reprinted without the proper written acknowledgement of the editor. Address all correspondence and newsletter submissions to the editor. Deadline for the next issue is **15 September 1997**.

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UPCOMING

The 14th Annual Meeting, 12-16 July 1997 in Vancouver, Canada will be on the campus of the University of British Columbia. To date, the program consists of 16 symposium talks, 77 oral contributed papers, 42 poster contributed papers, and 3 Plenary lectures. Please remember to return your Room Accommodation request before June 12th if you wish campus housing. The tentative program is as follows.

Saturday, July 12th

1600-1800 Executive meeting with Councilors, Gage complex

1830-2100 Registration and Reception (food and beverages served), Gage complex

Sunday, July 13th

0800-1300 Registration, IRC Building

0830-0900 Welcome

0900-1230 Symposium 1. Chemical Ecology of Scolytidae

1330-1700 contributed papers (2 concurrent sessions)

1930-2100 poster session 1

Tuesday, July 15th

0830-1200 Symposium 3. Marine Chemical Ecology

1300-1430 Symposium 3 (contd.)

1430-1700 contributed papers (2 concurrent sessions)

1930-2100 poster session 2

Monday, July 14th

0830-1200 Symposium 2. Chemical Ecology of Blood-Feeding Arthropods

1300-1445 Symposium 2 (contd.)

1515-1630 contributed papers (2 concurrent sessions)

1630-1730 Annual Business Meeting of the ISCE

Wednesday, July 16th

0830-1000 Plenary Lectures (2)

1030-1115 ISCE Special Lecture

1115-1215 contributed papers (2 concurrent sessions)

1315-1700 contributed papers (2 concurrent sessions)

1830-2200 Banquet - UBC Museum of Anthropology

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ISCE**FROM THE EDITOR**

Membership in the Society entitles you to a significant discount on the subscription price of the [Journal of Chemical Ecology](#). [Instructions to authors](#) for submission of papers to the journal can be found at our ISCE Website: <http://www.cas.usf.edu/ISCE/>. The [Table of Contents](#) pages of recent issues are also listed there.

- [Membership applications](http://www.cas.usf.edu/ISCE/) and information about the Society can be downloaded from our Website. <http://www.cas.usf.edu/ISCE/>.
- Remember to send your news items for the next issue to the new Secretary. These should be received by September 15th.
- Make your campus room reservations for the Vancouver meeting immediately to insure you have a place.
- Please return your ballot for Vice-President and Secretary to John Romeo by July 15, 1997.

-John Romeo

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AWARDS

Dr. Walter Soares Leal, the first non-Japanese scientist to be tenured by the Ministry of Agriculture, Forestry, and Fisheries of Japan, is a recipient of the *1997 Award of the Japanese Society of Applied Entomology and Zoology*. The honor, given for the first time to a non-Japanese scientist, was in recognition for his outstanding work on "chemical communication of scarab beetles and its potential for pest management".



Dr. Leal has

elucidated the pheromones of a dozen economically important scarab species in Japan, of which seven formulations are already commercially available. His interest in understanding and exploring the basis of chemical communication to develop new strategies for pest control has moved his research activities into the molecular biology of chemical communication. Recently,

he received the highest individual grant in the Japanese system, the Shousaikisokenkyu (STA) grant for basic research.

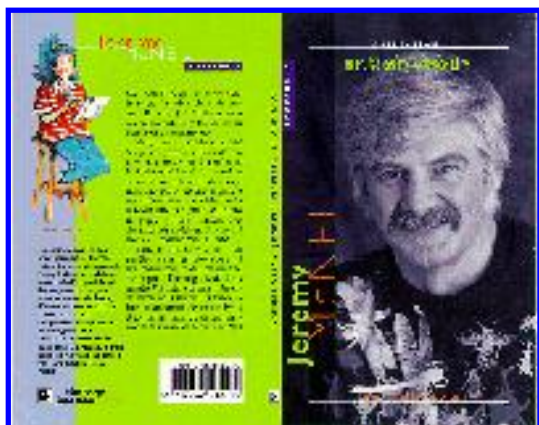
Dr. Leal holds more than 20 patents and has published over 50 papers related to chemical ecology. He has previously received awards from the Agricultural Chemical Society of Japan (Technology Prize) and the



Entomological Society of Brazil (ESB Award).



Dr. Jeremy McNeil, of Laval University, was recently awarded the *Gordin Kaplan Award* for the public awareness of Science in Canada. The award was given by the Canadian Federation of Biological Societies. Dr. McNeil has been working with children from kindergarten to high school for over 10 years. He visits local schools and talks about the similarities of insect and human activities.



He was recently the subject of a biography written for children. The book, one in a series in which careers are introduced to young people, follows previous biographies on a ballet dancer, an actor and actress, an Olympic gold medalist, a commentator, and an engineer in the NASA space program. *Jeremy McNeil - En Plein Coeur* is published by Héritage jeunesse.

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COLLABORATION WITH SOUTH AND CENTRAL AMERICA

At the ISCE meeting in Chile, 1995, there were strong discussions, led by Professor Hermann Niemayer of the University of Chile and with lively contributions at all levels, suggesting the Society contribute to an enhanced role from this region in chemical ecology. Since the Society does not have funds suitable for directly resourcing the necessary activities, it was agreed that under the then President, John Pickett, that a concerted effort should be made to increase the level of collaboration in Latin America. A great number of new interactions were planned at the Chile meeting with many centered around aphids and their predators and parasitoids. Much of this arose from the Workshop held in Santiago prior to the ISCE meeting, under the auspices of the International Foundation for Science. Although several of these new collaborative objectives also involved European partners present at the meeting, planned new collaborations extended to countries as far afield as Japan.

At the Prague meeting in 1996, a large contingent of scientists from Latin America were present. Among those were students Eduardo Fuentes Contreras and Ernesto Gianoli. We sincerely hope that such young participants in our meetings will retain the impetus for fostering further mutually beneficial links with Southern and Central American scientists.

John Pickett, F.R.S., Past-President

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POSITIONS

- **Postdoctoral Positions** in Japan. Looking for a **molecular biologist** to work on pheromone binding proteins and kinetics of pheromone degradation, and for a **chemical ecologist** to work on identification and synthesis of insect pheromones. The project is entitled "Development of Biorational Strategies for Pest Control based on Insect Chemical Communication". Ability to work independently in a multidisciplinary group is essential. Send your resume via e-mail (regular or as MS Word attachment) to: Walter Soares Leal, Head, Laboratory of Chemical Prospecting, National Institute of Sericultural and Entomological Science, University of Tsukuba, 1-2 Oashi, Tsukuba Ibaraki 305, Japan. Phone: +81-298-38-6213; Fax: +81-298-38-6028.
- **Postdoctoral & Graduate Positions** in Arizona. The Research Training Program in **Plant-Insect Interactions** at the University of Arizona invites applications for postdoctoral and graduate positions. The program, recently funded by NSF for 5 years, has as its focus the molecular mechanisms underlying the interactions whereby herbivorous insects identify host plants, and whereby host plants defend against such attack. Much work focuses on *Arabidopsis thaliana*. Specific projects include: biochemistry & genetics of epicuticular waxes; the phloem and molecular basis of plant defenses against homopterans; molecular characterization of the biosynthesis of phyosterols and their role in insect nutrition; comprehensive analysis of the plant P450 enzyme superfamily through reverse-genetics in *Arabidopsis*, and the olfactory basis of insect-plant interactions.
Applicants should send an introductory cover letter, statement of research accomplishments and aspirations, a CV, and names of 3 references to: Plant Insect Interdisciplinary Program, Attention David Galbraith, 303 Forbes Building, University of Arizona, Tucson, AZ 85721. Application deadline is June 2, 1997 **OR UNTIL POSITIONS ARE FILLED**. Applicants must be US citizens, nationals, or permanent residents of the US.

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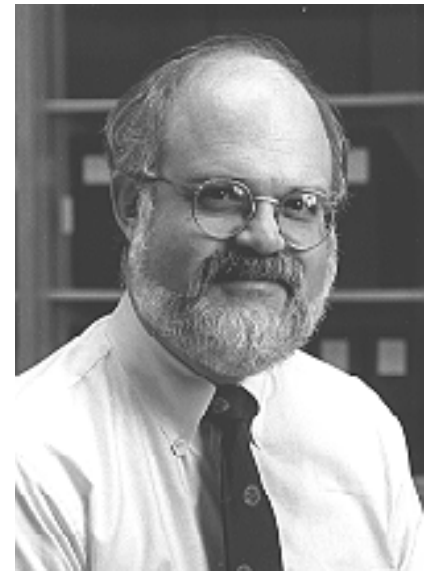
This is the last issue of the ISCE newsletter for which I will have responsibility. I began doing it in 1990 after the Quebec City meeting. I have enjoyed serving as your Secretary and having the opportunity to interact with so many members over the years. The Secretary position is unique in that the continuity of the Society is largely vested there. Working with a new President each year, assuring that the Society Constitution is followed, communicating with a worldwide membership via correspondence, e-mail, the newsletter, and now the Internet makes for exciting work! A cooperative membership and an energetic leadership has made all of this fun. I have learned a lot. Thanks for your trust and opportunity to have served. I will continue to work for the Society in my new role as JCE editor, and will ensure that a smooth transition of the Secretary function to Jocelyn Millar occurs.

John Romeo

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CANDIDATE FOR VICE PRESIDENT

John G. Hildebrand is Regents' Professor, Director of the Division of Neurobiology of the Arizona Research Laboratories, and Professor of Neurobiology, Biochemistry, Entomology, and Molecular & Cellular Biology at the University of Arizona. Since 1980 he has also held an appointment as an Associate in Behavioral Biology at the Harvard University Museum of Comparative Zoology. His A.B. is from Harvard University and his Ph.D. from Rockefeller University. He was a postdoctoral fellow of the Helen Hay Whitney Foundation and the A.P. Sloan Foundation in the Department of Neurobiology of Harvard Medical School.



Dr. Hildebrand's research combines molecular, anatomical, neurophysiological, and behavioral methods in a multidisciplinary approach to problems of the organization, physiology, functioning, and postembryonic development of the insect nervous system. Areas of principal interest include physiology, functional organization and development of the olfactory system; chemical ecology of moth-hostplant interactions; sensory control of feeding, mating, and oviposition behaviors; biochemistry of intercellular communication in the nervous system; and neurosecretory control of behavior. He has a long record of commitment to education. Over the past 25 years, he has served as research advisor and educational sponsor for 35 postdoctoral

associates, 8 doctoral students, and 38 undergraduate research students.

He has published over 125 papers, reviews and chapters and has edited 4 books He has received a number of awards including: Claude Pepper and MERIT Awards from the National Institutes of Health; the Givaudan Lectureship of the Association of Chemoreception Sciences; an Established Investigatorship of the American Heart Association; the R.H. Wright Award in Olfactory Research; the Max Planck Research Award of the Alexander von Humboldt Foundation; a Wellcome Visiting Professorship at Meharry Medical College; the Jan de Wilde Memorial Lectureship of the University of Wageningen (The Netherlands); the King Solomon Lectureship of the Hebrew University of Jerusalem; the Kenneth Roeder Memorial Lectureship of Tufts University; the Felix Santschi Lectureship of the University of Zurich; the IFF Award for Innovative Research in the Chemoreception Sciences; and the Founders; Memorial Award of the Entomological Society of America.

Dr. Hildebrand belongs to a number of Profession Societies and is an elected Fellow of the American Association for the Advancement of Science, the Royal Microscopical Society (UK), and the Royal Entomological Society (UK). He serves as President of the International Society of Neuroethology (1995-1998) and is President-Elect of the Society for Integrative and Comparative Biology. He has served on the editorial boards of a number of journals and currently is co-editor of the Journal of Comparative Physiology A. Dr. Hildebrand is a long time member of the ISCE. His Website can be found at: <http://www.neurobio.arizona.edu/arldn/hildebrand/index.html>.

CANDIDATE FOR SECRETARY

[Jocelyn G. Millar](#) is Associate Professor in the Department of Entomology at the University of California at Riverside. He was educated at Simon Fraser University in Burnaby, British Columbia, Canada receiving both a B.Sc. and Ph.D. under A.C. Oehlschlager. He did post-doctoral fellowship work with R. Milton Silverstein at SUNY, Syracuse.

Dr. Millar's research focuses on development of insect control strategies which minimize or eliminate pesticide usage. Particular interests include the semiochemical manipulation of insects and the development and implementation of biological control methods. Current projects include: identification and synthesis of sex pheromones of several lepidoptera and development of mating disruption methods; the study of semiochemicals involved in mosquito oviposition; development of improved attractants for Mediterranean fruit fly; studies on the Eucalyptus longhorned borer and its natural enemies, emphasizing the biology and ecology of the borer and its parasitoids. He has published more than 80 papers.



Jocelyn is a long-term member of the ISCE and also of the Entomological Society of America and the American Chemical Society. He currently co-editing a book on chemical ecology methodology

emphasizing bioassays.

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UPCOMING

- **Bioassay Methods in Natural Product Research.** Uppsala, Sweden. 24-27 August, 1997. Phytochemical Society of Europe. Deadline for paper submission, June. Contact: Prof. L. Bohlin, Division of Pharmacognosy, Biomedical Center, Uppsala University, Box 579, S-751 23, Uppsala. Phone: 46-18- 17 44 92; Fax 46-18- 50 91 01; e-mail: Lars.Bohlin@pharmacog.uu.se
- **2nd International Conference on Insects: Chemical, Physiological and Environmental Aspects.** Ladek-Zdrój, Poland. 14-18 September, 1997. Contact: Prof. D. Konopinska, Faculty of Chemistry, University of Wroclaw, ul. F. Jolio-Curie 14, 50-383 Wroclaw, Poland. Fax: +48 71 222 348; e-mail: dk@chem.uni.wroc.pl
- * **CORRECTION** *. **3rd Asia-Pacific Conference of Entomology.** Taichun, Taiwan. 16-22 November, 1997. Contact: Dr. Chingchang Yeh, Secretariat, National Chung Hsing University. Fax: 886-4-286-0368; e-mail: ccyeh@dragon.nchu.edu.tw
- **Entomological Society of America.** Las Vegas, Nevada, USA. 13-18 December, 1997. Contact: ESA National Office, 9301 Annapolis Road, Lanham, Maryland 20706-3115 USA. Phone: 310 731-4535
- **Third International Symposium on Molecular Insect Science.** Snowbird, Utah. 5-10 June, 1998. Abstract deadline: Feb 16, 1998. Contact: Center for Insect Science, 225 Life Sciences South, University of Arizona, Tucson, AZ 85721, USA. Fax: 520-621-2590; e-mail: insects@ccit.arizona.edu or the website: <http://www.arl.arizona.edu/cis/symposium>
- **Tenth International Symposium on Insect-Plant Relationships.** Oxford, England, 4-11 July, 1998. All sessions will be plenary with invited keynote speakers as well as selected oral and poster presentations. Contact: SIP 10, Oxford International, Summertown Pavilion, Middle Way, Oxford OX2 7LG, UK. Website: <http://ashmol.ox.ac.uk/oum/>
- **VIIth International Congress of Ecology.** Florence , Italy. 19-25 July, 1998. Contact: Conference Associates and Services International Ltd., BCPC, 4 Cavendish Square, London W1M 0BX, UK. Phone: +44 (0)171 4990900; Fax: +44 (0)171 6293233.
- **9th IUPAC International Congress Pesticide Chemistry.** London, UK. 2-7 August, 1998. Contact: Dr. John F. Gibson, Royal Society of Chemistry, Burlington House, London W1V 0BN,

UK. Phone: +44 (0)171 437 8656; Fax: +44 (0)171 734 1227.

- **EUCHEM Conference on Ecological Chemistry:** Chemical Communications. Sundsvall, Sweden. 12-15 August, 1998. Both basic and applied aspects will be covered. Topics include: Plant/herbivore interactions; Molecular aspects on chemoreception; Signal detection and structure elucidation; Newly discovered chemical communication systems in nature. Contact: The Swedish National Committee for Chemistry, Wallingatan 24 3 tr, SE-111 24 Stockholm. Phone: 46-8-41152 60; Fax: 46-8-10 66 78; e-mail: anna@chemsoc.se
- **6th European Congress of Entomology.** České Budějovice, Czech Republic. 21-27 August, 1998. Contact: Dr. Tomas Soldan, Institute of Entomology, AV CR, 331 Branisovska, 37005 C. Budějovice, Czech Republic. Phone: +42 38 40822; Fax: +42 38 43625; e-mail: soldan@entu.cas.cz
- **Biologically Active Polysaccharides.** Oslo, Norway. 13-16 November, 1998. Paper deadline, May, 1998. Contact: Prof. B.S. Paulsen, Farmasóytisk, avd c, Postboks 1068 - Blindern, 0316 Oslo, Norway. Phone: 47 2285 6572; Fax 47 2285 4402
- **XIII International Congress of the International Union for the Study of Social Insects (IUSSI).** Adilade, Australia. 2-Dec. 4-Jan 1999. Contact: Dr. Michael Schwarz, Biological Sciences, The Flinders University of South Australia, Bedford Park, SA 5042, Australia. Phone: +61 8 201 3729; Fax: +61 8 201 3015; website: <http://www.bio.flinders.edu.au/iussi/home.htm>

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