

sip

newsletter

society for invertebrate pathology

Volume 20, Number 1
February 1988

MESSAGE FROM THE PRESIDENT

Dues Increase?

The 1988 budget projects that basic expenses (four SIP Newsletters, ballots, postage, and miscellaneous office expenses) will exceed basic income (dues) by about 33%. This short fall will be made up by interest income and contributions from sustaining members so no operating deficit is projected. However balancing the budget with interest allows the capital base to be eroded by inflation and permits minimal freedom for useful projects such as the Founder's Lecture Award and Best Student Paper Award which have recently been initiated. Except for those awards virtually all SIP expenditures are utilitarian and most Society Officers subsidize their Society related expenses with their institutional funds. Essentially dues pay for the SIP Newsletter, miscellaneous income pays for maintaining member records, collecting dues, and miscellaneous costs and equity growth has resulted largely from occasional meeting surpluses.

The Society's unrestricted equity represents about \$33.00 (U.S.)/member. As the Council discussed at the Gainesville Meeting most strong Societies are substantially better endowed. For two examples the American Society of Zoologists has an equity exceeding \$50.00 (U.S.)/member and the Entomological Society of American has an equity exceeding \$150.00 (U.S.)/member.

Since the SIP dues were last increased in 1981 inflation in the U.S. economy totaled about 32%. The U.S. dollar is currently near its nadir with many other currencies so the impact of a dues increase would be tempered for the non U.S. members.

To ensure that the Society continues to follow sound business practices one of the agenda items for Council discussion in San Diego will be the advisability of a dues increase to cover basic operating expenses and to gradually raise the level of per member equity to strengthen the Society's security and operational flexibility.

Comments on this issue can be sent to any Council member or to the Newsletter Editor as a forum issue.

John Harshbarger

XXI ANNUAL MEETING
SOCIETY FOR INVERTEBRATE PATHOLOGY
UNIVERSITY OF CALIFORNIA, SAN DIEGO
at LA JOLLA
August 14-18, 1988

The annual meeting of the Society for Invertebrate Pathology will be held on the La Jolla campus of the University of California at San Diego. The campus is situated on a bluff in the beautiful oceanside resort town of La Jolla. Our meeting will be a joint one with the Society of Vector Ecologists, many of whom are members of SIP or share similar interests in invertebrate pathology and microbial control. The organizing committee for the joint meeting has aimed at developing a program that will not only be of scientific interest, but will allow the participants to take advantage of the many attractions offered by the San Diego area. Those who have the time - and money - are of course welcome to visit the many other attractions found throughout California, whether they be along the coast, in the mountains, or in our numerous deserts. For those hard-core entomologists and agriculturists, there are the San Joaquin, Sacramento, Coachella, and Imperial Valleys, all of which will be in full swing around the time of our meeting. And for those Latin American enthusiasts, don't forget that Mexico is only a short hop - 20 minutes - from La Jolla.

The information below has been prepared to aid you in making your plans for what we anticipate will be a most enjoyable meeting. Be especially prepared to relax. Any special questions can be directed to: Brian Federici (Tel. [714] 787-5006), Chair, La Jolla SIP/SOVE Meeting Organizing Committee, Department of Entomology, University of California, Riverside, CA 92521.

CALL FOR PAPERS AND ABSTRACTS

Deadline: April 30, 1988

Papers for the Contributed Paper Sessions and Poster Sessions for the SIP/SOVE Meeting are now being solicited. Those who intend to present papers are urged to prepare their presentations carefully so that they do not exceed the 12 minutes allotted per paper. Three minutes will be allowed for discussion following each paper. Projection facilities for standard 2" x 2" (5.1 x 5.1 cm) slides will be available for the Contributed Paper Sessions. Speakers requiring special projection equipment should notify P. Hoatson at the time the abstracts are submitted. For posters, the boards will be approximately 1.2 x 2 meters. Please plan to man or woman your poster for at least one hour.

A blank guide for preparing abstracts is enclosed with this issue of the Newsletter. Instructions are printed on the reverse; please follow them carefully. The abstract

will be prepared by direct reproduction of the material submitted. Thus, every error which appears in the submitted abstract will also appear in the printed Abstracts. Poorly typed and improperly prepared abstracts will not be printed.

Abstracts must be received at Riverside by April 30, 1988.

TRANSPORTATION

Car: The campus of the University of California at La Jolla is located right off Interstate Route 5, between the highway and the ocean, about 15 miles north of San Diego. Participants driving to the campus should exit Rt. 5 at La Jolla Village Drive and drive west. After about a mile, La Jolla Village Drive becomes North Torrey Pines Road; proceed along N. Torrey Pines Road about a mile to Muir College, which will be on your right. Registration will be in Tenaya Hall of Muir College.

Parking: Parking is available on campus for participants at a rate of \$11/week.

Air: Participants arriving by air should fly into San Diego International Airport. The airport is serviced by all major U. S. airlines, and many international carriers as well.

A free shuttle service from the airport to the campus (Tenaya Hall) will be provided on Sunday, August 14, from Noon until 6:00 p.m. The shuttle will depart on a more-or-less hourly basis. Additionally, if demand is sufficient, a similar service will be provided on Saturday, August 13th.

Taxi service is available from the airport to the campus at a cost of about \$25.

San Diego can also be reached by train and bus; participants interested in using these modes should contact their

travel agents for information. San Diego Transit [(619) 233-3004] provides information regarding travel in the vicinity of the city.

REGISTRATION

To register in advance for the meeting, please complete and return the enclosed registration form by June 30, 1988. Early registration is encouraged to aid the organizers in making arrangements for the meeting, and to ensure use of the best facilities. Those registering after June 30 will be assessed a late fee of \$20. All fees must be paid in U. S. currency.

Check-in for rooms and completion of registration will take place at Tenaya Hall of Muir College from 2:00 p.m. to 12:00 p.m. on Saturday, August 13, through Tuesday, August 16, 1988.

REFUND POLICY

The Societies will refund advance registration fees (less a \$5.00 handling fee) for all cancellations received in writing or by telegram on or prior to Monday, August 1, 1988. No refunds will be granted after this date. Refunds will be mailed from UC, Riverside, following the meeting.

ACCOMMODATIONS AND BOARD

Participants and their family members will be housed in student apartments on the La Jolla campus. The apartments are essentially townhouses and consist of 1 bedroom with 2 single beds (\$29/person/night), 2 rooms with a single bed each (\$36/night), a bathroom, dining area, living room and kitchen. The family (up to 4 related people) rate for these townhouses is \$58/day.

With the exception of families, participants staying on campus are required to pay for breakfast and lunch (total = \$11/person/day). Meals will be served in a cafeteria close to the townhouses. Dinner is optional, and will be available at a cost of \$7.50. Please keep in mind that the fees for the Mixer (Sunday night), Beach Barbeque (Tuesday night), and Banquet (Wednesday night) are included in the registration fee.

Participants are welcome to arrive on Saturday, August 13, 1988, after 2 p.m. We have made this arrangement for those wishing to take advantage of lower airfares that require an overnight stay that includes at least one Saturday night.

OFF-CAMPUS HOUSING

Off-campus housing is available at several hotels in La Jolla near the campus. Those recommended include The Village Inn (single, \$90-\$120; double, \$100-\$130/night; tel. [619] 453-5500); and The Summer House Inn (single, \$110; double, \$120; tel. [619] 459-0261).

WEATHER AND DRESS

During August, San Diego is almost always sunny and warm during the day, and thus casual summer dress is appropriate. Daytime temperatures average around 80°F. At night, the temperature can be quite cool because of the close proximity of the campus to the ocean, and participants should bring along a sweater or jacket. And don't forget a bathing suit.

CHILD CARE

Child care and babysitting services are available at a cost of \$16.50 for a four-hour minimum. Call (619) 296-0856 for service.

ROAD RACE

A 5-km race will be held on campus on Tuesday afternoon, August 16. Those wishing to enter the race should complete and return the enclosed race registration form as soon as possible, but no later than June 30, 1988.

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: April 30, 1988

SOCIAL ACTIVITIES

The meeting will include a Mixer (Sunday night), Beach Barbeque (Tuesday night), and Banquet (Wednesday night). For those interested in additional social activities, a list of bars, nightclubs, theaters, and churches in La Jolla will be provided in the registration packet.

ATHLETIC FACILITIES

Recreation cards are available (\$13.00 single, \$25 family/week) which entitle participants to use a variety of facilities including the swimming pool, tennis courts, squash courts, sauna, weight room, track, racquetball courts, volleyball and basketball courts, and exercise room.

EMERGENCY INFORMATION

In the case of any emergency, the campus police should be contacted by calling 534-4357, day or night. The number to call from campus extensions is 44357.

TOURS AND TOURIST INFORMATION

There are so many attractions in the San Diego area that it will be difficult for participants to see more than a few if they only come for the length of the meeting and attend the sessions. Among the attractions are the world famous San Diego Zoo, San Diego Wild Animal Park, Palomar Observatory, the San Diego Missions, Space Theatre and Science Center, Old Town, the Maritime Museum, Sea World, Scripps Aquarium, Balboa Park, Mission Bay Park, and a variety of wineries inland over the mountains. Additionally, trips down to Tijuana and Ensenada, Mexico, are easy to arrange, as are a variety of different types of ocean cruises, sailing, and deep sea fishing trips. Information on all of these will be provided in the registration packet participants receive on arrival.

In scheduling the meeting, the organizing committee has left Wednesday afternoon free for touring and sightseeing. A tour to the San Diego Zoo has been arranged for Wednesday afternoon; tickets will be \$12 for adults, \$6 for children. Those not wishing to go on the zoo tour can make their own arrangements, choosing from the possibilities listed above as well as many others that will be available.

For those who do not wish to go on any tours, there are very nice beaches close to the campus where one can swim, snorkel, or go skin-diving.

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ELECTION OF SIP OFFICERS 1988-1990

The slate of nominees for the offices of the SIP council for the 1988-1990 term (1988-1992 in the case of Trustees) is given below. The biographies of the nominees are given following the slate.

Also on the same ballot are the names of two of our distinguished colleagues who have been nominated for election as Honorary Members of the Society.

The ballot and the envelopes for return of the ballot are enclosed. Please seal the marked ballot in the envelope labelled **BALLOT**. DO NOT MARK ANYTHING ON THIS ENVELOPE. Place it in the second envelope addressed to the Secretary of the Society, Dr. Ann Cali, and mail in sufficient time to ensure receipt by **JUNE 1**. Be sure to write your name on the mailing envelope.

Slate of Nominees

President	D.W. Roberts
Vice-President	E.G. Davidson J.D. Harper
Secretary	R.S. Anderson P.F. Entwistle
Treasurer	K.R. Cooper F.G. Kern
Trustee	D.J. Alderman P. Faulkner D.E. Pinnock

W.M. Brooks,
Chairman, Nominating Committee

Biographies

President

Donald W. Roberts

Education: B.S. 1957 (Brigham Young University), M.S. 1959 (Iowa State University), Ph.D. 1964 (University of California at Berkeley).

Born: 1933

Experience: NSF Postdoctoral Fellowship to Swiss Federal Institute of Technology (ETH) 1964-65. Assistant, Associate, and full rank (1974) Insect Pathologist, Boyce Thompson Institute at Cornell University, 1965-Present. Coordinator, Insect Pathology Resource Center, Cornell Campus, 1979-Present.

Memberships: Founding Member of Society for Invertebrate Pathology (partial list of SIP service: Membership Committee (1970); Journal of Invertebrate Pathology Editorial Board (1973-1983); Local Arrangements Committee (1973, 1983); Program Chairman for Bozeman (1981), Pennsylvania State University ad hoc (1982), Ithaca (1983), and Davis (1984) meetings; Meetings Board Chairman (1984-); Division of Microbial Control, Vice Chairman (1984-85) and Chairman (1986-87); and maintenance of membership list (1982-85). Also, member of Sigma XI, American Association for the Advancement of Science, Entomological Society of America, Sociedade Entomologica do Brasil, and Malaysian Plant Protection Society. Fulbright Senior Research Scholarship to Australia (1985); consultant to World Health Organization, US National Institutes of Health, US Environmental Protection Agency, American Association of Biological Societies, US National Research Council/National Academy of Sciences, FAO/UNEP Expert Panel on Integrated Pest Control, EMBRAPA (Brazil), and others including some industrial groups; speaker and/or organizer of more than 80 symposia, conferences, and workshops plus presented numerous seminars world wide on various insect pathology topics.

Professional Interests: General insect pathology, microbial control, entomopathogenic fungi, microbial toxins, entomopoxviruses and baculoviruses, mosquito diseases, fungal genetics, and the role of microbial control in international agriculture.

Vice-President

Elizabeth W. Davidson

Education: B.Sc. 1964, Mount Union College, Ohio; M.Sc., 1967, Ohio State University; Ph.D., 1971, Ohio State University.

Born: 1942

Experience: NIH Postdoctoral Fellow in Acarology, Ohio State University, 1972; Instructor, University of Rochester, NY, 1973; Faculty Research Associate, Arizona State University, 1973-1986; Associate Research Professor, Arizona State University, 1986-Present; Visiting Scientist,

Monash University, Melbourne, Australia, 1980; Visiting Scientist, University of Zurich and ETH-Zurich, Switzerland, 1987.

Membership: SIP member since 1968; Local Arrangements Chairman, 1974; Nominating Committee, 1977; Chairman, Safety Working Group, 1980-83; Chairman of Publications Board 1983-84; Microbial Control Division, 1984-Present; Foreign Travel Committee, 1986; Chairman, Endowment Committee, 1986-88; Ad Hoc Reviewer, Journal of the American Mosquito Control Association. Society of Vector Ecologists. Editorial Board, Journal of Invertebrate Pathology (1983-1987). Ad Hoc Reviewer, Journal of the American Mosquito Control Association, Journal of Medical Entomology, Canadian Journal of Microbiology, Journal of Economic Entomology. WHO Special Programme for Research and Training in Tropical Diseases, Scientific Working Groups and Consultations, 1978, 1981, 1982, 1985; NIH-Tropical Medicine and Parasitology Ad Hoc Panel, October, 1986. Environmental Protection Agency Biotechnology Science Advisory Committee, Subcommittee on Definition of Pathogen, Washington, DC., February, 1987.

Interests: Microbial control of vector insects, with emphasis on Bacillus pathogens of mosquitoes. Pathogenesis and mode of action of bacterial diseases. Safety of insect pathogens for nontarget organisms. Insect cell culture.

James D. Harper

Education: B.S. 1964 (University of Illinois); M.S. 1965 (University of Illinois); Ph.D. 1969 (Oregon State University).

Born: 1942

Experience: Professor, Department of Entomology, Auburn University, 1986-Present; Professor, Department of Zoology-Entomology, Auburn University, Alabama, 1980 to 1986; Assistant and Associate Professor 1969-1980.

Membership: Charter Member, Society for Invertebrate Pathology; Treasurer 1980-82; Auditing Committee 1980; Nominating Committee 1982-84; Chair, Microbial Control Division 1981-83; Chair, Organizational Committee for Microbial Control Division 1979-81; Journal of Invertebrate Pathology Editorial Board 1980-82; Chair Publications Committee, 1985-Present; Entomological Society of America: Secretary Section C 1985-86, Chair-elect 1986-87, Chair 1987-88; Program Committee 1986-88. Southeastern Branch ESA: Student Awards Committee 4 years (Chair 1 year); Publicity Committee 1984; Chair, Local Arrangements Committee 1982; Program Committee 1986-90. Florida Entomological Society, Georgia Entomological Society, Alabama Academy of Science, Southeastern Biological Control Working Group, International Organization of Biocidal Control; Sigma XI; Gamma Sigma Delta, XI Sigma PI.

Interests: General insect pathology with emphasis on microbial control of forest, vegetable, and row crop defoliators. Epizootiology of entomopathogens with emphasis on fungi and viruses in row crop systems.

Secretary

Robert S. Anderson

Education: B.S. 1961 (Drexel University), M.S. 1968 (Hahnemann Medical University), Ph.D. 1971 (University of Delaware).

Born: 1939

Experience: Postdoctoral Fellow, University of Minnesota 1970-73; Head, Laboratory for the Study of the Phylogeny of Cancer and Immunity. Sloan-Kettering Institute for Cancer Research 1973-82; Research Biologist/Immunologist, Biotechnology Division, Aberdeen Proving Ground 1982-86; Professor of Comparative Immunology, University of Maryland Chesapeake Biological Laboratory 1986-Present.

Membership: Society for Invertebrate Pathology, Membership Committee Chairman 1986-88; American Association of Immunologists; American Society of Zoologists, Division of Comparative Immunology, Nominating Committee 1978, 1981, Program Officer 1981-83, Local Committee for Annual meeting 1985; New York Academy of Sciences; International Society of Developmental and Comparative Immunology; Society of Sigma

Xi; Society of Toxicology; Editorial Boards: Journal of Comparative Immunology 1977-83. Editor-in-Chief: Journal of Invertebrate Pathology (founding editor); NIH Tropical Medicine and Parasitology Study Section (AHR) 1985-Present.

Interests: Comparative immunology: immune mechanisms of invertebrates, with emphasis on insects and bivalve mollusks. Immunotoxicology: effect of xenobiotics in disease resistance in marine invertebrates and mechanisms of chemical toxicity. Invertebrate pathobiology: metabolic activation and detoxification of carcinogens.

Objectives: To promote interdisciplinary exchange of scientific information within S.I.P. by supporting a healthy balance between applied and basic science, as well as between areas of scientific specialization. To increase representation of all aspects of invertebrate pathology by increasing the Society's scientific visibility and by actively recruiting new members.

Philip Frank Entwistle

Education: B.S. (Zoology) 1953. (Royal College of Science, London).

Born: 1931

Experience: 1964-Present: NERC Institute of Virology, Head Epidemiology and Control Projects since 1971: Senior Principal Scientific Officer. 1953-54 Imperial College Field Station as Colonial research. 1954-55 Rothamsted Experimental Station Service Student. 1955-60 Entomologist, West African Cocoa Research Institute, Ghana. 1960-64 Entomologist and latterly Head of Entomology Section at Nigerian Cocoa Research Institute. Also Acting Director for a while. 1986 Appointed Senior Principal Research Officer.

Membership: Fellow, Royal Entomological Society (since 1952). Member, Society for Invertebrate Pathology. Member, Association of Applied Biologists. Member, Oxford University Entomological Society (Vice President)

Interests: General Entomology; Mealybugs in relation to cacao in Ghana; Integrated Pest Management programs in West Africa, Nigeria, Nicaragua; Epizootiology of insect virus diseases; Founder member of Insect Pathology Working Group International Organization of Biological Control.

Treasurer

Keith Raymond Cooper

Education: B.S. 1973 (College of William and Mary); M.S. 1976 (Texas A & M); M.S., Ph.D. 1979 (Thomas Jefferson University).

Experience: Associate Professor of Toxicology, Rutgers University.

Membership: Society for Invertebrate Pathology, Sigma Xi, Society of Toxicology, Society of Environmental Toxicologists and Chemists, National Shellfisheries Society.

Interests: I am a member of Sigma Xi, the Society of Toxicology, the Society of Environmental Toxicologists and Chemists, the Society of Invertebrate Pathology and the National Shellfisheries Society.

Frederick G. Kern

Education: B.S., 1970 (University of Maryland Biological Sciences). NOAA Graduate Scientist Program: Courses at Johns Hopkins University included: Biology of populations, Viral infections, Protozoan Parasites, Animal Pathology, Histology, Comparative Pathology of invertebrates, Immunology, Diagnostic parasitology, Bacterial infections, Mycobacterial Diseases, Medical Parasitology, Virology, Zoonotic Diseases, Physiology. ADP Computer Courses: Intermediate System 1022, 1022 data programming language, VAX systems operations, TSAM operation, ICI and EMS operating programs. Dbase III+, Lotus 123, Reflex, Wordstar, Wordperfect.

Experience: 1971-Present: Fishery Biologist (Research) National Marine Fisheries Service, Oxford, Md. Currently Chief, Invertebrate Pathology Investigation.

Memberships: Member SIP since 1978.

Interests: Research studies on the identity, cause,

distribution, prevalence and significance of diseases in economically important estuarine, coastal, and oceanic invertebrates.

Trustee

David J. Alderman

Education: Ph.D. University of London,

Born: 1943

Experience: Head of Microbiology, MAFF Fish Diseases Laboratory 1985-date; Senior Scientific Officer, FDL, 1981-date; Higher Scientific Officer, FDL, 1976-81; Research Fellow, Portsmouth Polytechnic 1969-76; Honorary Lecturer, Institute of Aquaculture, University of Stirling, 1986-date.

Membership: Society for Invertebrate Pathology; European Association of Fish Pathologists; British Mycological Society; Society for General Microbiology; Marine Biological Association of the United Kingdom; Royal Microscopical Society. Member of the Editorial Board of Aquaculture.

Interests: All aspects of disease and disease control in aquatic species.

Peter Faulkner

Education: B.Sc. (University of London) 1950; Ph.D. (McGill University) 1954.

Born: 1929

Experience: Research Scientist, Insect Pathology Lab., Canada Department of Agriculture, Sault Ste. Marie, 1954-63. Research Scientist, MRC (United Kingdom) Virology Unit - Carshalton, Surrey, 1963-65. MRC Career Investigator 1965 - present and Professor, Department of Microbiology & Immunology, Queen's University, Kingston, Canada 1973-Present. Visiting Scholar, NERC- Institute of Virology, Oxford 1973-74; University of California, Berkeley: Department of Entomology, and DSIR Auckland, New Zealand 1982-83.

Membership: Biochemical Society (London); Society for General Microbiology; Canadian Society for Microbiology; American Society for Microbiology; American Society for Virology; Society for Invertebrate Pathology. Associate editor of VIROLOGY, 1983-85. Co-chairman, Symposium on DNA and RNA Viruses, VII International Congress of Virology, Edmonton, Alberta 1987.

Professional Interests: Molecular genetics of baculoviruses and small RNA viruses of insects. Molecular basis of virulence and host range in insect viruses. Use of baculovirus expression vectors to produce novel proteins.

D.E. Pinnock

Biography not available at press time.

Results

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44. Martin Collins	25.03
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46. John Killick	27.13
47. Brian Most	27.15
48. Sylvie Marcandier	27.31 (fem)
49. Paul Fast	27.35
50. Inke Sunila	27.35 (fem)
51. Annemiek Lameris	30.01 (fem)
52. Group Chris Payne	37.28 (1/2 dist)
53. Diane te Strake	40.55 (fem)

Info: Peter Smits
IPO, Wageningen
The Netherlands

ANNUAL 5K SIP RUN RESULTS - 1986

Finally the commission of appeal has reached an agreement on the outcome the fourth annual SIP 5 kilometer road-race. The race was held on Wednesday August 20 1986 in the park surrounding the Koningshof conference center in Veldhoven, The Netherlands. Under ideal conditions in a slightly accidentated terrain the winning time of the race at Sault Ste. Marie, 18.11 minutes, was beaten by almost two minutes. Who else than Norman Crook could again be the winner, but this time he was chased to the very end by G. Couche, who ended only 8 seconds behind. As first woman, Irene Carlberg passed the finish line in 21.59 minutes, as number 36 overall. A group lead by Chris Payne walked half the distance in a time of 40.55. A total of 57 people joined and finished the race among whom were only 6 females.

PERSONALIA

EMERITUS MEMBERS

The following persons have been elected to Emeritus Membership in the Society following retirement from their professional careers:

Dr. Phyllis T. Johnson
Dr. Jaroslov Weiser

Both are former Presidents of the Society.

In November 1987 Dr. John D. Vandenberg was transferred from the position of Research Entomologist, USDA-ARS Beneficial Insects Laboratory in Beltsville, Maryland, to become Research Leader at the new USDA-ARS Bee Biology and Systematics Laboratory in Logan, Utah. In his new position, he will conduct research on diseases and pests of pollinating bees and will supervise programmes in bee biology, management and taxonomy. Dr. Frank D. Parker, former Research Leader at the Logan Lab. has been transferred to the USDA-ARS Screwworm Laboratory in Costa Rica.

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Two New Volumes in Press

Diseases of Nematodes

Edited by George O. Poinar, Jr., University of California, Berkeley, and Hans-Borje Jansson, Lund University, Sweden

Contents, Volume I

- Chapter 1. Physiological Diseases Induced by Plant Responses or Products. F.J. Gommers and J. Bakker.
- Chapter 2. Nutritional and Metabolic Diseases. E.L. Hansen and J.W. Hansen.
- Chapter 3. Genetic Diseases. R.S. Edgar.
- Chapter 4. Viral Diseases. R. Hess and G.O. Poinar, Jr.
- Chapter 5. Bacterial Diseases and Antagonisms. R.M. Sayre and M.P. Starr.
- Chapter 6. Protozoan Diseases. G.O. Poinar, Jr. and R. Hess.
- Chapter 7. Immune Responses and Wound Repair. G.O. Poinar, Jr.

Contents, Volume II

- Chapter 8. Fungi Attacking Vermiform Nematodes. N.F. Gray.
- Chapter 9. Fungi Colonizing Cysts and Eggs. G. Morgan-Jones and R. Rodriguez Kabana.
- Chapter 10. Infection Events in the Fungus-Nematode System. H. Jansson and B. Nordbring-Hertz.
- Chapter 11. Invertebrate Predators. R.W. Small.
- Chapter 12. Biological Control of Plant-Parasitic Nematodes. G.R. Stirling.

In the present work, disease is considered as a departure from the state of health or normality in which the body, or a cell, tissue, or organ of the body, is disturbed functionally or structurally. This departure can manifest itself as a disruption of the growth, development, function or adjustment of the organism to its environment. Thus, any agent which either by its presence or absence, causes any destructive process at the cellular or organismic level is a disease-producing agent.

The work is dedicated to the memory of Robert Ph. Dolfus of the Muséum National d'Histoire Naturelle, Paris, who in 1946, published "Parasites des Helminthes," the first volume on the subject of diseases in nematodes and related groups of worms.

The work will be published by CRC Press and is expected to appear in June 1988 or earlier.

Report of the meeting of the WPRS Study Group on Insect Pathogens and Insect Parasitic Nematodes.

2-4 September 1987, Versailles, France.

The first major scientific meeting of the group was held at the INRA Centre at Versailles. The meeting focused on two main themes; Biological Control of Weevils and Environmental Persistence of Pathogens. A total of 69 scientists attended from twelve countries within the IOBC/WPRS. Scientists working in Poland, the U.S.A., Ivory Coast and Indonesia were also present. More than thirty papers were presented, divided more or less equally between the two themes. Those working on the biological control of weevils drew attention to the value of insect-parasitic nematodes and fungi as control agents. The black vine weevil, *Otiorynchus sulcatus* was the principal pest target. In animated discussion sessions a number of areas for future collaboration were identified. These included bioassay procedures for nematodes and fungi, searches for new regional isolates of nematodes and fungi (particularly those which are effective at lower soil temperatures), and the preparation of a fungal pathogen-host list for curculionid weevils. Problems were encountered by many in the identification of larval stages of weevils and cooperation from other scientists in this area would be welcomed.

Discussion on the environmental persistence of insect pathogens concentrated on persistence in soil, on plants and within insect populations. Biotic and abiotic factors influencing soil persistence were reviewed and the effects of solar radiation and rain on pathogens on leaf surfaces, were extensively discussed. Summaries of all the papers and the discussion sessions together with the conclusions and programme of collaborative work will be published in a future IOBC/WPRS bulletin. The next full meeting of the Study Group is planned for late winter/spring 1989 in northern Italy, when progress on collaborative projects will be reviewed. Pathogen epizootiology as it relates to the future use of genetically manipulated and non-indigenous insect pathogens and nematodes, is likely to be the main theme of this next meeting.

I would like to thank Dr. Jacques Fargues and colleagues for making the excellent local arrangements for the meeting in Versailles. The private evening visit to the Royal Chambers at Versailles and the banquet ideally complemented the daytime scientific discussions.

C.C. Payne.
Convener

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CONFERENCE ANNOUNCEMENT

A conference on "Biotechnology, Biological Pesticides and Novel Plant-Pest Resistance for Insect Pest Management" will be held in Ithaca, New York July 18-20, 1988. The conference will stress research advances in the molecular biology of biological agents, but will also attempt to integrate these new biotechnology concepts with current pest management practices. The papers will be by invitation. Contributed poster presentations are welcome.

The topics include:

1. Insect Pest Management Concepts: National and International
2. Genetic Engineering of Insects
3. Genetic Engineering of Entomopathogenic Microbial Agents
 - A. Genetic Engineering of Viruses

SIXTH ANNUAL SIP 5 KM RACE.

Tuesday, August 16th at 4.00pm.

\$7.00 entry fee includes the price of a souvenir T-shirt.
Please enclose this fee with the completed entry form and mail
to the address at the bottom of this sheet.

Name _____
Address _____

Age group under 40 _____ Sex M _____
 40 and over _____ F _____

T-shirt size (men's) S _____ M _____ L _____ XL _____

I intend to participate in the race. I affirm that I am in proper
physical condition to participate in this race and in consideration of
the acceptance of this entry hereby release sponsor officials and
organizers of this race and the University of California from all
claims of injury or damage to person or property, including death,
resulting from my running in this event.

Signature _____

I would like a souvenir T-shirt but I do not wish to enter the race.

Signature _____

Return this form BY JUNE 1st, together with the entry/T-shirt fee of
\$7.00 to:

Dr. George G. Soares,
Mycogen Corporation,
5451 Oberlin Drive,
San Diego, California 92121,
USA.