



# NEWSLETTER

INTERNATIONAL SOCIETY OF CHEMICAL ECOLOGY

Vol. 10, No. 3, October, 1993

## 11th Annual ISCE Meeting

Syracuse, New York, USA -- June 4-8, 1994

It is 25 years since the pioneering meeting on Chemical Ecology held in Syracuse, New York in 1968 which was organized by John Simeone and Ernest Sondheimer. The 11th ISCE meeting will take place June 4-8, 1994 on the campus of Syracuse University. There will be 5 symposia sessions and a Plenary Session. Organizers and participants confirmed to date are listed.

**1. Plant-Herbivore Interactions: Quo Vadimus?** Organizers: Dietland Mueller-Schwarze and Jack Schultz. Participants: Ian T. Baldwin (State University of New York Buffalo) John P. Bryant (University of Alaska) Frederick D. Provenza (Utah State University) Jack Schultz (Pennsylvania State University)

**2. Chemical Prospecting** Organizers: Thomas Eisner and Jerrold Meinwald. Participants: Paul Anderson (Merck, Sharp, and Dohme) Thomas Eisner (Cornell University) Prabhavathi Fernandes (Bristol-Myers Squibb) Francesca Grifo (National Institutes of Health) Janice Thompson (CalBio Marine Technologies, Inc.)

**3. Chemical Ecology of Forest Insects** Organizers: Stephen Teale and David Wood. Participants: Witko Francke (University of

Hamburg) Steven Seybold (University of Nevada) Stephen Teale (State University of New York College of Environmental Sciences & Forestry) Desiree Vanderwel (University of Winnipeg)

**4. Chemical Ecology and Chemical Analysis: Advances in Detection and Identification** Organizers: Wendell Roelofs and Fran Webster. Participants: Terry Acree (Cornell University) Ring Carde (University of Massachusetts) Richard Durst (Cornell University) Susan Pachapski (Bruker, Inc.) Scott Smedley (Cornell University)

**5. Interspecific Chemical Recognition** Organizer: Alan Renwick. Participants: Jella Atema (Boston University Marine Program) Joe Lewis (U.S. Department of Agriculture) Erich Staedler (Swiss Federal Research Station) Olen Yoder (Cornell University)

**Plenary Session** May Berenbaum (University of Illinois) Rodrigo Gamez (Instituto Nacional de Biodiversidad, Costa Rica)

Syracuse is located at the east end of the Finger Lakes region of New York State. It is less than an hour from both of Cornell's campuses in Ithaca and Geneva. Syracuse is serviced by an international airport as well as by Amtrak trains.

Day trips to the Adirondack Mountains, the Thousand Islands region (St. Lawrence River) and Cooperstown (Baseball Hall of Fame) are possible.

Registration will be on Saturday, June 4th and the program will begin on Sunday, June 5th. Accommodations in dormitory rooms will be available and will include breakfast and lunch. There are also several hotels in the area. Abstract and registration forms will be sent with the February newsletter. Contact person for the meeting is: Fran Webster, Department of Chemistry, SUNY ESF, Syracuse, New York 13210. Phone: 315-470-6863 Fax: 315-470-6856 Internet: fwebster@suvvm.acs.syr.edu

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### From the Editor

Your dues for 1994 should be paid now. Send back the enclosed form to either Jim Nation in Gainesville, Florida or to Martine Rowell-Rahier in Basel, Switzerland. Remember to update your address changes, phone and fax numbers, and e-mail addresses.

Send your Silver Medal nominations for 1995 to Jeremy McNeil in Quebec.

PLEASE, send something to me for **your** newsletter!

- John Romeo



## ISCE BUSINESS MEETING MINUTES

### 10TH ANNUAL MEETING,

CLEARWATER BEACH, FLORIDA, AUGUST 1993

Submitted by John T. Romeo

The annual business meeting of the Society was called to order at 5:30 PM on Tuesday, August 3, 1993 by President Kenji Mori. Present were: Vice President, William Fenical, Secretary, John Romeo, Treasurer, Jim Nation, Past-President, Jacques Pasteels, several councilors and about 55 members.

Jim Nation gave the Treasurer's report and distributed copies of a financial sheet (see this newsletter). The treasury has increased about \$36,000 since Kyoto. President Kenji Mori raised about \$32,000 from Japanese firms and an additional \$4,000 was raised by Wittko Francke in Germany. Jim projects that the treasury will surpass 100K by the end of 1993. The major costs of the Society are: the newsletter, published 3x a year; the membership directory, published at irregular intervals; and the cost of student travel support to meetings. The Society is in excellent financial shape. The books were audited at this meeting by Jeremy McNeil and John Pickett and found to be correct.

John Romeo gave a combined Secretary's report and annual meeting report. 185 people registered for the Florida meeting. The meeting was heavily subsidized by the University of South Florida at Tampa, and supported also by the U.S. Department of Agriculture, The George W. Jenkins, Foundation, Inc. (Publix SuperMarkets, Florida); the ISK Mountain View Research Center, Inc., Sunnyvale, CA; and Leigh Bohne Associates, Inc., Tampa, Florida. About \$11,000 was raised to finance the meeting and there should be little, if any, cost to the Society.

Newsletter costs have increased, but remain modest. We are able to publish it 3x a year for about \$4,500. John gets little feedback from members about the newsletter, and again he appealed for suggestions and contributions. Anyone needing extra copies need only request them. He reminded people that changes in addresses, phone and fax numbers, and e-mail addresses should be sent to the Treasurer, who keeps the mailing list current.

Kenji Mori thanked Jim and John for their work for the Society. He reported on his trip to Thailand with Wittko Francke to present the Society medal to the King of Thailand. The trip was made at no cost to the Society and the presentation to the King was made on January 26, 1993.

President Mori talked briefly about plans for future meetings. Plans for Syracuse, 1994 are completed (page 1). We will meet in Chile in 1994. That meeting will be hosted by Hermann Niemeyer. In 1995, we will meet in Prague, Czech Republic. Juraj Harmatha is the organizer. Plans for future meetings are being worked on by the Executive Committee and the Councilors. Both Brasil and Kenya have been offered as sites for future meetings. The importance of alternating on a regular basis between North America and Europe, where the bulk of the membership is, was noted.

President Mori announced that the Executive Committee and the Councilors has decided to accept an offer from Birkhauser Verlag to make the journal "Chemoecology" available to ISCE members at a reduced price. The cost will be reduced from \$198 to \$99. The "Journal of Chemical Ecology" remains the official Society journal. The 19th volume of that journal is nearly complete. There is currently about a 7 month gap between submission and publication. The Terpenoid Symposium from the Florida meeting will be published in the journal.

President Elect Bill Fenical announced the Silver Medal Awardees for 1994. He explained the procedures whereby input is received from the executive and councilors. The 1994 awardees are Gerald Rosenthal and Dan Janzen. These awards will be presented next year in Syracuse. The 1993 Silver Medal Award will be presented to Professor Jeffrey Harborne at the banquet this evening.

The winners of the student travel awards were announced (see article this newsletter). The committee, chaired by Dr. Nahrstedt, made awards totaling \$3,500. This practice of supporting the travel of students to annual meetings will continue.

The Society election results were announced. Jememy McNeil is the new Vice President and John Romeo continues as Secretary for another 3 years.

William Fenical was introduced as the new President. He said he was proud to accept the office, happy about the Society's growth, and he thanked Kenji Mori for his efforts on behalf of the ISCE.

There being no further business, the meeting was adjourned at 6:00 PM.

## New Councilors

President William Fenical has announced the appointment of 4 new ISCE Councilors to serve 3-year terms from 1993-1996. The four are: Heather McAuslane, University of Florida, USA; Mark Hay, University of North Carolina, USA; Roberto Trigo, University of Campinas, Brazil; and Kenji Mori, University of Tokyo, Japan. Councilors act in an advisory capacity to the Executive Committee in formulating policy. They are selected to represent various fields of chemical ecology. These 4 replace outgoing councilors John Pickett, Wittko Francke, Juraj Harmatha, and Patrick Confalone.

## Student Travel Award Winners

This year the ISCE continued the long-standing practice of encouraging young scientists to present their work at annual meetings. Seven grants totaling \$3,500 were made for travel to Tampa, Florida. The recipients of these grants and the titles of their presentations are:

**Jorg D. Hardege** Gatty Marine Laboratory, St. Andrews University, Scotland, "Environmental and pheromonal control of spawning and reproductive behaviour of marine polychaetes".

**Jose Roberto Trigo**, Departamento de Zoologia, Instituto de Biologia & Instituto de Quimica, UNICAMP, Campinas, Brazil, "Stereochemical inversion of pyrrolizidine alkaloids by ithomiine butterflies: origins of PA use by Lepidoptera".

**Arno Kunze**, Julius-von-Sachs- Institut fur Biowissenschaften, Wurzburg, Germany, "Toxicification of secondary products by the detoxification system: chromene metabolism in Spodoptera littoralis".

**Rufus Isaacs**, Biology Department, Imperial College, Berkshire, United Kingdom, "Electroantennogram and olfactometer responses of aphid parasitoids to nepetalactone, a component of aphid sex pheromones".

**Guido Holzkamp**, Institut fur Pharmazeutische Biologie und Phytochemie, Wilhelms University, Muenster, Germany, "Aldoximes and n-hydroxyamino acids are intermediates in the biosynthesis of the cyanogenic glucosides in intact larvae of the moth *Zygaena trifolii*".

**Ruth R. do Nascimento**, Department of Chemistry, Keele University, Keele, England, "Behavioural test and chemical identification of the trail pheromone of *Acromyrmex subterraneus subterraneus* forel".

**Mohamed Meskali**, CNRA, LNB8, Marseille, France, "Transfer between workers of an exogenous hydrocarbon topically deposited on the cuticle in the ant *Camponotus vagus scop.*: role of the post-pharyngeal glands in intracolony chemical homogeneity".

The ISCE will make awards available for travel to the 1994 meeting in Syracuse, New York, USA. Details regarding the application for these grants will be published in the February newsletter.



One hundred and eighty five scientists from 28 countries and all 7 continents (including Antarctica) gathered at Clearwater Beach, Florida for the 10th Annual Meeting. The most "international" ISCE meeting ever took place at the Sheraton Sand Key Resort where participants and their significant others enjoyed the beach setting and relaxed atmosphere. Four symposia, 5 oral contributed paper sessions, and a poster session resulted in 119 total papers being given. The scientific sessions were of an extremely high caliber with several "fresh" topics and several new individuals participating for the first time. Interactions among people representing many diverse disciplines took place in the usual style distinctive of our Society. The Sheraton Hotel's efficient staff made host John Romeo's job much easier, and there seemed to be few glitches.

Among the Highlights. Things began Saturday evening with a welcome

# Reflections -Florida 93

reception on the beach. Food and spirits were provided, a Jimmy Buffet clone entertained, the weather cooperated, and a perfect sunset capped the festivities. Four days of glorious weather with many outside distractions followed, but attendance never slackened at the sessions. Although with temperatures seemingly near freezing in the conference rooms, a few required heat therapy poolside. The St. Mary's college contingent demonstrated that student enthusiasm is vital to Society health. Jerry McClure set a Society record by including 16 puns and 6 limericks in his address. On Tuesday evening the Sheraton staff set its own record by transforming the Beach Gulf Room, where the pheromone session ran

overtime by 45 minutes, into a banquet hall in little over one half hour. During the banquet, a calypso band kept things lively and stopped only long enough for President Kenji Mori to present the Silver Medal Award to Professor Jeffrey Harborne, certificates to outgoing counselors Juraj Harmatha, Wittko

Francke, John Pickett, Patrick Confalone (in absentia), checks to student travel award recipients, the Service Medal to John Romeo, and thank-you gifts to the officers. John Romeo thanked the other symposia organizers and his local helpers, persuaded the Past-Presidents to take center stage, and less successfully tried to encourage dancing.

Breezy trivia! Nine of our 10 Presidents attended the meeting. Eight of them posed for a "formal" portrait at the banquet! The committee to judge the ugliest shorts could not agree between Murray Blum, Kenji Mori, and David Carlson. John Pickett, however, won the ugliest bathing suit award. Junji Takabayashi made the most dramatic fashion statement with his backwards baseball cap. Second place in that category went to Jerrold Meinwald's bowtie. At least 3 people saw the "green flash". Cecilia Labbe and Diane TeStrake didn't. Young Simon Rowell-Rahier made his jazz debut on stage. Arno Kunze saw every tourist attraction within a 100 mile radius of Clearwater. The Society has at least 20 members who can dance and did. John Pickett's trumpet playing on the beach kept the night-feeding sharks off shore and insured also that the sun would rise.

Thanks for coming everybody. Bring those sunshades and frisbees to Syracuse. The wine will be better there!



Past Presidents of ISCE, left to right, Lincoln Brower-1, Jean Langenheim-3, David Jones-4, Wittko Francke-6, David Seigler-7, Jacques Pasteels-8, Kenji Mori-9, William Fenical-10.

## P o s t - M e e t i n g E c o t o u r i s m

Seventeen chemical ecologists traveled to Costa Rica for 7 days of ecotourism following the annual meeting in Tampa. The tour arranged by John Romeo in conjunction with Holbrook Travel was a delight to all participants. With an expert Costa Rican guide, Maria Rojas, the group traveled around in a 20 passenger minivan and visited a cloud forest in the Monteverde Preserve, the dry forest in Santa Rosa National Park in Guanacaste, and tropical lowland forests at La Selva Biological Research Station and Selva Verde preserve. The group hiked, photographed, repeatedly dined on sea bass and rice and beans, put Salsa on everything, educated each other, and absorbed some of the beauty and culture of the country. The sight of hordes of hummingbirds, troops of howler monkeys, sloths, an incredible variety of birdlife including toucans and masked falcons, poison arrow toads, and more species of plants than anyone could remember left impressions and memories for a lifetime. Everyone got wet, muddy, bitten, muscle sore, jounced around, saturated with jokes, and enjoyed the camaraderie. The lingering and sobering picture is that even in Costa Rica, a country which has made significant strides in park development and conservation, the efforts are not great enough. Massive tourism and more bananas are in the future.



# News From the Treasurer

The Society continues to grow financially, and presently has net assets slightly in excess of \$100,000. Our membership remains more static at about 400 active members, consisting of 96 Life Members and 316 members who paid dues in 1993. In 1993 we recruited about 45 new members, but many former members from 1990, '91 and '92 did not respond to several dues reminders. Dues have remained at \$25 for regular members (and less for other categories) since the 1987 Hull meeting. Postage, meanwhile, one of our ongoing expenses, has gone up considerably in that interval. The price of the Journal of Chemical Ecology to members has nearly doubled in that period. Membership in the Society remains a bargain.

It may be an advantage for members, especially non-North Americans, who have more costs associated with purchasing a check or money order, to pay dues for 2 or even 3 years. I think with our new mailing system, where we put the date for which your dues are paid on the mailing label, we can keep that straight!

**THE FOLLOWING IS THE REPORT TO MEMBERSHIP, ANNUAL MEETING, AUGUST 1993**  
**BY JAMES L. NATION, TREASURER**

<b>December 31, 1992</b>			
<b>INCOME</b>	<b>1990</b>	<b>1991</b>	<b>1992</b>
Annual Meeting	\$15,750.00	48,245.70	72,735.78
Grants from supporting agencies	20,414.00	13,000.00	23,445.00
Membership dues	6,982.00	7,068.60	11,459.00
Member subscriptions to J. Chem. Ecol.	2,098.00	5,729.00	7,657.00
Interest on all funds in bank	2,325.76	3,050.69	2,688.45
Gain in exchange rate, transfer of funds from Sweden	948.93		
Refund, Ste. Foy Meeting		2,031.50	
Refund, Dijon Meeting		800.00	
Old check never cashed		500.00	
Bonus to open bank account		25.00	
<b>TOTAL INCOME</b>	<b>\$48,518.69</b>	<b>80,450.49</b>	<b>117,985.23</b>
<b>EXPENSES</b>			
Travel grants to members, speakers to attend the annual meeting	\$14,148.32	7,258.79	43,575.69
Payment of remaining costs of meeting in Sweden, 1989	10,000.00		
Annual meeting	13,880.24	48,245.70	38,733.93
Newsletters printing	3,126.33	4,497.44	4,384.97
Postage			1,565.59
Filing fee (State of Kentucky)	4.00	4.00	4.00
Member subscriptions to J. Chem. Ecol.	2,098.00	5,729.00	7,657.00
Refund of member overpayments	144.00	650.00	
Bank charges, debits	136.48	67.00	230.00
ISCE Advance/Support to annual meeting	2,000.00	6,000.00	3,030.00
Miscellaneous	27.22		
Office Supplies (stamps, labels, copying)		120.77	13.05
Striking of medals awarded to members		400.00	
<b>TOTAL EXPENSES</b>	<b>\$45,564.59</b>	<b>72,972.70</b>	<b>99,194.23</b>
<b>NET ASSETS</b>			
The assets of the Society are in the form of cash or bank deposits, as follows:	<b>ASSETS AT END OF YEAR</b>		
	<b>1990</b>	<b>1991</b>	<b>1992</b>
Life Memberships -			
in interest earning deposits	\$23,785.24	25,297.42	26,834.50
Grant funds - in interest earning account	21,813.27	40,876.78	54,993.90
Checking account funds	17,160.10	6,472.33	9,609.13
Surplus, Quebec meeting (in Quebec at end 1990)	410.13		
Grant from BASF (in account with W. Francke at end of 1990)	2,000.00		
<b>TOTAL ASSETS, END OF YEAR</b>	<b>\$65,168.74</b>	<b>72,646.53</b>	<b>91,437.53</b>

## UPCOMING MEETINGS

**IV International Symposium on Pest Ants and XI Myrmecology Meeting.** Belo Horizonte, Brasil. 21-24 November, 1993. For additional information. Universidade Federal de Vicosa, 36570-000, Vicosa, Minas Gerais, Brasil. Phone: 031-899-2538 Fax 031-891-2166.

**1st International Scientist and Technologist Congress & Convention.** Singapore. 1-5 November, 1993. For additional information. Int'l Visitor & Convention Centre, 150 Orchard Road, Orchard Plaza, #08-09, Singapore 0923. Phone: 736-1101. Fax: 235-3156/235-3356

**Phytochemical Society of North America.** Mexico City, Mexico. 14-19 August, 1994. "Phytochemistry of Medicinal Plants". Contact: Dr. John Arnason, Department of Biology, University of Ottawa, Ottawa, Ontario, Canada, K1N 6N5. Phone: 613-564-3458 Fax: 613-564-9295.

**7th International Symposium on Chemical Signals in Vertebrates.** Tübingen, Germany. 18-22, July, 1994. Contact: Dr. Raimund Apfelbach, Dept. Zoology, Tübingen University, Auf der Morgenstelle 28, 72076, Tübingen, Germany. Phone: 49-7071-292624 Fax: 49-7071-294634

**Chemical Communication in Vertebrates and Invertebrates: Nature, Neuroregulation and Molecular Receptors of Pheromones.** Aussois, France. 10-14 October, 1994. Contact: Jean-Luc Clement. Lab de Neurobiologie du CNRS - LNB 31, ch Joseph-Aiguier (F), 13402 Marseille cedex 20, France. Phone: 33 91 16 41 79 Fax: 33 91 22 58 50.

**Forest Canopies: Ecology, Biodiversity and Conservation.** Sarasota, Florida, USA. 9-13 November, 1994. For additional information. Canopy Symposium, Marie Selby Botanical Gardens, 811 South Palm Ave., Sarasota, FL 34236, USA.

**Gordon Conference on Marine Natural Products.** 20-25 February, 1994. Doubletree Inn, Ventura, CA, USA. Contact: William Fenical



## PRESIDENT'S MESSAGE

First, let me say that I am most pleased and honored to take on the presidency of ISCE for the next year. Although the time will pass quickly, I hope to make significant contributions to strengthen and support the development of the society. It will be a pleasure to work with all of you who have contributed so conscientiously to develop the ISCE into a world-class organization.

I should begin by passing along the Society's most sincere thanks to past president Kenji Mori. Kenji dedicated himself to the society and made major contributions over the past year. In particular, Kenji was especially successful with his fund raising campaign. Second, congratulations are in order for Jeremy McNeil who was elected, with enthusiasm, as vice president, and in the subsequent year, president of ISCE.

Jeremy's most important activity for this year will be to chair the committee of ISCE leadership who will decide on the winner of the 1995 ISCE Silver Medal Award. In this regard, please send you nominations for the award to Jeremy at this address:

Dr. Jeremy McNeil  
Département de Biologie  
Université Laval  
Quebec, P.Q.  
CANADA, G1K 7P4

Also, we are happy to report that John Romeo was re-elected secretary and that Jim Nation continues as treasurer. Everyone understands that these are the most important functions within the society, and that John and Jim have been responsible for the smooth operation of ISCE. Our thanks for continuing to accept those important responsibilities.

This year, it was a pleasure to chair the 1994 ISCE Silver Medal Award committee. We received numerous excellent nominations from throughout the ISCE membership, and although there were many deserving nominees, the 1994 Silver Medal will be awarded jointly to Gerald Rosenthal and Daniel Janzen. Drs. Rosenthal and Janzen have been seminal figures in chemical ecology, and it is a pleasure to announce this selection. The award will be formally presented during the 1994 meeting in Syracuse.

I am also pleased to report the appointment of four new councilors to the ISCE (see article this newsletter). As you know, the councilors are the major advisory body for the Society. We welcome them and appreciate their willingness to serve.

I know all of you who participated in the 1993 10th Annual Meeting in Tampa join me in congratulating John Romeo for an absolutely superb event. The program, with its symposia and contributed papers, was excellent, the hotel was great and the social events were wonderfully worked out. Although John assures me that there were

many small problems, they were not visible to the participants who thoroughly enjoyed their stay. I was impressed with the growing numbers of students who participated. Given the importance of student involvement, I hope we can emphasize a more active role for our students in future meetings. Accordingly, and on the suggestion of our new chair of the Student Awards Committee, Nancy McKeever Targett, I will move to increase our travel grant support for student participation.

Lastly, as the incoming president of ISCE, it seems appropriate that I voice some opinions regarding the future of chemical ecology. Obviously, my comments are linked to future funding for chemical ecology, and maintaining the prominence of this field. In addition, they reflect the particular situation we face within the US, in which science is in a period of re-examination.

Chemical ecology is an exciting area of study which has changed the way in which science views Nature. The evolution of our field has been dramatic and the foundation of the ISCE is sound and unquestioned. In the US, there is a growing opinion which emphasizes the need for science to address societal problems. We are in a period of scientific inquiry in which academic and industrial goals have begun to coalesce. Our national funding agencies have engaged in a long dialog and concluded that elements of applied research should occupy a significant component of their programs. In a consistent fashion, US industries are being asked to accept more of the responsibilities for funding university-based research. Indeed, there is a new era of cooperation and technology transfer between the industrial and academic sectors.

The question to be addressed, particularly within the US, is just how applied should chemical ecology research become? My feeling is that there is a very fine line between pure, basic research and applied science. Frequently, only having a well justified applied goal in mind is sufficient to warrant the performance of highly basic research. There are many of us who feel that chemical ecology should be an academic subject, the directions of which should not be influenced by pressures from applied disciplines. This is an honorable and respected position. However, the alterna-

## Should there be an *EXPANDED* *ROLE* for chemical ecology?

tive view, that chemical ecology provides the foundation for applied development, should also be respected. As has been demonstrated by many of our members, chemical ecology has a very strong role to play in discussions of global biodiversity and, to use Tom Eisner's most appropriate term, "chemical prospecting." Perhaps we should evaluate our involvement in these activities.

In my opinion, some of the most important, commercially relevant discoveries have been made by chemical ecologists who appreciate the potential utility of their research. Drug and agrochemical development from natural sources, for example, has been advanced as a major rationale for preserving the biodiversity of endangered rain forests and diverse terrestrial habitats. Chemical ecologists should play a major role in formulating approaches and guiding this activity. There are new programs in the US, addressing these goals, which offer collaborative research opportunities between scientists in the US and in developing countries.

As is obvious, I favor the involvement of chemical ecologists in divergent areas of basic and applied research. As the International Society of Chemical Ecology adapts to changing times, we should be well aware of the important role we can play.

Having provided you with "food for thought," needless to say, I would be delighted to hear your thoughts on this important issue. Please don't hesitate to provide them.

I wish you all a very successful year and hope to see you once again in Syracuse.

William Fenical



## Rosenthal and Janzen To Be Honored - Silver Medal Awards - 1994

President William Fenical announced that the ISCE Silver Medal Awards for 1994 will be given to Gerald A. Rosenthal of the University of Kentucky and Daniel H. Janzen of the University of Pennsylvania. Professor Rosenthal was the driving force and person most instrumental in the establishment of the ISCE. A biochemist, he is a leading authority on protective allelochemicals. He is best known for his work on the interaction of herbivores with nonprotein amino acids. Professor Janzen, an internationally recognized scientist in ecology and conservation, has dedicated many years to chemical ecological studies in Costa Rica. His studies on plant/insect interactions, taxonomy of Costa Rican flora and fauna, and political efforts on behalf of establishing nature/conservation areas are legendary. Rosenthal and Janzen have collaborated on several projects. Both will be profiled in the February, 1994 newsletter.

## Brower Receives Linnean Award

Professor Lincoln P. Brower of the Department of Zoology at the University of Florida, and first President of the International Society of Chemical Ecology, received the Linnean Medal for Zoology from the President of the Linnean Society, Professor John G. Hawkes. The ceremony took place at the Society Headquarters in Piccadilly, London on 24 May 1993.

The Linnean Society of London is the oldest Biological Society in the world. The Linnean Medal Award was initiated in 1888 to be given to a botanist and a zoologist "in appreciation of service to science". The first two recipients were botanist Sir Joseph Hooker and paleontologist Sir Richard Owen. Other zoologist recipients have included Thomas H. Huxley, Alfred Russel Wallace, Libbie Hyman, George Gaylord Simpson, Charles Elton, Ernst Mayr, and Stephen J. Gould.

Professor Brower was honored for his research including: definitive experimental support for protective mimicry; demonstrating the role of plant poisons in terrestrial food-chains via an innovative combination of experiments in chemistry, ecology, and animal behavior; discovery of the phenomena of automimicry and palatability spectra in natural populations; elucidation of the migration biology of the monarch butterfly; conservation biology of the monarch butterfly in Mexico, Canada, and the U.S.; and conservation of riverine ecosystems.



*Lincoln P. Brower*

## Harborne Award

The Society presented the Silver Medal to Professor Jeffrey Harborne at the banquet of the 10th annual meeting in Florida. The accompanying certificate read: "The International Society of Chemical Ecology. In recognition of outstanding scientific contributions, the Society awards the ISCE -medal 1993 to Professor Dr. Jeffrey B. Harborne for his pioneering investigations in secondary plant constituents and their significance for the chemical ecology of plants." The certificate has the seal of the Society, is dated Tampa, August 2, 1993, and is signed by the Chair of the Selection committee, William Fenical, Vice President, Kenji Mori, President, and John Romeo, Secretary.



*Professor Jeffrey Harborne receiving Silver Medal Award from President Mori.*

Dr. Harborne expressed appreciation to the Society. He presented a Plenary Lecture at the Florida meeting entitled "Flavonoids and Insects" as part of the symposium on Tropical Chemical Ecology.

## ANNOUNCEMENTS

**Chemoecology**, an international journal emphasizing evolutionary approaches to chemical ecology, is published 4 times per year by Birkhauser Publishers, Basel, Switzerland. The Editor-in-Chief is Michael Boppre. Stephen Malcolm is Associate Editor. The ISCE Executive Committee and the Councilors of the Society accepted an offer from Birkhauser to make the journal available to ISCE members at reduced prices. The usual subscription price for the journal is \$198 U.S. or 298 sFr. The discounted price is \$99 U.S. or 149 sFr. To take advantage of the reduced price, simply state that you are an ISCE member on your application.

**China Trip.** The Chemical Industry of Engineering Society of China of the People's Republic of China has asked the Citizen Ambassador Program of People to People to assist them by bringing to China a delegation of chemists and other professionals with interests in chemical ecology. The purpose is to meet and share experience with Chinese chemists, chemical engineers, biologists, and environmental professionals. The primary focus will be to examine current work and needs in chemical ecology with a view toward strengthening linkages for future cooperation. The trip will take place next year, in June or September. John Romeo has details for anyone interested in making this trip.