



NEWSLETTER

INTERNATIONAL SOCIETY OF CHEMICAL ECOLOGY

Vol. 8, No. 3, October, 1991

第9回 国際化学生態学会議 9th Annual ISCE Meeting - Kyoto, Japan, July 6-9, 1992

The 9th ISCE meeting will take place July 6-9, 1992 in Kyoto, Japan. There will be 6 symposia sessions, each with several invited speakers. Organizers and speakers confirmed to date are listed.

1. Indigenous Medicinal Plants

Organizer: K. Fuji (Kyoto University, Japan)
Invited Speakers: H. Itokawa (Tokyo Pharmaceutical University, Japan) K. Hostettmann (University of Lausanne, Switzerland)

2. Allelopathy *Organizer:* C.H. Chou (Institute of Botany, Taipei, R.O.C.) *Invited Speakers:* F.A. Einhellig (University of South Dakota, U.S.A.) J. Lovett (University of New England, Australia)

3. Chemical Ecology of the Aqueous Biosphere

Organizer: D. Daloz (Universite Libre de Bruxelles, Belgium) *Invited Speakers:* B.M. Olivera (University of Utah, U.S.A.) H. Nakamura (Hokkaido University, Japan)

4. Plenary Lectures on Natural Product Chemistry *Organizer:* K. Mori (University of Tokyo, Japan) *Invited Speakers:* K. Nakanishi (Columbia University, U.S.A.) A.B. Smith III (University of Pennsylvania, U.S.A.)

5. Chemical Ecology of Fruit Flies

Organizer: J.L. Nation (University of Florida, U.S.A.) *Invited Speakers:* K.H. Tan (University of Science, Malaysia) K.Y. Kaneshiro (University of Hawaii at Manoa, U.S.A.)

6. Utilization of Natural Products in Pest Control *Organizer:* W.S. Bowers (University of Arizona, U.S.A.) *Invited Speakers:* J.A. Pickett (Rothamsted Experimental Station, U.K.) M.B. Isman (University of British Columbia, Canada)

Each session will consist of presentations by invited speakers and contributed papers. Symposium talks will be 30 min. with 5 min. for discussion. Contributed papers will be 12 min. with 3 min. for discussion. Poster presentations will be grouped into symposia related themes in addition to the general area of chemical ecology.

Registration fees for ISCE members will be: \$100 (regular) and \$40 (student). The Organizing Committee has reserved rooms in the Holiday Inn Kyoto at a reduced rate. Single rooms will cost approximately 7500 yen and twin rooms 6500 per person. Room charges include tax and service charge, but not meals. University dormitories are not available. Registration details will be made available in the February newsletter.

From the Editor

Members are reminded that 1992 dues should be paid now. Send back the enclosed form to either Jim Nation in Gainesville or Martine Rowell-Rahier in Basel. Avoid the stigma of a future Blue Dot! The Society needs you.

Note that we are providing information for the 1992 annual meeting earlier than in the past. Start making your plans now for Japan. Registration information and abstract forms will be sent with the February newsletter.

Another appeal for member input for the newsletter. Let me know about honors, accomplishments, upcoming meetings, job opportunities, and whatever else you want shared with members.

- John Romeo

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ISCE BUSINESS MEETING MINUTES

Submitted by John T. Romeo

8TH ANNUAL MEETING, DIJON, FRANCE, JULY 1991

President David Seigler presided at the annual business meeting. Present were Vice President Jacques Pasteels, Treasurer Jim Nation, Secretary John Romeo, Journal of Chemical Ecology Editors John Simeone and Milt Silverstein, a number of councilors and about 35 members. David thanked The University of Bourgogne and our hosts Remy Brossut and Claude Everaerts and their local staff for the excellent job they did in organizing the meeting and making us all feel welcome.

Jim Nation reported on the fiscal status of the Society (see report) stating that we continue to be in good shape. This year our funds increased by about \$3000 overall. A grant of \$10,000 was received from the Rothschild Foundation to be used to assist scientists in developing countries. For the third time, the Suntory Foundation gave us money, \$2,500. A \$500 grant also was received from ICI Americas Inc. Jim pointed out that money from Life Memberships has not been used and continues to accrue interest. Membership dues finance the newsletter.

The problem of membership turnover was discussed. Our "active" membership, life members and those who pay their dues regularly, is significantly smaller than those who pay intermittently. We are reluctant to drop the delinquents from our mailing list and we will continue to appeal to these people to pay their dues so they can be reinstated as active members.

Member Keith Brown from Brazil talked about the need to establish informal networks between small groups, particularly in developing countries, and the society leadership. The purpose would be to expand the activities of the Society. He suggested that individuals be identified to serve as "links" to groups of scientists in certain countries. For example, packets of newsletters could be sent to contacts who would then distribute them to people we would not otherwise reach. The purpose is not necessarily to recruit new members, although that might be a potential benefit to the society, but rather to broaden our activities. (This idea was discussed further after the business meeting and names of several people were suggested with whom we will try out this idea.)

Secretary Romeo reminded members that address changes, new phone numbers, FAX numbers and BITNET numbers should be sent to the membership secretary, Martine Rowell-Rahier, in Switzerland. It is she who keeps the official membership list and who will prepare the new directory in 1992. Life members especially need to update their phone and FAX numbers. John stated that now he has been through the publishing procedures a few times and has most of the mechanical problems worked out he hopes the Newsletter will regularly appear in October, February and June. The hardest part of doing the newsletter is getting current, relevant and interesting information. He asked again for members to send notices of honors received (your own or a colleague's), meeting announcements, information about new publications, or anything else which might be appropriate for our newsletter.

A grant of \$10,000 was received from the Rothschild Foundation to be used to assist scientists in developing countries. For the third time, the Suntory Foundation gave us money, \$2,500. A \$500 grant also was received from ICI Americas Inc.

Councilor Shozo Takahashi reported on plans for the 9th annual meeting next year in Japan. The plans for this meeting are well in hand (see this newsletter) and the organizing committee has already lined up many of the speakers. Concerns about the closeness of the Entomological Meetings in China were expressed.

John Romeo reported on plans for the 10th annual meeting to be held on Sand Key, Clearwater Beach, Florida, August 1-4, 1993. A block of rooms at the Sheraton Sand Key resort has been reserved at bargain prices (\$76-84 per night for up to 4 people per room) and even students should find prices within their budgets. The Hotel sits on the beach and participants will have time for recreation as well as science. Four formal symposia are planned: Marine Chemical Ecology; Chemical Ecology in Tropical Systems; Physical Stress and Chemical Ecology (to include aspects of environmental stress and pollution); and a fourth to be determined. The Symposium Organizing Committee is being formed. A post-meeting trip to Costa Rica is being planned.

John Simeone reported that plans for the 1994 Syracuse meeting are not yet very far along, but that he and Milt Silverstein are looking forward to planning this in the coming year.

President Seigler announced that the Executive Committee with the concurrence of the councilors has agreed that the 1995 meeting will be held in Santiago, Chile. The meeting will be held in October, a departure from our normal procedure. The consensus of the leadership was that this meeting would be of special benefit to chemical ecologists in Latin America and that meeting at the unusual time was an experiment worth trying. Hermann Niemeyer will work with the Executive Committee in planning this meeting. Additionally, the EC and Councilors agreed to plan for a 1996 meeting in Czechoslovakia in the summer. Councilor Juraj Harmatha will be the local contact person in Prague.

Jacques Pasteels was introduced as the new ISCE President, and it was announced the Kenji Mori of Japan is the new elected Vice-President. Past-President Gunnar Bergstrom thanked the ISCE officers for their efforts and contributions to the Society. There being no further business, the meeting was adjourned.

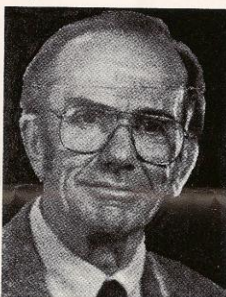
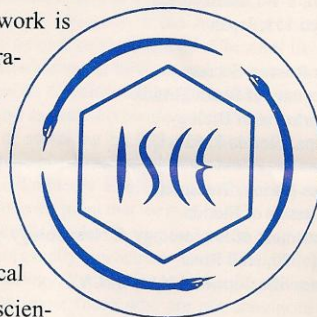
Au Revoir - DIJON

One hundred and seventy five people from 25 countries and 6 continents registered for the 1991 ISCE annual meeting held July 1-7 at the University of Bourgogne in Dijon, France. Remy Brossut and Claude Everaerts hosted the meeting which included 3 symposia on: Plant-Insect Interactions; Semiochemicals in Vertebrates; and Evolutionary Perspectives of Semiochemicals in Insects. There were a total of 75 oral papers and 60 poster presentations. Financial support for the meeting was provided by Conseil régional de Bourgogne and Groupe Fournier, Dijon.

The weather was glorious, the food and wine both abundant and delicious, the science stimulating, and the conviviality of the participants infectious. As usual, the unexpected helped make the meeting memorable and fun. Vignettes that need to be shared: A major power outage forced moving the meeting room to a new building where the strength of one's legs in climbing to the top was tested. Dr. Rothschild led the way; A past-president from Sweden and a councilor from Japan "got lost" in the wine caverns of Beaune, but used their knowledge of basic chemical ecology to find a way home; Host Remy Brossut's T-shirts were more interesting than Jeremy McNeil's; Student Lee Swain's neckties presented an honorable challenge to the notorious ones of President Seigler; The youthful contingent from Sweden confirmed that Sweden is the home of the ultimate party animal and that French rivers are not made for swimming; John Pickett provided evening joggers, non-joggers, and Swedish youth valuable information on carbohydrate loading at the local Forum; Dormitory residents discovered that having your waste paper basket emptied every day is a right not a privilege; 150 Participants learned that anyone can enjoy 3 and one half hours of continuous eating and drinking; CENSORED, CENSORED, CENSORED. A good time was had by all!

ISCE Silver Medals to Eisner and Meinwald

This year the Society chose to honor Thomas Eisner and Jerrold Meinwald with its distinguished Silver Medal Award. Eisner, professor of biology, and Meinwald, professor of chemistry, at Cornell University are pioneers in chemical ecology, and long-time members of ISCE. Their collaborative work spans many years and has concentrated on the ways insects use chemicals as defense substances and pheromones. The work is well-known to ISCE members, serving as a paragon of the best of interdisciplinary research. Meinwald is a Past-President, councilor, and chairman of the fund raising committee of ISCE. Eisner is the author of the ISCE Gothenburg resolution, an appeal for preservation of the chemical diversity of the tropical rain forests. Both men are admired for their scientific dedication, humanity, encouragement of young scientists, and musicianship. This honor, the highest the Society bestows, is yet another in a growing list of those they have received which includes the Gustavus John Esselen award for chemistry in the public interest given by the American Chemical Society and the Tyler Prize and gold medallion administered by the University of Southern California. The award was announced in Dijon, and the medals will be presented at the 9th annual meeting in Kyoto.



Eisner



Meinwald

Student Travel Awards

Once again, this year the ISCE was able to make travel grants to students to help defray costs of attending the annual meeting. The recipients of these grants at Dijon and the titles of their presentations were: Bernhard Speiser (Universitat Rheinsprung, Basel, Switzerland) "Effects of alkaloids, food availability and nutritional value on food choice in the generalist herbivorous snail *Ariana arbustorum*"; Cleclo Klitzke (Universidade Estadual de Campinas, Campinas, Brazil) "Chemical aspects of neotropical troidini/*Aristolochia* relationships"; John Glendinning (Florida State University, Tallahassee, Florida USA) "Ingestive responses of five congeneric species of mouse to diets laced with cardiac glycosides that differ in toxicity"; Peter Valeur (Lund University, Helgonavagen, Sweden) "Behaviour of male *Grapholita molesta* in overlapping pheromone plumes in a wind tunnel"; Junwei Zhu (Lund University, Helgonavagen, Sweden) "Chemical identification and electrophysiological analysis of sex pheromone components of two geometrid moths *Idaea aversata* and *I. straminata*".

December 31, 1990

INTERNATIONAL SOCIETY OF CHEMICAL ECOLOGY, INC.
1990 FINANCIAL REPORT TO MEMBERSHIP

JAMES L. NATION, TREASURER

INCOME

Registration fees, Quebec Meeting	\$15,750.00
Grants from supporting agencies	20,414.00
Membership dues	6,982.00
Member subscriptions - J. Chem. Ecol.	2,098.00
Interest on all funds in bank	2,325.76
Gain in exchange rate, transfer of funds from Sweden	948.93
TOTAL INCOME	\$48,518.69

EXPENSES

Travel grants - members, speakers for Quebec meeting	\$14,148.32
Payment - remaining costs Sweden meeting 1989	10,000.00
Quebec annual meeting, Aug 1990	13,880.24
Newsletter - postage, printing	3,126.33
Filing fee (State of Kentucky)	4.00
Member subscriptions - J. Chem. Ecol.	2,098.00
Refund of member overpayments	144.00
Bank charges, debits	136.48
Advance to Quebec meeting organizer	2,000.00
Miscellaneous	27.22
TOTAL EXPENSES	\$45,564.59

NET GAIN 1990 (INCOME LESS EXPENSES) \$ 2,954.10
TOTAL ASSETS 31 December 1990 \$65,168.74

Assets of the Society are in the form of cash or bank deposits. On 31 December 1990 they were allocated as follows.

Life Memberships - interest earning deposits	\$23,785.24
Grant funds - interest earning account	21,813.27
Checking account funds	17,160.10
Quebec meeting surplus (in Quebec)	410.13
BASF grant (in W. Francke account)	2,000.00
	\$65,168.74

New Books



A book entitled *Insect Chemical Ecology*, the proceedings of a conference held in Tabor, Czechoslovakia 12-18 August 1990 has been published recently. The book was co-edited by Ivan Hrdy, Glenn Prestwich, Jan Vrkoc, Jerrold Meinwald, Juraj Harmatha, Clive Henrick and Miroslav Romanuk. Prestwich, Meinwald and Harmatha are members of ISCE. The book is divided into three sections: Chemical communication in insects; Chemical insect-plant relationships; and Prospects of practical application of pheromones and juvenoids. The volume includes 14 comprehensive lectures and 61 papers and texts of posters presented at the conference. The book is especially interesting in that it includes papers by individuals from regions previously isolated by political and language barriers (Central and Eastern Europe). The book is available from SPB Academic Publishing, PO Box 97747, 2509 G.C. The Hague, The Netherlands.

UPCOMING MEETINGS

7th Asian Symposium on Medicinal Plants, Spices, and Other Natural Products. Metro Manila, Philippines. 2-7 February 1992. Contact: ASOMPS VII Secretariat, Marine Science Institute, University of the Philippines, PO Box 1, Diliman, Q.C. 1101, Philippines.

1st National Symposium on "Allelopathy In Agroecosystems (Agriculture & Forestry)". Indian society of Allelopathy. Haryana, India. 12-14 February 1992. Contact: S.S. Narwal, Haryana Agricultural University, Hisar-125004, Haryana, India.

8th International Symposium on Insect-Plant Relationships. Wageningen, The Netherlands. 9-13 March 1992. Contact: IAC Sect. OCC, PO Box 88, 6700 AB Wageningen, The Netherlands.

International Society of Chemical Ecology. Kyoto, Japan, 6-9 July 1992. Contact: Dr. Shozo Takahashi, Kyoto University, Pesticide Research Institute, Kyoto 606, Japan.

Third International Legume Conference. Royal Botanic Gardens, Kew, England. 12-16 July 1992. "Review of Evolutionary processes". Contact: Dr. Roger Polhill, RBG, Kew, Richmond, Surrey, TW9 3AB, England.

Phytochemical Society of North America. Miami, Florida. 8-12 August 1992. Phytochemical Potential of Tropical Plants. Contact: Dr. Kelsey Downum, Florida International University, Miami, FL, 33199, USA. Telephone 305/348-3419.

PRESIDENT'S MESSAGE

"...No longer young, but still beautiful..."

Chemical Ecology and the I.S.C.E. are in good shape. This summer we held our 8th annual meeting in Dijon, and, like the preceding ones, it had its own special character. It attracted a large number of new members and non-members, and those attending our meeting for the first time spontaneously expressed enthusiasm over the high quality of the presentations and the spirit of conviviality. Many thanks indeed to the organizers, Remy Brossut, Claude Everaerts and their colleagues. The emphasis during the meeting was on semiochemicals in vertebrates and on insect-plant interactions. Our next meeting in Kyoto is already well-planned by Professor Shozo Takahashi, and the preliminary program includes a very different set of exciting topics. Moreover, future Annual Meetings are planned ahead for four more years (Tampa 1993, Syracuse 1994, Chili 1995, Czechoslovakia, 1996). Being able to organize successful meetings on an annual basis for eight years and to plan ahead for five more is indeed an expression of vitality!

The excellent shape of the Society is, of course, due to all the former Presidents who deserve our warm gratitude. They were very active in raising funds, in increasing our visibility and improving our image with the corporate, academic and governmental worlds. Moreover, an increasing concern for the need to support research on Chemical Ecology in the tropics and in developing countries, as well as for defending the cause of biodiversity was recognized. I will not explicitly name all those involved, but everybody will recognize who they are. Of course, the daily life of the society is more the result of the activity of the continuing officers than of the ephemeral Presidents, and we are particularly indebted to Jim Nation, John Romeo and Martine Rowell-Rahier.

If the Society is flourishing, how is the field itself? Complaints have been formulated concerning the fact that certain topics seem excluded or are under-represented in today's Chemical Ecology. For example, not enough behavior, not enough ecology, not enough evolution, not enough chemistry... Great! As long as there is "not enough something" in the field, it means there is a demand, and the future of Chemical Ecology is insured. Strangely, it has been expressed that Chemical Ecology is not an integral part of Ecology. Chemical Ecology is concerned with the understanding of how natural products mediate interactions between organisms. Considerable progress has been made in the tropics in areas as diverse as plant-herbivore interactions, reproduction within populations, or searching behavior in parasitoids. Such research has led to a better general understanding of the biology of natural populations, and this is undoubtedly Ecology! In some cases, the understanding has advanced to the point that we may hope to manipulate populations for our own benefit by developing integrated programs of control. Endocrinology is not exactly biochemistry or molecular biology. It is certainly not neurophysiology. Yet nobody would argue that it is not physiology. I would like to invite those who are not convinced that Chemical Ecology is part of Ecology to attend one of our annual meetings.

Chemical Ecology was born as a specific discipline in the United States in the early seventies. Since then, its audience has grown constantly and its influence expanded, especially in Europe. Indeed, all indications are that it is in excellent shape.

- Jacques Pasteels

New Councilors

President Jacques Pasteels has announced the appointment of 5 new ISCE councilors to serve from 1991-1994. The five are: Gerald Rosenthal, School of Biological Sciences, University of Kentucky, Lexington, Kentucky, USA; Louis Schoonhoven, Department of Entomology, Agricultural University, Wageningen, The Netherlands; Thomas Hartmann, Institut für Pharmazeutische Biologie, Technischen Universität Braunschweig, Braunschweig, Germany; Tatsuji Chuman, Japan Tobacco Inc., Shinagawa, Tokyo, Japan; and David Seigler, Department of Plant Biology, University of Illinois, Urbana, Illinois, USA.

These councilors replace outgoing councilors Yoko Naya, Japan, Michael Boppre, Germany, David Jones, USA, Martine Rowell-Rahier, Switzerland, and Peter Waterman, Great Britain. The outgoing councilors were recognized at the annual meeting in Dijon and presented certificates of appreciation by the President.

ANNOUNCEMENTS

A course entitled "Seagrasses: from the molecule to the ecosystem - Ecophysiology and molecular biology of seagrasses" will be offered at the Benthos Ecology Laboratory, Ischia (Bay of Naples), Italy. 24 August-30 September 1992. Information: Jean Gilder, Congressi snc, via G. Quagliariello 35/E, I-80131 Napoli, Italy. FAX +39 81 546 3781.

A Post-Doctoral Research Position in the laboratory of Dr. Loverine P. Taylor to participate in molecular and biochemical studies of pollen development is available. Emphasis is on the identification of the flavonoid-dependent mechanism which controls pollen germination in petunia and maize. Contact: Dr. Taylor, Horticulture Dept/Johnson Hall, Washington State University, Pullman, WA 99164-6414. Telephone 509/335-3612.

The Mary Ingraham Bunting Institute of Radcliffe College has a Science Scholars Fellowship Program for women in 1992-93. Eight fellowships of \$29,000 plus research allowance are available to women who have held a Ph.D for at least 2 years. A variety of disciplines including molecular and cell biology, biochemistry, neural sciences, and oceanography are supported. Contact: Bunting Institute, 34 Concord Ave, Cambridge, MA 02136. Telephone 617/495-8212.

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