

sip

newsletter

society for invertebrate pathology

Volume 14, Number 4
November 1982

16TH ANNUAL SIP MEETING
CORNELL UNIVERSITY, ITHACA, N.Y., AUGUST 7-11, 1983

The 16th Annual Meeting of the Society for Invertebrate Pathology will be held on the Cornell University campus in Ithaca, New York, U.S.A., on August 7-11, 1983. Contact Dr. Robert R. Granados for local arrangements, and Dr. Donald W. Roberts for the program at the following address:

Insect Pathology Resource Center
Boyce Thompson Institute
Cornell University
Tower Road
Ithaca, N.Y.
U.S.A. 14853

MINUTES OF XV ANNUAL BUSINESS MEETING OF SIP
HELD AT BRIGHTON, U.K., SEPTEMBER 7, 1982

President Johnson called the meeting to order at 17:20. The President acknowledged the fund raising efforts of the local organizers. The donors are listed in The Abstracts and Proceedings of this meeting. In addition to the efforts of the joint organizers Drs. H.D. Burges and C.C. Payne, the meeting also acknowledged the efforts of the following scientists: N.E. Crook, R.A. Hall, P.J.M. Normansell, C.F. Williams, L.P. Jarrett, A.W. West, A.J. Gillespie and their supporting staff and other helpers.

A motion "to accept the minutes of the last business meeting as published in the NEWSLETTER" (vol. 13, no. 4, October 1981) was seconded and passed.

Treasurer Harper reported a healthy balance of \$12,774.59 as of August 31, 1982. The Society treasury experienced considerable growth during the past year, principally as a result of fewer members being in arrears on dues, income from a WHO grant to support publication of their news relating to vector control in the SIP Newsletter, a favourable balance from the 1981 Bozeman meeting, and increased interest earnings on bank accounts. Operating costs, however, also increased considerably. A total SIP membership of 607 includes 552 Regular, 40 Student, 8 Emeritus, 3 Honorary and 4 Sustaining members. Auditors, Drs. D.J. Alderman and V. Smith, reported the Society books to be in order.

Denis Burges, on behalf of the Local Programme Committee, reported that attendance at the meeting was nearly 400. Various organizations gave generous financial help and finances are in a healthy state. A reasonable profit

is anticipated which will be transferred to the SIP funds.

Don Roberts, Programme Committee, reported the locations of the 1983 meeting (Cornell University) and the 1984 meeting (Davis, California). Don is soliciting suggestions for 1985 and 1986 meeting sites. It was pointed out that having the annual meeting at the end of August or beginning of September can create difficulties for using university facilities.

John Briggs reported on Founder's Lectureship, International Organizations and Travel Assistance. The Founders' Lectureship Committee (J.D. Briggs, Chairman, K. Aizawa, C.J. Sindermann and J. Weiser) reported that Dr. Claude Rivers would present the first Founders' Lecture in honour of Professor Kenneth M. Smith. A list of Founders is to be compiled by the Committee. Society activities which relate to International Organizations during the past year include completion of the Glossary for Invertebrate Pathology; the computer assisted revision of the Directory; and the participation of the Society in the upcoming meeting of the Pacific Science Assoc.

Dr. Briggs was successful in obtaining travel assistance from the National Institutes of Health to the tune of \$6840. This was distributed to 12 participants in the Brighton meeting. The Society was strongly encouraged to begin immediately to identify comparable agencies in other countries and to become acquainted with the procedures necessary to seek support for invertebrate pathologists residing outside North America.

The Journal Report (Cheng) was read by Secretary Morris. The salient points are as follows: (a) Articles appearing in the Journal now carry a receipt date and an acceptance date. (b) The long "in press" time experienced by authors is mostly due to the long revision time taken by the authors themselves. (c) A total increase of 40 subscriptions was realized during this reporting period but the "breaking-even" total number of 1000 subscriptions is still not reached. (d) As of June 30, 90 of 160 manuscripts received were accepted, 36 were rejected and the remainder are still "in the mill". (e) The 1983 Journal prices are \$145 (Institutional) and \$72.50 (Member) in U.S.A. and Canada; \$172.00 and \$72.50, respectively, outside U.S.A. and Canada. The report will be published in the Newsletter.

During discussion it was made clear that certain members present feel that the current 2-year publication time for manuscripts is unacceptable and that the quality of the Journal is poor - this latter point was strongly objected to by another member. Dr. Harshbarger requested that renewal notices for JIP be sent out earlier so that they can be used for income-tax deductions in the same year. Dr. Harper said the new treasurer will consider sending them

out in November. Relative to a comment that too little insect pathology is being published in the Journal, P. Johnson pointed out that there is no quota policy. Manuscripts are accepted as they are received.

Division on Microsporidia (Undeen). There are now 71 paid up members of this Division. Dr. Undeen's report will be published in the Newsletter.

Division on Microbial Control (Harper). The Division membership voted in May 1982 to request Council to consider incorporating the Safety Working Group as a working group of this Division. Council granted the request. A full report will be published in the Newsletter.

Journal Committee (Brooks). The 8-member committee appointed by the President to investigate ways and means of establishing the Journal of Invertebrate Pathology more firmly, made the following suggestions to Council designed to enhance subscriptions and decrease "in press" time: (a) Institute a page charge, (b) Provide 50 free reprints only to subscribers, (c) include paid advertisements in the journal, (d) reduce subscription rate, (e) increase published manuscript quality, (f) increase the number of pages in each volume, (g) limit paper length, (h) expedite revision process, (i) establish assistant or associate editors, and (j) keep authors well informed of the status of manuscripts at all times. The full report will be published in the Newsletter.

A motion "to accept the reports as presented" was seconded and passed.

OLD BUSINESS

The President announced the results of the vote relating to the policy on abstracts — abstracts are not citeable without the permission of the author. She mentioned that the WHO contract for publication of their news in SIP Newsletter has been renewed, that we were terminating our AIBS association as of the end of 1982 (as a result American members' fee will decrease by \$1.00), and that Dr.

SIP NEWSLETTER

The SIP Newsletter is produced four times a year by the Society for Invertebrate Pathology. Annual dues (U.S. funds) in the Society are: regular members, \$11.00; and students, \$4.00. Members receive the SIP Newsletter free. Application forms for Membership in the Society may be obtained from the Treasurer, Dr. Aaron Rosenfield, Oxford Lab., NOAA, Nat'l. Marine Fisheries Service, Oxford, Maryland 21654, U.S.A.

Council Officers of the Society are:

President	Wayne M. Brooks, USA
Vice President	H. Denis Burges, England
Past President	Phyllis T. Johnson, USA
Secretary	Jean R. Adams, USA
Treasurer	Aaron Rosenfield, USA
Trustees	Terry L. Couch, USA
	John E. Henry, USA
	Peter Lüthy, Switzerland
	Hitoshi Watanabe, Japan

Send news items and other contributions to:

Sardar S. Sohi, Editor
SIP Newsletter
Forest Pest Management Inst.
Canadian Forestry Service
P.O. Box 490
Sault Ste. Marie, Ontario Canada P6A 5M7

Maddox has completed the SIP brochure. Dr. Harshbarger suggested that abstracting agencies be supplied with SIP proceedings.

NEW BUSINESS

The following resolution was moved:

"Whereas Dr. John Briggs has expended great time and effort on behalf of the Society to obtain a travel grant from the U.S. National Institutes of Health which enabled 12 North Americans to secure partial or complete airfare to attend the Brighton meetings, therefore be it resolved that the Society expresses sincere thanks to Dr. Briggs for services rendered".

The resolution was seconded and passed unanimously.

Constitution and Bylaws

Dr. Denis Burges moved "that the proposed revisions of the Constitution and Bylaws be approved by this assembly". Motion was seconded and carried.

President Johnson explained that the revised Constitution and Bylaws will be voted on by the membership-at-large.

Other new business

P. Johnson commented that Council will inform M. Martignoni through President-elect Brooks that, if he desires, \$3000 will be forwarded to him as seed money for publishing the glossary. President-elect Brooks will be working closely with Don Roberts to find travel funds in the future.

P. Johnson thanked all past Council and Committee members. She introduced the new Council members and presented a copy of Robert's Rules of Order to Vice-President-elect Burges. The gavel was passed to President Brooks.

Motion to adjourn was seconded and carried at 18:40.

O.N. Morris
Secretary

SIP COMMITTEE REPORTS

Secretary's Report

The following is a summary of the Secretary's activities during the past year:

The Society for Industrial Microbiology requested the publication of the dates of their 1982 annual meeting in the SIP Newsletter. This was done, and S.I.M. reciprocated by publishing our Brighton meeting announcement in their newsletter. On Feb. 9, a letter was sent to Mrs. Bucher, on behalf of the Society, expressing our condolences at the passing of Dr. Gordon Bucher. An obituary was received from staff members of the Winnipeg Agriculture Research Station which was published in the April 1982 issue of the Newsletter.

Ballots for the 1982 election of SIP officers and for resolving the question concerning abstracts of papers presented at annual meetings were sent to the membership on February 19, 1982. As of June 1, the closing date, 171 ballots were returned. Of these 62 were from outside North America. Only one group of members (in France) experienced some difficulty in receiving their ballots but

new ones were sent and the problem was corrected. Due to lack of proper communication between the nominating committee and the secretary, a photograph of only one nominee was published in the Newsletter. An apology to all other nominees is in order. Dr. Sohi suggests that in the future, some specific guidelines should be given to candidates re uniformity of c.v. submissions. Some were two or more pages long and too much time had to be spent by the Newsletter editor trimming the information. If photos are not called for, this should be spelled out in the guidelines. Results of the ballots were published in the July issue of the Newsletter.

The SIP bank account in Sault Ste. Marie was closed in March 1982. A questionnaire from the Encyclopaedia of Associations, a reference guide to Associations, Societies and other Non-Profit Organizations, was completed and sent to the Gale Research Company. A new contract with WHO was signed August 26, 1982.

I take this opportunity to thank the Executive and membership for allowing me the opportunity to serve the Society, and to express a willingness to serve again in the future.

O.N. Morris
Secretary

Nominating Committee Report

The Nominating Committee received no written suggestions for candidates in response to its SIP Newsletter solicitation. Thirty-five persons were actively considered for the ten candidates desired.

To be totally objective each Committee Member sent a ranked list of candidates to each other member by the same date. The top candidate on each list for each office was then given a numerical rating equal to the total number on the longest list, e.g., if one person suggested four people for Vice President, then the first person on each list was given a "4". The second candidate on each list was given the next rating, i.e., "3", etc. Candidates were ranked numerically. Consensus on most offices was reached on the first round and all nominations were completed by the third round.

Several rules were agreed to: (1) both nominees for Vice President would be non-north American to ensure the traditional international rotation; (2) both nominees for Treasurer would be from the U.S. to minimize loss of funds from back and forth money transfers; (3) both nominees for Treasurer would be non-insect people to ensure representation of that minority membership; (4) each member of the Nominating Committee had veto power; and (5) correspondence would be totally candid, confidential and would be destroyed after the nomination process was concluded.

15 June 1982 J.C. Harshbarger (Chairperson)
Y. Tanada
M.R. Tripp
C. Vago

Financial Statement of SIP for the Period August 15, 1981-August 31, 1982

Receipts

Balance on hand August 14, 1981		\$ 6,408.63
Membership dues:		
Regular	\$5,823.26	
Student	148.00	
Sustaining	<u>800.00</u>	6,771.26

Division on Microsporidia	71.00
Division on Microbial Control	132.00
AIBS affiliation dues (U.S. members only)	184.00
Journal of Invertebrate Pathology	
subscriptions	9,239.00
Interest	427.33

Miscellaneous:

NIH Travel Grant for Brighton		
Meeting	6,840.00	
Sale of SIP Meeting Abstracts	8.00	
Donation	50.00	
Banquet receipts from Seattle		
SIP Meeting	610.00	
Profit from Bozeman SIP Meeting	1,006.49	
WHO payment for Newsletter space	2,500.00	
Kingston SIP Meeting receipts	466.78	
Newsletter expense check returned	<u>300.00</u>	\$11,781.27

TOTAL \$35,114.49

Disbursements

Journal of Invertebrate Pathology		
--Academic Press		\$ 9,239.00
Newsletter:		
Printing & envelopes	\$1,330.35	
Postage & misc. expenses	<u>1,529.33</u>	\$2,859.68

1980-81 Newsletter expenses		
paid with Kingston receipts:		
Printing & envelopes	43.02	
Postage & misc. expenses	<u>423.76</u>	<u>466.78</u>
		3,326.46

Pacific Science Association		
affiliation dues		25.00
AIBS affiliation dues		358.00
AIBS mailing labels, membership lists, etc.		332.18
Annual Meeting expenses:		
Seattle (banquet expenses)	610.00	
Pennsylvania State	<u>200.00</u>	810.00

Officers' Expenses:		
Member billing & postage	427.18	
Foreign check cashing charges		
& bank draft fees	68.51	
Office supplies & printing costs	166.84	
Returned checks	<u>20.00</u>	682.53

Cost & mailing expenses for 50		
copies of IP Directory for WHO		278.38
NIH Travel Grants for Brighton Meeting		6,840.00
SIP Brochure printing costs		148.35
Cash advance for Newsletter expenses		<u>300.00</u>
TOTAL		\$22,339.90

Balance on Hand August 31, 1982 12,774.59
TOTAL \$35,114.49

This financial statement includes two sources of income and expenditures which while made prior to August 14, 1981, were not included in the previous year's accountings because the actual records of transactions were not available until this accounting period. First, transactions of the previous treasurer which were made in the 1980-81 accounting period but not received by me until after the 1980-81 accounting was made are incorporated. These included \$644.52 as income and \$822.17 as expenditures. Second, the profit from the 1975 Kingston Meeting of \$597.75 Canadian was officially incorporated into this accounting at the exchange rate of 0.7809, placing \$466.78 U.S. in this accounting as income and expenditures. All

of this amount was expended on the newsletter, principally in 1980 and 1981 as stated in last year's financial report. Separate accountings of both of these sources are included in the treasury account ledger.

The Society treasury has experienced considerable growth during the past year, principally as a result of fewer members being in arrears on dues, a WHO grant to support publication of their news relating to insect pathology and vector control in the SIP newsletter, a favorable balance from the 1981 SIP meeting in Bozeman, and increased interest earnings on bank accounts.

In this fiscal year, however, operating costs also increased considerably. Costs of printing and mailing the newsletter increased by nearly 40%. The newsletter continues to be our major expense. Printing costs were essentially the same in the two years, but postal charges increased significantly due to a major hike in the postal rates in Canada where the Newsletter is produced and mailed from.

Respectfully submitted,

James D. Harper, Treasurer

Report of the Editor of Journal of Invertebrate Pathology for 1981-1982

The Journal of Invertebrate Pathology (JIP) continues to be the leading scientific journal for the publication of original manuscripts dealing with the pathobiology of invertebrates. Although a variety of topics are represented in the manuscripts published in the Journal, a survey of articles published during this reporting period has revealed that the three major areas are: (1) basic biology and biochemistry of microorganisms and viruses that are real and potential biological control agents; (2) immunology (humoral and cellular) of invertebrates, especially noninsect species; (3) taxonomy and biology of microporidans. In fact, JIP publishes more authoritative papers in these three areas than any other national and/or international journal. Every attempt has been made to retain the international nature, although all manuscripts will continue to be published in English.

Two major changes have been made during this reporting period at the request of Dr. Phyllis Johnson, President of the Society for Invertebrate Pathology. Specifically, (1) Articles appearing in the Journal now carry two dates: a receipt date and an acceptance date. The inclusion of these two dates will give readers a truer picture of the lag time between acceptance of a manuscript and publication. In other words, as indicated by the dates associated with manuscripts published in recent numbers of the Journal, the long periods of time between initial receipt and publication is in most instances due to prolonged periods of time authors have taken to revise manuscripts and to provide omitted information. Carelessly omitted information is most commonly in the form of references cited in the text, key words, and abstracts. Although the Editor can formulate a "key words" list, it is extremely tedious to have to run to the library to look up references or to write abstracts.

Relative to the number of subscriptions to JIP, Academic Press has provided the following figures as of July 1, 1982:

	1980		1981		1982	
	Institu- tional	Indivi- duals	Institu- tional	Indivi- duals	Institu- tional	Indivi- duals
U.S.A.	361	88	346	39	361	50
Foreign	430	62	335	43	340	52
Sub- totals	791	150	681	82	701	102
TOTALS	941		763		803	

As indicated by the figures presented above, there has been a total increase of 40 subscriptions during this reporting period. Although it is encouraging, the total number of subscriptions still has not reached the 1000 mark required for financially breaking even. Consequently, the Executive Committee and the membership is being requested to continue their efforts to increase the number of subscriptions.

A total of 160 manuscripts were received between June 1, 1981, and June 30, 1982. Of these 90 have been accepted and 36 have been rejected. The remaining ones are still in "the mill," i.e., being reviewed or revised. These figures reflect a slightly higher acceptance rate over last year. This, in my opinion, is due to the better quality of the submitted manuscripts rather than less rigorous reviewing.

Each number of the Journal during the past year has been delivered on schedule and all of the allowed number of pages has been used.

The annual subscription rates for JIP for 1983 are given below. It will continue to be published in two volumes per year, each volume consisting of 400 pages.

	<u>U.S. & Canada</u>	<u>Other countries</u>
SIP members	\$ 72.50	\$ 72.50
Institutional (libraries)	\$145.00	\$172.00

Respectfully submitted,

Thomas C. Cheng
Editor-in-Chief
Editorial Committee

Report of the Journal Committee

In December 1981 President Phyllis Johnson appointed a committee with the task of investigating ways and means of establishing the Journal of Invertebrate Pathology more firmly and forming closer ties between the journal and the Society for Invertebrate Pathology. The committee had 8 members from four countries (Canada, Czechoslovakia, England, and the United States) and represented several subdisciplines within the field of invertebrate pathology.

The major endeavor of the committee has been devoted to an evaluation of: (1) reasons for low subscription rates among SIP members and means to increase subscriptions, and (2) reasons for the often long "in press" time for manuscripts, and means to decrease the "in press" time for publication. This emphasis was based on the assumption that the relatively low number of journal subscriptions

has been in part related to member dissatisfaction with the rather long period between the dates of submission of most manuscripts and their actual publication. For example, in 1973, 106 manuscripts were published in 9 months or less; 26 in 10-12 months; 4 in 13-16 months. None took more than 16 months from receipt to publication. In 1981, 36 manuscripts were published in 12 months or less; 42 in 13-18 months; and 20 took over 18 months. Several manuscripts were published within 3 to 4 months in 1973 while only 19 of 36 in 1981 were published within 8 to 11 months, none in less time. Even in 1982 (Vol. 39, Nos. 2 & 3), the average "in press" time for full manuscripts was still about 14 mos, and between 16 to 22 months for scientific notes. This problem compounded by the backlog of manuscripts awaiting publication, recently mandated reductions by Academic Press in the number of pages available in the journal, and by often long delays by some authors in revising manuscripts in accord with reviewer's comments and suggestions. The low number of members subscribing to the journal is amply indicated in the past several reports of T. Cheng, editor of the journal, which have been published in the SIP Newsletter. Thus, the committee was particularly interested in an assessment of these two facts as well as other factors impacting on the success of the journal from the standpoint of subscriptions and publication policies. The comments and recommendations which follow represent a consensus of our deliberations.

The primary reasons for the low subscription rate to the journal appear to be related to (1) dissatisfaction caused by inordinate delays in manuscript publication, and (2) the high cost of the journal subscription fee. Other factors judged to be less important but still significant include the accessibility of the journal in libraries of institutions or of colleagues, and dissatisfaction with the type and quality of manuscripts published in the journal.

In order to enhance subscriptions to the journal, the committee makes the following recommendations:

- (1) Provide subscriber benefits through modification of page and/or reprint charges.
 - a. Institute a page charge system that would provide free pages for subscribers only, perhaps with a provision that would allow publication by scientists at a reduced page charge rate who are without adequate support, e.g., students and possibly scientists without recourse to hard currencies; and/or
 - b. Provide the first 50 reprints free only to subscribers.
- (2) Paid advertisements should be included in the journal to generate income.
- (3) Reduce the subscription rate.
- (4) Increase the quality of manuscripts published.

The primary reason for the long "in press" time of manuscripts appears to be most related to the manuscript review and/or revision process. It also appears likely that "in press" time is associated with the backlog of manuscripts awaiting publication and with the page limitations of the journal.

In order to decrease the "in press" time for publication, the committee makes the following recommendations:

- (1) Increase the number of pages in each volume.
- (2) Limit all papers in length to only 8 pages, except in exceptional cases.

- (3) Increase the size of the editorial board and/or increase the use of non-board members where appropriate.
- (4) Expedite the review and revision process through the adoption of rigid guidelines.
- (5) Consider the establishment of a system of assistant or associate editors.
- (6) Keep authors well informed of status of manuscripts at all times to avoid uncertainty, especially the acceptance of manuscripts upon revision and resubmission by authors. If possible, a projected publication date or journal issue might be predicted.

Although the committee is well aware that these are no simplistic solutions to this situation, we feel that this report and the above recommendations deserve serious consideration by Academic Press and the editor of the Journal of Invertebrate Pathology. Continued dissatisfaction with the journal publication practices and rising journal subscription fees will undoubtedly lead to a lessened subscription rate and the loss of the better quality papers unless some modifications are made in the near future.

Respectively submitted,

W.M. Brooks, Chairperson
 C.J. Bayne
 C.C. Beegle
 B.A. Federici
 R.P. Jaques
 H.K. Kaya
 M. Kucera
 V.J. Smith

Report of the Program Committee

SIP conducted two scientific meetings in 1982. The first was an ad hoc meeting held in conjunction with the American Institute of Biological Sciences (AIBS) at Pennsylvania State University in University Park, Pennsylvania, August 9-11.

The second meeting was an International Colloquium on Insect Pathology and Microbial Control held in Brighton, England, September 5-11. At the time of writing there were 289 registrants, and attendance is expected to exceed 300. The program included 11 symposia, 5 workshops and 142 contributed papers. Proceedings of the meeting will include one-page abstracts of contributed papers and six-page notes from symposium papers. The Local Arrangements Chairmen in England are Denis Burges and Christopher Payne. As is customary for SIP meetings outside the United States, the Local Arrangements Chairmen were responsible for the program as well as the traditional duties of the post.

The meeting for 1983 will be held on the Cornell University campus in Ithaca, New York, August 7-11 with Dr. Robert R. Granados as Local Arrangements Chairman. Invitations have been extended by various groups for the 1984, 1985, 1986 and 1987 meetings to be held at their universities or government laboratories. These invitations will be acted upon by the Council in September 1982. The Society has enjoyed a very profitable year for scientific meetings.

Donald W. Roberts
 Chairperson

Report of Local Arrangements Committee 1982 Meeting
Brighton, U.K.

The program of the meeting published in the recent SIP Newsletter is more comprehensive than that of previous Colloquia. Over 300 persons attended. Various bodies have given generous financial help and finances are in a healthy state. About £3,300 has been allocated to help participants with their expenses in addition to the US \$6,840 from the U.S. National Institute of Health, £420 from the British Council and £250 from the Society for General Microbiology.

Abstracts and Proceedings were available at the Colloquium.

H.D. Burges & C.C. Payne
Cochairpersons

Report of Local Arrangements Committee 1982 SIP AD HOC
Meeting, Penn. State Univ., U.S.A.

The Society of Invertebrate Pathology AD HOC Meeting was held on August 9-10, 1982 at The Pennsylvania State University, University Park, PA in connection with the 33rd Annual AIBS Meeting. Eight other societies were involved in the AIBS Meeting. Over 60 members attended the SIP meeting, which consisted of two symposia, 30 contributed papers, a poster session and industrial displays. President Phyllis T. Johnson highlighted new SIP events, and answered a number of questions posed by the attendees. The registration fees were \$45.00, and \$70.00 for late registration. A Program and Abstracts of the meeting were provided by the Program Chairperson Donald W. Roberts. An SIP Mixer was held on August 10, 1982 at a cost of \$200.00

We thank the Membership of the Society for their kind cooperation, a successful meeting, and the opportunity to serve them at Penn State.

William G. Yendol & William McCarthy
Cochairpersons

Report of the Membership Committee 1981-1982

As of August 23, 1982, SIP had a total of 607 members in the following categories:

Regular	552
Student	40
Emeritus	8
Honorary	3
Sustaining	4
Total	607

During the period from August 14, 1981 to August 23, 1982, 87 members have been removed from the membership list due to resignations, non-payment of dues, or death, and 50 new members have been added to the list. Two members, Dr. Darrell Anthony and Dr. J.M. Franz, were granted emeritus memberships. In 1982 the committee also reviewed Dr. I.M. Hall's request for emeritus status. This was approved effective in 1983.

Of the 552 regular members, 399 are in good standing at present, 109 are one year in arrears and 44 are two years in arrears in dues payments. Members in this last category will be dropped automatically at the end of 1982 if payments are not received by then. Of the 40 student members, 30 are in good standing, 8 are one year in arrears, and 2 are two years in arrears in dues payments.

The total SIP membership decreased by 37 members in the past year. The decrease was almost entirely attributable

to losses of regular members. Most of this loss is accounted for by removal of members over two years in arrears from the rolls. It is recommended that the incoming membership committee undertake a membership drive as a major function.

Joe Maddox completed the development and printing of the SIP brochure, and 1000 were printed in June 1982 for use as an information source for prospective members.

Respectfully submitted,

Joseph Maddox
Gerald Carner
James Harper, Chairperson

Report of the Glossary Committee 1981-82

There were no changes in Committee membership during the past year. Editing, including preparation of subentries and cross references of 'definitions', is now complete. The glossary will be set on the word processor.

The final copy of the multilingual thesaurus, by a task force of the Editorial Committee (Drs. A. Krieg, M.E. Martignoni, H.W. Rossmore, and C. Vago) was submitted to several potential publishers. While some of the institutions contacted by us indicated that funds are not available at this time for publication, others are still considering our proposal. We will continue to explore additional avenues for publication of this voluminous work. The complete manuscript, titled "Terms Used in Invertebrate Pathology in Five Languages: English, French, German, Italian, Spanish," consists of a 10-page introduction and 384 pages of glossary text. The multilingual glossary comprises about 2,300 entries.

Respectfully submitted,

Mauro E. Martignoni, Editor
Michael C. Mix, Associate Editor
Thomas C. Cheng, Chairperson Publication Board
L. Bailey
S.Y. Feng
John C. Harshbarger
Phyllis T. Johnson
Alloysius Krieg
Harold W. Rossmore
Albert K. Sparks
C. Vago
Harold E. Welch

Report of the Special Committee on Constitutional Revision

Constitutional tenets and procedural matters of the Society are presently combined in a single document, known as the "Constitution and Bylaws." A Special Committee was established January 9, 1980, to develop two separate documents, a new "Constitution," containing the essential governance rules of our Society, and new "Bylaws," with all procedural details necessary for the efficient management of the Society.

The Committee completed a fourth draft of the Constitution and a second draft of the Bylaws. The Constitution is a relatively brief document, consisting of 9 articles (220 typewritten lines). The Bylaws are, of necessity, much more detailed and extensive: they consist of 16 articles (670 typewritten lines). President Phyllis Johnson, who is also a member of the Committee on Constitutional Revision, will submit the two documents to the Council at its annual meeting in Brighton, in September 1982.

The Committee has now essentially completed its task, in the relatively short period since its appointment two and a half years ago. Further action on the two documents will be decided by the Council of the Society.

Respectfully submitted,

24 June, 1982

Wayne M. Brooks
Phyllis T. Johnson
Albert K. Sparks
Mauro E. Martignoni, Chair

Report of the Archivist

Because of other commitments to the Society, relatively little time has been spent during the past year on the archives. It is an appropriate time, however, to remind all out-going officers or committee chairpersons of the Society that I will be glad to receive files of their correspondence and activities for the archives, if they wish to submit them for storage.

Although I will be busy in my forthcoming role as President of the Society, I shall continue to act as the Archivist for the Society at the pleasure of the Council. As time permits I will continue to maintain the archives and am willing to assist anyone needing information available in these files for the Society.

W.M. Brooks
Archivist

Report of the SIP Newsletter Editor

Four Newsletters (Vol. 13, No. 4, Vol. 14, Nos. 1, 2 and 3) were produced, and were sent by Airmail direct to the individual members during the period September 1981 to July 1982. In addition, 50 copies of each issue were sent to the World Health Organization in Geneva, Switzerland, and 10 copies of each issue were sent to the Archivist, and another 10 to the Treasurer. Two issues had eight pages each, one had 10 pages and the other (Vol. 14, No. 3) had 12 pages, of which 10 were devoted to the program of the Brighton annual meeting of the Society. The total cost for the year was U.S. \$2,718.96, (printing \$993.82, envelopes \$303.86, postage \$1,421.28). The Canadian postal rates almost doubled for most categories of mail effective January 1982 which are reflected in the increased cost of postage as compared to the 1980-81 figures.

Some of the regional correspondents have contributed news items quite frequently. Others have not been quite so active. All the regional correspondents were invited to continue for the 1982-84 term or suggest a substitute if they could not continue. Only Drs. K. Aizawa (Japan), H.D. Burges (United Kingdom), J.S. Pillai (New Zealand) and C. Yamvriasis (Greece) have agreed to continue. Drs. H. Boman (Scandinavia) and G. Kuno (Central America) have expressed their inability to continue. Dr. Kenneth Söderhäll (Scandinavia) and H. Wassink (Latin America) have agreed to serve for 1982-84.

27 July 1982

Sardar S. Sohi
Editor

Report of the Division on Microbial Control

The Division held its first official business meeting at the Bozeman SIP meetings on Thursday, August 20, 1981, at 11:30 a.m. Officers were elected at that time by the voting members present. They were James D. Harper, Chairperson; H.D. Burges, Chairperson-Elect; James Fuxa, Secretary-Treasurer; and Donald Roberts and John Cunningham, Members-at-Large. Nominations were obtained through a mail request of all Division members as well as from the floor.

A request was received from Dr. Elizabeth Davidson to consider incorporation of the Safety Working Group into the Division as a working group. A proposed amendment to the bylaws was drafted which would allow this incorporation and the proposal was sent to all Division members (140) on May 19, 1982 with a mail ballot for approval or disapproval of the proposal. Eighty-seven ballots were returned with 84 'yes' votes and 3 'no' votes. The issue will be placed before the governing council at the Brighton meeting for approval.

The Division is sponsoring a workshop at the Brighton meeting entitled "Problems relating to microbial control in developing countries." Dr. Don Roberts convened and will chair the workshop.

Respectfully submitted,

James D. Harper
Chairperson

Report of the Safety Working Group

Following the vote of the membership of the SWG to seek divisional status in the Society, it was pointed out by M. Martignoni that the Group could become a working group under the Division of Microbial Control, by a much less complicated mechanism and satisfying the concerns voiced by some members of Council about the proliferations of Divisions. This process involves amendment of the bylaws of the Division, to permit Working Groups, followed by approval of the amendment by Council. Letter poll of the Working Group committee showed this plan to be acceptable, and Jim Harper was asked to begin the process within the Division of Microbial Control to accommodate the Safety Working Group. Dr. Harper should be ready to bring this matter to Council in Brighton.

An article in Science (Marshall, E. 1981. The summer of the gypsy moth. Science 213: 991-993) was brought to the attention of the Chairperson, in which the microbials used against the gypsy moth were described as "somewhat less toxic than Sevin and two or three times more expensive". The chairperson acquired data and product labels to refute this statement, and a letter with this data was sent to the editor of Science. The editor replied that the safety statement was in fact poorly stated, but that they had checked the data on cost and found their statement to be correct.

After some discussion with EPA, the membership of the Safety Working Group Committee were sent copies of the proposed U.S. EPA Tier Testing Guidelines, for the purpose of their discussion at the SWG meeting in Brighton, and presentation of an opinion to EPA. This document will be the main topic of discussion in Brighton. The Chairperson has also recently been asked to serve on an EPA workshop panel concerning the bacterial testing portion of this document.

Elizabeth W. Davidson
Chairperson

Report of the Microsporidia Division

At the 1981 meeting of the Society for Invertebrate Pathology in Bozeman, Montana, the Microsporidia Division held a workshop on microsporidia transmission. In vivo germination of some mosquito microsporidia spores and aspects of transovarian transmission were discussed.

Division Chairperson Dr. A.H. Undeen called the meeting to order and a summary of the 1980 business meeting minutes was read by Dr. D.A. Streett. Dr. J.V. Maddox discussed the establishment of centers for preserving microsporidia and an effort to catalog microsporidian isolates maintained by researchers. Representatives of the standing committees on type slide and data retrieval were not in attendance. The next topic of discussion was a report on the Methods Committee by Dr. J.V. Maddox. During the discussion, a motion to disband the committee was presented and passed.

Dr. J.V. Maddox was appointed chairman of the nominating committee composed of Drs. W.M. Brooks and C.P. Vivares to prepare a slate of officers for presentation at the 1982 business meeting. A topic for the microsporidia workshop was discussed and it was decided to leave the final decision to the local representatives. Drs. L. Canning and R. Barker subsequently agreed to organize the workshop. No additional new business was introduced and Chairperson Dr. A.H. Undeen adjourned the meeting.

A.H. Undeen
Chairperson

Report on AIBS, 1981-82

At the Bozeman Council Meeting, August 1981, it was decided that we should terminate our membership in AIBS as of 1 January 1983. An ad hoc meeting with AIBS at Penn State was held August 9-11, 1982. Otherwise, SIP has not taken an active part in AIBS activities.

Respectfully submitted,

Phyllis T. Johnson

Report of Founder's Lectureship Committee

The Committee in cooperation with the Colloquium Organization Committee planned the arrangements for the recognition of Professor Kenneth M. Smith to be the honoree Founder to be recognized in the International Colloquium to be convened in Brighton, England. Dr. Claude F. Rivers agreed to present a lecture for the occasion.

As of the date of this report, the Committee has not yet completed the proposed guidelines for the regular rotation of the Committee, nor has the Committee completed a plan for the selection of honorees. Further, a proposed list of Founders, and an attempt to associate the recognition of these individuals with particular meetings of the Society, by location and year of the meetings, is to be compiled by the Committee.

8 July 1982

Keio Aizawa
Carl J. Sindermann
Jaroslav Weiser
John D. Briggs, Chairperson

Report on International Union of Biological Sciences

The Society for Invertebrate Pathology serves as The Commission on Invertebrate Pathology in the International Union of Biological Sciences (IUBS) and the SIP is an affiliated society of the World Federation of Parasitologists. Within the past year the actions which must be specifically identified are the completion of the glossary for invertebrate pathology; the computer assisted revision of the Directory; and the participation of the Society

(and consequently representation of the Commission) in the meeting of Pacific Science Association to be convened in New Zealand in 1983. Dr. J.S. Pillai will serve as the representative of the Society. Further, the convening of the International Colloquium on Invertebrate Pathology in Brighton is an important contribution to IUBS activities.

The 1980 edition of the Directory for Invertebrate Pathology, and corrections/additions to date is presently maintained in a computer assisted form to facilitate further revisions in an international community of approximately 1500 individuals. A copy of the current holdings of the Directory is available for Council. During the International Colloquium corrections and additions to the directory will be solicited.

24 August 1982

John D. Briggs.

Report on Travel Assistance for Individuals to attend the International Colloquium on Invertebrate Pathology

Applications for travel assistance were received from 43 persons in 14 countries; 14 from outside North America, three from Canada and 26 from the U.S. One of the applicants from outside of North America received funds to attend the Colloquium from another source and withdrew application; two individuals from North America withdrew application when I informed them that the funds were restricted to airfare, and on American carriers, if available. Twelve applicants were awarded travel funds.

The SIP Council agreed in 1981 to apply to the International Union of Biological Sciences (IUBS) and the United States National Institutes of Health (NIH) for funds for partial support of travel by scientists internationally to attend the 1982 Colloquium at Brighton. These agencies have provided funds to the Society for support of travel for scientists in the past. The application for funds to the NIH was completed and submitted in 1981 in advance of the deadline set by the agency. The applications should have been submitted no later than 18 months before our meeting to assure the completion of all of the necessary reviews, and sufficient lead time for awardees to complete travel arrangements. Our timing in 1981-82 was according to our experience in the past when 6-10 months was sufficient for the completion of the review process. On the last day of June 1982, we were informed that the National Institute of Allergy and Infectious Diseases had granted \$1840, and the Fogarty Center for International Medicine \$5000 (Total \$6840). There were no additional grants from other Institutes within NIH. IUBS offered only loans to organizations and the SIP Council decided not to accept the loan. In the first week of August, the entire amount was paid by a U.S. Treasury check to James Harper, Treasurer.

Two letters were sent to the applicants. When notified that the \$6840 was available, I initiated contact with individuals on the ranked list of persons selected from among those requesting funds. The selection had been made by a committee appointed by President Johnson. The committee members were Robert Anderson, Joe Maddox, and John Briggs (Chairperson). Twenty-seven individuals from North America were ranked according to the criteria as set forth in the approved proposal for funds from NIH. According to the criteria the individual should: a) be a junior member of his institution; b) have a demonstrated active interest in invertebrate pathology; c) be willing and able to provide additional funds to supplement those provided by the Society; and d) be prepared to participate actively in the Colloquium. Denis Burges provided a list of individuals who had been invited to the Colloquium by program conveners. Members of the Selection Committee were provided copies of the original applications submitted by the individuals and any subsequent correspondence. The corre-

spondence was important because individuals modified the amount originally proposed as necessary for economy air transportation. The Committee agreed to be flexible in the cases of certain individuals who did not meet the criterion for junior standing in their institution. The flexible position was taken because of the limitation of funds, and the need for a balance of experience in the representation from North America.

The members of the Society and others who applied for funds for partial support of travel to the International Colloquium should be commended for their cooperation with the Selection Committee in accepting only that amount of money which was necessary to meet their needs, and to use the award as a lever for obtaining funds elsewhere. As a result of this cooperative and generous attitude we were able to increase the number of individuals by two beyond the original estimate. In future applications should be submitted to more agencies. In addition to both public and private agencies in the United States and Canada, I suggest that the Society begin immediately to identify comparable agencies in other countries and to become acquainted with the procedures necessary to seek support for invertebrate pathologists residing outside of North America.

24 August 1982

John D. Briggs

1982 COLLOQUIUM AT BRIGHTON: PUBLICATIONS

We have spare copies of the 526-page "Proceedings" volume, which comprises the papers, each up to 6 pages in length, in the 18 symposia. We will mail copies after receipt of £10 (sterling) for S.I.P. members or £20 for non-members, inclusive of postage (please make cheques payable to the "SIP Conference Account"). If you send currency other than sterling it is necessary to add the equivalent of £2 to cover our costs of conversion into sterling.

We have used all copies of the 254-page "Abstracts" volume, which comprises single page abstracts of all "contributed" papers, together with the colloquium programme. If enough people want a copy we will print more. Please let us know, without sending money for "Abstracts" at this stage, so that we can judge whether demand would be sufficient to justify reprinting. They may cost a maximum of £8.00 per copy including postage depending on numbers. An author index is included in both volumes.

H.D. Burges and C.C. Payne, Joint Organizers
Glasshouse Crops Research Institute
Littlehampton
W. Sussex, United Kingdom.

XV PACIFIC SCIENCE CONGRESS

The XV Pacific Science Congress will be held in Dunedin, New Zealand, 1-11 February 1983. The theme is Conservation, Development and Utilization of the Resources of the Pacific. The Entomology programme includes a Plenary Session entitled "Entomology in the Development of the Pacific". The keynote addresses are as follows:-

"EFFECTS OF PEST CONTROL"

Dr. Bryan P. Beirne, Simon Fraser University, Burnaby, British Columbia.

"CHEMICAL PESTICIDES, PRESENT AND FUTURE"

Dr. J.F. Copplestone, W.H.O. Geneva

"MICROBIAL PESTICIDES, PRESENT AND FUTURE"

Dr. H.D. Burges, Glasshouse Crops Research Institute, Littlehampton

"BIOLOGICAL CONTROL IN THE DEVELOPMENT OF THE PACIFIC"

Dr. Carl B. Huffaker, University of California, Berkeley.

There are 7 Symposia topics:

1. INSECT VECTORS OF HUMAN AND ANIMAL DISEASES IN THE PACIFIC BASIN.

Organizer: B.H. Kay, Queensland Institute of Medical Research, Bramston Terrace, Herston, Brisbane, Australia 4006.

Co-organizer: T.K. Crossby - Entomology Division, D.S.I.R. Private Bag, Auckland, New Zealand.

2. AGRICULTURAL AND FOREST PESTS IN THE PACIFIC BASIN.

Organizer: W. Danthanarayana, Department of Zoology, La Trobe University, Bundoora, Victoria, Australia 3083.

Co-organizer: Peter Maddison - Entomology Division, D.S.I.R. Private Bag, Auckland, New Zealand.

3. EVOLUTION AND DISTRIBUTION OF INSECTS IN THE PACIFIC BASIN

Organizer: I.W.B. Thornton - Department of Zoology, La Trobe University, Bundoora, Victoria, Australia 3083.

Co-organizer: J.S. Dugdale - Division of Entomology, D.S.I.R. Private Bag, Auckland, New Zealand.

4. RICE PEST MANAGEMENT

Organizer: R. Kisimoto, Faculty of Agriculture, Mie University, Tsu, Mie 514, Japan.

Co-organizer: R.P. Pottinger - Ministry of Agriculture and Fisheries, Private Bag, Hamilton, New Zealand.

5. PEST MANAGEMENT SYSTEMS FOR THE PACIFIC BASIN

Organizer: B.P. Beirne, Professor of Pest Management and Dean of Graduate Studies, Simon Fraser University, Burnaby, B.C. V5A 1S6, Canada.

Co-organizer: H. Wearing - Entomology Division, D.S.I.R. Private Bag, Auckland, New Zealand.

6. BIOLOGICAL CONTROL OF INSECTS OF ECONOMIC IMPORTANCE

Organizer: C.B. Huffaker, Division of Biological Control, College of Natural Resources, University of California, Berkeley 1050, San Pablo Avenue, Albany, California 94706, USA.

Co-organizer: E.W. Valentine - Entomology Division, D.S.I.R. Private Bag, Auckland, New Zealand.

7. ACCIDENTAL INTRODUCTION OF INSECTS THROUGH HUMAN AGENCY

Organizer: M. Laird, Research Unit in Vector Pathology, Memorial University of Newfoundland, St. Johns, Newfoundland, Canada.

Co-organizer: P.S. Dale - Ministry of Agriculture and Fisheries, Private Bag, Auckland, New Zealand.

For further details contact Organizers or Co-organizers or write direct to the Convener of the Entomology Programme:

Dr. J.S. Pillai,
Department of Microbiology, University of Otago
P.O. Box 56, Dunedin, New Zealand.

OTHER MEETINGS

7th INT'L CONFERENCE OF APPLIED MICROBIOLOGY 1983/1984 - date and location undetermined. (Dr. T. Rosswall, UNEP/UNESCO/IRCO Panel on Microb., Dept. of Microb., Swedish Univ. of Agri. Sciences, S-75007 Uppsala, Sweden).

2nd INT'L CONGRESS, INT'L SOC. DEVEL. & COMP. IMMUNOLOGY. 14-19 Aug. 1983 Los Angeles, California, USA. (Dr. E.L. Cooper, Local Organizer, Dept. of Anatomy, School of Medicine, Univ. of Calif., Los Angeles, CA 90024, USA).

10th INTERNATIONAL CONGRESS OF ELECTRON MICROSCOPY. 17-24 Aug. 1983, Hamburg, F.R.G. (Dr. Schimmel, Batelle Inst. Postfach 900160, 6 Frankfurt M-90, FRG).

FAO/IAEA PANEL OF EXP. ON THE USE OF ISOTOPES & IRRADIATION IN ENTOM. & RELATED FIELDS. Date and place undetermined (1983). (M. LaBrecque, Ref. AGE, 703 (3), FAO, Via delle Terme di Caracalla, 00100 Roma, Italy).

INTERNATIONAL SYMPOSIUM & WORKSHOP ON APPLICATION OF GENETICS TO THE MANAGEMENT OF WILD PLANT & ANIMAL POPULATIONS. 9-13 Aug. Washington, D.C., USA. (C. Schonewald-Cox, c/o Div. of Nat. Sciences, Nat'l Park Service-494, Dept. of Interior, Washington, D.C. 20240, USA).

3rd INT'L CONGRESS OF CELL BIOLOGY. Date undeter., Japan (1984). (Netherlands Congress Bureau, Rivierstaete, 166 Amsteldijk, NI-1079 Amsterdam, The Netherlands).

17th INTERNATIONAL CONGRESS OF ENTOMOLOGY. 18-26 Aug. 1984, Hamburg, Federal Republic of Germany. (Prof. L.A. Mound, British Museum (Natural History), Cromwell Rd., London SW7, U.K.).

POSITIONS AVAILABLE

Two Graduate Research Assistantships: Available in Jan. or Aug. 1983 leading to either MS or Ph.D. in the fields of insect pathology or microbial control. Candidates with an interest in applied microbiology with backgrounds in microbiology, mycology, or biochemistry are encouraged to apply for these assistantships (\$5,800-\$6,200/yr + out of state tuition waivers). Submit curriculum vitae with transcripts and GRE scores to Dr. D.G. Boucias, Dept. Entomology and Nematology, University of Florida, Gainesville, Fl. 32611.

Insect Pathologist Wanted: To carry out field surveys for potential pathogens of U.S. pest insects and to conduct research on efficacy and host range of such microorganisms. The position is for 1 year beginning January 1, 1983, or later, with the possibility of extension after the initial period of appointment. Salary is 8300 French Francs per month and includes health benefits, unemployment, and French Social Security. The position is located at Station De Recherche De Lutte Biologique Et De Biocentrique, 78 La Miniere Par Versailles (Seine Et Oise), France. Successful applicant must provide their costs for travel to and from France. The project is a cooperative project between the U.S. Agricultural Research Service and the Institut National de la Recherche Agronomique. Interested persons should contact Dr. B. Hurpin at the above address or Dr. B.D. Perkins, European Parasite Laboratory, APO New York 90777 for further information.

DWIGHT LYNN JOINS THE STAFF OF THE INSECT PATHOLOGY LABORATORY IN BELTSVILLE.

In January 1982, Dr. Dwight Lynn joined the staff of the Insect Pathology Laboratory in Beltsville, Maryland. He has begun a new project to develop cell lines from several species of Coleoptera that are serious pests of U.S. agriculture and eventually to develop a program for the *in vitro* study of viral pathogens of these insects. He will also study the growth of insect cells in chemically defined media and the identification of nutrients essential to the production of viruses in cultured cells. He comes to Beltsville from the University of Florida where he worked with Dr. Herb Oberlander of the USDA, ARS, Insect Attractants, Behavior and Basic Bio Research Laboratory, on the effects of insect hormones on cell lines developed from imaginal disks.

MISSING MEMBERS

The current address of the following members is unknown. If anybody knows their whereabouts please inform the undersigned.

D.G. Godse
Aslam Khan

Sardar S. Sohi
Forest Pest Management Institute
Canadian Forestry Service
P.O. Box 490
Sault Ste. Marie, Ontario
Canada
P6A 5M7

RETIREMENTS

L. ("Bill") Bailey B.Sc., Ph.D., D.Sc., retired on May 26, 1982, after a long and distinguished career at Rothamsted Experimental Station, UK, studying the diseases of the honey bee. He worked on a very wide range of bee diseases and received recognition in a special merit promotion. Bill's career was unique in that he studied only one type of insect, the bee, while working with virtually all types of organisms that infected it. He is particu-

larly remembered for his book on bee diseases which, incidentally, will be on sale at the Colloquium at Brighton, UK, this year. Insect Pathology will greatly miss Bill's active participation and I am sure all S.I.P. members will wish to join members in the UK in wishing him a long and happy retirement.

Denis Burges

INVERTEBRATE PATHOLOGY IN GREECE

The only place in Greece where people are working in Insect Pathology and Microbial Control of insects, is Benaki Phytopathological Institute, in Kiphissia near Athens. It has a Laboratory of Insect Pathology and Microbiology with Dr. Chris Yamvrias as Head, and Mrs. Maria Anagnou as Assistant. There are two technicians. The main work involves tests on controlling injurious insect pests in the field using microbial agents; for example, field trials in controlling the olive moth *Prays oleae* with *B. thuringiensis*, and on the pink bollworm *Pectinophora gossypiella* using microbial preparations in combination with baits. Also some work is going on the microbial control of the codling moth in apple and olive orchards. Thus, there is a lot of field work and because of temperate climatic conditions, a lot of pests have more than one generation a year.

In February 1982 Dr. Peter Lüthy of Switzerland, was here for two weeks as a consultant of an FAO Project for olive pests. He worked on the symbiotic bacteria of the olive fly, *Dacus oleae*, in cooperation with this laboratory. Also, Dr. Lüthy gave a talk at the Benaki Phytopathological Institute on *B. thuringiensis* and its mode of action.

Chris Yamvrias,
Regional Correspondent

INVERTEBRATE PATHOLOGY IN LATIN AMERICA

The following is the list of institutions and entomologists working on invertebrate pathology and microbial control in Latin America.

1. Universidad Central de Venezuela, Facultad de Agronomía, Instituto de Zoología Agrícola Apartado 4579 Maracay 2101-A, Edo Aragua Venezuela.

Agudelo, Fernando

Development of the integrated pest management system of pest insects using microorganisms: Nuclear polyhedrosis and granulosis viruses of *Spodoptera frugiperda*; Entomogenous fungi; *Nomourea* sp., *Verticillium lecanii* and *Metarhizium anisopliae*.

Biological control of *Aedes aegypti*, using *M. anisopliae* and *Bacillus thuringiensis* sero type H-14.

Camacaro de Parco, Irma

Biological control of *Toxoptera citricida* (Aphididae). The use of ladybirds, Syrphidae and pathogenic fungi (*Verticillium lecanii*) for the control of this insect.

Molina de Fernandez, Darjaniva

Biological control of *Aedes aegypti*. Special emphasis on the use of *Bacillus thuringiensis israelensis*.

Giraldo, Humberto

Biological control of *Spodoptera frugiperda* using *Ephosoma* sp. (Hym.) and the fungus *Nomurea* sp.

Telleria, Nelson

Biological control of *Aleurocanthus woglumi* (Homoptera: Aleyrodidae) with the use of the fungus *Aschersonia* sp.

Velasquez de Martinez, Sonia

Biological control of *Spodoptera frugiperda* with the fungus *Nomourea* sp. and various predators.

Wassink, Henri

Biological control of *Aedes aegypti* using fungi and *Bacillus thuringiensis israelensis*. Biological control of *Spodoptera frugiperda*, specially with pathogens. Biological control of insects with nematodes, specially with *Neoaplectana carpocapsae*.

2. Organización Mundial de la Salud, Oficina Sanitaria Panamericana, APARTADO POSTAL 2171, Las Delicias, Maracay, Aragua, Venezuela.

Espinola N., Helio

Interested in the biological control of *Rhodnius prolixus* (Hemiptera: Reduviidae, Triatominae). The use of the natural enemies: *Telenomus costalimai*, *Ooencyrtus trinidadensis* and the nematode *Neoaplectana carpocapsae*.

3. CENAZUCAR, Avenida 20 con calle 10, Edificio La Aguja, 6e piso, Barquisimeto, Edo Lara, Venezuela.

Linares F., Blas

Biological control of *Aenolamia* spp. (Homoptera). The use of nematodes (*Hexameris* spp.), predators and the fungus *Metarhizium anisopliae*.

4. Facultad de Ciencias Biológicas, Universidad Autónoma de Nuevo León, Apartado Postal Monterrey, N.L. MEXICO.

Ibarra, Jorge

Interested in the biological control of *Hypantiria cunea*, *Tribolium confusum* and *Sitotroga cerealella* with *Bacillus thuringiensis* (6 different strains) and the fungus *Beauveria bassiana*.

5. IRA - PLANAZUCAR, CX Postal 162, 57000 MACEIO-AL-BRAZIL

Mendoca, F. Artur

Biological control of *Diatraea* sp. and *Mahanarva posticola* (Homoptera: Cercopidae) with the use of natural enemies and the fungus *Metarhizium anisopliae*.

6. Abbot Laboratories de Colombia, Avenida "El Dorado" No 96 - 10, BOGOTA, Colombia.

Moncayo P., Jenner

Interested in the use of *Bacillus thuringiensis* for the control of insects.

7. FONAIAP/CIARCO, Estación Experimental Araure, Apartado 102, APARTADO 102m ACARIGUA, Edo Portuguesa, Venezuela.

Perez Nieto, Gerardo

Biological control of *Aenolamia* spp. (Homoptera: Cercopidae) using its natural enemies; and pathogens like nematodes, *Excaeremis* spp., and the fungus *Metarhizium anisopliae*.

8. Misión británica en Agricultura Tropical, Casilla 359, Santa Cruz de la Sierra, CIMCA, el Centro de Investigación y Mejoramiento de la Caña de Azúcar. Casilla 231, Santa Cruz de la Sierra, BOLIVIA.

Pruett, Cris H.

Biological control of various species of *Diatraea*, *Elasmopalpus*, *Metamasius* and *Saccharicoccus* with parasites (*Telenomus*, *Bracon*, *Trichogramma* sp.) and with the fungi *Metarhizium anisopliae* and *Beauveria bassiana*.

9. O.R.S.T.O.M.
B.P. 165, 97305, Cayenne Cedex, Guyane Française.

Remillet, Michel

Biological control of *Spodoptera frugiperda* and *Mocis latipes*. For the first time the nematode *Neoplectana carpocapsae* is used by importing it from France.

10. Instituto Universitario Tecnológico, San Felipe, Edo Yaracay, Venezuela.

Thomas, René - Albert

Interested in the use of *Bacillus thuringiensis*

Henri Wassink
Regional Correspondent

BRIGHTON SIP MEETING 1982 HIGHLIGHTS

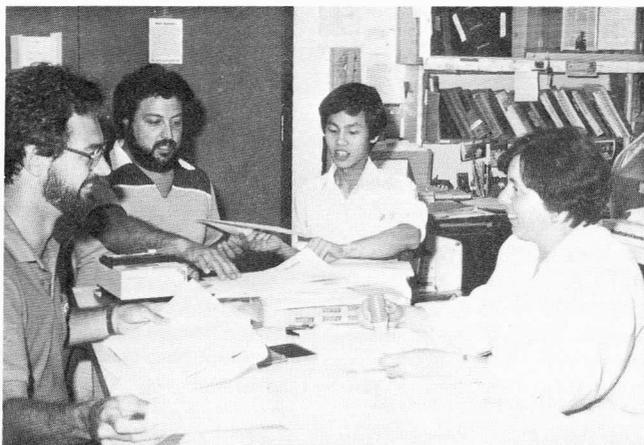


Phyllis Johnson, Chris Payne and the Lord Mayor of Brighton at the Royal Pavillion reception.



Leonard Goldberg (R.) and Joel Margalit.

SEASON'S GREETINGS
FROM THE EDITORIAL
AND PRODUCTION STAFF
OF THE SIP NEWSLETTER



L. to R.:
Paul Dagenais,
Guido Caputo,
Van Cuong Nguyen,
Barbara Cook.

Missing:

Donna Weeks
Sardar Sohi