

# sip

# newsletter

society for invertebrate pathology

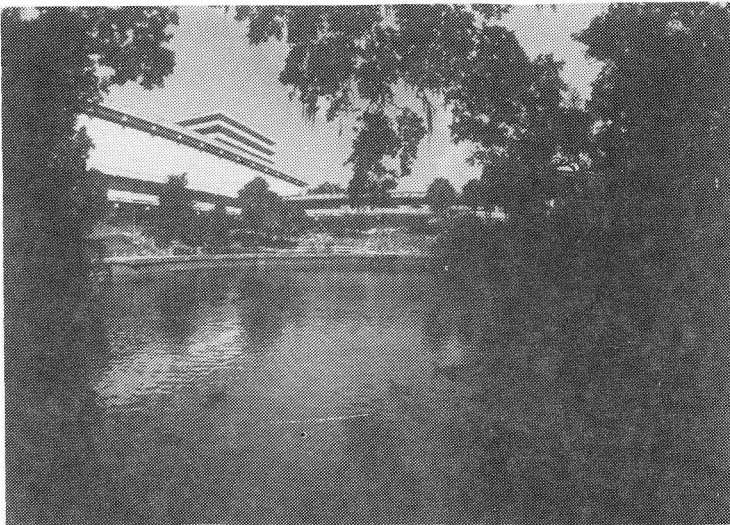
Volume 19, Number 2  
May, 1987

SOCIETY FOR INVERTEBRATE PATHOLOGY

ANNUAL MEETING

UNIVERSITY OF FLORIDA, GAINSVILLE, FLORIDA, USA.

The 1987 annual meeting of the SIP will take place at the University of Florida, Gainesville, Florida, between July 20-24. Registration will take place on Monday (July 20), and formal meetings will start Tuesday, (July 21) and end on Friday (July 24) at noon.



J. Wayne Reitz Student Union, University of Florida campus, Gainesville, Florida, site of the 1987 Annual Meeting of the Society for Invertebrate Pathology.

#### PROGRAMME AND ABSTRACTS.

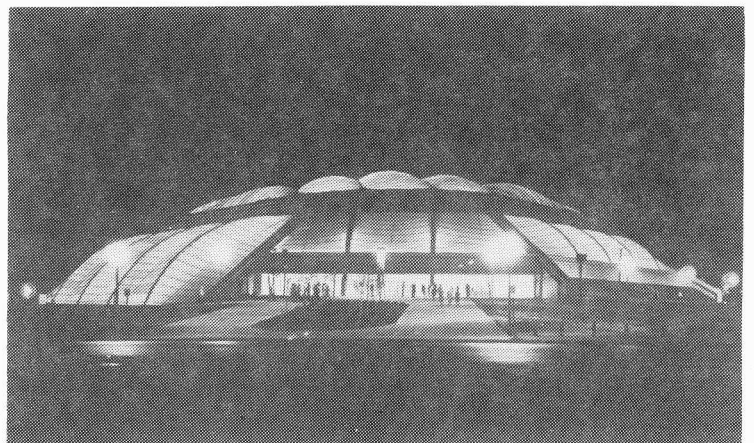
A copy of the combined programme and abstracts is being mailed to you with this copy of the Newsletter. Please bring it with you if you attend the meeting. A limited number of copies will be available at the meeting, but these are primarily intended for non-members of the Society attending the meeting.

There will be a limited amount of extra space available if anyone wishes to present an extra poster. If this is your intention, please inform Dr. Boucias as soon as possible, and bring to the meeting 50 copies of the abstract of your presentation.

#### REGISTRATION FORMS.

Over the past few months several members of the society have contacted my office with questions and comments concerning the registration form. The first matter is concerned with accommodation arrangements. First of all, in order to reserve a room at Graham Resident Hall members must forward payment with the registration fee, etc by July 1, 1987 to Mildred Kinard. I strongly suggest that registrants (especially from overseas) get this in as soon as possible. If participants wish to stay off campus you must contact the motel directly yourself. Secondly everyone staying in the Graham Resident Hall must check out on Friday. These rooms will not be available for guests wishing to stay over the weekend. In these cases I suggest you book reservations at one of the local motels. The local arrangement committee and the people at the Center of Conferences will make every effort to ensure that such accommodations are made in advance of your arrival. If you have questions concerning accommodations please contact Mildred Kinard.

The second subject which has arisen has been concern over the registration form which included questions on race, sex, and social security numbers. These concerns have resulted in a letter forwarded by Dr. John Harshbarger to the Governor of the State of Florida and to the President of the State of Florida and to the President of the University of Florida. I apologize to those members that were offended by these questions. When compiling the program flier I was told that the routine registration form was to be used. In response to Dr. Harshbarger's letter, I have received the following explanation from our President's office.



O'Connell Sports Facility, University of Florida campus, Gainesville, Florida.

"The registration form question regarding ethnic origin gives the conferences unit information needed to complete required reports which include affirmative action data on participation by race in the conference and educational events carried out by that unit, as required by law.

Beyond meeting this letter of the law, the University of Florida is firmly committed to achieving the spirit of affirmative action in all of its programming. The affirmative action data which we maintain on all University programming, credit and non-credit, allows us to carefully monitor participation by minorities and continuously assess our effectiveness in including minorities in the institution's programs.

Finally, the social security information is required by the State of Florida for the unit to pay registered speakers the arranged honorariums, to pay any travel reimbursements, and to refund any registration fees. None of these can be processed without the speaker and participant social security numbers (except in the case of non-U.S. citizens who may receive funds in the above three categories by special arrangement with the state)."

I would like to inform the SIP membership that filling out these questions is not mandatory. If you do not wish to assist the Office of Conferences in compiling this information leave these questions blank.

Dr. D.G. Boucias  
Programme Committee, 1987 SIP Meeting,  
Entomology and Nematology Department,  
Entomology Laboratory,  
Bldg 339, Archer Road,  
Gainesville, Florida 32611.

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#### 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 and a copy of the abstracts of all SIP Annual General meetings free, whether or not they attend. Application forms for membership in the Society may be obtained from the Treasurer, Dr. Robert R. Granados, Boyce Thompson Institute, Cornell University, Tower Road, Ithaca, New York 14853, U.S.A.

#### Council Officers of the Society are:

President .....	John C. Harshbarger, USA
Vice President .....	Donald W. Roberts, USA
Past President .....	H. Denis Burges, England
Secretary .....	Ann Cali, USA
Treasurer .....	Robert R. Granados, USA
Trustees .....	Christopher J. Bayne, USA
	John A. Couch, USA
	Brian A. Federici, USA
	Christopher C. Payne, England

#### Send news items and other contributions to:

David Tyrrell, Editor  
SIP Newsletter  
Forest Pest Management Institute  
Canadian Forestry Service  
P.O. Box 490  
Sault Ste. Marie, Ontario, Canada P6A 5M7

DEADLINE NEXT ISSUE: August 31, 1987

#### FROM THE PRESIDENT

The administrative posts listed below include projects and appointments to enhance the identity of the field of invertebrate pathology and to strengthen the Society.

For example the Endowment Committee assists people in soft currency countries with membership dues and journal subscriptions from the income from the \$3000 anonymous gift received by the Society in 1985 for this purpose. The Endowment Committee is also working to enlarge this fund so that more income will be available.

The Committee on Courses in Invertebrate Pathology is reviving the directory to encourage students to enter this field and help them locate the desired academic program. The directory will also aid the interaction and exchange of ideas among institutions and help document the breadth of the field. (See the form enclosed in this newsletter.)

The ad hoc Journal Advisory Committee is evaluating member attitudes and will make recommendations to the Publications Board for enhancing the journal's acceptability and usefulness.

Please do not hesitate to communicate your ideas and suggestions with anyone in the appropriate organizational group.

#### Publications Board

J. D. Harper (Chair)  
J. C. Harshbarger  
T. C. Cheng  
D. Tyrrell  
D. W. Roberts (Non-voting)  
R. R. Granados (Non-voting)

#### Meetings Board

D. W. Roberts (Chair)

#### 1987 Annual Meeting Program Committee

D. G. Boucias (Chair)  
J. A. Couch  
C. W. McCoy  
J. E. Maruniak  
A. H. Undeen  
L. Osborne  
T. G. Andreadis (Ex officio as Chair of  
Microsporida Division)  
D. W. Roberts (Ex officio as Chair of  
Microbial Control Division)

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D. G. Boucias (Chair)  
A. H. Undeen  
D. P. Jouvenaz  
D. W. Hall

#### 1988 Annual Meeting Program Committee

B. Federici (Chair)

1989 Annual Meeting Program Committee

J. L. Vaughn (Co-Chair)  
C. F. Reichelderfer (Co-Chair)

D. E. Pinnock (Alternating Member At Large)  
J. C. Cunningham (Alternating Member At Large)  
C. C. Payne (Ex officio)  
L. A. Lacey (Ex officio and Chairman of Safety Group)

1990 Annual Meeting Program Committee

D. E. Pinnock (Chair)

IUBS Representative

J. D. Briggs

Membership Committee

R. S. Anderson (Chair)  
E. C. Peters  
T. Iizuka  
D. E. Pinnock  
P. Gotz  
R. Elston  
S. E. Ford  
L. A. Lacey

Archivist

W. M. Brooks

Journal of Invertebrate Pathology

T. C. Cheng (Editor-in-Chief)

Nominating Committee

W. M. Brooks (Chair)  
A. Rosenfield  
S. E. Ford  
P. Gotz  
H. D. Burges

SIP Newsletter

D. Tyrrell (Editor)

Committee on Courses in Invertebrate Pathology

H. L. Zimmack (Chair)

Regional Correspondents

K. Aizawa (Japan)  
S. V. Amonkar (India)  
H. D. Burges (United Kingdom)  
J. Chadwick (Canada)  
B. P. Gabriel (Indonesia)  
R. G. Kenneth (Israel)  
A. Kermarrec (Guadeloupe)  
W. A. Otieno (Kenya)  
J. S. Pillai (New Zealand)  
G. Riba (France)  
K. Soderhall (Sweden)  
R. E. Teakle (Australia)  
H. J. M. Wassink (Venezuela)  
C. Yamvrias (Greece)

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H. D. Burges (Chair)  
C. C. Payne  
D. G. Boucias  
S. T. Jaronski

Endowment Committee

E. W. Davidson (Chair)  
R. Elston  
J. E. Henry  
J. D. Briggs  
R. R. Granados

J. C. Harshbarger

Journal Advisory Committee

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E. W. Davidson  
B. Federici  
S. T. Jaronski  
C. C. Payne  
W. M. Brooks  
P. T. Johnson

RECENT EVENTS AT THE GLASSHOUSE CROPS RESEARCH INSTITUTE  
(GCRI), LITTLEHAMPTON, UK.

GCRI is now part of a new institute, the Institute of Horticultural Research (IHR). This also includes the National Vegetable Research Station at Wellesbourne and the East Malling Research Station (fruit research). Chris Payne has been appointed Head of one of the three cross-site Divisions at the new IHR, the Crop Protection Division. He transferred to East Malling from April 1st as Head of Station, though continuing to work at Littlehampton one day a week in his capacity as Divisional Head. He will still play a prominent role in the direction of research in the Insect Pathology Section. In the new division, Insect Pathology forms one of three sections at Littlehampton, headed by Dennis Burges. Considerable advances have been made recently in Insect Pathology.

Division of Microsporida

T. G. Andreadis (Chair)  
J. J. Becnel (Vice-Chair)  
A. H. Undeen (Secretary/Treasurer)

On the virus front, Norman Crook was joined in April by Doreen Winstanley on a contract for the Agricultural Genetics Company (AGC) on baculovirus genetic manipulation. Ian Smith, who has worked with Norman on *Pieris* GV's, has completed the writing of his PhD thesis and has left for the Boyce Thompson Institute to work with Alan Wood. AGC-contract research on codling moth GV is continuing,

Division of Microbial Control

D. W. Roberts (Chair)  
P. F. Entwistle (Vice-Chair)  
R. R. Granados (Secretary/Treasurer)

excellent control having been achieved on commercial organically-grown fruit in Kent. John Ballard is working on this project. Hussan b. Abd. Kadir joined the group a year ago from MARDI and he is working for 3 years on his PhD project on the virus control of Plutella xylostella. Work on Bacillus thuringiensis (B.t.) has been extended to genetic manipulation by Paul Jarrett. He is cloning crystal toxin genes into Escherichia coli and some Bacilli with the initial intent of examining the activity of individual toxins in different Lepidoptera and producing certain recombinations that are difficult to achieve with conjugation of B.t. strains. Dr. Annie Bartlett continues the work on tailoring of new strains, by conjugation and mutation, to fit particular pest complexes.

With the fungi, Dr. Adrian Gillespie now has Dr. Nigel Hywel-Jones to study control of leaf hoppers. Research on Verticillium lecanii includes detailed investigation of various features of the spore (germination speed, production, etc) and of fungal growth (spread, susceptibility to humidity, and so on) with a view to finding better strains and application strategies. Research on the use of fungi is being extended to more glasshouse pests and to pests in the most promising humid ecosystems in the tropics and subtropics, particularly to hoppers on paddy rice. This has involved extending the work to other Hyphomycetes.

With research on nematodes, Paul Richardson has been joined by John Godliman. John will improve mass production of heterorhabditids and steinernematids, in semi-solid systems, so that we can extend studies on the control of mushroom flies and pests of crops protected by greenhouse and plastic. In addition, Dr. Paul Hand is exploring the symbiotic bacteria of these nematodes and the basis of the primary and secondary types of the bacteria.

Each group has some additional technical staff, further increasing our momentum. These are exciting times.

H.D. Burges  
Head, Insect Pathology Section  
Institute of Horticultural Research, Littlehampton  
April 7, 1987.

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#### Relocation of the Data Base for the Catalog of Viral diseases of Insects, Mites and Ticks

Since 1975 insect virologists have been fortunate to have available a published catalog of virus-host records and the supporting literature citations as a resource in their research. The 4th Edition of this catalog lists over 1,100 species of insects, mites and ticks and about 1,690 host-virus records. The catalog has been produced through the efforts of Mauro Martignoni and his colleagues in the US Forest Service and has been invaluable to most of us. In addition many virologists have taken advantage of the opportunity to retrieve important literature citations from the computerized file maintained by Mauro. Our thanks to Mauro and the Forest Service for their help over the past many years.

Mauro is now enjoying a well earned retirement and I am pleased to announce that the computerized files for this data base will be transferred to the ARS Biological Control Documentation Center at the Beltsville Agricultural Research Center. Mr. Jack Coulson is in charge of the Documentation Center. I and my colleagues at the Insect Pathology Lab will have responsibility for collecting the new accessions of host-virus records and the supporting literature. We will strive to maintain the high standards established by Mauro but we are requesting

the help of the insect virologists in the Society. When you publish the finding of a new virus disease in insects, ticks or mites would you please send a reprint to me so that I can enter the report into the computer file. If you are aware of publications by colleagues who might not have seen this request because they are not members of the Society would you provide me with a literature citation. In this way the catalog will continue to be the very useful resource that it was under Mauro's expert guidance.

James L. Vaughn, Research Leader  
Insect Pathology Laboratory, PPI

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#### Relocation of Howard Dulmage's Bacillus thuringiensis collection.

The Howard Dulmage or HD collection of Bacillus thuringiensis strains was transferred in July 1986 from Subtropical Crop Insects Research, ARS, Brownsville, Texas, to the ARS Culture Collection (NRRL), Northern Regional Research Center, Peoria, Illinois. To indicate the change, all strains in the collection will be designated by NRRL HD- numbers.

All inquiries and requests concerning B. thuringiensis in the HD collection should be sent to:

Dr. Lawrence K Nakamura  
Microbial Properties Research  
Northern Regional Research Center  
1815 N. University St.  
Peoria, Illinois 61604

#### Ordering information:

Up to 12 isolates may be requested at one time. Complete sets of all isolates cannot be supplied. No culture will be released without the permission of the contributor, but most of the isolates in the collection are available without any conditions. If possible, order by the Dulmage culture numbers (NRRL HD- ).

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The S-135 Regional Project entitled "Entomopathogens for Use in Pest Management Systems" held its annual meeting in San Diego, California from February 18-20, 1987. More than 50 technical committee members and cooperating scientists met to discuss research concerned with identification, characterization, and standardization of entomopathogens, evaluation and optimization of entomopathogenic formulations, determination and analysis of physical and biotic factors that regulate epizootics, and establishment of regional procedures and protocols required to maximize use of entomopathogens in pest management systems. Dr. John Duniway, Department of Plant Pathology, University of California, Davis, presented a seminar entitled "Influence of water status and related physical parameters on microbial activity and dispersal in soil". He provided an overview of techniques needed to study pathogens in soil and the impact of water status on disease dynamics.

Technical committee members provided a summary of their research activities and also met with their respective subcommittees to discuss research programs for 1987. Technical committee members had the opportunity to tour Mycogen Corporation's research facilities and were impressed with their space, equipment, and professional staff. The next S-135 meeting will be held in Orlando, Florida between February 17 and 20, 1988.

Harry K. Kaya, Chairman  
S-135 Regional Project  
Division of Nematology  
Department of Entomology  
University of California  
Davis, CA 95616

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Announcements.

A symposium dealing with the "Phylogeny of Immune Defense Mechanisms in Parasitic Infections," will be held on 30 December, 1987, during the annual meeting of the American Society of Zoologists in New Orleans. The division of Comparative Immunology (ASZ) and the American Society of Parasitologists (ASP) are co-sponsoring this symposium. The topics covered by invited participants will discuss the variety of immune responses elicited by protozoal and helminth parasites in an diverse array of host species, from invertebrates to mammals. Topic-related contributed paper and poster sessions are being planned in conjunction with the symposium, and therefore, members (especially students) of ASZ-affiliated divisions or societies and the ASP are encouraged to submit abstracts. There is a possibility that some travel support for graduate students presenting papers/posters will be available through ASZ or the symposium organizers. The deadline for receipt of abstracts is August 10, 1987, so plan early to attend.

Contact either Timothy Yoshino (Department of Zoology, University of Oklahoma, Norman, OK 73019) or Raymond Damian (Department of Zoology, University of Georgia, Athens, GA 30602) for abstract transmittal forms or further information.

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3rd International Colloquium on Pathology in  
Marine Aquaculture.

This Colloquium will be held October 2-6, 1988, at the Virginia Institute for Marine Science, Gloucester Point, Virginia.

For further information, contact:

Dr. Frank O. Perkins  
VIMS,  
Gloucester Point,  
Virginia 23062  
U.S.A.

Tel. (804) 642 7103.

Society of Environmental Toxicology and Chemistry.

The 8th Annual Meeting of the Society of Environmental Toxicology and Chemistry (SETAC) will be held November 9-12, 1987, at the Hilton Hotel and Pensacola Civic Center, Pensacola, Florida. The meeting theme is "Environmental Risk: Recognition, assessment, and Management." All platform and poster presentations will emphasize this theme.

Short courses will be held on Monday, followed by a plenary session, awards ceremony, and a reception that evening. Tuesday and Wednesday will include concurrent sessions, with an integrative session on Thursday morning. Poster presentations will be emphasized, and creativity is the keyword. Poster sessions will be held concurrently with platform presentations on Tuesday and Wednesday, but topics will be alternated to prevent subject conflicts/overlaps. The setting will be the Pensacola Civic Center where there is plenty of room for poster review and discussion.

For abstract preparation instructions and further information, please contact:

SETAC  
P.O. Box 4352  
Rockville, MD 20850  
U.S.A.  
(301) 468 6704

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DIVISION OF MICROSPORIDA BUSINESS MEETING  
AUG. 19, 1986 VELDHOVEN, THE NETHERLANDS

Vice chairman Ted Andreadis called the meeting to order at 7:15 AM. Chairman Gary Wilson sent his regrets in being unable to attend.

Minutes of the last meeting were read. There were no additions or corrections. Report of the nominating committee was given by Joe Maddox in the absence of chairman, Steve Jaroonski. The following people were proposed as officers:

Chairman - Ted Andreadis  
Vice chairman - James Becnel  
Secretary - treasurer - Al Undeen.

Wayne Brooks moved and John Henry seconded that the nominations be accepted. Motion passed unanimously.

A report from Ann Cali on the proposed volume of ultrastructural photomicrographs was read. There was considerable discussion on published versus unpublished photomicrographs and which microsporidian genera were to be covered. It was decided that more information was needed from Ann. Chairman Andreadis agreed to write to Ann for more details.

There was no report from Steve Jaronski on the inventory of viable microsporidia in storage. It was agreed that while the previous inventory was helpful, an updated inventory is needed.

The treasurers report indicated that the division has \$941.00 in assets.

There was a discussion of possible topics for the 1987 workshop. No specific topics were selected and the choice of topics was left to Jimmy Becnel.

Meeting adjourned at 7:55 AM.

POSTDOCTORAL RESEARCH ASSOCIATE.

Entomological Meeting in Venezuela.

Position now available to study the molecular biology of the insecticidal Baculoviruses in cell culture. Candidates should be recent Ph.D.'s with experience in molecular biology, virology and cell culture. ARS funded support at GS11 with starting salary of \$27,172.00. Candidates should send applications to:

Dr. Arthur H. McIntosh,  
 USDA, ARS,  
 Biological Control of Insects Research Lab.,  
 P.O. Box 7629,  
 Research Park,  
 Columbia, Missouri 65205-5001

Tel. (314) 875 5361.

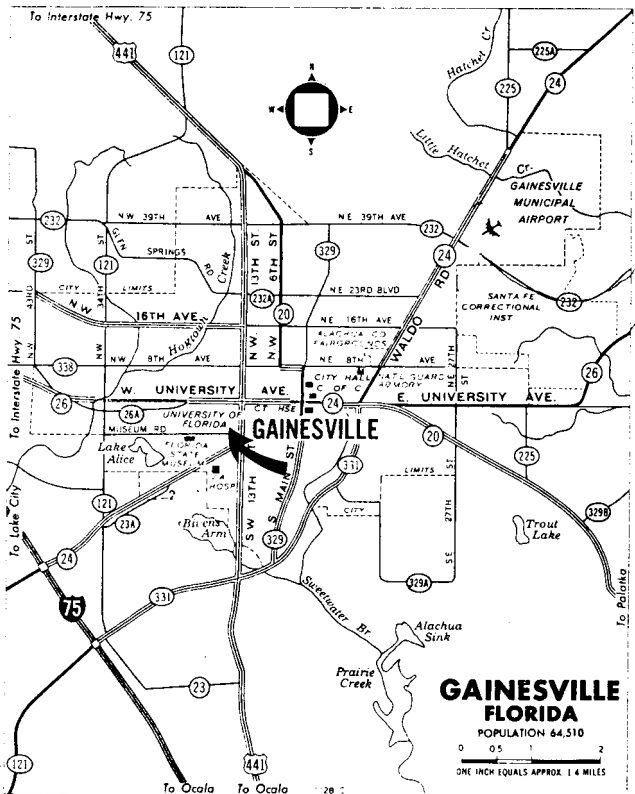
ARS is an equal/affirmative action employer. Minorities are strongly encouraged to apply.

The Xth Congreso Venezolano de Entomología will be held July 12-17, 1987, in Maracay, Venezuela. For further information about this meeting, contact:

Congreso Venezolano,  
 U.C.V.,  
 Facultad de Agronomía,  
 Instituto de Zoología Agrícola,  
 Apartado 4579,  
 Maracay 2101,  
 Edo Aragua,  
 Venezuela, South America.

Gainesville

Florida



USEFUL TELEPHONE NUMBERS

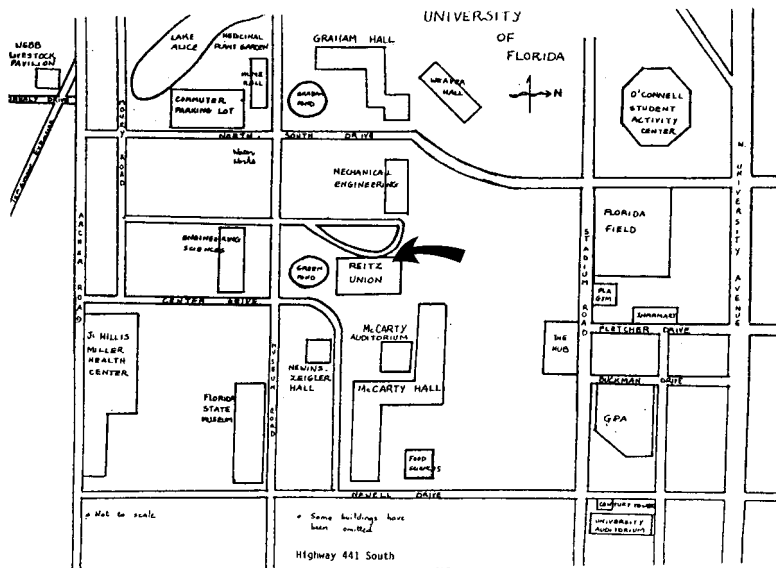
- Local Committee Members: (Gainesville residence)
  - D. Boucias - 392-1790 (371-9839 Home)
  - D. Hall - 392-1901
  - D. Jouvenaz - 374-5914
  - J. Maruniak - 392-1790
- University of Florida Police - 392-1111  
 Gainesville Police Department - 374-2400
- Office of Conferences & Institutes, Bldg. 639  
 William Bowden, Director - 392-5930
- Univ. of Florida Infirmary - 392-1161  
 Alachua General Hospital  
 801 SW 2nd Ave., Gainesville- 372-4321
- Registration Information During Conference - 392-2151  
 (ask for East Gallery Conf. Registration Desk)
- Airlines: Delta 1-800-432-5513  
 Eastern 1-800-327-8376  
 Piedmont 1-800-251-5720

SITE OF THE 1987 ANNUAL MEETING OF THE  
SOCIETY FOR INVERTEBRATE PATHOLOGY.

Map Mileage

From: Jacksonville to Gainesville.....	62 miles
Miami.....	331 miles
Orlando.....	109 miles
Tampa.....	128 miles

(Double mileage for round trip)



## QUESTIONNAIRE.

If we want invertebrate pathology to flourish and create jobs, we have to produce versatile, well trained, competitive people to create and fill the niches. This requires good instruction and the knowledge of its availability. To assist us in answering inquiries from prospective students of invertebrate pathology, would you please send the following course information to:

Harold L. Zimmack  
Biology Department,  
Ball State University,  
Muncie, Indiana 47306,  
U.S.A.

The information will be summarised in a future SIP Newsletter.

Name of course(s):

Scope of course(s):

Level of course(s):

Prerequisites:

When and how often offered:

Name of instructor(s):

Name of institution:

Address of institution:

Additional comments: