



NORTH AMERICAN SECTION

NAS/IUSSI NEWSLETTER

NAS/IUSSI
FALL 2002 Section 1 (Information)

2002 NAS Officers

<i>President:</i>	<i>Gene Robinson</i>	<i>Secretary-Treasurer: Sean O'Donnell</i>
<i>President-Elect:</i>	<i>Robert Matthews</i>	<i>Archivist: Chris Starr</i>
<i>Past President:</i>	<i>Joan Strassmann</i>	

Nominating

<i>Committee</i>	<i>Joan Strassmann</i>	<i>Eickwort Student</i>
	<i>Jennifer Fewell</i>	<i>Award Committee: Phil Starks (Chair)</i>
	<i>Dessie Underwood</i>	<i>Kenna MacKenzie</i>
		<i>Bryan Danforth</i>

Note from the editor: The Fall 2002 newsletter is growing very long. To avoid confusion and to encourage responses to important issues, I am going to divide the newsletter into two sections, which I will send as separate electronic messages. The first section will be informational, including announcements of awards, meetings, etc. The second section will include items to which you must respond actively- membership/dues, and elections.

Letter from the President: Gene Robinson

Dear Colleagues and Friends,

Greetings! I hope you had a productive summer. I will use this space to mostly provide a report of the business transacted at the International Congress in Saporro. But I can't move to that without remarking: It was an excellent meeting! All my conversations with NAS-IUSSI colleagues during and after the meeting were uniformly positive and very enthusiastic. We are most grateful to our Japanese colleagues for putting together such an outstanding congress.

At our business meeting, the following occurred:

1. The death of Howard Evans was noted with sadness, and it was suggested that the NAS-IUSSI President write to the family to express its admiration for Howard and its regrets at his death. This will be done.
2. A request for a partial subsidy for the FORMIS database was made by Sanford Porter. This request was considered by the Executive Committee and approved, and matching funds were offered by the International Committee.
3. A suggestion was made to distribute our newsletter electronically instead of on paper. It was later determined that this was already decided at the '01 Business Meeting in San Diego.
4. A plan was formulated to obtain information on potential sites for the '04 NAS-IUSSI meeting so the membership could vote on their preferred site.

Our business meeting was followed by the meeting of the entire International Committee.

The following NAS-IUSSI members served as delegates to the International Committee meeting of IUSSI: Kirstin Copren, Jennifer Fewell, Bob Jeanne, Terry McGlynn, Jeff Pettis, Gene Robinson, Deborah Smith, Barbara Thorne.

The meeting of the International Committee was highlighted by approving the NAS proposal to host the '06 IUSSI International Congress in Washington D.C. Jeff Pettis made an excellent presentation on behalf of

the DC steering committee (chaired by Anita Collins, and including Jeff, Jay Evans, and Barbara Thorne). Anita will serve as secretary for the congress, Ed Vargo, treasurer, and Walter Tschinkel, president.

Another highlight was the announcement that Wolfgang Kirchner was elected to be the next IUSISI Secretary General, replacing our own Michael Breed. Thanks, Mike, for your leadership and service. Also, a proposal to expand Chris Starr's activities from NAS archivist to IUSISI archivist was accepted.

Jochen Bellen presented some encouraging data on *Insectes Sociaux*. This journal continues to be able to be more selective in what it publishes, and its impact factor continues to increase.

Finally, this newsletter marks two transitions: from paper to electronic, and from Ed Vargo to Sean O'Donnell. As to the first transition, anyone who prefers a hard copy is welcome to receive one; if you know of anyone who you think might be in this category, please ask them to contact Sean. As to the second transition, on behalf of the entire membership I thank Ed Vargo for his great service as Secretary-Treasurer. I'm sure I speak for my predecessors when I say that he beautifully continued the tradition of the Secretary-Treasurer as the one actually running this outfit. Welcome aboard, Sean, and we're sure you are up to the challenge as well.

I hope to see as many of you as possible at our "Business" Meeting in Ft. Lauderdale at the ESA National Meeting.

Sincerely, Gene Robinson

**George C. Eickwort Student Research Award
Call for 2002 Nominees**

Deadline Friday, October 4, 2002

Purpose: To recognize research by students in the field of social insect biology for graduate or undergraduate work accomplished in North America, or by a student member of IUSISI/NAS pursuing studies elsewhere.

Nature: The award shall consist of a certificate, an honorarium, and a one-year subscription to *Insectes Sociaux*. The award will be presented at the 2002 IUSISI/NAS business meeting in Fort Lauderdale, Florida.

Eligibility: The award will be given to the student who in the opinion of the award committee shows the most distinguished record of research and scholarly activity in the area of social insect biology. Any student doing work in North America or any student member of IUSISI/NAS may be nominated. The student shall not have received a PhD or terminated studies earlier than 12 months prior to the award. Students continuing beyond a baccalaureate or masters degree will remain eligible. Previous award recipients are not eligible for a second award.

Nominations: Nominations may be made by the student or by others familiar with his or her work. Each nomination must be typed and include: name and curriculum vitae of the student nominee; title and brief description (not to exceed one page) of the work; reprints of no more than five publications or submitted manuscripts; biographical sketch of the nominee; two letters of recommendation. The proposal and ALL supporting information, THREE COPIES EACH, must be sent to the Chair of the IUSISI/NAS Student Award Committee by October 4, 2002: Philip TB Starks, Dana 310, Department of Biology, Tufts University, Medford, MA 02155.

Eickwort Award Committee: Phil Starks (Chair), Kenna MacKenzie, Bryan Danforth

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Issues relating to the upcoming 2002 ESA National Meetings

The meetings will be held in Ft. Lauderdale, FL on 17-20 November 2002. The scientific program runs from Sunday morning to Wednesday afternoon. Registration materials are available in PDF format on the web at: http://www.entsoc.org/annual_meeting/2002/Registration/PDF/Registration2002.pdf

Important dates:

Early bird registration (will get a program mailed to you): September 25th

Hotel reservations due: October 7th

Subsection Cb and NAS/IUSSI Business Meetings in Ft. Lauderdale

-ESA subsection Cb (apiculture and Social Insects) will hold a preliminary business meeting on Monday Nov. 18th at 4:30-5:00 PM

-The NAS/IUSSI business meeting will be held Tuesday Nov. 19th at 7:00-10:00 PM

Social insect symposia and conferences at Ft. Lauderdale ESA meeting in December 2002

Program Symposium: Urban Invaders: Their Biology in Their Homes and in Our Own

http://esa.confex.com/esa/2002/preliminaryprogram/session_833.htm

Summary Statement. In keeping with the 2002 theme of "Entomology-An Integrated Science" we have chosen a topic that is relevant to all major sections of the ESA. A variety of non-native, and native, insects have become well established in the places where people live, work and play throughout the United States. Released from the constraints of their natural habitats, species like the Argentine ant and Formosan termite have proliferated abundantly. In some cases, the simple fact that the insects' activities are taking place in the human realm has accounted for their pest status. However, a number of species have actually changed (evolved) while becoming established in this country-e.g., the red imported fire ant-making them far greater pests than they were in their native ranges. Entomologists have been able to document similarities and/or differences in the genetics, physiology, ecology and behavior of these insects between their new homes and original habitats. So to what extent have these pests changed since their arrival into anthropic America, and how can we, as entomologists, help the general public in coping with their presence? A discussion of these questions is relevant to all of major sections of the ESA and is particularly suitable for this meeting, for Fort Lauderdale is a city plagued with urban invaders. Relevant to sections A, B, C, Cb, Cd, D, Ea and Fb.

Section C Symposium: Behavioral Modification: A Critical Component of Social Insect IPM

http://esa.confex.com/esa/2002/preliminaryprogram/session_770.htm

Summary Statement. Much progress has been made of late in the development of chemical attractants and incorporation of attractants into baiting systems for various pestiferous social insects. These technical advances have been timely to provide promises of alternatives to pesticide applications that are being restricted for use in urban and suburban settings. A review of the state of the art of social insect lures and baits, and of the objectives of the research, will be timely in order to assess the successes and failures, and to assist researchers in charting a course for further advances. Session Chairs Peter J. Landolt, Robert K. Vander Meer

Section C Symposium: Parasites, Pathogens and Insect Sociality

http://esa.confex.com/esa/2002/preliminaryprogram/session_678.htm

Summary Statement. Parasites and pathogens are nearly ubiquitous in insects. Recent theoretical and empirical research demonstrate that they exert considerable selection pressures on their hosts, influencing behavior, physiology and biochemistry, as well as colony size, demography, organization, mating systems and genetics. We will explore how insect sociality has been shaped by parasites and pathogens, how societies cope with these pressures and which adaptations that characterized their solitary and/or presocial ancestors accompanied them during their transition to eusociality. Using evolutionary, mechanistic and theoretical approaches, we will explore the interplay of disease and

parasitism and social behavior. The role of pathogens and parasites on the evolution of insect sociality is at the interface of sociobiology, immunology, chemical ecology, and genetics. Organizers Rebecca Rosengaus and Sean O'Donnell

Informal Conference: Exotic ants in urban and agricultural environments

http://esa.confex.com/esa/2002/preliminaryprogram/session_705.htm

Summary Statement. Many ants have been transported to new environments where they have become pests in agricultural production and in urban settings. This conference addresses the integration of IPM to exotic ants in both environments. Introductory papers will explain how social insects can be transported and established which will be followed by specific examples of tramp ants that are economically important to agriculture and to urban entomology. The final papers will project problems that may occur through the introduction of new species.

Obituary for Howard E. Evans (submitted by Joan Herbers)

Our Section sustained a loss on August 18, when Howard Ensign Evans passed away. He was 83 years old. Howard was well-known for his systematics work on wasps, and for his prolific writing for the popular press. During his long career, Howard published more than 255 scientific papers, 40 popular articles and 13 books. Howard described one new family (Scolebythidae), 31 genera and almost 800 species of wasps. His best-selling book *Life on a Little Known Planet*, has introduced generations of students to the wonders of the insect world. A former Professor at Kansas State, Cornell, and Harvard, Howard spent the last 30 years of his career at Colorado State, where he was a University Distinguished Professor. He was elected to the National Academy of Sciences and received numerous honors throughout his life.

Position announcements:

POSTDOCTORAL RESEARCH ASSOCIATE

NIH-funded two-year postdoctoral position to examine integration of motor and behavioral development in the honey bee. Model system is the foraging behavior and development of flight muscle contractile machinery. Experience in molecular techniques for the study of social insects desirable. Prior work on honey bees preferred. Interested individuals should submit a CV and names of two references to:

Dr. Tugrul Giray, Department of Biology

University of Puerto Rico, San Juan

PO Box 23360

PR 00931

Phone: 787-764-0000, x-2908, fax: 787 764 3875, e-mail: tgiray2@yahoo.com.

M.S. level graduate assistantship in forest resource management available for a person skilled in ANT IDENTIFICATION.

Project: Ant communities of Arkansas Post National Memorial in southeastern Arkansas.

The objectives are to assess species richness and diversity in selected grass and forest habitats, and to determine if centers of high or low diversity correspond with particular patterns in the landscape. The project will use GIS to integrate the ant census, land cover, and vegetation data.

Educational information: This assistantship requires someone with excellent skills in ant identification that wants to get an advanced degree in natural resource management. The School of Forest Resources does not offer courses in entomology. However, it has excellent educational opportunities in Geographic Information Systems and Landscape Ecology if one wants to improve their future employment opportunities by expanding their knowledge base.

Funding: The Graduate Assistantship is funded through the School of Forest Resources and project funding is from the National Park Service. The Assistantship includes a \$12,000/year stipend and tuition and fees waiver.

Application: Application material is needed ASAP in order to fill the position by the start of the spring 2003 semester (Jan 6). Application and admission requirements and materials can be found at <http://www.afrc.uamont.edu/graduate/>. For more information, contact Dr. Lynne Thompson at (870) 460-1349, or thompson@uamont.edu.

Announcements of upcoming meetings:

INTERNATIONAL UNION FOR THE STUDY OF SOCIAL INSECTS (IUSI) BOLIVARIAN SECTION First Announcement of Fifth Biennial Meeting

The Bolivarian Section of IUSI is the organizing body for insect sociobiology in the northern neotropics. The section's next general meeting and research conference will take place on 11-15 July 2003 at the University of the West Indies, Trinidad & Tobago.

Members of all IUSI sections who work on neotropical social arthropods or general problems applicable to them are cordially invited to participate in this meeting. The languages of the meeting will be English and Spanish.

Trinidad & Tobago have a continental biota broadly harmonic with that of the nearby South American mainland. The meeting will include an all-day field excursion, and there will be additional opportunities for field trips and ecotourism. Arrangements for official collecting permits are part of the organization of the meeting.

Colleagues interested in receiving further announcements or other information may contact the Organizing Committee through:

Christopher K. Starr
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St. Augustine
Trinidad & Tobago
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tel (868) 662-2002 ext 3096
fax (868) 663-5241

UNION INTERNACIONAL PARA EL ESTUDIO DE INSECTOS SOCIALES (UIEIS) SECCION BOLIVARIANA

Primer Anuncio del Quinto Encuentro Bienal

La Sección Bolivariana de la UIEIS es la sociedad organizadora en el neotrópico septentrional de la sociobiología de insectos y otros artrópodos terrestres. Nuestra próxima conferencia general se llevará a cabo del 11 al 15 de julio 2003 en la Universidad de las Indias Occidentales, Trinidad & Tobago.

Invitamos cordialmente a los miembros de todas las secciones de la UIEIS con interés en los artrópodos sociales del neotrópico, y en cuestiones generales de la sociobiología de artrópodos, a participar en este encuentro. Los idiomas serán el español y el inglés.

La biota de Trinidad & Tobago es continental y ampliamente armónica con la de la tierra firme de Suramérica. El encuentro incluirá una salida de campo, y habrán otras oportunidades para excursiones y ecoturismo. El Comité Organizador arreglará los permisos oficiales de colecta de especímenes para quienes los necesiten.

Los colegas interesados en recibir otros anuncios o cualquier otra información acerca del encuentro puede comunicarse con del Comité Organizador por medio de:

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tel (868) 662-2002 ext 3096
fax (868) 663-524

Announcement and solicitation of suggestions for upcoming European Congress: St. Petersburg

We announce now that the *Third European Congress on Social Insects* will be held at St. Petersburg State University during the second half of August, 2005. The first announcement of the Congress will be issued and sent out in Autumn 2003.

Please, help us to distribute this first information among all members of the IUSI. We would be also grateful for any suggestion concerning the Congress, e.g. invited speakers, session names, themes to discuss, publication of the proceedings, etc.

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With the best regards.

Prof. Vladilen E. Kipyatkov

President of the Russian Language Section of the IUSI

Address:

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First Announcement

**International Symposium “Life Cycles in Social Insects: Behavioural, Ecological and Evolutionary Approach”
St. Petersburg, Russia, 22-27 September 2003**

The Russian Language Section of the International Union for the Study of Social Insects (IUSI) will organise the international symposium devoted to the life cycles in social insects, including behavioural, ecological, ecophysiological and evolutionary aspects of the problem. Our main purposes are to bring together the people interested in the problem, including leading experts, to create the opportunity for productive discussions, to evaluate the present-day status of the empirical and theoretical research and to stimulate further studies in this important field. The traditional life history theory generally ignores social insects. So we really need the new theoretical approaches to be developed specially for life cycles evolution in social insects. In order not to overlook important facts and ideas the presentations only loosely connected with the main problem of the symposium are also welcomed.

The symposium will be held at St. Petersburg State University – the eldest university in Russia, in the year of celebration of a 300 year jubilee of St. Petersburg. The symposium venue will be the University Conference Centre which is situated next to the main building of the University just in the historical centre of St. Petersburg near Neva river and houses the conference hall, the restaurant with common and V.I.P. halls, bar, cafe and student canteen.

The official language of the symposium will be English. The main form of presentation will be oral papers, but a poster session will be also arranged.

There will be a participation fee of \$150 (or \$75 for accompanying persons and for students) to cover the costs of publicity, production of the symposium materials including the book of abstracts, welcome party, coffee breaks, and social programme.

Accommodation will be possible in the University Hotel at a price of about \$50 per night for an apartment with single or double room, a kitchen and a bathroom in it (breakfast is not included); places in shared double rooms will be also available at a half of this price. The accommodation in higher class hotels in the city will also be organised after special request but at substantially higher prices. The accommodation at lower prices for students will be also available. Breakfasts, lunches and dinners will be served for the participants in the University Centre restaurant at a separate price. The information on the costs will be confirmed in the *Second Announcement* one year ahead of the symposium.

I would be very much obliged if you pass this announcement on to any colleagues who may be interested in coming to the meeting. I would be also grateful for any suggestion concerning the symposium, e.g. invited speakers, session names, themes to discuss, publication of the proceedings, etc.

If you wish to receive further information please ensure that you register your interest by contacting me through any of the routes indicated below. Communication via e-mail is greatly preferable for me and thus I would like to have the e-mail addresses of all the participants.

Professor Vladilen E. Kipyatkov

Symposium Organiser

President of the Russian Language Section of the IUSI

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Minutes of the NAS/IUSSI Business Meeting, December 11, 2001, San Diego

The presiding officer, President Joan Strassmann, called the meeting to order at 7:45 PM. Visiting members of other IUSSI sections were asked to introduce themselves. Drs. Olav Ruppel and Judith Korb were present from the German Section, and Dr. Hiromi Sasagawa was in attendance from the Japanese section.

Ed Vargo then gave the Secretary-Treasurer's report. He reported that current membership in the NAS/IUSSI stood at 157, of which there were 123 Regular Members and 26 Student Members. This represents about a 13% drop over last year's numbers and reverses the increased membership experienced the previous two years. The difference is due to the many members who did not pay their dues for 2001. (As of this writing, however, we have had several renewals and new members). The percentage of members subscribing to *Insectes Sociaux* has increased to 50% (52% of Regular Members and 42% of Student Members) over last year's 44%. The Treasurer's Report can be found at the end of the minutes.

Bob Jeanne then reported on the status of *Insectes Sociaux*. There was no official report from Johan Billen, the editor, but Bob informed us that submissions are up and that the acceptance rate is now about 50%.

Mike Breed then announced that Bob Jeanne intends to step down as Associate Editor. Penny Kukuk has agreed to assume the position, but must wait for approval from the International Committee which will meet in Sapporo, before she can assume the position.

Joan Strassmann then updated every one on the status of the travel grant submitted to NSF. The proposal was prepared by Joan Strassmann and submitted by Gene Robinson on behalf of the society. NSF awarded the full \$20,000 and the NAS/IUSSI has contributed another \$6,600. The awards are for graduate students and recent postdocs (no more than 5 years postgraduation). It was announced that the deadline for applications was Dec. 31, 2001, but this was subsequently extended to Jan. 31, 2002.

Dr. Sasagawa then informed us that the deadlines for registration for the Sapporo Congress are Dec. 31, 2001 for individuals giving talks, and March 31, 2002 for individuals presenting posters. However, the deadline has subsequently been moved to March 31, 2002 for every one. She also indicated that Japan Airlines was the official carrier. Mike Breed then reported that it was his understanding that the Japan Mutual Trust Organization was to have travel/hotel packages, but he has not received any word along those lines. He said he would look into it and report back later.

Dr. Sasagawa also told us that most flights arrive into Tokyo or Osaka and flights from those cities to Sapporo take 1.5 – 2 hours. She informed us that Japanese people are shy, and to be sure to speak very slowly. Finally, she reminded us that Japan has many earthquakes and volcanoes.

Ed Vargo then reported that the cost of photocopying and mailing newsletters was quite high, about \$600 per year. We could save that money by sending the newsletter out electronically. However, some 3-4 years ago, we voted to continue to mail the newsletter by post. Sam Beshers made a motion to do away with the paper newsletter. Joan Wenzel amended the motion to continue to mail the newsletter to the few people who do not have email addresses, but to send it out electronically to every one else. The motion carried unanimously.

The topic of ESA symposia for the 2002 meeting was the next topic of discussion. The theme for next year's ESA meeting is "Entomology: An Integrative Science." Peter Landolt proposed a symposium with the tentative title: Chemical Attraction and baits: integrated management in urban environments. Becky Rosengaus and Sean O'Donnell proposed a symposium on parasites, pathogens and sociality. Becky provided a long list of potential speakers. Sanford Porter reported that Anita Collins, who was not present, had already submitted a Program Symposium with the title: Sperm use, sperm competition and sperm storage. Anita had already lined up 6 speakers. Marc Seid announced that he and James Traniello would like to propose a symposium along the lines of social insects as interdisciplinary tools. There was then much discussion about the strategy for submitting symposia. Following this, Bob Matthews moved to endorse Anita Collins's proposal for a Program Symposium. The motion carried. We then voted on which of the other proposed symposia we would support as a section C Symposium. The proposal by Becky Rosengaus and Sean O'Donnell received the most votes.

The next topic discussed was the potential location for the 2004 NAS/IUSSI breakout meeting. Several proposals were mentioned, including holding the meeting in Friday Harbor, Washington (Sean O'Donnell), Puerto Rico (Tugrul Giray), Ontario (Gard Otis) and Oaxaca, Mexico, just prior to the annual meeting of the Animal Behavior Society (Jennifer Fewell). There was much discussion about the costs of attending and which places would be more or less convenient. The discussion then turned to how to decide among the various

proposals. Justin Schmidt moved to send out electronic ballots. Jim Hunt encouraged the various organizers to be aware of potential conflicts with other meetings when proposing dates. The motion carried.

The discussion then turned to proposals to host the next IUSSI Congress in 2006. Mike Breed indicated that there were no proposals from any European section to host the meeting and it may be a good time to have an offer from our section. Jay Evans informed us that Anita Collins and he were interested in making a proposal to hold the meeting in the Washington, D.C. area. Mike Breed reminded us that our section would need to select a nominee for the position of IUSSI President to accompany the proposal. Sanford Porter then moved that we vote to support the proposal to hold the 2006 IUSSI Congress in Washington and that we delay vote on a nominee for President until we have one or more candidates.

Sanford Porter, Secretary of ESA Section C, then reported on Section C business. He encouraged members to serve as judges for student talks and posters and volunteer for other activities for the next ESA meeting. He informed us that there were no NAS/IUSSI members currently nominated for ESA offices and encouraged members to volunteer. He also said that he is still heading up efforts to add to FORMIS, the ant literature database, and he encouraged people to add to it.

Joan Strassmann present the George C. Eickwort Student Research Award to David Schulz of the Department of Entomology, University of Illinois at Urbana Champaign. David's doctoral work, performed under the direction of Gene Robinson, investigated the effects of the biogenic amines dopamine, serotonin, and octopamine in different brain regions on age-related division of labor. David received a nice certificate, a check for \$300 and a free membership with subscription to *Insectes Sociaux* for the coming year. Congratulations David!

Dessie Underwood and Kurt Pickett were nominated to serve as the at-large member of the Nominating Committee. A vote was held and Dessie Underwood was announced as the winner.

Finally the results of the election were announced by Ed Vargo. The candidates were Sean O'Donnell and Eldridge Adams for Secretary-Treasurer and Bob Matthews and Zachary Huang for President-Elect. Sean O'Donnell and Bob Matthews were elected.

In her last act as President, Joan Strassmann turned the gavel and the official corkscrew over to this year's President, Gene Robinson. The meeting was adjourned and the social hour, as always, was a big success. **Treasurer's report for 2001.** We are in good shape financially, so that we will be able to match the \$20,000 NSF travel grant award with \$6,600 of our own funds to help student and recent postdoc members attend the Sapporo Congress.

Category	Amount
Inflows	
Membership Dues	
Regular	\$2,222.88
Family	25.00
Student	185.50
Subscriptions	
Regular	5,384.79
Student	429.00
Book Royalties (for Eickwort Award)	175.33
Total Inflows	\$8,422.50
Outflows	
IUSSI International (Capitation fees and subscriptions)	5,922.00
Annual Party	105.00
Eickwort Award (2000 & 2001)	600.00
Newsletter (copying and postage)	611.42
Total Outflows	\$7,238.42
Net Income /Loss	\$1,184.08
Balance Forward	\$10,892.19
Remaining Balance	\$12,076.27

Membership for 2001 was down slightly from year 2000. We went from having 181 paid members in 2000 to 157 for 2001, a decrease of 13%. Regular and family members were down to 131 from the previous year's total of 144, a decrease of 9%. There were 26 student members, a whopping 30% decrease from the previous year's 37. The number of members subscribing to *Insectes Sociaux* was nearly the same – 79 compared to 80 in 2000. With the decrease in membership numbers, the percentage of subscribers actually increased from 44% in 2000 to 50% in 2001.

Please note that the cost for a regular membership with subscription to *Insectes Sociaux* will increase by \$5 this year to \$92. Although the rate charged by the publisher, Birkhauser, will not increase from the current level of \$72, as voted on and passed at our 2000 business meeting, we are adding a \$5 cushion to regular subscriptions. Student subscriptions will not increase and will continue at-cost. The subscription rates are subject to change annually based on the prices set by Birkhauser and the current exchange rate for the Swiss franc. Any change in rates would not be in effect until 2003.