



North, to Alaska!

**38th Annual Meeting of the
Society for Invertebrate Pathology
Anchorage, Alaska
August 7-11, 2005**

Meeting web site: <http://www.ent.iastate.edu/sip/2005/>

The 38th annual meeting of the Society for Invertebrate Pathology will be held at the University of Alaska, Anchorage, in the USA. Alaska, called the Last Frontier for good reason, is a very special part of the United States. The landscape is dominated by mountain ranges, tundra plains, rain forests, glaciers, and abundant wildlife (even on campus). Anchorage, located in the south central part of the state, is the largest city in Alaska. It has something to offer everyone, including wildlife viewing, glaciers, mountains, hiking, rafting, camping, fishing, biking, and whale watching, as well as the urban pleasures of fine dining, arts, shopping, cultural attractions and more. Plan to spend some extra time before, during, or after the meeting exploring the multitude of things to do and see in the Anchorage area. Better yet, plan a trip to explore other parts of this vast, magical state. All social and scientific venues and housing options are handicap accessible.

Location: Alaska is the northern-, western- and easternmost (west of the International Date Line) point in the US. It is as far north as Helsinki and as far west as

Honolulu. Anchorage sits at the base of the Chugach Mountains along the coast of Cook Inlet in South central Alaska. Mount McKinley, 130 miles (208 km) north of downtown, can be seen on clear days and is the tallest mountain in North America. The city of Anchorage encompasses 1,955 sq. miles - about the size of the state of Delaware, and has a population of about 260,000.

Venue: The scientific program and housing for most delegates and their families will be on the campus of the University of Alaska, Anchorage (UAA), 3700 Sharon Gagnon Lane (University web site: <http://www.uaa.alaska.edu/>); alternative housing at nearby hotels is also available. UAA is centrally located in Anchorage. By car (or shuttle bus) from UAA one can go downtown in 15 min, to the foothills of the Chugach Mountains in 10 min, and to the airport in 15-20 minutes.

All scientific sessions will be held in a group of campus lecture halls, classrooms, and a large 900-seat auditorium located close to campus housing. Conference guests have access to UAA's computer lab, which is fully equipped with Mac and PCs with Internet access. UAA has a multi-purpose Sports

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Deadline for the next Newsletter is June. 1, 2005

SIP Office

Please send all correspondence, membership applications and changes of address to our Executive Secretary, Margaret (Peg) Rotstein at:

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Homepage: <http://www.sipweb.org>
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Note: Toll Free numbers for Canada & USA only

Center complete with ice rink, gymnasium, Olympic-size swimming pool, and an outdoor equipment rental store. Campus center outdoor equipment will rent mountain bikes, roller blades, cook stoves, tents, backpacks, canoes, coolers, compasses, sea kayaks, etc. (907-786-1204). Also located at the student center and in the campus housing area are convenience stores, restaurants, and laundry facilities.

Scientific Program: The 38th Annual Meeting will begin with afternoon registration and an evening welcome mixer on Sunday, August 7, 2005, followed by a full scientific program Monday through Thursday. The scientific program will open Monday morning with the Founder's lecture and plenary session, followed by afternoon symposia and contributed papers. The excursion and BBQ will be on Tuesday afternoon, and the meeting will close with the banquet on Thursday evening. Symposia and contributed paper sessions will be conducted throughout the meeting (except Tuesday afternoon). Contributed papers are being solicited on all topics related to invertebrate pathology. Posters will go up on Monday and stay up until Thursday morning. The Division business meetings are slated for the evenings of Monday and Wednesday, to be followed by division and student workshops. The Society's business meeting will be held late morning on Wednesday.

SIP NEWSLETTER

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The SIP Newsletter is published 3 times per year and is available on our homepage.

Submissions to the following sections are solicited:

Forum: More substantial articles on current issues of concern, limited to approximately five pages.

Letters to the Editor: Issues of concern can be brought to light here.

Microbial Control News: Information on new discoveries, "News Releases", formation of companies, etc., pertaining to microbial control.

We also depend on our members to supply us with information for the following sections: **Obituaries**, **Member News** (Retirements, Awards, Promotions), **Members on the Move** (New Addresses), **Positions Available/Wanted**, **Meeting and Workshop Announcements**, and other **News Items**.

Send all submissions directly to the Editor. Submissions via e-mail or on computer disk (MSWORD, if possible) streamlines publication and saves on costs. Please include a hard copy with any text sent via computer disk.

Deadline for the next Newsletter is June 1, 2005.

Disclaimer: The information contained herein, including any expression of opinion, and any projection or forecast, has been obtained from or is based upon sources believed by us to be reliable but is not guaranteed as to accuracy or completeness. The information is supplied without obligation and on the understanding that any person who acts upon it or otherwise changes his/her position in reliance thereon, does so entirely at his/her risk.

Workshops:

Microsporidia Division: *Transmission and Ecology of Microsporidia: A Broad Spectrum of Possibilities*

Virus Division: *Microarray Technology, Genomics and Proteomics*

Microbial Control Division: *Bioassays with Insect Pathogens: Concepts and Performance*

Student Workshop**Divisional Symposia:****Bacteria Division**

Toxin-receptor Interactions and mode of Action

Fungus Division

Systematics and Ecology of the Entomophthorales: Results from a European Collaboration

Microbial Control Division

Use of Pathogens against Incursion Pests

A Brief History of LUBILOSA

Microsporidia Division

Why Study Microsporidia? - Interesting Research Areas besides Taxonomy and Biological Control

Nematode Division

Genomics and Functional Genomics of Entomopathogenic Nematodes

Towards Ecological Engineering of Entomopathogenic Nematodes

Virus Division

Insect Expression Systems, Gene Therapy and Vaccine Development

Polydnaviruses and Ascoviruses

Cross-Divisional Symposia:

Invertebrate responses to pathogens

Molecular interactions between insect vectors and human pathogens

*Symbiosis and virulence of invertebrate pathogens
Diseases of marine invertebrates*

Relevance of disease transmission to pest and pathogen control

Deadline for abstracts: April 15, 2005

The Program committee solicits your contribution of

abstracts for presentations at the meeting. Instructions for abstracts are available in the registration booklet in this newsletter. Contributed oral presentations will be limited to 12 minutes with an additional 3 minutes for answering questions. Because of concurrent sessions, moderators will be instructed to keep to the scheduled times. Digital projection and PC computer equipment will be available. This year we are asking speakers to upload PowerPoint presentations prior to the start of the conference. More information about this will be provided shortly (details will be posted on the meeting website). Posters should be 1.2 m (4 ft) wide by 0.9 m (3 ft) tall. Tacks for mounting posters will be provided.

Participants in the Student Competition will be limited to one presentation, either a poster or a contributed paper, but not both.

April 15 is the deadline for receipt of abstracts for the symposia, contributed papers, poster and plenary presentations. Abstracts received after the deadline will not be printed and late submissions will be scheduled as posters if space permits. The Program Committee reserves the right to request that some contributed papers be presented as posters although this will only be done if absolutely necessary. The printed Program and Abstract book will be available only to those registered for the meeting. A PDF file of the Program and Abstract book will be available on the web.

Deadline for registration

Early registration: March 1 to April 29

Late registration: May 1 to August 1

Walk-in registration rates: After August 1

On-line registration is strongly encouraged and will begin March 1, 2005 at:

<http://www.ent.iastate.edu/sip/2005/>. However, for those who prefer to register by mail or fax, registration materials are provided in the registration packet booklet in this newsletter.

The registration fee includes access to the scientific and social program, Program and Abstract book, mixer, barbeque with entertainment, banquet dinner with entertainment, and refreshments and transportation during the conference. The registration fee is a real bargain for members of the Society. Non-members can obtain the member

registration fee if they submit a membership application at the same time as submitting their meeting registration (see the form at the end of this insert). Check-in registration for the conference will begin Sunday, August 7 in the afternoon.

Cancellation policy: Refunds for cancellations will only be provided before July 1, 2005 with a 25% cancellation fee. After July 1, refunds cannot be guaranteed.

Social Program

Mixer: The welcome mixer will be held in the Lucy Cuddy Center on campus on the evening of Sunday, August 7. Extra tickets are available for guests; price includes transportation (to on campus location), drinks, and heavy hors d'oeuvres.

Excursion: For the excursion, we will board luxurious coach buses on the afternoon of Tuesday, August 9. Our trip will begin with a drive along the Turnagain Arm of Cook Inlet (with one of the highest tides in the world) to Portage Glacier, where we will take a cruise to view the glacier up close. We will then visit the Alaska Wildlife Conservation Center where we will view animals in VERY large natural environments. We will see moose, elk, bison, musk ox, caribou, grizzly bears, black bears, bald eagles, and other birds of prey. Traveling back to Anchorage along Turnagain Arm, we will stop at Potters Marsh to watch the salmon run at the Anchorage Coastal Wildlife Refuge. The optional excursion fee is \$65 and includes a box lunch.



5K Race: The race will be held on campus, using an established path close to the Housing Commons that winds around Behm Lake. The trail is fairly flat; you may observe moose or other wildlife along this route.

Barbeque: Following the excursion, the barbeque will be held at the Alaska Native Heritage Center, the first visitor attraction devoted entirely to the exploration and display of the art, traditional customs and lifestyle of Alaska Native groups. Situated on a 26-acre wooded site, the Alaska Native Heritage Center features a Welcome-House, numerous exhibits, and five re-created, traditional village settings surrounding a small lake, offering a unique opportunity to learn about and explore the traditional Alaskan Native cultures. We will be treated to performances by native dancers, Athabaskan fiddlers, and native guides at each village. Following dinner and

entertainment, we will have a DJ to provide a variety of music for dancing. The 5K race awards will be presented at the barbeque. The cost



of the barbeque is included in the registration fee. Extra tickets for guests are available during registration; price includes transportation, admission to the Native Heritage Center, entertainment, drinks, and dinner.

Banquet: The Society banquet will be held at the Captain Cook hotel in downtown Anchorage on Thursday evening. The Captain Cook is by far the most luxurious hotel in Alaska. The Crow's Nest restaurant located on the top of the hotel deserves a visit, commanding panoramic views of the Chugach Mountain Range and Cook Inlet, where guests can often enjoy whale watching. We will be treated to a fabulous meal featuring local fresh fish and produce. Extra guest tickets are available during registration; price includes transportation, drinks, dinner with wine service, and live band for after dinner dancing. Student awards and the Founder's lecture award will be presented at the banquet.

Companion, Pre- and Post-Conference Tours Majestic Destinations:



www.alaskamajestic.com/Pathology.htm, also linked from the meeting website, has set up the following two companion tours for us. These tours can

also be arranged for before or after the conference. You may book on the web or call Nelida Irvine of Majestic Destinations at 1-800-501-7822.

Discover Alaska Tour: A narrated tour of downtown Anchorage and several outlying key sites of interest. On your tour you will visit the Captain Cook Memorial, Lake Hood, the site of the largest seaplane base in the world, Earthquake Park and other points of interest. Following this city tour, you will visit the Anchorage Museum of History and Art. This is the largest museum in the state with exhibits about art, history, and cultures of Alaska and Far North. Before lunch you will visit

Alaska Wild Berry Products, known worldwide for its Chocolate Waterfall, containing 3,400 pounds of milk chocolate cascading down 20 feet. While there, guests can tour the kitchens and learn how Alaska Wild Berry Products' delectable creations are made. A sumptuous Alaskan style luncheon will be served at the Sourdough Mining Co. Restaurant. This restaurant replicates a mill house from an Alaskan gold mine. A variety of delicious selections are offered, including fresh Alaskan seafood, barbecued specialties, unique salads, and Sourdough Mining Company's world famous Korn Fritters served with honey butter. A pre-chosen meal for your group will be served family style, \$85 per person.

Iditarod/Matanuska Valley Tour

This tour travels through the Matanuska Valley to visit the Iditarod Sled Dog Museum where you will learn all about the history of the Great Race and then take a sled dog ride (optional). This will be followed by a visit to the Wolf Country USA where you will view over seventy wolves and get your picture taken with one (Wolf Country USA can be substituted by Musk Ox Farm). Next, your group will tour the Alaska Reindeer Farm before stopping for lunch at the beautiful Lake Lucille Lodge. After lunch, you will tour the Alaska Transportation Museum and the Eklutna Athabaskan Indian Village and Historic Park before returning to Anchorage, \$88 per person.

Pre- or Post-Conference Tours go to

http://www.alaskamajesticstours.com/Trav_Alaska.htm

A huge number of tours (fishing, wildlife viewing, hiking, camping, trips to Denali National Park, etc.) are available from Alaska Tours and Travel, linked from the above URL, or go to <http://www.alaskatravel.com> directly to make your vacation arrangements. When making your reservations, provide the reservation agent with this code #02798316 (Majestic Destinations) to receive special promotion prices.



Housing Options:

There are 750 beds available in the campus residence halls; all rooms are accessed by key card. The dorms

are 8 years old, clean, and functional. There are a variety of floor plan options, including Single Suites (one single bed with private bath), Double Suites with private single bedrooms (each with single bed and 1 private bath), Quad Suites with private single bedrooms (each with

single bed, 2 private baths and a common area between each set of bedrooms and bath areas), and Quad Suites with double bedrooms and 2 bathrooms (limited in number). Linens and towels are provided and can be exchanged for fresh ones at any time. Each bedroom is equipped with a private telephone with voicemail, alarm clock, and Ethernet connection. *You will need to bring your own Ethernet cable.*

Each suite is equipped with a coffee maker, cups, and coffee supplies. Irons are available from the front desk. Refrigerators can be rented for approximately \$15/week. On each floor, rooms are clustered on one of two wings forming small living groups. Each residence hall features common area lounges for socializing, laundry and computer facilities, and a service desk that is staffed 24 hours/day. Lodging cost is \$25-35/day/person. All dorms are handicapped accessible with elevators.

It is a 2-minute walk from the dorms to the Housing Commons where there is a convenience store (The Bear Necessities) and full-service meals (The Creekside Eatery) at a very reasonable price (buffet style). Meal cards or a la carte meals can be purchased directly from the Creekside Eatery. Tickets will be available for purchase at on-site registration for a buffet lunch to be served in the vicinity of the scientific venue (Lucy Cuddy Center) on Monday, Wednesday, and Thursday (full-day scientific programs). Residents also have access to the "PowerHouse" Cardio-Fitness Center and computer lab (fully equipped with Mac and PC Microcomputers, Internet access and business software) and the Sports Complex adjacent to the Student Center, which houses an Olympic swimming pool and locker rooms with saunas.

There is no limit on how many days/weeks you can stay in campus housing prior to the conference start date of August 7. After the conference, however, campus housing will close on August 14 to prepare for the start of the fall semester.

Alternative Hotel Housing: If you wish to stay in a hotel, you are responsible for booking through the hotel directly. 50 rooms have been reserved among 3 midtown hotels, each about a 10-minute drive from campus, providing free airport shuttle service. The Hampton Inn's rate is \$189/night single or double, (907-550-7000 or 1-800-HAMPTON). The rate for single/double rooms at the Hilton Garden

Inn and Homewood Suites is \$229/night (907-729-7000 or 1-800-HILTONS). A less expensive option is the Aspen Extended Stay Suites located on 34th St. in midtown Anchorage (built in 2004). Rates are from \$95/night, 4-night minimum; lowest rates available through <http://www.tripadvisor.com>, but there is no daily maid service at the extended stay hotels. For those who wish to be located downtown in more luxurious accommodations (about 15 minutes away by car), Anchorage has the Marriott, Captain Cook, and Sheraton hotels. Summer is peak time in Alaska and hotel rates are high, although you may be able to get a lower rate than we negotiated if you book early using internet hotel consolidators (Travelocity, Hotels.com, Expedia, etc.). Anyone wishing to rent a car can park on campus during the summer for free.

Travel to Alaska by Air, Land or Sea

Anchorage's central location on the globe makes it convenient to reach by air, land, or sea from anywhere in the world. Anchorage International Airport is the major air gateway to Alaska. Travel information, weblinks and maps are located at <http://www.anchorage.net>.

More than 280 flights arrive daily at Ted Stevens Anchorage International Airport. Numerous airlines serve Anchorage, including Air Canada - (888) 247-2262, Alaska Airlines - (800) 426-0333, America West - (800) 235-9292, American Airlines - (800) 433-7300, China Airlines - (907) 248-3603, Continental Airlines - (800) 525-0280, Delta Airlines - (800) 221-1212, Era Aviation - (800) 866-8394, Japan Airlines - (800) 525-3663, Hawaiian Vacations - (877) 958-27, Korean Airlines - (907) 243-3329, Mavial/Magadan Airlines - (907) 248-2994, Northwest Airlines - (800) 225-2525, Peninsula Airways, Inc. - (800) 448-4226, Sun Country Airlines - (800) 359-6786, Thomas Cook/Condor - (800) 524-6975, United Airlines - (800) 241-6522.

To receive a 10% discount on published airfares to Anchorage on Northwest/KLM from Europe or Asia, call 1-800-328-1111 (Mon - Fri 7 am to 7:30 pm CT) and reference WorldFile number RBAQ7 (valid for travel July 31 - August 19, 2005). To receive a 10% discount on Northwest Airlines from North America (and Hawaii) valid for travel July 31-August 19, 2005, call 1-800-328-1111 (Mon - Fri 7 am to 7:30 pm CT) and reference WorldFile number NM6WC. From North America, Northwest also permits this discount on Mesaba, Pinnacle and Continental Airlines. To receive a 10% discount on Alaska Airlines valid for travel August 4 - August 14, 2005, call 1-800-445-4435 and reference ID # CMR7766. For a 10% discount on published fares on

Continental Airlines (valid for travel August 2-17, 2005), from U.S. and Canada call 1-800-468-7022 (7 am to 10 pm CST), Reference Number UL68Y1, Z code ZP1E. From outside North America, call your local Continental Airlines Reservation office. The transatlantic fares and from Central and South America and the Pacific on Continental Airlines are quite competitive.

The adventurous and those with lots of time can access Anchorage by land or sea. The scenic Alaska Highway links Alaska with Canada and the contiguous United States. It is fully paved with year-round services. There are lots of motels, diners, and campgrounds along the way. Road mileage to Anchorage: From Seattle 2,435 miles (3,896 km) (about 5 days to travel); From Los Angeles 3,712 miles (5,939 km); From New York City 4,649 miles (7,438 km); From Miami 5,434 miles (8,694 km.) Several cruise lines offer excursions May through September, docking in nearby Whittier, Seward, Homer and even Anchorage. Port cities are connected to Anchorage by road, air or rail. Cruise lines serving Alaska include Carnival Cruise Lines, Cruise West,



Holland America, Princess Cruises and Tours, Celebrity Cruises and Royal Caribbean. Daily rail

serve is available from Anchorage to Whittier, Seward, Talkeetna, Denali and Fairbanks (<http://www.alaskarailroad.com/>).

You can bring your car, recreational vehicle, or boat to Alaska on the Alaska Marine Highway (<http://www.dot.state.ak.us/amhs/>). They offer regularly scheduled ferry service for 33 communities in Alaska, plus Bellingham, WA, and Prince Rupert, British Columbia. The closest drop off point to Anchorage is in Whittier, AK (about 40 minutes drive to Anchorage; but there is also railroad service from Whittier to Anchorage).

Ground Transportation from Airport

The Ted Stevens Anchorage International Airport is just 3.5 miles from the University. Transportation to UAA is most convenient by taxicab (about \$10-

15 US) or shuttle service. Hotels will provide free shuttles from the airport. To take a cab, walk outside the airport and there will be a line of cabs waiting. **Alaska Shuttle** also provides door-to-door shuttle service. Phone 907-338-8888 or 907-694-8888, Fax: 907-322-1744. **Shuttleman** is another company that offers shuttle service, Phone 907-677-8537 email elvisonline@gci.net. **Alaska Cab & Handicap** provides taxi service Phone 907-563-5353; FAX: 907-563-9198, cabs@acsalaska.net.

Getting Around Anchorage

Like any metropolitan city, there are many transportation options within Anchorage, including taxicabs and limousines, rental cars, RVs, bicycles, motorcycles, motorcoach charters, and public bus service. The **Ship Creek Shuttle** connects key downtown Anchorage locations with the Ship Creek area, including stops at the Alaska Railroad Depot. The bus service operates 8:00 a.m. to 5:00 p.m., Monday through Friday, year-round. Saturday service, from 10:00 a.m. to 6:00 p.m. from Memorial Day weekend through Labor Day weekend.

Public Bus Transportation

The local public transit system, *the People Mover*, provides access to most visitor attractions and activities. Regular service is available weekdays from 6:30 a.m. to 9 p.m. with limited service evenings until 11 p.m. weekends and holidays. The closest bus stop on campus is on 36th Ave. (= Providence Dr.) across the street from Providence Hospital; the bus goes directly to downtown Anchorage. The People Mover Transit Center, 6th Avenue and G Street, has information, maps, and a handy guide entitled "Places To Go By Bus." Adult bus fare is \$1.25. A People Mover Day Pass is available for purchase from bus drivers for \$2.50 and allows unlimited rides on all People Mover bus routes for one calendar day. The Transit Center is located at 700 W Sixth Ave., Ste. 109, Anchorage, AK 99501-2165. Phone 907-343-6543 or 907-343-8491; Fax: 907-561-0879.

Automobiles are available through several car rental agencies. At the time of this writing, Budget Rent-a-Car had the most competitive internet rates if booked through Travelocity, Expedia, Orbitz, or tripadvisor.com (Budget's toll free phone 1-800-527-0700). Also available in Anchorage are AVIS RENT-A-CAR, Phone 907-277-4567 or toll free 800-331-1212, Fax: 907-249-8247; Dollar Car Rental, Phone 907-248-5338, Fax: 907-248-5233; Enterprise Rent-a-Car, Phone 907-277-1600, Phone toll free 800-736-8222; Hertz Rent-A-Car, Phone 907-243-3376 or 907-248-5009, toll free 800-654-3131, FAX 907-248-6492; Thrifty Car Rental, Phone 907-276-2855, toll free 800-847-4389, Fax: 907-279-1326.

Invitations. Those requiring invitations for obtaining visas should contact Dr. Liwang Cui, a member of the organizing committee responsible for visa assistance, at:

E-mail: luc2@psu.edu

Tel. (814) 863-7663

Other Useful Information

Weather in Anchorage. August high and low temperatures average 65°F and 49°F, respectively. However, highs can reach into the 70°'s and 80°'s during the day. But, weather changes quickly in Alaska, so come prepared. When packing for Alaska travel your best bet is to dress in layers regardless of which regions you plan to visit. Alaska is also very causal. Bring along jeans, slacks, sweaters, sweatshirts, t-shirts (short and long sleeve), a rain jacket or windbreaker, and comfortable walking shoes, maybe even a pair of



shorts. AND DON'T FORGET THE BUG SPRAY! There are mosquitoes, they are big, and they do bite. They are usually not a problem in August, however, unless you

are near a creek or lake (of which there are both on campus).

Time Zone. Anchorage, and most of Alaska, is in Alaska Standard Time, one hour behind Pacific Standard Time and four hours behind Eastern Standard Time.

Daylight Hours. Let there be light! In Anchorage, there are 24 hours of functional daylight on Summer Solstice. In early August, we will get about 16 hours of daylight.

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*******DATES TO REMEMBER*******

Meeting registration and abstract submission begin online March 1.

Deadline for submission of abstracts:
 April 15, 2005

Deadline for early/regular registration:
 April 29, 2005

Deadline for late registration:
 August 1, 2005

Walk-in registration:
 after August 1, 2005

Deadline for cancellation:
 July 1, 2005; includes a 25% cancellation fee. After July 1, refunds cannot be guaranteed due to commitments made by the organizers.

**ADDITIONAL MEETING
 ANNOUNCEMENTS
 Student Travel Awards**

***SIP Travel Award Application
 General Instructions***

(Please note!!! These instructions apply to all awards, including Division awards)

SIP Travel Award Application General Instructions

Students and their supervisors are advised to refer to the SIP Newsletter and SIP website for specific information regarding travel awards.

Applicants must be students enrolled in a university degree program. They need not be members of the SIP or of any Division sponsoring a travel award.

Applications for all travel awards, both poster and oral presentations, should be sent to the Chair of the Endowment and Student Award Committee, Dr. Stephen Wraight, email: spw4@cornell.edu. The subject matter of the presentation should pertain to topics in invertebrate pathology and microbial control. Individuals submitting oral presentations to a Division will automatically be considered also for the Martignoni Award.

There is no limit on the number of awards a student may apply for in a single year. However, while students meeting all requirements will be considered for multiple awards (for example, one or more Division-sponsored awards and the Martignoni Award), they will be eligible to receive only one travel award per year. Each student will be eligible to receive the Martignoni Award only once. Eligibility to receive Divisional awards more than once will be determined by each Division independently. Students should consult Division chairs for current guidelines

Required Information

1. Curriculum Vitae. This should include the applicant's name, address, institution, earned degrees, current degree program, honors and awards, research experience, and a list of publications and previous presentations.

2. A short biographical sketch and description of scientific interests and goals
3. A letter from the supervisor providing a recommendation, verification of student status, and confirmation that the research being presented was conducted by the student
4. Presentation abstract. The application must include a one-page summary of the presentation including title, authors, and affiliations (this may be the abstract submitted to the Annual Meeting Program Committee). The student's research contribution represents one of the most important selection criteria. Therefore, the abstract should be crafted with care, succinctly describing the research rationale, any unusual or novel methods, and the principal results. An explanation of the significance of the research findings should be offered in conclusion, based on sound interpretation of the results.
5. Brief (one page) description of experimental and analytical methods employed in conducting the research reported in the presentation abstract.

Deadlines

Deadline for submission: April 1

Committee decisions: May 1

Successful applicants will receive an official communication from the appropriate Committee Chair and should confirm their acceptance and participation as soon as possible. The award will be presented at the meeting, but if necessary for travel, can be sent earlier.

Mauro Martignoni Student Travel Award

All students of invertebrate pathology are invited to compete for the fifth annual Mauro Martignoni Student Travel award. An award of \$750 will be presented to support travel to the Annual Meeting in Anchorage, Alaska, USA (August 7-11, 2005). The recipient is required to submit an abstract and give an oral presentation based on his/her own work. As mentioned in the General Instructions, students submitting an oral presentation abstract will be automatically considered for this award. The student is not required to be a member of SIP and the subject matter may relate to any area of invertebrate pathology or microbial control. An award presentation will be made at the meeting, but arrangements may be made for receiving the funds in advance.

2005 Division Travel Awards

All poster travel award applications and, with the exception of the Martignoni Award winner, all oral presentation travel award applications will be forwarded to appropriate Divisions for consideration for the Division Travel Awards.

Bacteria Division:	Two \$500 awards
Fungi Division	One \$500 award
Microbial Control Division	2-3 awards (see SIP Website)
Microsporidia Division	One \$500 award
Nematode Division	One \$500 award
Virus Division	Up to three \$500 awards

2004 STUDENT PRESENTATION AWARDS

SIP and the Divisions presented an unprecedented number of student awards at the 2004 Helsinki meeting. Travel award winners were highlighted in the November 2004 Newsletter (Vol. 37 No. 3) and, in this issue, we recognize the achievements of winners of the oral and poster presentation awards. Congratulations to all of you and best wishes in your future endeavors!

Oral Presentations

First Place: Johanna Slothouber-Galbreath,

University of Leeds, United Kingdom.

"The diversity of microsporidia in fresh-water amphipods: host-parasite interactions during invasions"





Second Place: Yannick Pauchet, INRA-University of Nice -Sophia Antipolis, France. “Characterization of the cellular mode of action of the *Bacillus sphaericus* binary toxin in an epithelial cell line”

Honorable Mention (tie): Gang Long, Wuhan Institute of Virology, Chinese Academy of Sciences, China. “Characterization of heptad repeats of the F protein of HASNPV: similarity versus novelty”



Poster Presentations

Third Place: Nicolai Vitt Meyling, The Royal Veterinary and Agricultural University, Denmark. “Distribution and occurrence of entomopathogenic fungi in the soil in a single agroecosystem in Denmark”



First Place: Ayako Hirao, Tokyo University of Agriculture and Technology, Japan. “Blockage of *Adoxophyes honmai* nucleopolyhedrovirus infection in the midgut of a non-permissive insect, *Homona magnanima*”



Honorable Mention (tie): Lemma Ebssa, Hannover University, Germany. “Does it matter for entomopathogenic nematodes if thrips pupate at different soil depths, and for thrips to decide where to pupate if nematodes are around?”

Second Place: Sonia Costa, University of the Azores, Portugal. “Phagocytosis by insect macrophage: a morphological and biochemical study”





Third Place: Olga Burgazliev, Ben-Gurion University of the Negev, Israel. "Interaction between P20 and CYT1AA *in vivo* using the two-hybrid system of *Saccharomyces cerevisiae*"

Honorable Mention: Agata Jakubowska (not pictured), Wageningen University, Netherlands. "European *Leucoma salicis* MNPV is closely related to *Orgyia pseudotsugata* MNPV of North America"



Special thanks to Stephen Wraight, Chair of the Awards and Student Contest Committee, for coordinating the Martignoni Award and the many travel award applications and presentation awards.

FROM THE PRESIDENT

This is my second address to the membership of the Society for Invertebrate Pathology and an opportune moment to highlight some of the activities of our Society and some issues that need to be dealt with in the months to come. By the time you receive this issue of the Newsletter, the Council will have had their annual midterm telephone conference meeting to solve immediate problems and to identify items on the "still to do" list.

Communication is a most important aspect of a Society, small or large. We have an excellent conduit for exchange of information, our website. If we can keep that

site up to date, attractive and easy to interact with, we not only provide a service for ourselves, but also the scientific community at large. Often, it is the first contact with our Society and its activities. To keep it up to date, however, we need the help of all our committees and members to provide us with information. With websites, everything is automatic except the input. The challenge is yours.



The membership is our major concern at this point as it has shown a somewhat downward trend over the past few years. It is very important to reverse that trend. The transition has been made from manual membership records and dues collection to an automated system. But we may have lost a few members in the process and we now need to track our membership. I call upon our members to check that the old (and not so old) folks have renewed their memberships and to encourage colleagues, including students and postdocs, to join. The Society for Invertebrate Pathology is your professional Society and has much to offer. A personal "call", can hardly be refused.

The Anchorage Meeting (SIP2005) is quickly approaching and is an inviting prospect. The attractive website is already on-line and the deadlines for registration and submission have been indicated. Kelli Hoover and her team have shaped an excellent preliminary scientific and social program that will attract not only our members but also those who are not (yet). We, as a Society, offer everyone a "once in a life-time" experience (which, by the way, can be repeated every year).

We intend to improve the visibility of our meetings by joining with the Journal of Invertebrate Pathology in a joint effort to increase the news value of our meetings' scientific contributions and to reach a wider audience. We will initiate this effort by setting up a "Trends in Invertebrate Pathology and Microbial Control" format in the journal, beginning with some of the symposia at the Anchorage meeting. Prompt publishing is part of the effort. Bryony Bonning, program chair for SIP2005, is eager to assist, but it requires the

support of the invited Symposium speakers. This initiative will be a nice service to our Society.

In March, I will travel to China and, among other things, meet with the local Organizing Committee for the 2006 meeting in Wuhan. This will be an important meeting and an excellent opportunity to present the Society to the scientific communities in Southeast Asia. Invertebrate pathology and microbial control are important disciplines and can contribute much to the economic and environmental development of this region. It will also be a golden opportunity to involve the aquatic and crustacean pathologists.

Before ending, I wish all SIP members and their relatives and friends all the best for this year, and I hope to see many of you in Anchorage.

Just Vlask
President

REPORTS

Audit of the Treasurer's Report: Fiscal Year 2003-2004

The treasurer's report appears to be accurate and in order. The Society is still in relatively good shape financially despite a decrease in total assets from \$228,166.96 last year to \$179,136.98. The decrease was due in part to the Burlington meeting that showed a net loss of approximately \$20,000. In addition, general membership dues declined from \$14,025 in 2003 to \$11,745 in 2004, a 16% decrease. According to leadership in other Societies, the membership decline observed over the past several years in SIP is very typical. The conservative approach by the Treasurers and Council to maintain a healthy balance from past years has allowed the Society to absorb this decline without threatening the financial health of the organization. Due to low interest rates, no funds are currently held in CDs or other investments. All funds are held in low interest bearing money market accounts but, with the recent upturn in the economy, interest rates are predicted to rise. We encourage the Treasurer and Board to keep a close eye on interest rates and invest when appropriate. On the positive side, Newsletter costs, thanks to Lee Solter, Vince D'Amico and Gernot Hoch, continue to decline (\$5,155 in 2003 to \$2,163 in 2004). Overall, the Society had a net loss of \$24,591.60 in FY 2004 compared with net gains of

\$12,027 in FY 2003, \$16,773 in FY 2002, and \$21,394 in FY 2001.

Division funds continue to be healthy. Transfers of \$1,000 from the general fund to support Division speakers must be spent to support invited speakers. Unspent funds will be returned to the general fund each year.

Despite declining membership, the Society should continue efforts to maintain and attract new members, both student and full.

In summary, a net loss observed in FY 2004 was not detrimental to Society operations nor puts SIP in fiscal constraints. However, several years of losses could be damaging and efforts to ensure an annual meeting that, at the least, breaks even should be ensured.

Audit Committee: Michael R. McGuire and Mary Barbercheck

MEMBER NEWS



SIP Match Making!!

After meeting for the first time at the SIP 2002 meeting in Foz do Iguassu, Brazil, Robert Hirt and Alina Goldberg Cavalleri happily married on the 1st of May 2004 in London. They are both working at Newcastle University. Alina's project focuses on the molecular and cellular characterization of

microsporidia mitosomes. Robert studies molecular and cellular evolution of anaerobic and parasitic eukaryotes including, *Trichomonas*, *Microsporidia*, *Giardia*, and *Entamoeba*.

Mark Goettel reports a new email address:
Goettel@agr.gc.ca

POSITIONS AVAILABLE

Center Director (Head), Center for Ecological Entomology (CEE), Illinois Natural History Survey (INHS), Champaign, IL. Successful candidate will serve as administrative head of CEE and conduct externally funded research in agricultural, medical, or environmental entomology. Requires Ph.D. in entomology or related discipline, relevant administrative experience, demonstrated leadership and team-building skills, strong record of independent research, and interest in outreach or extension education. CEE includes 8 Ph.D. scientists conducting research in insect pathology, ecotoxicology, biocontrol, integrated pest management, organic production, biosystematics, insect behavior, and medical entomology, assisted by 25 research, technical, or support staff. The INHS is part of the Illinois Department of Natural Resources and an Affiliated Agency of the University of Illinois at Urbana-Champaign, IL. For more information and application requirements, see <http://www.inhs.uiuc.edu/opportunities/index.php>
Deadline: March 1, 2005.

Ph.D. level graduate student position at the National Institute of Occupational Health, Denmark in collaboration with Danish Graduate School in Public Health Science. Application deadline is March 1, 2005. The project title is:
"Exposure effects of airborne microbial-based insecticides in mice; deposition and accumulation in airways, intestinal organs and lymph nodes".
For additional information:
<http://fsksfsv.pubhealth.ku.dk/opslag2005.php>

Contact information for applicants:
Gunnar Damgaard Nielsen or Lars Andrup, LA@ami.dk
National Institute of Occupational Health
Denmark: www.AMI.dk

Ph.D. level graduate student position. We are recruiting a Ph.D. level student to study gene regulation and DNA replication of an insect specific ascovirus beginning the fall semester of 2005. The candidates must have a Masters Degree in biology or closely related fields by Aug. 2005. Applicants must be interested in invertebrate virology and must have good communication skills in English. GPA for undergraduate and graduate training must be above 3.0/4.0. Chemistry, biochemistry, cell biology, molecular biology and genetics must be above 3.2/4.0. It is also preferred that the candidates have taken virology and immunology during undergraduate or graduate studies but this is not required. If interested, please send transcript by email for initial evaluation before formal application to the graduate school.

Contact information for applicants:
Dr. Xiao-Wen Cheng
Department of Microbiology
32 Pearson Hall
Miami University Oxford Ohio 45056 USA
Email: chengx@muohio.edu

Graduate student (Ph.D. level preferred) to participate in an interdisciplinary research program focused on the genomics and molecular biology of *Mamestra configurata* (bertha armyworm), an important pest of canola that is being developed as a model for Canadian pest genomics research. The student will be involved in a basic research program to undertake a genomic, proteomic and biochemical examination of midgut physiology and digestive biochemistry with the ultimate goal of identifying novel targets for insect control. The regulation of digestive enzyme expression and the influence of regulatory serpins will be examined using micro-array based analysis in conjunction with a detailed proteomic analysis of the insect peritrophic membrane. The successful candidate should have a background in biochemistry, molecular biology, or a related discipline and be eligible for acceptance to the College of Graduate Studies at the University of Saskatchewan. Available April 1, 2005 or thereafter.
Salary: NSERC level (\$17,300 M.Sc. \$21,000 Ph.D.)
Contact information for applicants: Drs. Martin Erlandson or Dwayne Hegedus
(http://res2.agr.ca/saskatoon/emp/hegedusd_e.htm)
Agriculture and Agri-Food Canada

107 Science Place, Saskatoon, SK S7N 0X2
 Fax: 306-956-7247
 E-mail: "erlandsonm@agr.gc.ca" or hegedusd@agr.gc.ca

POSITIONS WANTED

Murali Mohan Challa

Postdoctoral position in entomology, molecular biology or biochemistry

I have obtained my Ph.D. Degree entitled "Phenotypic and molecular characterization of *Beauveria bassiana* (Bals.) Vuill. isolates suitable for integrated pest management of cotton bollworm (*Helicoverpa armigera* Hub.) in semi-arid tropics". From Andhra University, Visakhapatnam, A.P. India in 2003.

My interests are:

1. Understanding the biochemical mechanism of infection of entomopathogenic fungi to the agriculturally important insects; detection and analysis of novel fungal insecticidal toxins.
2. Development of biological control formulations against economically important agricultural pests.
3. Molecular analysis of mechanism of infection and understanding basis for toxin production in pathogenic fungi, bacteria and viruses.
4. Understanding population genetics of medically important microbes using RAPD, AFLP and bioinformatics.

Position location: Any

E-mail address: murali123123@yahoo.com

Ernst-Jan Scholte

Postdoctoral position: I obtained my Ph.D. November 30, 2004, in medical entomology/insect pathology. I've worked predominantly on mosquitoes and *Metarhizium anisopliae*, although I don't see this as a restriction to work in other fields of insect pathology. Preferably, the position should have a close link to applied research containing a clear tie between molecular work, laboratory bioassays and fieldwork.

From my Ph.D. thesis, 4 papers have been published in peer-reviewed journals. I have experience in molecular and laboratory work, but have also spent 2 years in the field and worked in 6 different institutes/universities in 5 different countries.

Position location: Europe, USA

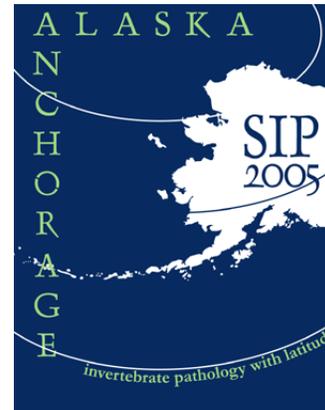
E-mail address: Ernstjan.scholte@wur.nl

FUTURE MEETINGS AND WORKSHOPS

Future SIP Meetings

SIP 2005!!

Anchorage, Alaska, USA
 August 7-11



SIP 2006

IX International Colloquium on Invertebrate Pathology and Microbial Control
 39th Annual Meeting of the Society for Invertebrate Pathology and
 VIII International Conference on *Bacillus thuringiensis*
 Wuhan, China

Contact: Sun Ming
 (sip2006@mail.hzau.edu.cn)
 Link: <http://sip2006.hzau.edu.cn>

Proposals for hosting future meetings are welcomed. Please contact Mark Goettel, Chair of the Meetings Committee.
 E-mail: Goettel@agr.gc.ca

May 10-13, 2005: Third International Symposium on Bio-control and Biotechnology
 Location: Wuhan, P. R. China
 Contact: Meng Ying (isbcb3@mail.hzau.edu.cn)
 Link: <http://isbcb3.hzau.edu.cn>

May 10, 2005. 57th International Symposium on Crop Protection, Ghent, Belgium

Contact: K. De Jonghe, Dept. of Crop Prot., Fac. of Biosci. Engrg., Univ. of Ghent
Coupure Links 653, B-9000 Ghent, BELGIUM.
Email: Kris.DeJonghe@ugent.be.
Fax: 32-9-264-6238
Phone: 32-9-264-6021.

August 29-31, 2005 International Conference n Biological and Pro-Ecological Methods for Control of Diseases, Pests, and Weeds in Orchards and Small Fruit Plantations, Warsaw, Poland.

Contact: P. Sobiczewski, Resch. Inst. of Pomo. and Flor., Pomologiczna 18, 96-100, Skierniewice, POLAND.
Email: Psobicz@insad.pl. Fax: 48-46-833-3228.
Phone: 48-46-833-2021.
Web: <http://www.pomocentre.insad.pl>

September 12-16, 2005. 2nd International Symposium on Biological Control of Arthropods, Davos, Switzerland. Contact: U. Kuhlmann, ISBCA Secretariat CABI Bioscience, Centre, CH-2800 Delemont, Switzerland.

Email: mailto:isbca@bluewin.ch.
<http://www.cabi-bioscience.ch/ISBCA-DAVOS-2005/>.

PUBLICATIONS

Harnessing Nature in Africa

By Peter Neuenschwander
Nature 432, 801 - 802 (16 December 2004)

Peter Neuenschwander's article on Green Muscle and the use of biological control agents is a very positive view of the advantages of biological control. Dr. Neuenschwander is at the International Institute of Tropical Agriculture, Biological Control Center for Africa, 08 B.P. 0932 Cotonou, Benin.

Nematode Behavior

R. Gaugler and A.L. Bilgrami, 2004
CABI Publishing, Wallingford, Oxon OX10 8DE, UK.
Email: mailto:cabi@cabi.org.
Fax: 44-0-1491-833508.
<http://www.cabipublishing.org/bookshop/index.asp>.
Phone: 44-0-1491-832111

Elevated interest in the realm of nematodes has triggered a series of texts focused on the biology and other aspects of these globally ubiquitous organisms. However, until

the arrival of NEMATODE BEHAVIOR in 2004, there had not been a single modern publication devoted to a comprehensive review of nematode locomotion and orientation, feeding, and reproductive conduct, as well as biotic and abiotic interactions. To redress this void editor/scientists R. Gaugler and A.L. Bilgrami have woven together 13 chapters by an international group of experts discussing a wide range of factors related to nematode behavior. The result is a 444 page, hardbound monograph that coalesces fragmented literature of nematology and significantly expands the broad topic compared to N.A. Croll's pioneering 1970 volume, *The Behavior Of Nematodes*.

Courtesy IBMNetNews #132, December 2004

3rd edition of The Manual Of Biocontrol Agents **L.G. Copping, Editor**

How does a well-regarded, valuable biocontrol reference become even better? Expand, revise, and update it, rename it to be more inclusive of its contents and, voila! The result is the recently published (late 2004) 3rd edition of *The Manual of Biocontrol Agents* (Formerly *The BioPesticide Manual*). Editor L.G. Copping has added over 100 entries, compared to the 3-year-old 2nd edition, while revamping the format to be more useful and reader friendly. The new hardbound, 752-page work contains 373 detailed descriptions of biocontrol agents used in producing over 1,400 commercial products. This world compendium offers four sections: microorganisms; macroorganisms; natural products; and semiochemicals. Entries for each agent list source, nomenclature, production, target pests, target crops, mode of action, application, biological activity, and toxicity, as well as other important information. Other sections cover common, trade, and superseded names, plus taxonomy, a glossary, and a directory of biocontrol agent producers. A separate section summarizes biocontrol requirements of the International Federation of Organic Agriculture Movements. Sample pages and specific information can be freely downloaded from the BCPC website <http://www.bcpc.org/bookshop/ref>.

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Eml: mailto:publications@bcpc.org.

Fax: 44-0-1420-593-209; Phone: 44-0-1420-593-200
Courtesy IPMNetNews #134, February 2005

EDITORS' NOTE

Viewed from the trailings of long winter months in Illinois, Vienna and Delaware, the coming summer's high season SIP meeting in Alaska is looking quite fine. Long days, good friends and colleagues, good science, beautiful scenery, and unbeatable pre- and post-meeting vacation possibilities...what more could we ask?! Please encourage SIP colleagues and other interested scientists to attend the meeting and don't forget - *members* are given a substantial registration discount.

See you up North!

Lee, Gernot and Vince

Don't Forget to Pay Your Dues for 2005

To ensure that your membership remains current and that you continue receiving the Newsletter, please return your dues notice with payment or access the web site for online dues payment. Please contact the SIP Executive Secretary if you have questions or need information about payment. (See Page 2 for addresses.)



Let the meeting begin! Plenary Session, SIP 2004, Helsinki, Finland



Appetites and passions run high at the meeting in Helsinki. A) Fuel is provided for some favorite SIP pastimes, such as B) brawling and C) discussing the finer points of rod-shaped viruses in shrimp.



SIP members at the traditional end-of-meeting banquet in the Hotel Grand Marina.



SIP members at the traditional end-of-meeting banquet in the Hotel Grand Marina.



A) Amazingly, Federici can still manage to say something that makes Wendy Gelerntner stare in disbelief. B) When worlds collide: Basil attempts to show David Theilmann the power of his martial arts techniques, and is, to all appearances, admonished in return.