

sip

newsletter

society for invertebrate pathology

Volume V, Number 4
November 1973



IN RETROSPECT

Magnificent weather prevailed in Oxford, no doubt as the result of orders by Professor Vago, President of the Scientific Committee for the International Colloquium for Insect Pathology and Microbial Control and Professor Tinsley, Chairman of the Program Committee for the Annual Meeting of the Society for Invertebrate Pathology. Facilities were superb, providing for an ideal setting to assure the success of the formal scientific sessions and guaranteeing continued discussions at meals, over coffee, tea, sherry and other libations through the evening.

Three social events highlighted the week at Oxford: a garden party for participants at Professor Tinsley's residence at Acre-End House near Oxford; the Conference Dinner in the dining hall at St. Catherine's and an evening for Richard II at Stratford-on-Avon.

Attendance at the numerous scientific sessions scheduled each day reflected the intensity of concern by scientists from all countries in topics covering the pathologies of invertebrates and the organisms that can be responsible for some of these pathologies. In addition to the expected increased interest in the utilization of microorganisms for the management of invertebrate populations, particularly insects, a portion of each of the formally scheduled sessions concerned the effects of pathogens on non-target organisms, particularly non-target invertebrates. In contrast to past colloquia and annual meetings of the Society, a major number of individuals who are by education and experience primarily microbiologists and biochemists provided scheduled contributions and were conspicuous in discussions following contributions, particularly in sessions on pathogenic fungi, microbial toxins, and invertebrate virology. The interpretation of quantitative bioassays, and the procedures for conducting bioassays and screening for determining the activities of invertebrate pathogens stimulated intensive questioning and discussion.

The program for the meetings at Oxford scheduled a number of "Discussion Groups" which further indicated the special concerns of invertebrate pathologists generally. For example, the Working Group on Safety of Microbial Agents attracted a large number of observers and participants to fill

the room provided. The discussions of this Working Group, which meets annually, demonstrates the increasing responsibility of invertebrate pathologists to consider the immediate and long-range consequences of the introduction of microbial control agents into new environments. Participation in the Working Group discussions by representatives of the U.S. Environmental Protection Agency and representatives of the World Health Organization stimulated the discussion with respect to the legal and political considerations necessary in applied invertebrate pathology. The special discussion groups on "Biochemistry of Parasitology" and "Invertebrate Immunology" attracted the attention of participants in much larger numbers than the convenors expected--all of which provides evidence to program organizers in the future as to the needs of Society members and the recognition on the part of participants of those areas in invertebrate pathology needing special emphasis. From one seminar on "Characterization of Insect Viruses," additional meetings were scheduled to formulate an international approach to this vital question which will provide the foundation for the understanding of the unique characteristics of viruses affecting invertebrates.

Two groups concerned with matters of information, drawing upon the intellectual resources of the Society, were the "Workshop on Diseases of Medically Important Insects," convened by D. W. Roberts, and the discussion on adoption of a "computer-aided information system" on diseases of invertebrates. These are spear-heading efforts which are preliminary to essential services by the Society for the international scientific community. Sessions on marine invertebrate pathology at the meeting in Oxford and a similar session on both marine and aquatic invertebrates held at the Society's program in Amherst, Massachusetts (see August 1973 NEWSLETTER, p. 10) provided conspicuous focal points for invertebrate pathology and its concern for these essential food reserves. The interdependency of invertebrate pathologists and their awareness of the effects of actions on terrestrial invertebrates having consequences in aquatic and marine environments were a conspicuous element in these scheduled sessions.

The meetings in Oxford were a success because of the active participation of the individuals attending the meeting and the confidence expressed by seven institutional sponsors who provided partial financial support. The warm, human element which provides the impetus and sets the tone for an international gathering was provided by the unselfish contributions of our host Invertebrate Virology Unit and by the wives, husbands, sons and daughters of the staff members who, with smiles and cheerful words made 185 participants from 23 countries at home in Oxford.

J. D. Briggs



**INTERNATIONAL COLLOQUIUM
ON INSECT PATHOLOGY AND
MICROBIAL CONTROL**



**ANNUAL MEETING OF
THE SOCIETY FOR
INVERTEBRATE PATHOLOGY**

BUSINESS MEETING

The annual business meeting of the Society for Invertebrate Pathology was called to order by the President who presented a report which included the following:

Statements in recognition of the contributions to invertebrate pathology by our late colleagues Dr. Leslie Stauber and Dr. Dilworth Jensen;

An expression of appreciation to Professor C. Vago, who will represent the Society in the Society's petition for membership in the International Union of Biological Sciences (IUBS) at the XVIII General Assembly of IUBS in Ustaoset, Norway, September 27-October 2, 1973;

An announcement that Dr. Marenes Trip has been appointed as representative of the Society to the Governing Board of the American Institute of Biological Sciences (AIBS);

A reminder that the Society will provide programming for the Third International Congress of Parasitology to be held in Munich 25-31 August 1974 (see article on page 5);

A reference to the conference on Regulation of Insect Populations by Microorganisms, published in the Annals of the New York Academy of Sciences, (Volume 217, pp. 243, 1973);

An announcement that efforts to establish an archive for the E. A. Steinhaus papers pertinent to the history of the Society have been initiated; and

Information regarding the design of certificates which will be presented to Honorary Members elected to the Society.

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In the absence of Treasurer Tanada, Society Secretary Marion Brooks read the report of the Treasurer. The report was accepted and will be submitted for audit,

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The resolution regarding procedures for handling delinquent dues (See Council Meeting) was passed unanimously. If approved by mail ballot of the membership, it will become Section 14 of Article III of the Constitution.

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The resolution regarding publication of the Abridged Glossary of Terms Used in Invertebrate Pathology (Council Meeting) was read. Dr. Burges moved that the Glossary should be recognized as a generous contribution by Dr. Martignoni and that the Society should proceed with dispatch in cooperating with Dr. Martignoni and the U.S. Forest Service in producing future editions of the Glossary. Dr. Martignoni suggested that future editions of the Glossary might be multilingual. Dr. Burges' motion was passed.

Continued on page 3

The VIth Annual Meeting of the Society for Invertebrate Pathology and the Vth International Colloquium on Insect Pathology and Microbial Control were held jointly at St. Catherine's College, Oxford, England, 3-6 September 1973. Approximately 185 persons attended, representing many nations of Europe and North America. Simultaneous translation service was provided for English, French and German languages. The program was well organized and efficiently carried out by the program committee.

COUNCIL MEETING

The major topic of discussion at the SIP Council meeting was the procedure for handling delinquent memberships. The following resolution was approved for presentation at the general business meeting for approval.

"A member shall become delinquent upon failure to pay dues within the calendar year. No member in arrears for dues shall receive the publications of the Society or benefit from special subscription rates to journals arranged by the Society until all arrears shall have been paid. Having failed to pay dues for two successive calendar years, delinquent members shall be dropped from the membership list after written notice by the Secretary and all their rights and privileges as such shall thereupon cease."

* * * * *

Past President Vago announced that the Scientific Committee for the International Colloquium on Insect Pathology and Microbial Control is recommending its own discontinuance since it is no longer needed to plan international colloquia in insect pathology. President Briggs will propose to the Council, by mail, a commission of the Society for Invertebrate Pathology to assume the responsibility for the organization of future colloquia.

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The Treasurer's report was submitted revealing that the assets of the Society have increased more than ten-fold this year as a result of the collection of delinquent dues. The Secretary of the Division on Microsporidia, Dr. W. Brooks, asked for a clarification of the arrangements for disposition of dues paid to the Division.

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Dr. Martignoni requested the appointment of an editorial committee for the Abridged Glossary of Terms Used in Invertebrate Pathology, and the following resolution was approved:

"The Society's Publications Board shall appoint an editorial committee with the specific task of producing future editions of the Abridged Glossary of Terms Used in Invertebrate Pathology."

BUSINESS MEETING

Continued from page 2

Dr. Burges then moved that a firm directive be given to the Council to pursue the possibility of a system of computer-assisted data retrieval of literature in invertebrate pathology. Dr. Angus pointed out that in the National Science Library and Academy of Canada, literature retrieval is already available for a fee and he suggested that the expense of using such a system should be determined. Dr. Burges' motion was passed.

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The Secretary of the Division on Microsporida, Dr. Wayne M. Brooks, presented an Activities Report for the Division.

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Professor C. Vago, Past President of the Society and Chairman of the Scientific Committee for the Colloquia on Insect Pathology and Microbial Control, pointed out that the Scientific Committee was established in 1962 to coordinate colloquia in insect pathology and to deal with international liaison problems. He read the following statement:

"The Committee considers that it is no longer necessary to continue its work as adviser in organizing colloquia in insect pathology and microbial control and decides to terminate its activity. The Committee recommends that the Council of the Society for Invertebrate Pathology should consider the establishment of a commission responsible for organization of future colloquia."

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President announced that the next meeting of the Society will be held with AIBS at Arizona State University in Tempe, 16-21 June, 1974. The meeting time and place for 1975 are open. There was a discussion of a possible meeting place for 1976.

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Two motions were passed unanimously: commending Dr. Tanada for his outstanding service as Treasurer for the Society; and expressing appreciation to Dr. Martignoni for his efforts in the development of the Glossary and assuring its availability to invertebrate pathology at large.

The following resolution was also unanimously passed:

"The Society wishes to thank Dr. Tinsley and his staff for the excellent arrangements and organization of the meeting, and to thank all our British friends who have been so hospitable."

*Excerpted from minutes by:
Marion A. Brooks, Secretary*

HONORARY MEMBERSHIP

Honorary Membership has been bestowed by vote of the members to Dr. John G. Mackin and Professor Paul Buchner. The brief biographical notes published in the NEWSLETTER (Vol. V, No. 2) attest to the significant contributions of these two scholars.

ACTIVITIES REPORT

DIVISION ON MICROSPORIDA OF SIP

The activities of the Division on Microsporida began with the election of new officers for the period of 1972-74 at the SIP Meetings in Minneapolis, August, 1972. The Executive Committee consists of:

Chairman: Victor Sprague
Vice Chairman: Elizabeth U. Canning
Secretary: Wayne M. Brooks
Council Member: Joseph V. Maddox
Council Member: Ann Call

At the same meeting, Dr. E. U. Canning was selected to organize a Microsporida Symposium for the SIP Meetings to be held in September, 1973 at Oxford, England. As arranged by Dr. Canning, this symposium will deal with special problems of taxonomy and spore-hatching processes. A committee, chaired by Dr. W. M. Brooks, was also appointed to consider recommendations to improve the operational activities of the Division, the report of which will be presented to the Council and members of the Division in the near future. Of particular interest, this report will discuss the establishment of standing committees to handle projects of special interest to microsporidologists such as reference collections, terminology and classification.

After a preliminary report at the Minneapolis meeting, Mr. B. W. Erickson, Jr., published a report in a recent issue of the SIP NEWSLETTER on his efforts in behalf of the Division to establish a Type-Collection Slide Repository for Microsporida with the National Museum of Natural History of the Smithsonian Institution. The initial guidelines for deposition of slide materials in the International Protozoan Type Slide Collection have been recently revised, a report of which has been submitted for publication in a future issue of the SIP NEWSLETTER. The publication of these guidelines will be a significant step in the Division's effort to establish a Type Slide Repository for Microsporida.

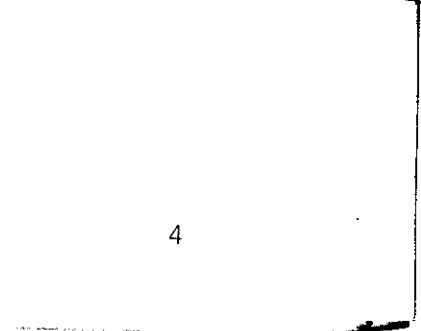
Although the membership of the Division is still relatively small, it is pleasing to report that as of July, 1973, 52 SIP members had joined the Division on Microsporida as indicated by their payment of dues for 1973.

*Wayne M. Brooks, Secretary
Division of Microsporida*



NOTES

Dr. Edward W. Habert, Associate Professor of Biology, Nassau Community College, Garden City, Long Island, New York, has spent six months on sabbatical leave at the Boyce Thompson Institute for Plant Research, Yonkers, New York, working in insect virology. Dr. Habert worked with Dr. Robert R. Granados on the application of the fluorescent antibody technique to study the production of virus antigens in insect tissue cultures.



ATTENTION MICROSPORIDIOLGISTS

The Division on Microsporida will meet, probably for one-half day, during the annual meeting of the Society in Tempe, Arizona, in June of 1974. The program already has been formulated (by the Chairman and Secretary) in broad outline as follows:

- Secretary's report--Wayne Brooks
- Report of Nominating Committee
- Election of Officers
- Report of special committee to make recommendations on problems involved in implementing the objectives of the Division--Wayne Brooks, Committee Chairman
- Report of Standing Committee on Reference Slide Collection--B. Erickson
- Considerations on the appointment of additional standing committees on:
 1. Current literature service--Wayne Brooks, Discussion Leader
 2. Standardization of terms (Discussion Leader to be appointed)
 3. Methods (Discussion Leader to be appointed)
 4. Taxonomy (Discussion Leader to be appointed)
- Symposium on Taxonomy (Discussion Leader to be appointed)

It is anticipated that the available time will be about evenly divided between the Symposium on Taxonomy and other matters.

A point to be emphasized is that the Division is strictly a working branch of SIP that exists for the primary purpose of trying to serve the special interests of the microsporidiologists (although we hope there will be benefits also to many other people). We must keep this fact in mind and avoid structuring our programs in such a way as to perform functions that are more properly Society functions. In particular, our program should not include "contributed papers" without special justification.

People will be contacted to serve as discussion leaders. After leaders are appointed and other details are worked out, a complete *agendum* will be made available to Division members, either by mail or in the NEWSLETTER.

You are urged to make suggestions for the program or for the good of the Division in general.

Victor Sprague, Chairman
Division on Microsporida

GLASSHOUSE CROPS RESEARCH INSTITUTE

A tour of facilities and meetings with staff and administration were conducted at an open-house of the Glasshouse Crops Research Institute (GCRI) at Littlehampton, Sussex. The open-house was scheduled as part of the invertebrate pathology interest in England prior to the Oxford meetings. The afternoon was climaxed by a reception in honor of Dr. Mauro Martignoni, completing a year of research and study at the GCRI.

IUBS COMMISSION OF INVERTEBRATE PATHOLOGY

The Society for Invertebrate Pathology has been admitted to the International Union of Biological Sciences (IUBS) as the Commission of Invertebrate Pathology in the Division of Zoology. The action was taken by IUBS at its General Assembly in Norway. The application of the Society was presented in the General Assembly by Professor C. Vago (Past-President of the Society for Invertebrate Pathology). CONGRATULATIONS TO THE SOCIETY are conveyed by Professor Vago from the Past-President of IUBS, Dr. D. S. Farner, and President of IUBS, Dr. K. Faegri.

The IUBS is a non-governmental, non-profit organization established in 1919. Its objects are: to promote the study of biological sciences; to initiate, facilitate, and coordinate research and other scientific activities that require cooperation; to ensure the discussion and dissemination of the results of cooperative research; to promote the organization of international conferences; to assist the publication of their reports. IUBS is supported by dues paid by 39 countries through their respective Academies of Science and an annual grant from UNESCO through the International Council of Scientific Unions. Membership includes approximately 60 scientific international associations, societies, or commissions in the various biological disciplines.

The IUBS includes three interdisciplinary commissions: Biohistory, Biological Education, and Biometry; and five divisions: Botany, Environmental Biology, Functional and Analytic Biology, Microbiology, and Zoology.

Permanent services of IUBS include those on nomenclature in bacteriology, botany, virology, zoology, and cultivated plants.

1974 JOURNAL OF INVERTEBRATE PATHOLOGY

Two volumes of the JOURNAL OF INVERTEBRATE PATHOLOGY will be published in 1974. The prices are as follows:

Western Hemisphere subscribers:

Institutional--\$29.00 (per volume)
Member--\$14.00 (per volume)

Outside Western Hemisphere subscribers:

Institutional--\$33.00 (per volume)
Member--\$14.00 (per volume)

In addition, there will be a charge of \$2.40 for postage as usual for foreign subscribers, whether institutional or member.

Back volumes of the Journal of Invertebrate Pathology can be purchased at the following rates:

Volumes 1 - 16, \$34.00/volume
Volumes 17-22, \$14.00/volume (USA and Canada)
\$15.20/volume (outside USA and Canada)



NOMINATIONS COMMITTEE REPORT

Next year it will be necessary for Society members to elect a new Council for 1974-76. The Nominations Committee presents herewith some thoughts about the requirements essential in filling these positions. The two factors of primary importance are: 1) the convenience with regard to fiscal matters of having the Treasurer located in North America; and 2) the need for the President to have easy access to the Secretary.

In addition to these considerations, the Nominations Committee has given emphasis to the following requirements for Council officers.

President

The same considerations must be given to selecting the Vice President as to the President, since the Vice President automatically becomes President. The President of the Society must have leadership capabilities, acting as spokesman for the Society and maintaining contact with other organizations. As a result, the President should be well known, well versed in Society matters and a major motivator of policies. In addition, the President should be willing to accept the responsibility of insuring the efficient operation of the other offices of the Council, and should actively support the Newsletter Editor in supplying information to the membership of the Society.

Other offices of the Council could be regarded as potential training ground for the office of President.

Treasurer

The Treasurer's primary responsibility is the maintenance of the Society's financial records, particularly those involving membership dues. In the coming term, methods of increasing the efficiency of this responsibility must continue to be investigated. The Treasurer must have the ability and the time to devote a great deal of attention to the Society's financial management. It is desirable that the Treasurer live in North America in order to avoid problems with currency and with restrictions of a Maryland charter.

Secretary

The Secretary's responsibilities are, in many ways, as demanding as those of the Treasurer. The Secretary has responsibility for the day-to-day details such as correspondence, records, and archives. A regular flow of correspondence between Council members is necessary to keep the Society running smoothly. It is also desirable that the Secretary should have easy access, geographically, to the President.

Trustees

Trustees must be willing to accept, according to their abilities and backgrounds, special tasks such as advising the Society on the validity of the Constitution and By-Laws, assisting in carrying out special projects of the Society (for example involvement in a computer information system covering Invertebrate Pathology literature),

etc. Another important function is representation on the Council of particular interest groups in the Society, as well as providing links with other societies and scientific groups.

Nominating Committee:

M. R. Tripp
H. Watanabe
J. Lipa
H. D. Burges, Chairman

TOWARD BETTER COMMUNICATION

Authors are reminded of the need to make the collection at the Center for Pathobiology, University of California at Irvine, as complete as possible with respect to works in invertebrate pathology. When you are mailing out reprints of your publications, please send at least one copy (3 are preferable) to the Librarian, Center for Pathobiology, University of California, Irvine, California 92664.

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Those of you who are organizers for meetings of a national or international scope will be interested to learn of a new service which will help in avoiding conflicts in scheduling. If meeting organizers will inform World Meetings Information Center of their meeting plans, as early as they become definite, this information will be entered in the Center's data bank. Any organizer of a significant meeting in the physical or life sciences, medicine, engineering, the social and behavioral sciences, education or management may contact World Meeting Information Center by mail or phone to determine whether or not the Center's data bank contains information on other meetings scheduled in subject areas that might conflict or overlap. Replies will be returned within two working days of the time the inquiry is received. Meeting organizers may contact the Center at:

World Meetings Information Center
824 Boylston Street
Chestnut Hill, Massachusetts 02167 USA

Telephone: (617) 731-4440

The service is offered to the scientific community at no charge in an effort to simplify the organization of the smaller meetings and at the same time to improve the Center's coverage of these meetings so that it will be reflected in the Center's subscription services.

Marion A. Brooks
Secretary, SIP

DR. ALBERT K. SPARKS PROMOTED BY FISHERIES SERVICE

The Commerce Department's National Oceanic and Atmospheric Administration has announced the promotion of Dr. Albert K. Sparks to Deputy Associate Director for Resource Research in the National Marine Fisheries Service.

POSITION AVAILABLE

Postdoctoral position to study *Coelomonocyces* fungal parasites of mosquitoes, including life cycle, infection processes, and *in vitro* culture. Available early 1974. Contact: Dr. D. W. Roberts, Boyce Thompson Institute, 1086 North Broadway, Yonkers, New York 10701, USA.

LETTERS

TO THE EDITOR

I think we all will remember the ICIP/SIP meeting in Oxford with pleasure and satisfaction. The organizers made a very good job and the scientific content was of great value in general. However, a few important remarks should be made from the experience many of us had.

Why did we in Europe receive the SIP NEWSLETTER (V 3, August 1973) one week after the meeting? Would it not have been possible to send it earlier or to send it at least this issue by air mail to Europe? We did not have the programme in advance and missed a lot of valuable and even necessary information which we should have had at least a week before the meeting.

Secondly, why do so many natively English-speaking speakers not realize how extremely difficult it is to others to follow fastly or undistinctly spoken English? Many of us find it meaningless to listen to a paper given in such English. Several times during the sessions the speakers were asked to slow down. So he (or she) did for 30 seconds, but after that he was back in his speed. If, before the congress, he practices his speech 10 times, 2 or 3 times in front of a critical person, he might improve. It sounds laborious, does it not? But, how many times do you think an average Hungarian or Swede has to practice before he gives a formally acceptable paper in English in front of an international audience? Specifically, names or special expressions not in the abstract have to be pronounced very slowly and should be repeated or, if possible, written on the blackboard if important in the context.

Often, British and Australian speakers "swallow" parts of words, making them ununderstandable to those who cannot "get" them from the context. Sometimes Americans and Canadians pronounce t's and other consonants very indistinctly and this causes great confusion. Also remember, Latin names and names of chemicals, etc., which are used everywhere, are pronounced in a very "different" way in English.

A word to speakers from all nations: projected slides must be easily understood and read from a long distance. Do not put too many details on them, do not use typed letters, and add as few words on them as possible. Slides in a speech are as important as figures in a printed paper, but must not be done in the same way. We saw a few bad examples given even by famous people in Oxford.

A good paper must be possible to follow by most workers in the field. If not, it should not be presented at an international meeting.

Excuse my complaints about exceptions, but important and sometimes frequent exceptions.

Torgny Unestam
University of Uppsala
Sweden

FROM THE EDITOR

Since the system for mailing the NEWSLETTER to members has proven inadequate, a new one is being implemented with this issue. Three groups of NEWSLETTERS will be dispatched by air to Western Europe, Japan, and Australia. From these points, individual NEWSLETTERS will then be distributed.

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SCIENTIFIC FILM AWARD

The Great Prize of the 6th International Festival on Scientific Films has been awarded to a film on Invertebrate Pathology. This film is "Invertebrate Mycoses," from Professor Vago and Dr. Vey, Station de Recherches Cytopathologiques, Montpellier--Saint Christol, France.

This film, as the other ones from Professor Vago, are at the disposal of research laboratories and universities at the French Embassy in several countries.

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REMEMBER YOUR JOURNAL SUBSCRIPTION

B A L L O T
SOCIETY FOR INVERTEBRATE PATHOLOGY

November, 1973

Shall the following addition be made to the Constitution and By-Laws of the Society for Invertebrate Pathology (Article III, Section 14)

"A member shall become delinquent upon failure to pay dues within the calendar year. No member in arrears for dues shall receive the publications of the Society or benefit from special subscription rates to journals arranged by the Society until all arrears shall have been paid. Having failed to pay dues for two successive calendar years, delinquent members shall be dropped from the membership list after written notice by the Secretary and all their rights and privileges as such shall thereupon cease."

Yes _____ No _____
*** * * * ***

Ballots should be returned by January 31, 1974.
Return ballot in sealed envelope, without identifying marks to:
Dr. Marion A. Brooks; Entomology, Fisheries and Wildlife;
University of Minnesota; St. Paul, Minnesota 55101 USA