

sip

newsletter

society for invertebrate pathology

Volume 13, Number 4
October 1981

URGENT

FOR SURVIVAL OF OUR JOURNAL

OVER THE PAST YEAR THE NUMBER OF INDIVIDUALS TAKING THE JOURNAL OF INVERTEBRATE PATHOLOGY HAS HALVED AND THE NUMBER OF INSTITUTIONS FALLEN BY OVER 10%. UNLESS THIS TREND IS REVERSED THE JOURNAL WILL BE DISCONTINUED. IT IS VITAL THAT MORE INDIVIDUALS TAKE THE JOURNAL AND THAT EVERYONE FIGHTS TO MAINTAIN IT IN LIBRARIES, AND INTRODUCE IT INTO MORE LIBRARIES.

August 16, 1981, SIP Council

THIRD INTERNATIONAL COLLOQUIUM ON INVERTEBRATE PATHOLOGY AND 15TH ANNUAL MEETING OF THE SOCIETY FOR INVERTEBRATE PATHOLOGY

Preparations are proceeding well for the meeting at Brighton, UK, September 6-11, 1982. The registration form and "second circular" will be sent in the January 1982 issue of the Newsletter. In the meantime, if you plan to come please let us know on the tear sheet at the bottom of the enclosed first circular to help us estimate numbers.

We have had some success in obtaining outside finance to offset some of the conference costs, with a total of approximately \$3,000 received or promised. A limited amount may also be available from British sources to make some contribution to travel and accommodation costs for a few speakers. Approaches are being made by Dr. J. Briggs and Dr. P. Johnson in the USA for support from NIH and UBS.

The Society for General Microbiology (UK) has made a contribution to offer a reduced registration fee for students belonging to the British Society. Students wishing to take advantage of the Society grant should write to Dr. Payne and include a letter from their Supervisor or Head of Department confirming their student status and membership of the Society.

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

OTHER MEETINGS

The VI INTERNATIONAL CONFERENCE ON INVERTEBRATE TISSUE CULTURE will be held at the Ponce de Leon Lodge in St. Augustine, Florida, June 5-10, 1983. It will precede the Annual Meeting of the Tissue Culture Association to be held the following week in Orlando, FL. The Conference is being co-chaired by Drs. Edouard Kurstak, Karl Maramorosch, and Herbert Oberlander. Suggestions for the Conference may be submitted to these individuals.

BELTSVILLE SYMPOSIUM VII, GENETIC ENGINEERING: APPLICATIONS TO AGRICULTURE, will be held 16-19 May 1982, at the Beltsville Agricultural Research Center. For further information, contact Dr. Lowell D. Owens, USDA-ARS, Room 116, Building 011A, BARC-West, Beltsville, MD 20705. (301) 344-4072.

JOURNAL OF INVERTEBRATE PATHOLOGY

The 1982 subscription rates for the Journal of Invertebrate Pathology are given below. It will continue to be published bimonthly in two volumes of 400 pages each per year. Volumes begin in January and July. No postage is charged to SIP members in or outside U.S.A.

Subscribers in the U.S.A.

| | <u>Per Volume</u> | <u>Per Year</u> |
|--------------|-------------------|-----------------|
| Institutions | \$66.00 | \$132.00 |
| SIP Member | 33.00 | 66.00 |
| Postage | -- | -- |

Subscribers Outside the U.S.A.

| | | |
|--------------|-------|--------|
| Institutions | 74.00 | 148.00 |
| SIP Member | 33.00 | 66.00 |
| Postage | -- | -- |

DR. V. PRISTAVKO has relocated himself. In his new position his main field of interest is forest entomology and he would like to establish contacts with other forest entomologists. His new address is:

Dr. V. Pristavko, Head
Department of Entomology
Institute of Zoology
Akademicheskaya 27
220733 MINSK - 72
U.S.S.R.

We are sorry to report the sad and sudden death of DR. FREDERICK B. BANG on Sunday, October 4, 1981. Dr. Bang was a charter member of the Society for Invertebrate Pathology.

SIP NEWSLETTER

The SIP Newsletter is produced four times a year by the Society for Invertebrate Pathology. Annual dues in the Society are: US members, including A.I.B.S. affiliation, \$12.00; non-US 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. James D. Harper, Dept. of Zoology-Entomology, Auburn University, Auburn, Alabama 36849 USA. Council Officers of the Society are:

| | |
|----------------|---------------------------------|
| President | Phyllis T. Johnson, USA |
| Vice President | Wayne M. Brooks, USA |
| Past President | Jaroslav Weiser, Czechoslovakia |
| Secretary | Oswald N. Morris, Canada |
| Treasurer | James D. Harper, USA |
| Trustees | H. Denis Burges, England |
| | Michael C. Mix, USA |
| | Terry L. Couch, USA |
| | Peter Luthy, Switzerland |

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

The meeting was called to order at 11:10 a.m. by President Johnson. Dr. John Henry thanked Martha Wilson, Jim Darling and Elaine Oma for their help in organizing and running the Meeting. President Johnson introduced Dr. Don Roberts as the new Chairperson of the Permanent Program Committee, and Dr. Sardar Sohi as the Newsletter Editor and Member of Publication Board. Dr. Sohi requested Newsletter submissions one month before production dates in January, April, July and October. Secretary Morris announced that the minutes of the previous business meeting had been published in the Newsletter. A motion to accept the minutes as published was moved, seconded and passed.

Treasurer Harper reported total receipts of \$17,961.60 (including a previous balance of \$4,119.53) and total disbursements of \$11,552.97 leaving a balance of \$6,408.63 as of August 14, 1981. He mentioned that a total of \$597.75 in Canadian funds which was the principal plus interest on the proceeds from the SIP Meeting in Kingston, has been used to cover the cost of mailing ballots and Newsletter from Canada resulting in a considerable saving in exchange cost by avoiding a two way transfer of funds. SIP currently has 644 members including 593 regular, 37 student, 7 emeritus, 3 honorary and 4 sustaining members. Of the 593 regular members, only 387 are in good standing. Dr. Jim Fuxa announced that the Treasurer's books were in good order. A motion to accept the Treasurer's report was seconded and passed. The President made a plea to members to subscribe to the Journal of Invertebrate Pathology.

Reports of the committees presented at the Council Meeting will be published in the Newsletter. President Johnson announced that according to the constitutional amendments, the Newsletter editor is now a member of the Publication Board.

Dr. John Henry was recognized for his highly efficient organization and running of the Bozeman Meeting, and Don Roberts announced the future meeting sites:

1982 - Sussex, UK in conjunction with the International Colloquium on Invertebrate Pathology. Currently, there will be a workshop at Pennsylvania State University in conjunction with AIBS.

1983 - Cornell University, Ithaca, N.Y.

1984 - Presently undecided. Don Roberts requested invitations.

Under new business Dr. Elizabeth Davidson announced that the Working Group on Safety had voted for applying to the Council for Divisional status. Drs. J.C. Cunningham, Dan Molloy, H.D. Burges and E.W. Davidson were members of the Organizing Committee. Dr. Johnson announced the SIP-WHO contract made for one year and renewable. Dr. Burges explained that WHO items in the Newsletter will include deadlines for receipt of research projects to be supported by WHO, specific research projects in which WHO is interested, and advertisements of vacancies in the organization. Dr. Burges announced that WHO has earmarked \$600,00 for research in microbial control.

President Johnson gave a brief history of SIP's association with AIBS. She reported that AIBS was changing direction towards an advocacy organization and that SIP Council had decided to terminate the SIP affiliation with AIBS after 1982.

Dr. Paul Fast moved that contributed paper sessions become poster sessions in the future and that the free time be used for Symposia. Following considerable discussion, the motion was voted down 39 against, 1 for. Dennis Burges moved that abstracts and proceedings of future SIP meetings be considered citable in scientific literature. The motion was defeated 21 against, 5 in favour.

Dr. Angus' motion that the preceding motion be referred to Council for further consideration was carried unanimously.

Motion to adjourn the meeting was seconded and passed, and the meeting adjourned at 12:10.

O.N. Morris
Secretary

SIP COMMITTEE REPORTS

Report of the Secretary

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

Ballots were sent out to SIP members on the questions of dues increase and constitutional amendments. Both questions were approved by the membership and the results were published in the Newsletter. The SIP-WHO contract signed by President Johnson and myself was sent to Dr. Vandekar in Geneva on June 25, 1981. I have been advised by Dr. Sohi that the agreed number of SIP Newsletters has been sent to WHO.

Committee members were contacted in May 1981 requesting their presence at the Bozeman Council meeting to present their reports. Drs. Dulmage and Martignoni replied that they were unable to attend but that their reports would be read by someone else.

Council members were sent copies of the proposed agenda on June 25 with requests for additions or comments. A Canadian mail strike took place immediately after mailing so that some council members may not have received their agenda. If this was the case, then a Canadian apology is in order.

Dr. Peter Faulkner, Queen's University, Kingston, Ontario transferred \$597.75 Can. to the SIP account in Sault Ste. Marie in September, 1980. Expenditures from this to date are \$30.34 for envelopes, \$156.05 for postage of ballots, \$357.77 to Dr. Sohi for Newsletter postage, and \$3.63 for U.S. exchange due to mailing some of the Newsletters in Michigan. Present balance is \$49.96.

Several change of address notifications were forwarded to the Treasurer. The perennial problem of effecting changes of address is still a sore point that should be discussed by this Council.

O.N. Morris
Secretary

Financial Statement of SIP for the Period July 22, 1980-
August 14, 1981

Receipts

| | | |
|------------------------------------------------------|----------|------------------|
| Balance on hand July 22, 1980 | | \$4,119.53 |
| Membership dues | | |
| Regular | 4,954.45 | |
| Student | 88.00 | |
| Sustaining | 500.00 | 5,542.45 |
| Division on Microsporida | | 57.00 |
| Division on Microbial Control | | 100.00 |
| AIBS affiliation dues (U.S. members only) | | 260.00 |
| Interest | | 61.85 |
| Journal of Invertebrate Pathology subscriptions 1981 | | |
| U.S. | 3,491.00 | |
| Other | 3,559.00 | 7,050.00 |
| Miscellaneous | | |
| Dues paid in advance | 42.00 | |
| Profit on Seattle SIP meeting | 662.77 | |
| Sale of Prague meeting proceedings | 7.00 | |
| Refund from Academic Press | 59.00 | 770.77 |
| | | <u>17,961.60</u> |
| | TOTAL | |

Disbursements

| | | |
|----------------------------------------------------------------------------|----------|------------------|
| Journal orders Academic press | | 7,119.00 |
| Newsletter | | |
| Printing and envelopes | 1,368.10 | |
| Postage & miscellaneous expenses | 691.39 | 2,059.49 |
| AIBS affiliation dues | | 375.00 |
| AIBS mailing labels, membership lists, etc. | | 197.72 |
| Annual Meeting expense | | |
| Bozeman | 400.00 | |
| Seattle | 621.82 | 1,021.83 |
| Officers' expenses | | |
| Treasurer--member billing, correspondence, envelopes, paper, copying, etc. | 61.06 | |
| Foreign check cashing charges & money order fees | 36.94 | |
| Postage | 341.13 | |
| Other officers' expenses | | |
| Ballots | 29.40 | |
| Postage, stationary, copying, misc. | 86.40 | 554.93 |
| Dues for Pacific Science Assn. | | 25.00 |
| Partial support of Directory of Invertebrate Pathologists | | 200.00 |
| Balance on hand August 14, 1981 | | 6,408.63 |
| | TOTAL | <u>17,961.60</u> |

Our society also had \$597.75 in Canadian funds in a bank in Canada. This was the principal plus interest of the proceeds earned from the SIP meeting in Kingston. This money was transferred to our secretary, Dr. Morris, in Sault Ste. Marie, and has been utilized to cover the cost of mailing the ballots and the Newsletter from Canada. This resulted in a considerable saving in exchange costs by avoiding two way transfer of funds.

Respectfully submitted,

James D. Harper
Treasurer

Report of the Journal of Invertebrate Pathology

The Journal of Invertebrate Pathology continues as a viable vehicle for the publication of original research papers dealing with some aspect of the pathobiology of invertebrates. The Journal remains international, although all reports are published in English.

During the period extending from July 1, 1980 through June 1, 1981, this office received 188 manuscripts for consideration. Of these, 52 have been accepted and 35 rejected. The remaining 101 manuscripts are still in the process of being revised by the authors or are out for reviews. These figures are comparable to those for the previous four years except that authors appear to be slower in returning revised manuscripts.

As of June 1981, the number of subscriptions to JIP has dropped significantly. In last year's report (June, 1980), I recorded the following:

| | <u>U.S.A.</u> | <u>Foreign</u> | <u>Total</u> |
|--------------|---------------|----------------|--------------|
| Institutions | 361 | 430 | 791 |
| Individuals | 88 | 62 | 150 |
| | <u>449</u> | <u>492</u> | <u>941</u> |

Academic Press has provided us the following figures as of June, 1981.

| | <u>U.S.A.</u> | <u>Foreign</u> | <u>Total</u> |
|--------------|---------------|----------------|--------------|
| Institutions | 346 | 335 | 681 |
| Individual | 39 | 43 | 82 |
| | <u>385</u> | <u>378</u> | <u>763</u> |

Thus, we have lost 178 subscriptions during the past year. This is a matter the Executive Council of the Society for Invertebrate Pathology must give immediate and constructive thought to. As has been stated in previous years, JIP should have at least 1,000 subscriptions to remain financially solvent. Serious thought should be given to tying membership dues to journal subscription.

An alternative solution, which would be unpleasant, is to give higher priority and preferential treatment to manuscripts submitted by subscribers. It is disgraceful that only 39 Americans are subscribing to the Journal.

Other than the subscription problem, JIP remains essentially unchanged. Every issue during the past year has appeared on schedule and all of the allowed number of pages have been used.

Respectfully submitted:

Thomas C. Cheng
Editor & Chairman Editorial Committee

Report of the Program Committee

A very successful annual meeting of the Society for Invertebrate Pathology was held in Bozeman, Montana on 16-20 August 1981. A sincere vote of thanks is owed to the Local Arrangements Chairman, John Henry, and to his hard-working and enthusiastic staff. The program included approximately 80 contributions arranged in a poster session, contributed paper sessions and four symposia. In addition, three workshops were held. Plans for 1982 include the SIP annual meeting and International Colloquium on Invertebrate Pathology and Microbial Control to be held at the University of Sussex, Brighton, U.K.,

September 5-10, 1982. The secretary for this meeting is Dr. H. Denis Burges. The organizing committee consists of Drs. Burges, Christopher Payne, Donald W. Roberts, and Elizabeth Canning. In addition, there will be a SIP-sponsored meeting held in conjunction with AIBS at Pennsylvania State University, University Park, August 8-13, 1982. Local Arrangements Chairmen for this meeting will be William Yendol and William J. McCarthy. The meeting site for 1983 will be Ithaca, New York. The sites for 1984 and 1985 are currently being selected, and invitations from interested organizations are invited.

Donald W. Roberts
Chairperson

Report of the Membership Committee

As of August 14, 1981, the Society for Invertebrate Pathology had a total of 644 members in the following categories:

| | |
|------------|------------|
| Regular | 593 |
| Student | 37 |
| Emeritus | 7 |
| Honorary | 3 |
| Sustaining | 4 |
| Total | <u>644</u> |

During the period from the 1980 Seattle SIP meeting to August 14, 1981, 49 members have been dropped, 44 for non-payment of dues (at least 3 years in arrears) and five by resignations. An additional 52 members have been added to the Society. This number includes one honorary member, Mrs. Mabry Steinhaus. Two members were granted emeritus status, Dr. James V. Bell and Dr. Jehanne Francoise Manier.

Of the 593 regular members, 387 are in good standing at present, 130 are one year in arrears, 50 are two years in arrears, 25 are three years in arrears, and one is four years in arrears for dues payments. Of the student members, 23 are in good standing, 10 are one year in arrears, one is two years in arrears, and three are three years in arrears.

Respectfully submitted,

Jim Harper
Chairperson

Report of the Glossary Committee

There were no changes in Committee membership during the past year. All definitions have been completed. The Editor is especially grateful to Dr. Micahel C. Mix, who added a substantial selection of terms from the areas of crustacean and molluscan pathology and hematology. Editing, including preparation of subentries and cross-references, is now in progress. The final copy will be set on the Wang word processing system recently installed at the Forestry Sciences Laboratory in Corvallis.

The final, edited copy of the multilingual list of key terms for invertebrate pathology (English, French, German, Italian, and Spanish) is now ready for the printer. It is a privilege to acknowledge the valuable cooperation of the three translators, Drs. C. Vago, A. Krieg, and H. Ross-moore. The Forestry Sciences Laboratory in Corvallis (Forest Service, USDA) contributed funds for processing the translations and producing the five lists by IBM System 6 information processor. The Editor is currently

investigating avenues for publication of this voluminous multilingual thesaurus.

Respectfully submitted,

July 30, 1981

Mauro E. Martignoni
Glossary Editor

Report of the Special Committee on Constitutional Revision

When the Society was formed, on May 9, 1967, its founders considered it appropriate to combine constitutional tenets and procedural matters in a single document, known as the "Constitution and Bylaws" of S.I.P. As our Society grew in size and complexity, modifications of articles dealing with fundamental as well as procedural matters became necessary. Most articles of our Constitution and bylaws were amended during the past 14 years. According to Article XI of our Constitution and Bylaws, any proposed amendment, however minor, must be presented at a general membership meeting of the Society and, if approved, must be ratified by two-thirds of the members voting in a mail ballot. This procedure protects the integrity and continuity of the Constitution and Bylaws, as was the intent of the founders of the Society. On the other hand, the procedure is too laborious for the relatively minor changes in procedural details that are becoming necessary for the efficient management of the Society. Over the years it became apparent that two separate documents are needed, the Constitution of the Society and the companion Bylaws. The mission of the Special Committee established January 9, 1980 by the then President Dr. Jaroslav Weiser and Vice President Dr. Phyllis T. Johnson, is to develop these two separate documents. Once completed, the two documents will be submitted to Council for review and approval, and to the general membership for ratification.

The initial Committee, appointed January 9, 1980, consisted of Drs. Wayne M. Brooks, Phyllis T. Johnson, and Mauro E. Martignoni (members), and Albert K. Sparks (Chairperson). On August 18, 1980, Dr. Sparks announced his desire to relinquish the chair and offered to continue serving as committee member. President Johnson reappointed Drs. Brooks and Sparks as members, and appointed Dr. Martignoni as Chairperson. Dr. Johnson continues to serve as a member of this special committee.

The committee is pleased to report that it has approved the third and final draft of the new Constitution, after extensive revisions of the first and second drafts. The Committee also prepared a detailed working outline for the new Bylaws of the Society. The Committee was careful to include all basic tenets of S.I.P. in the Constitution, while excluding all procedural details. Such details will appear in the second document, the Bylaws, now in preparation. The amendment clauses of the two documents will differ significantly. A constitutional amendment requires a substantial number of proponents, Council review and approval, and, finally, general membership mail ballot with ratification by two-thirds of the voting members. Bylaws amendments would require Council approval but would not be submitted to the general membership by mail. Ratification would be by vote at a General Membership Meeting. Because Bylaws deal largely in procedural matters and must operate within the framework of the

Society's Constitution, the Committee feels that the simplified amendment procedure would be beneficial as well as safeguarded.

On May 15, 1981, this Committee submitted the final draft of the proposed new Constitution and the outline of the proposed Bylaws to President Johnson, for Council review.

Respectfully submitted,

July 29, 1981

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

Report of the Archivist

The relatively extensive correspondence of several of our past officers has been received during the past year and will be added to archive files in the near future. Similar correspondence of other officers will also be welcomed.

As time permits, I will be glad to assist anyone who needs information available in our files on the Society and will try to organize this material to facilitate retrieval.

W.M. Brooks
Archivist

Report of the SIP Newsletter Editor

Four Newsletters (Vol. XII, No. 4; Vol. 13, Nos. 1, 2 and 3) were produced and mailed to the members during the period September 1980 to August 1981. In addition, 50 copies of each issue were sent to the World Health Organization in Geneva, Switzerland, and 10 copies of each were supplied to the Archivist of the SIP and a similar number to the Treasurer. Three issues had eight pages each, and one (Vol. 13, no. 3) had 10 pages, five of which were devoted to the program of the 14th Annual Meeting of the Society. The total cost for the year was US \$1,866.44 (Can. \$2,195.82), which works out to U.S. \$466.61 per issue.

Three minor changes were made in the format of the Newsletter starting with Vol. 13. First, the volume of the Newsletter has been changed from roman numerals for ease of reading. Second, the pagination within a volume has been made continuous instead of starting each issue with page 1. This should facilitate citation of material from the Newsletter inasmuch as one would not have to write issue number while citing anything from it. Third, identification of the Newsletter, names of the Council Officers, and the procedure to join the Society are given on the inside of front cover of each issue.

The cost of bulk mailing and direct mailing to overseas was compared, and it was found that there is no saving in bulk mailing from Canada, although it would be cheaper to bulk mail than direct mail from USA. Therefore, I would continue to send the Newsletter by direct Airmail to individual members. The names of our Regional Correspondents are listed below, and I would like to thank them for their continued assistance.

K. Aizawa, Japan
 S.V. Amonkar, India
 H.D. Burges, United Kingdom
 H. Boman, Scandinavia
 P. Ferron, France
 B. Gabriel, The Phillipines
 E. Jahn, Austria
 F. Jimenz-Millan, Spain
 R. Kenneth, Israel
 G. Kuno, Central America
 J.I.S. Pillai, New Zealand
 V. Pristavko, U.S.S.R.
 J.E. Stewart, Canada
 R. Teakle, Australia
 L.P.S. van der Geest, The Netherlands
 C. Yamvrias, Greece

14 August, 1981

Sardar S. Sohi,
 Editor

Report of Division on Microbial Control

As of August 14, 1981, 100 members had paid \$1.00 dues and were recognized as the official membership of the Division at the time of the Bozeman meeting. A letter was mailed to members in June requesting nominations for the first elected Division officers. From these nominations, a committee chaired by John Henry developed a slate of officers to be voted on by the members present at the Division's business meeting held on Thursday, August 20, 1981 during the Bozeman SIP meetings. Approximately 25 division members were in attendance. Following presentation of the slate of candidates and a call for nominations from the floor, a vote was taken by paper ballot. Officers elected were James D. Harper, chairperson; Denis Burges, chairperson-elect; James Fuxa, secretary-treasurer; Don Roberts, member-at-large (one-year term); John Cunningham, member-at-large (two-year term).

As its first official function, the Division sponsored a symposium on formulation and application of microbial pesticides at the Bozeman meetings. This was convened by Denis Burges and was a very productive symposium for those in attendance.

The Division anticipates sponsoring a workshop at the Brighton meetings in 1982. Members are encouraged to submit suggestions for topics for discussion to any officer.

Respectfully submitted,

James D. Harper
 Chairperson

Report of the Microsporidia Division

As of August 15, 1981 the Division had 47 paid-up members. A business meeting and workshop were conducted during last year's meeting at the University of Washington in Seattle. At the business meeting a report was heard from the nominating committee and an election was held. The new officers are:

| | |
|-------------------|--------------------|
| Chairperson: | Albert H. Undeen |
| Vice Chairperson: | Rosalind J. Barker |
| Secretary: | Douglas A. Streett |
| Council Member: | Nelda E. Alger |
| Council Member: | Gary G. Wilson |

The workshop consisted of an informal discussion of ultrastructural features of several microsporidia. Five members were in attendance.

Proceedings of the Safety Working Group Meeting
Bozeman, Montana. August 17, 1981

Because of recent problems with utilization of SIP funds for mailings to Safety Working Group (SWG) members, it was suggested that the working group should consider becoming a Division of the Society. The question of applying for Divisional status was approved by a vote of 18 to 8, with 22 abstaining. The chairperson was re-elected, along with a committee consisting of John Cunningham, Terry Couch, Dan Molloy and Denis Burges to write objectives and bylaws of the SWG. If approved by the SWG, Divisional status will then be considered by the SIP Council.

The discussion this year focused on consideration of the new Drafted US-EPA Tier Testing Procedures. Terry Couch briefly discussed these procedures, and urged members to send comments to EPA on these guidelines that are available from the Document Control Officer, Office of Pesticides and Toxic Substances (TS-793), Chemical Information Division, EPA, Room 447, East Tower, 401 M Street S.W., Washington D.C. 20460, attn: Pesticides. John Cunningham outlined the registration procedures for Canada, and Denis Burges discussed the U.K. and European Economic Community registration procedures. Dr. Burges then reiterated recent activities of the World Health Organization Committee to recommend protocols for safety testing of microbial control agents for vectors. This document, WHO/VBC/81.820, is available from Dr. Copplestone, Biological Control of Vectors, World Health Organization, 1211 Geneva 27, Switzerland.

Robert Granados discussed recent work done at Boyce Thompson Institute which showed that Autographa californica NPV was taken up by the Chinese hamster cells, but did not replicate.

Dr. W.A. Smirnoff submitted a written report for the consideration of the members of potential problems of safety and efficacy of the oil-based Bacillus thuringiensis preparation "Dipel 4L" sold in Canada under the name of "Dipel 88".

It was suggested that at the next annual meeting the group should consider drafting a position paper on the EPA guidelines. Participation in the process of developing these guidelines is strongly encouraged.

The Documents Repository (currently 35 documents) is still in the possession of Dr. Marshall Laird, Research Unit on Vector Pathology, Memorial University, St. John's, Newfoundland A1C 5S7. Requests for documents will be processed more quickly if sent directly to Dr. Laird.

Elizabeth W. Davidson
 Chairperson

POSITIONS AVAILABLE

Assistant Research Scientist position is available for an IMMUNOTOXICOLOGIST to work on the immunochemical analysis of pesticides and other environmental contaminants of toxicological significance, protein toxins from Bacillus thuringiensis, and proteins involved in xenobiotic

metabolism. Applicants should send a curriculum vitae, transcripts, names of three references and relevant publications to Dr. Bruce D. Hammock, Chair of Search Committee, Department of Entomology, University of California, Davis, CA 95616 by October 31, 1981. An Equal Opportunity/Affirmative Action Employer.

The Virology Laboratory at the Department of Biological Sciences, Texas Tech University is conducting research on the molecular biology, genetics, and pathogenicity of invertebrate virus systems. The aims of this research are to i) develop artificial 'superviruses' by genetic engineering approaches, ii) to understand the molecular mechanisms of viral pathogenicity, specificity, and tissue tropism using simple invertebrate models. The following research positions are anticipated beginning September 1, 1981 but applicants who would prefer to start at a later date are also encouraged to inquire:

1. Postdoctoral Fellow. Stipend \$14,000 - \$16,000 p.a.
2. Research Assistant. Work toward PhD in Microbiology or Cell Biology. Stipend \$7,000 p.a.
3. Research Assistant. Work toward MS or PhD in Microbiology or Entomology. Stipend \$5,000 - \$7,000 p.a.
4. Technician (\$12,000 - \$14,000)
To assist with cell culture and biochemistry experiments on baculoviruses. Some familiarity with cell culture or molecular fractionation techniques preferred.

Interested individuals should contact Dr. S.L. Bilimoria, Department of Biological Sciences, Texas Tech University, Lubbock, TX 79409, Phone (806) 742-2884.

A position for a graduate student (M.Sc. or Ph.D.) is available immediately in the area(s) of virology, biochemistry, and/or entomology. Students with a good background in one or more of these areas are invited to make enquiries. Research deals with an elucidation of symbiosis between ichneumonid parasitoids and viruses. Relevant literature: *Adv. Virus Res.* 24: 125, 1979; *Virology* 101: 408, 1980; *Canad. J. Microbiol.* 27: 123, 1981; *Science* 211: 582, 1981. Contact Dr. D.B. Stoltz, Dept. of Microbiology, Dalhousie University, Halifax, Nova Scotia B3H 4H7.

A postdoctoral position to study Lagenidium as a pathogen of mosquitoes is currently available at the Boyce Thompson Institute in Ithaca, New York. Applications from third world scientists are invited. Please send biodata and three references to Dr. Donald W. Roberts, Insect Pathology Resource Center, Boyce Thompson Institute, Tower Road, Ithaca, New York 14853.

INSECT PATHOLOGY ON THE CORNELL UNIVERSITY CAMPUS

The 1983 SIP meeting will be held August 7-12 in Ithaca, NY. The following information on your hosts for this meeting has been provided by them at your Editor's request. They promise more details on the activities of individual scientists before the meeting in 1983.

Although individual students had worked on various insect pathology problems previously, the topic was not formally initiated on the Ithaca, New York campus of Cornell University (CU) until 1965 when Dr. John P. Kramer joined the Department of Entomology. In 1978 the Boyce Thompson Institute (BTI), a nonprofit research organization initiated in 1923, moved from Yonkers, New York (near New York City) into a new four-story building on the CU Ithaca campus. BTI is subdivided into several programs, one of which is Biological Control. Most members of this group work with insect pathogens, but one subgroup is working on insect physiology. Also, in 1978 Dr. Richard S. Soper of the US Department of Agriculture transferred his project from Maine to the BTI building where he has assembled a group to work on Entomophthorales. This unit is called the USDA-SEA-AR Insect Pathology Research Unit.

Late in 1979 an informal consortium of the three groups was formed under the title "Insect Pathology Resource Center" (IPRC). The functions of the group are training, pathogen repository, consulting, and basic and applied research. Emphasis is on microbial control of pests, and the group is particularly interested in studies which bridge basic and applied research. The staff normally numbers approximately 15 at the professional level with a similar number of technical assistants. The current staff includes:

| <u>NAME AND AFFILIATION</u> | <u>SPECIALITIES</u> |
|-----------------------------|--------------------------------------------------------------------------|
| <u>Staff</u> | |
| Richard A. Daoust BTI | Bacterial and fungal pathogens. |
| Robert R. Granados BTI | Insect virology, ultra-structure and cell culture. |
| Patrick R. Hughes BTI | Bioassay and mode of action of viruses. |
| Richard A. Humber USDA | Insect mycology, systematics. |
| John P. Kramer CU | Entomophthorans and microsporidians of dipterous insects, epizootiology. |
| William H.R. Langridge BTI | Insect virus gene expression. |
| Donald W. Roberts BTI | Insect mycoses, diseases of medically important arthropods, toxins. |
| Maurie Semel CU | Field evaluation. |
| Richard Soper USDA | Insect mycoses, epizootiology. |
| H. Alan Wood BTI | Insect virology, host-virus interactions. |
| <u>Postdoctoral Fellows</u> | |
| John P. Burand BTI | Insect viruses. |
| Dennis E. McCabe USDA | Fungal genetics. |
| R. Russell M. Paterson USDA | Fungal physiology. |
| Brad Stiles BTI | Insect viruses. |
| <u>Consultant</u> | |
| Michael G. Ward USDA/BTI | Microbial formulations. |
| <u>Students</u> | |
| Chris Tarrant CU/USDA | Diseases of blackflies. |
| Ibrahim M. Abalis CU/BTI | Toxins. |
| Estaban L. Cuevas CU | Entomophthorales. |
| Sandra Galaini CU/BTI | Fungal diseases. |

Visiting scientists conducting studies at IPRC in the past 18 months include: Remy Aguda (Philippines), Bernardo P. Gabriel (Philippines), Albrecht Groner (W. Germany), Zhiyu Lu (People's Republic of China), and Claudio L. Messias (Brazil). Anthony Sweeney (Australia) joined us for 6 months in August.

IPRC, with financial assistance from the Rockefeller Foundation, conducted a "Workshop on Insect Pest Management with Microbial Agents: Recent Achievements, Deficiencies, and Innovations" in May, 1980. There were approximately 200 participants and 50 speakers and panelists representing 25 nations. Proceedings including abstracts and recommendations (70 pages) are available gratis. Contact Don Roberts, IPRC, Boyce Thompson Institute, Tower Road, Cornell University, Ithaca, NY 14853.

We are looking forward to hosting the SIP meeting in 1983 and hope you enjoy what we think is an exceptionally pleasant physical and intellectual environment.

FUNGAL ENTOMOPATHOGENS: REPOSITORY/IDENTIFICATION SERVICES

The USDA-SEA-AR Insect Pathology Research Unit (IPRU), Insect Pathology Resource Center (IPRC), Boyce Thompson Institute, Tower Road, Ithaca, NY 14853, maintains an extensive culture collection of more than 500 isolates from the entire spectrum of entomopathogenic fungi now in culture. The collection is stored in liquid nitrogen, and serves as a primary resource for IPRC fungal research programs. However, it is IPRU policy that this collection should serve the entire scientific community: Cultures of every isolate (except the few whose distributions have been restricted by the depositors) can be provided free of charge. The collection is continually expanding and we particularly welcome depositions from outside laboratories. Because this facility is run on a no-charge basis, it is well suited as a back-up reserve for cultures being actively investigated in any part of the world.

In addition to the repository function for cultures, the IPRU can provide accurate identifications of entomopathogenic fungi submitted as slides, specimens, or cultures. These free identification services are an important way to extend our knowledge of the world flora of entomopathogenic fungi, and we encourage submission of specimens and cultures from all parts of the world.

For further information about obtaining cultures or a catalog of the culture collection, or about the procedures for submitting any cultures to the collection, or for submitting fungi for identification, contact either Dr. R.A. Humber or Dr. R.S. Soper at the IPRU.

NEW BOOKS

PATHOGENESIS OF INVERTEBRATE MICROBIAL DISEASES. Edited by Elizabeth W. Davidson, Dept. of Zoology, Arizona State Univ., Tempe, Arizona, U.S.A. Allanheld, Osmun & Co., Publishers Inc., 81 Adams Dr., Totowa, N.J., U.S.A. 1981, ca. 500 pp, \$40.00.

This work covers the present state of knowledge of viral, bacterial, and fungal diseases of invertebrates. In light of the importance of the pathology of microbial diseases to most studies utilizing the microorganisms, this volume attempts to provide a single source of basic information that will be useful to new investigators and established scientists. It is also intended to serve as a resource for pathologists working with other organisms, revealing the similarities as well as differences among disciplines, and as stimulus to further research by systematically identifying gaps in present knowledge within each area of specialization.

The book is divided into three parts: I. Viruses, II. Bacteria, and III. Fungi; and provides index. The contributions on viruses are by P. Faulkner, C. Payne, D. Kelly, R. Granados and J. Couch; on bacteria by O. Lysenko, C. Splittstoesser, C.Y. Kawanishi, H.E. Huber, P. Luthy, H.R. Ebersold, E.W. Davidson, M-M. Lecadet, H. deBarjac and A.K. Sparks; and on fungi by A. Domnas, R. Zacharuk, A.W. Sweeney, D. Lightner and T. Unestam. Also, there is a paper by D. Briese on resistance to microbial infections.

BIOLOGICAL CONTROL IN CROP PRODUCTION. Beltsville Symposia in Agricultural Research —5. Edited by George C. Papavizas, Symposium Chairman, Allanheld, Osmun & Co. Publishers Inc., 81 Adams Dr., Totowa, N.J., 1981 ca. 466 pp., \$35.00.

With accumulating evidence of the dangers of continued dependency upon chemical controls, the use of biological agents as an integral part of pest management strategy is viewed with widespread interest. This volume gives an up-to-date picture of the status of biological control in crop production. Contributed by a cross-disciplinary group (including entomologists, plant pathologists, weed scientists, nematologists, mycologists, microbiologists, ecologists, taxonomists, and economists) its 30 chapters focus on the use of organisms to control insects, plant diseases, weeds and nematodes. Biological agents discussed include insects, vertebrates, mites, nematodes, and a great variety of microbial organisms.

Of special interest to invertebrate pathologists would be chapters on: Production of bacteria for biological control of insects (H.T. Dulmage), Mass production of biological agents for plant disease, weed and insect control (D.S. Kenney and T.L. Couch), Production, formulation and application of fungi for insect control (R.S. Soper and M.G. Ward), Nematodes with potential for biological control of insects and weeds (W.R. Nickle), Insect control with protozoa (E.U. Canning), Recent progress in *in vitro* studies of baculoviruses (J.L. Vaughn and E.M. Dougherty), Use of viruses for insect suppression (G. Benz), Biological suppression of stored-product insect pests (W.E. Burkholder), Economic feasibility of biological control of crop pests (K.H. Reichelderfer), Elements of opportunity in biological control (R.I. Sailer), and The role of biological control in integrated pest management system (W. Klassen).

INTERNATIONAL COLLOQUIUM: INVERTEBRATE PATHOLOGY AND MICROBIAL CONTROL

University of Sussex, Brighton, United Kingdom

5th-10th September 1982

The next International Colloquium on Invertebrate Pathology and Microbial Control organised by the Society for Invertebrate Pathology will be held at the University of Sussex, Brighton, U.K. during 5th-10th September 1982. The meeting will include symposia sessions with invited speakers, and open paper and poster sessions. The meeting aims to accommodate the interests of scientists working in any area of invertebrate pathology. Further information will be given in the Newsletter of the Society for Invertebrate Pathology.

The venue

The University of Sussex, one of Britain's newer Universities, is housed in modern buildings situated in open countryside adjacent to the town of Brighton. The location is easily reached by road, rail and air, being only 1½ hours by rail from central London and 45 minutes from Gatwick airport (the nearest of London's two major airports).

Accommodation

Single-room accommodation and all meals are available at the University, at an all-inclusive rate of approximately £18 per day. Several shops, a bank and travel agent are available on the campus site.

Further information

Those wishing to receive the second circular are requested to fill in the attached form and return it as soon as possible. Those wishing to present papers or posters should indicate this on the attached form.

Any correspondence should be sent to:

Dr C C Payne or Dr H D Burges
Glasshouse Crops Research Institute
Worthing Road, Littlehampton, West Sussex, BN16 3PU
Tel: (09064) 6123

Excursions

It is hoped to arrange a visit to local sites of interest. There will be a special programme for accompanying persons.

I wish to receive the second circular

I wish to present a Paper/Poster* on _____

Name: _____

Address: _____

* Please delete where appropriate