



Society for Invertebrate Pathology Newsletter

Volume 45 Issue 3

November, 2012



**Looking forward from the
45th Annual Meeting of the Society for Invertebrate Pathology,
2012 International Congress on Invertebrate Pathology and Microbial Control
August 5-9, 2012 Buenos Aires, Argentina**

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Dear SIP Colleagues,

Another August has passed and for many SIP members, including myself, this means one important highlight of the year: The annual SIP meeting. My first such highlight occurred in 1982 when I attended the SIP meeting in Brighton, United Kingdom. I remember clearly my first impression when registering at the desk. One of the organizers



said 'Hello, I'm Chris Payne, welcome to you, let me know who you are'. Immediately I felt welcomed and enjoyed the meeting a lot. It was a meeting with much enthusiasm for fungus biocontrol people, since *Verticillium* had just been commercialized. I felt that SIP was 'my club'. I have remained a member since and have attended as many meetings as possible. Simply, SIP has been an integral element of my scientific career. After many years as a member, it was an honor for me to be nominated and elected as SIP president for August 2012 to August 2014. I will do my very best to serve the SIP, after being a 'trainee' for two years during Lee's term as a great SIP president.

SIP 2012: Unforgettable!

The meeting in Buenos Aires once again gave us an opportunity to experience the hospitality of local organizers, and we owe Alicia Sciocco-Cap, Victor Romanowski and all their colleagues our appreciation for organizing this wonderful meeting. SIP meetings depend on the efforts of many people, including Division Chairs and Council members, but, most of all, the local organizers. A great deal is planned well in advance, much needs to be modified during the pre-meeting time, and even during the meeting. Unexpected challenges appear throughout. The Catholic University in Buenos Aires, situated at the harbor site, was a fantastic place for our meeting, with auditoria, lobby and all other necessary facilities. The efforts within SIP to arrange cross divisional symposia were also successful this year. I was indeed also impressed by the young students who had done fine studies and at the meeting presented professionally.

Lunches at a nearby restaurant convinced us that food in Argentina is really spectacular. Tasty meat was accompanied with salads of all kinds, and then to follow desserts. The Tuesday excursion aimed for the Plata Delta, where we sailed around the

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channels between inhabited islands. Houses ranged in style from homemade 'klondyke type' to elegant and stylish bungalows. In between, we met the supermarket boat bringing supplies to inhabitants. The evening dinner once again provided an insight into the variation in Argentine cuisine, not the least the excellent grilled meats. The banquet Thursday in the elegant Palace Saint Miguel included a tango show, and of course also the usual award ceremonies.

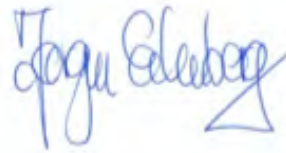
I was happy to learn earlier this year that the new SIP Council is very strong and the best a president could ask for: Lee Solter, Peter Krell, Kelli Hoover, Patricia Stock, Juan Luis Jurat-Fuentes, Surenda Dara, Regina Kleespies, and Ed Lewis. I am really dependent on council support. Lee Solter will as past president act as mentor for me. Of particular importance is that Kelli Hoover will remain as treasurer.

One of my first activities was to ask committee chairs if they would remain as chairs. All chairs did an excellent job during the past 2 years and continuity is needed. Each committee chair then was asked to update their list of committee

members. Division chairs: there are several new officers who are now responsible for Division affairs, in all cases experienced scientists with a strong dedication to SIP. Please find information about Division and committee officers in this issue of the newsletter as well as on the web page.

A challenge for the SIP over the coming period is to develop a strategy to maintain and hopefully increase our number of members. I will begin a discussion with SIP officers concerning how to do this; however, any member of the SIP is always welcome to approach me directly with suggestions how to address the membership issue or other SIP issues.

All the best,



SIP Council 2012. Left to right: (Front) Monique van Oers, Leellen Solter, Christina Nielsen-LeRoux, Patricia Stock; (Second) Grant Stentiford, Jørgen Eilenberg, Mark Goettel, Dörte Goertz; (Third) Kelli Hoover, Stefan Jaronski, Helen Hesketh; (Fourth) Juan Luis Jurat-Fuentes, Ed Lewis; (Behind the Lens) Peter Krell.

SIP 2012 Meeting Report – Buenos Aires, Argentina

The 2012 International Congress on Invertebrate Pathology and Microbial Control & 45th Annual Meeting of the Society for Invertebrate Pathology was held at the UCA Convention Center, Puerto Madero - Buenos Aires, Argentina from August 5 to 9, 2012.

A total of 311 delegates - including 73 students and 10 companions – from 29 countries attended the meeting.

It was the first time that this event took place in Argentina, and the second time in South America since the memorable SIP Meeting in Iguazu Falls (Brazil, 2002). There was an important participation of Latin-Americans, and so a great opportunity for us to join and interact with colleagues from other continents.

The Scientific Program was organized by Víctor Romanowski, Juan Ferré and the invaluable collaboration of the Chairs of the SIP Divisions. Assistance in planning and execution was provided by members of the local organizing committee: Graciela Quintana, Corina Berón, Marcelo Berretta, Fernanda Achinelly, Mariano Belaich, Joel Arneodo, Julio Edelstein, Diego Sauka, Claudia López Lastra, and the cooperation of Eleonora Koren and Eugenia Laguna (EK Eventos).

Scientific Program

The Congress was formally opened on Monday morning by Leellen Solter (President of the SIP) and Víctor Romanowski (Chair of the Scientific Program), followed by a presentation by Andreas Linde of the Mauro Martignoni and Chris Lomer Awards, and the announcing of the Division's Travel Award Winners.

The SIP Founders' Memorial Lecture was presented by Italo Delalibera on behalf of Dr. Flavio Moscardi, in honor of Dr. Sergio Batista Alves. It was a very emotive talk, about the contributions of these two distinguished scientists to the progress in Microbial Control in Brazil and neighboring countries. In this regard, we would like to recognize Dr. Flavio Moscardi for

all his encouragement and advice regarding the meeting organization, and for his valuable collaboration and friendship, and to Italo Delalibera, Daniel Sosa Gomez and Marlinda Lobo de Souza for their help and kindness in this terribly sad situation. Flavio passed away few days before the meeting, but he was present in all of us.

A total of 169 oral presentations (1 plenary session, 10 symposia, 3 workshops, and 18 contributed papers sessions) and 170 posters were presented during the meeting. Additionally, a special talk was presented by Dr. Karl Maramorosch during the SIP Business Meeting held on Thursday morning. Thereafter, the students participated in a panel session on "Job opportunities for the 21st Century Scientists".

Social Program

Lunches were served at the *Gourmet Porteño*, a pleasant and elegant establishment in Puerto Madero with a great variety of international meals, Argentinean beef, desserts and other delicatessen. On Tuesday afternoon, 139 delegates participated in an excursion to Tigre-Delta and others enjoyed the city attractions on their own. After that, all delegates and companions joined the BBQ at *Rodizio*



Three Cheers to the Meeting Organizers. From left to right: Eugenia Laguna, Víctor Romanowski, Joel Arneodo, Eleonora Koren, Claudia López Lastra, Graciela Quintana, Fernanda Achinelly, Alicia Sciocco-Cap, Mariano Belaich, Marcelo Berretta, and Corina Berón.

Costanera Norte. The weather in Buenos Aires was hard to predict for early August but, fortunately, rain did not fall during the excursion... and the BBQ was held indoors!!!

On Wednesday at noon, 27 delegates participated in the 5K run at *Costanera Sur Ecological Park*, a beautiful natural landscape between Puerto Madero and the Río de la Plata. The meeting closed on Thursday night with a banquet at *Palacio San Miguel*, a former department store built in 1885 and recently restored. Delegates were welcomed with “islands” of international food and a cup of wine in the upper floor, and then (to the surprise of many!) dinner continued at the “comedor” in the lower floor with an entrée, main courses, free wine and beverages, and dessert. After brief speeches by members of the local organizing committee, the incoming President of SIP Jørgen Eilenberg, conducted the awards ceremony. Following, a tango show was performed, and finally music and dance continued into the early morning.

All these activities were greatly facilitated by the financial support of Argentinean governmental institutions INTA, CONICET, and ANPCyT-MINCYT,

and the contributions of the following private companies: AgraQuest, AgroRoca SA, Andermatt Biocontrol, Arysta Life Science, Bayer BioScienceBayer CropScience, Becker Microbial Products, Becker Underwood, Brandt Consolidated , Certis USA, Dow AgroSciences, E-Nema GmbH, Elsevier, GAB Consulting GmbH, INTeA, Marrone Bio Innovations, Monsanto, Novozymes, ProPhyta, Sylvar Technologies, Syngenta, Taylor & Francis Group, Valent BioSciences.

We acknowledge the contribution of all SIP Officers, especially Lee Solter, Jørgen Eilenberg, Mark Goettel, Kelly Hoover, Jim Becnel, Lerry Lacey, Brian Federici, Roma Gwynn, Susan Bjørnson, Patricia Stock and Cecilia Schmitt.

Finally, we would like to thank all those who attended and made this SIP meeting a great success!

Alicia Sciocco-Cap
Chair SIP 2012 Organizing Committee



The Presidents: Past, Current, and Soon-to-be. From left to right: James Harper (2000-02), Elizabeth Davidson (1990-1992), Brian Federici (1996-1998), Karl Maramorosch, Jørgen Eilenberg (2012-14), Mark Goettel (2008-10), Leellen Solter (2010-12), Just Vlak (2004-06), Donald Roberts (1988-90), Peter Krell (2014-16).

Winners of the 5K Race at the 2012 Buenos Aires Meeting

Women: Tarryn Goble (1st), Helen Hesketh (2nd), and Annette Jensen (3rd).

Men: Neil Crickmore (1st), Arne Peters (2nd), and Shunichiro Ishigaki (3rd).



Ready.....



Set.....



GO! With Peter Krell on the straightaway in the leeeeeead and Madoka Nakai in close pursuit!

2012 Award Winners

Mauro Martignoni Award and 3rd place Oral Presentation Award: Stineke van Houte

Stineke van Houte is pursuing her doctoral studies at the Laboratory of Virology of Wageningen University, in which she is working to unravel the genetic basis of baculovirus-induced behavior in insects. In this project behavioral research is combined with molecular techniques and phylogenetic analyses. Stineke is primarily interested in the biology of symbiotic relationships at an organismal level, mainly between insect hosts and their microbes. This includes behavioral manipulation by symbionts, but also more generally how symbionts influence their hosts, and how that shapes evolution. After earning her PhD degree, which is anticipated to be in 2013, she aims to continue research in the field of symbiotic biology.



Chris J. Lomer Award: Dr. Kadarkarai Murugan

Dr. Murugan is a Professor of Entomology at Bharathiar University, India. His research is focused on the effects of climate change on mosquito prevalence and the efficacy of biopesticides on mosquito breeding in a variety of ecosystems (drinking water, stored water and sewage water). Global Information Systems are employed to predict mosquito breeding sites. Ongoing studies include research on the effects of elevated anthropogenic CO₂ on insect pests and insect enemy complexes in a range of agricultural ecosystems.

2012 Student Award Winners

1st: Oral Presentation Award.

Eva Garcia-Gonzalez is a last-stage PhD student working in the Institute for Bee Research in the Molecular Biology and Bee Pathology department (Hohen Neuendorf) in association with the Humboldt University of Berlin. She obtained a Biology degree from the University of Valencia in Spain. She then wrote her degree thesis in Sartorius-Stedim Biotech in collaboration with the University of Göttingen in Germany. Afterwards, she joined the ZIBI (Zentrum für Infektionsbiologie und Immunität) Graduate School and started her PhD studies in Berlin. Eva has a strong interest in host-pathogen interactions and focused her investigations on unraveling pathogenic molecular mechanisms of *Paenibacillus larvae*, the causative agent of American Foulbrood in honeybees.



1st: Poster Presentation Award.

Julien Thézé is a PhD student focusing on computational evolutionary biology at the University of Tours in the lab of Dr. Elisabeth Herniou. Julien's research interests are in using computational approaches to estimate genome diversification and adaptation of insect DNA viruses.

2nd: Oral Presentation Award.

Henry Kariithi was awarded a WUR Scholarship for MSc study in Cellular/Molecular Biotechnology from Wageningen University, The Netherlands. He is currently undertaking a PhD Program at the Laboratory of Virology, Wageningen University, The Netherlands, on a Netherlands Fellowship Program Grant. The PhD Research is on functional genomics of *Glossina* virus, a member of the newly established family of insect viruses, the *Hytrosaviridae*. As part of the Ph.D program, Henry spends approximately 65% of his time as a consultant at the Joint FAO/IAEA Insect Pest Control Laboratory, Seibersdorf, Austria to develop molecular-based antiviral strategies for controlling the virus infection of tsetse fly colonies that are used in tsetse and trpanosomiasis control in Africa.



2012 Student Award Winners

2nd: Poster Presentation Award.

Amaya Serrano earned an MSc in Biotechnology at the Public University of Navarra with a thesis in the *Agricultural Entomology and Insect Pathology* research team from the Agricultural Production Department of the Public University of Navarra under the supervision of Professor P. Caballero and Dr. D. Muñoz. The Ministry of Education and Science (MEC) awarded her a Training of Research Personnel (FPI) grant to conduct her doctoral thesis with the same research team. Her doctoral thesis is entitled “Molecular Ecology of the *Spodoptera exigua* Nucleopolyhedrovirus: Applications in Pest Control”. The FPI grant covered two training periods, which she spent at the Department of Virology of the Wageningen University.



3rd: Poster Presentation Award.

Hiroto Shinomiya is a master course student at Tokyo University of Agriculture and Technology, Japan, studying under Dr. Madoka Nakai and Dr. Yasuhisa Kunimi. His research is on a resistant strain of smaller tea tortrix, *Adoxophyes honmai* against *Adoxophyes honmai* nucleopolyhedrovirus (*AdhoNPV*). Next year he will begin working for the pesticide department of SUMITOMO CHEMICAL, a Japanese diversified chemicals company. His dream is “creating the most-used biological control agent and ending hunger worldwide”.

Honorable mention: Oral Presentation Award.

Diana Schneider received her Bachelor's degree in global horticulture and her Masters degree in horticultural sciences. She is pursuing her PhD in insect virology at the Julius Kühn-Institut, Darmstadt, Germany, where she works on microarray based transcriptome analysis of the *Cydia pomonella* granulovirus (CpGV) in infected codling moth larvae. The aim of her work is to provide a comprehensive insight into the resistance mechanism of codling moth larvae to baculoviruses and how some virus isolates are able to overcome the resistance on the molecular level.



2012 Student Award Winners

Honorable mention: Poster Presentation Award.

Gillian Hertlein obtained her BSc in Biology from the Rupprechts-Karls University Heidelberg in 2008. After finishing, she completed her M.Sc. in Biomolecular Sciences at the Free University Amsterdam and graduated with distinction. Subsequently, Gillian began Ph.D. studies at the Institute for Bee Research, Hohen Neuendorf, Germany. Her current project focuses on host-pathogen interactions between the honey bee *Apis mellifera* and the bacterial pathogen *Paenibacillus larvae*, the causative agent of American Foulbrood.



Honorable mention: Poster Presentation Award and Bacteria Division Travel Award.

Laila Gasmi studied biological properties of green algae extracts to earn her Master's degree in the laboratory of biopesticides at the Centre of Biotechnology of Sfax, Tunisia. She is currently conducting her doctorate research in biotechnology at the University of Valencia, Spain.

Fungi Division Student Travel Award.

Alexis M. Barbarin received her bachelor's degree in Biology from Xavier University of Louisiana in her native city New Orleans following Hurricane Katrina. Alexis enrolled in the Entomology doctoral program at The Pennsylvania State University where she earned a master's degree in Agricultural & Extension Education and a doctorate in Entomology under the guidance of Dr. Edwin Rajotte, focusing on the biology of the common bed bug, *Cimex lectularius*. Alexis will begin a postdoctoral position at the University of Pennsylvania in the laboratory of Dr. Michael Levy, investigating spatial dynamics and fungal susceptibility of bed bugs and the kissing bug, *Rhodnius prolixus*.



2012 Student Award Winners

Fungi Division Student Travel Award.

Congratulations to Ms. Tarryn Goble, winner of the 2012 Division of Fungi Student Travel Award. Tarryn received her BSc undergraduate degree and honours in Entomology and Microbiology from Rhodes University in the Eastern Cape, South Africa. She also received her MSc in Entomology from Rhodes University with distinction. Tarryn is currently a PhD student registered with Rhodes University but working under the supervision of Professor Des Conlong of the South African Sugarcane Research Institute in Durban, South Africa. Her supervisor at Rhodes University is Professor Martin Hill. Tarryn has a passion for entomopathogenic fungi and in particular their use as bio-insecticides for the control of insect pests in agriculture.



Virus Division Travel Awardees. From left to right: Julien Thézé, Aurélien Chateigner and Jörg Thomas Wenneman, presented by Monique van Oers.



Nematode Division Travel Award Winner: Tiarin Ferreira from South Africa

2012 Student Award Winners

Bacteria Division Travel Awardees



Maria Cristina Crava and Laila Gasmi with Juan Luis Jurat-Fuentes



Congratulations to all of the Student Award Winners!

Diseases of Beneficial Invertebrates Division Student Travel Award.

Eva Garcia-Gonzalez (photo stolen by presentation winner on page 9!)

Thank you to each of the Awards and Student Contest Committee Members!

Chair: Andreas Linde (Microsporidia)
Europe / Germany
Members: Monique Van Oers (Virus)
Europe / The Netherlands
Hyun-Woo Park (Bacteria)
USA / Asia
Surendra Dara (Microbial Control)
USA
Patricia Stock (Nematode)
USA

Division Photos



**Nematode Division 2012
(Top)**



**Bacteria Division 2012
(Left)**



VIRUS DIVISION 2012. Left to right: (Front) Yang Lin, Meijin Yuan, Fei Deng, Peter Krell, Lorena Passarelli, Just Vlak, Zhihong Hu (Rose); (Row 2) Gabriel Visnovsky, Karl Maramorossh, Srini Perera, Qiushi Wang, Leticia Ferrelli, Diana Schneider, Bergmann Ribeiro; (Row 3) Elisabeth Herniou, Basil Arif, Holly Popham, Bob Harrison, Xinwen Chen, Xiulian Sun; (Row 4) ?, Monique van Oers, Litlion Pavlik, Adly Abd-Alla, Nor Chejanovsky, Madoka Nakai, Martin Erlandson; (Row 5) Adam Chambers, Johannes Jehle, Aurélien Chateigner, Jörg Wenneman, Zhini Dermitag, Hiroto Shinomiya, Yasumasa Saito, Martin Andermatt, Mariano Belaich, Rosemarie Dorrington, Yang Kai, Matias Javier Garavaglia; (Row 6) Julien Thézé, Rollic Clem, Lionel Galibert, David Theilmann, Daniel Ardisson-Araújo, Fabricio da Silva Morgado, Fernando Melo.

SIP 2013 in Pittsburgh, Pennsylvania USA

It is our pleasure to invite you to attend 'Pittsburgh 2013' – the 46th Annual Meeting of the Society for Invertebrate Pathology. The meeting will be held from August 11-15th, 2013 at the Sheraton, Station Square, Pittsburgh, USA (<http://www.sheratonstationsquare.com>).

Station Square, is Pittsburgh's most popular district, described as the hippest place for dining, nightlife and entertainment. Station Square's centerpiece is a state-of-the-art fountain, which features hundreds of multi-colored water jets soaring in the air as they dance to music. The Sheraton is also situated at the foot of Mt. Washington and within walking distance of either the Duquesne or Monongahela Inclines (cable cars built in the 1870's) to take in the breathtaking views of city's skyline (<http://www.stationsquare.com/info/attractions>).

Our Tuesday afternoon excursion will include visits to the Carnegie Museum of Natural History and Art and/or the Andy Warhol Museum, the 5 K run along the river path to Station Square and the evening barbeque on the Gateway Majestic as we cruise along the three rivers.

We are planning an exciting scientific program to explore the latest findings in invertebrate pathology, including microbial control, diseases of beneficial invertebrates, and advances in fundamental research on host-pathogen interactions.

Pittsburgh is ideally located for exploring the Laurel Highlands with it's 8 'Wild and Wonderful' State Parks, whitewater rafting, hiking and biking trails and waterfalls (<http://www.laurelhighlands.org/index.asp>). Plan to stay a few extra days to explore and enjoy these beautiful places.

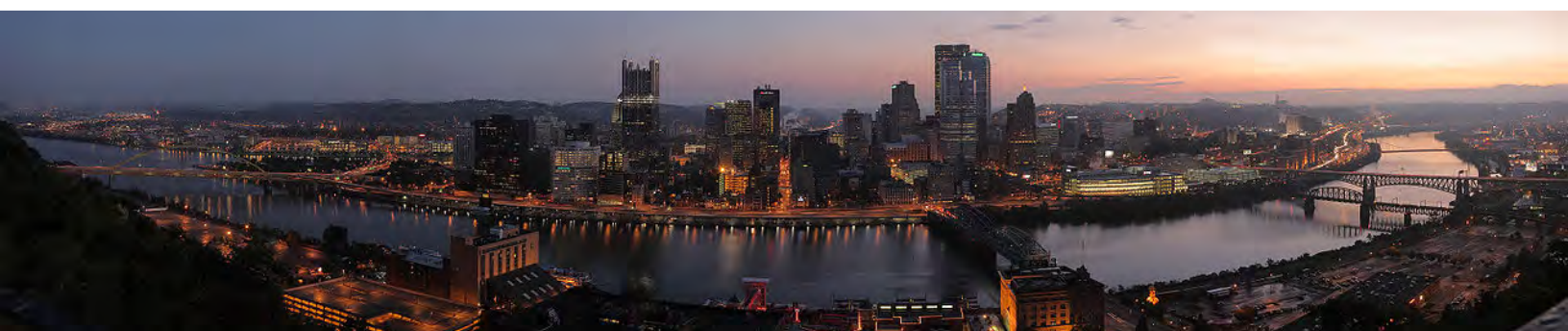
We look forward to seeing you in Pittsburgh!



River cruise on a paddle boat for the BBQ!



Some room options at the Sheraton



Dawn skyline of Pittsburgh

Remembrances

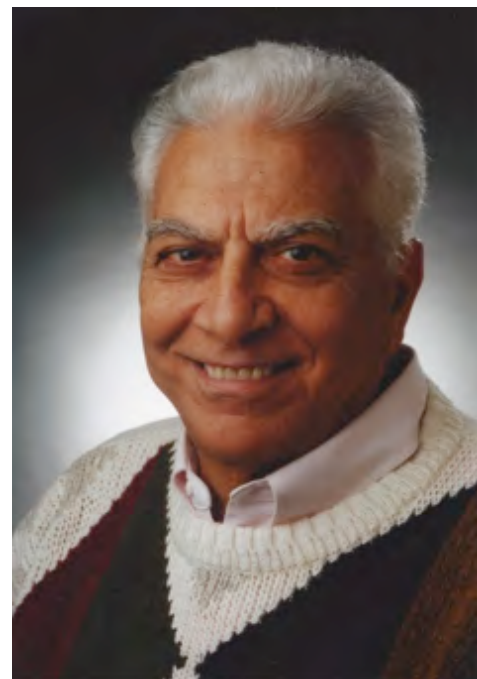
IN MEMORIAM: Carlo M. Ignoffo (1928-2012)

Dr. Carlo M. Ignoffo, 83, of Columbia, Missouri died Monday, May 14, 2012, at his home. Carlo was born Aug. 24, 1928, in Chicago Heights, Ill., to Joseph and Lucy Sardo Ignoffo. He was united in marriage to Flori Mielcarek on Sept. 3, 1949. He is survived by his wife and a brother and sister.

Carlo earned a BS in Zoology from Northern Illinois University and a MS in Entomology and a PhD in Plant Pathology from the University of Minnesota. He worked with U.S. Army Chemical Corps, Iowa Wesleyan College, International Minerals and Chemical Corporation and for the USDA, Agricultural Research Service. He served as the Research Leader/Director of the USDA, ARS, Biological Control of Insects Research Laboratory (BCIRL) in Columbia, MO from 1971-1989. Carlo retired from BCIRL in 2000 with 285 publications.

Carlo was well-known for his work on viruses. Carlo developed the first successful procedure and accompanying diets for the continuous mass-rearing of disease-free cabbage loopers and later bollworms on diets that did not require the use of living plants. He clarified the complex physical, biochemical, and physiological factors that exist between an insect host, an entomopathogenic disease, and the environment. He implemented research and development programs, within both USDA and industry, that resulted in the registration of the first Viral Biological for plants, which is still used in many countries. He led *in vitro* research programs that developed media and procedures for insect cell lines, established new cell lines, for growing insect viruses. He conducted all the basic studies and guided research efforts that resulted in the first Experimental Use Permit for the use of a mycoinsecticide against destructive field-crop insects. Carlo conceived the program and led team researchers to study the role of enzymes of entomopathogenic fungi in penetration of the insect's cuticular integument. He was the first to provide a genetic model to study the potential for developing resistance of an insect pest (*Heliothis virescens*) to a virus. He was one of a few early investigators who stressed the importance of sunlight-UV in the inactivation of all types of field-applied microbial insecticides. Carlo made over 100 presentations, by special invitation, to groups both national and international and served as technical and research consultant to groups including National Science Foundation, World Health Organization and National Academy of Science. He was very insightful in knowing which areas in the biocontrol field were important and needed to be researched. In this regard he was successful in acquiring outside funding to supplement his research. In his career Carlo was very unselfish and always willing to share scientific information with his colleagues as well as to advise and encourage them in their endeavors. He hired many scientists that went on to make worthwhile contributions to the field. He impacted many areas of biocontrol and will be sorely missed. Carlo received numerous awards and honors including a promotion to Supergrade in 1986.

In his personal life Carlo loved creating fine art with his beloved Flori. He often spoke in glowing praise of Flori's wonderful poetry and paintings but never mentioned his own talent. So it was a surprise to visit his home and see the walls beautifully decorated with his artwork as well as hers. He also enjoyed playing tennis, watching musicals (especially Andrew Lloyd Webber) and singing songs from those musicals. Carlo was deeply religious, deeply Italian and also deeply devoted to Flori.

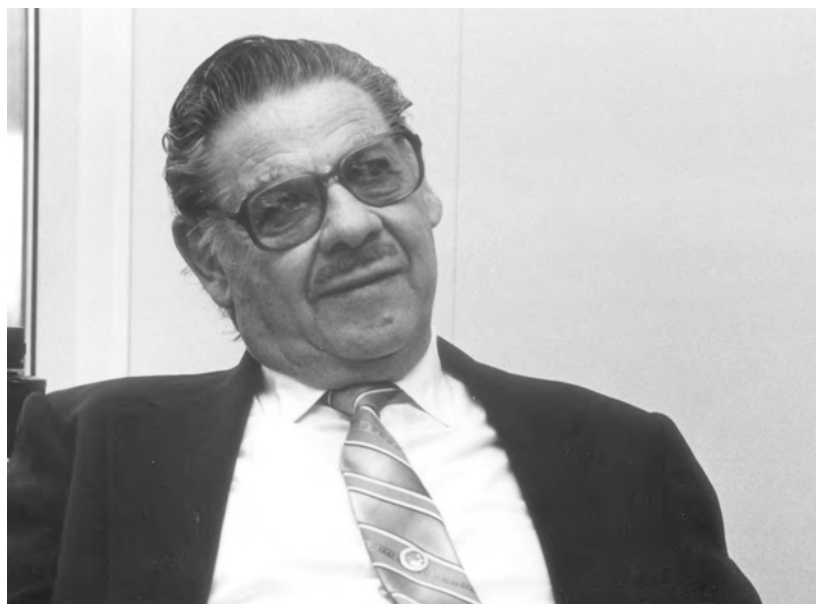


Remembrances

IN MEMORIAM: Albert K. Sparks (1923 - 2012)

Dr. Albert Kirk Sparks 88, died March 28, 2012 of a heart attack in his apartment at the Harbour Pointe Retirement Center in Mukilteo, WA.

Born July 31, 1923 in Wichita Falls, Texas, the son of Susie Francile Bishop and William Kirk Sparks, Al grew up in Wichita Falls where he established early habits of hard work, taking on all kinds of odd jobs, including delivering Western Union telegrams. He graduated from Wichita Falls Senior High School in May, 1941 and entered Texas A&M University majoring in wildlife management. A member of the infantry company of the Cadet Corps, he was called to active duty in May 1943, and married Dorothy Patricia George before being shipped to basic training.



He served in the Pacific Theater in New Caledonia and on Okinawa until February 1946, where he wrangled his way into working in the hospital laboratory and discovered what was to become a life-long interest in parasitology. Returning to Texas A&M, he completed his B.S. in Wildlife Management, followed by an M.S. in Biology, and a PhD. in Biological Oceanography, specializing in the parasites of large-mouth bass. He also began what was to be a life-time of work in invertebrate pathology with an initial specialization on oyster diseases caused by oil pollution in Louisiana.

In September 1958 Dr. Sparks joined the faculty at the University of Washington, College of Fisheries, where for twelve years he built a program in Invertebrate Pathology which graduated a cohort of graduate experts in the field. During this time he affiliated with prominent insect pathologists to co- found, in 1967, the Society for Invertebrate Pathology. In 1970, he served as Laboratory Director of the Bureau of Commercial Fisheries Biological Laboratory in Galveston, Texas, which later evolved into the Gulf Coast Fisheries Center, for NOAA/ NMFS. During the move down to Galveston, the van containing all of the family's possessions was wrecked and burned. In 1973 he was offered a position in Washington D.C. eventually becoming acting Director for Resource Research from April 1975 until September 1976.

Returning to Seattle in 1976, Albert took up a post as the Invertebrate Pathologist with the Northwest & Alaska Fisheries Science Center. Soon after, Dr. Sparks resumed his academic work as affiliate faculty chairs at both the University of Washington and University of Alaska – Juneau. Moving his major research interests from oysters to crab, he continued full-time work in his laboratory until 1990, when he retired to support his wife's declining health, to which task he remained dedicated for the next twenty years.

During his lifetime, Dr. Sparks authored or co-authored over 80 peer-reviewed scientific papers, and wrote two books that served as definitive introductions to the field of Invertebrate Pathology, *Invertebrate Pathology: Non-communicable Diseases* (1973) and *Synopsis of invertebrate pathology: exclusive of insects* (1985), and continued his tenure as an editor of the scientific journal *Diseases of Aquatic Organisms*, until 2005.

He leaves behind a legacy of knowledge, collegiality, mentorship, and fond memories of literally hundreds of great jokes. A celebratory wake was held on June 28th at the Space Needle.

Remembrances

IN MEMORIAM: John Paul Kramer (1928 - 2012)

John Paul Kramer, age 84, died of pulmonary fibrosis at Oak Hill Manor on July 26, 2012. He, and his identical twin brother James, were born in Elgin, Illinois on March 13, 1928, the sons of R. H. and Anna B. Kramer. He and James went from cradle to Ph.D together and pursued similar careers following identical courses of study from kindergarten through the doctorate. John earned a B.S. degree in biology from Beloit College (1950). He earned a M.S. degree in entomology from the University of Missouri (1952) and Ph.D. in entomology from the University of Illinois (1958). He was a U.S. Army Medical Entomologist from 1952-1954, attained the rank of first lieutenant, and won the Bronze Star medal and the Korean Service medal with two battle stars.

John was an Assistant Professor of Entomology at N.C. State (1958-59) and an Associate Entomologist at the Illinois Natural History Survey (1959-1965). He joined the Entomology faculty at Cornell in 1965 and was advanced to Professor in 1970. His research centered on microbial diseases of insects with emphasis on protozoal and fungal pathogens. He served as major advisor for 14 doctoral students and authored about 100 articles based on his research. He elucidated the series of events that led to fatal microsporidial infections in the insect. He also characterized fungi that cause fatal infections in pestiferous flies and mosquitoes and demonstrated their potential usefulness in control practices. In collaboration with colleagues in Brazil he characterized a protozoan new to science associated with the causative agent of Chagas' disease. His research was funded in part by NIH, ONR, WHO, NSF, and USDA. He served on the Study Section for Tropical Medicine and Parasitology at NIH and as a traveling consultant for WHO.

John was a long-time fancier and breeder of Abyssinian cavies, English spot and Netherland dwarf rabbits. He developed the very colorful rainbow Abyssinian that has found its way to England where the fancy flourishes. He authored several articles on the coat color markings found in rabbits. He achieved charter breeder status in the American Netherland Dwarf Rabbit Club. Kramer is survived by a daughter and extended family members.



XXV International Congress of Entomology



May 18-21, 2014, in San Antonio, Texas



Keep an eye out for meetings and send information you'd like published in the Newsletter to the Editor (Eric.Haas-Stapleton@csulb.edu)

Microbial Control News

You can't tell the actors without a program.

Are you getting confused by all the Bt-maize traits being sold in the U.S.? The University of Wisconsin has compiled information about the commercial Bt-maize products into one table. Not only are the expressed Bt genes listed for each maize product, but also the target insects, herbicide resistance, and refuge size and type are included. The table can be found at http://labs.russell.wisc.edu/cullenlab/files/2012/04/Handy_Bt_Trait_Table.pdf

EU approves Andermatt viral insecticide.

The European Union has granted full approval to Andermatt Biocontrol for granulosis virus *Adoxophyes orana* BV-0001, adding it to the approved list, which will come into effect on February 1, 2013.

Arysta LifeScience France Announces the Registration of Carpovirusine.

Arysta LifeScience on 13 July, 2012, announced the complete registration of Carpovirusine evo2 and new uses extension for its product, Carpovirusine 2000 on *Cydia molesta* (oriental fruit moth) on apple and peach.

Recent U.S. EPA Registration Actions.

Summit Chemical Company, Baltimore, MD has submitted registration application for *Bacillus thuringiensis* subsp. israelensis, Strain SUM-6218 at 100.0% a.i. (for "Manufacturing use"). Pasteuria Bioscience, Inc., Alachua, FL. has submitted registration application for *Pasteuria* spp. Ph3 and (*Candidatus*) *Pasteuria usgae* BL1 for control of lance nematode (*Hoplolaimus galeatus*) and sting nematode (*Belonolaimus longicaudatus*) on turf.

Canada Pest Management Centre Announces Priority Projects.

Agriculture AgriFood Canada's Pest Management Centre has announced several pesticide risk reduction projects for 2012 that involve bioinsecticides. These include evaluation of XenTari™ *Bacillus thuringiensis* (Valent Biosciences) for the management of diamondback moth in canola, Naturalis-L *Beauveria bassiana* (Troy Biosciences) for the management of tarnished plant bug in strawberries; and *Chromobacterium subtsugae* (Grandevo MBI-203, Marrone BioInnovations) for the control of hairy chinch bug in turf grass. For more information go to <http://www4.agr.gc.ca/AAFC-AAC/display-afficher.do?id=1288896397295&lang=eng> .

American Biopesticide Industry Alliance Releases Biopesticide Educational Materials.

The Biopesticide Industry Alliance is an industry trade group of North American biopesticide manufacturers, regulatory consultants, and interested individuals. Founded as a non profit organization in 2000, its purpose is to promote industry standards for biopesticides; communicate the value of biopesticides in agriculture, forestry, turf and ornamental, public health, consumer, and other target markets; develop collaborative working relationships with the authorities that regulate biopesticides and become a resource to these authorities in order to ensure timely, predictable, transparent, and appropriate registration and regulatory requirements; and become a leading source of information to key influencers who impact acceptance, commercialization, and adoption of biopesticides. Toward that end the BPIA has released "The Rise of Biopesticides," a pamphlet targeting farmers, agricultural consultants, food retailers, and consumers. Downloadable copies are available at www.riseofbiopesticides.com. This website also has a database of biopesticide efficacy data that are being regularly updated. More information about BPIA can be found at www.biopesticideindustryalliance.org. BPIA has also conducted several webinars in the past year promoting the value of biopesticides and involving regulators consultants and industry representatives. In addition they have sponsored the creation of a number of educational, Internet videos. Touching on a number of issues regarding biopesticides. Some of these are to be found at:

<http://www.growingproduce.com/video/c:0/1174/>
<http://www.growingproduce.com/video/c:0/867/>
<http://www.greenhousegrower.com/article/24700/biopesticides-are-they-immune-to-resistance>
<http://www.greenhousegrower.com/article/24921/how-to-begin-beneficial-nematode-applications>

*Dr. Stefan Jaronski, Research Entomologist
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stefan.jaronski@ars.usda.gov*

This column attempts to regularly announce the registration of microbial insect control agents in various countries and regulatory activities relating to insect pathogens. SIP members outside the U.S. and Canada are earnestly requested to send news of new registrations of insect pathogens in their countries to stefan.jaronski@ars.usda.gov

Announcements

Ecology of Infectious Diseases – Oysters and Estuaries

This just published special issue of the Journal of Marine Research contains one overview and 11 research articles that describe results from a NSF-funded Ecology of Infectious Program in Delaware Bay that focused on host-parasite relationships in eastern oyster populations that are affected by MSX and dermo diseases and how these might be altered by climate change.

The papers in the issue provide historical perspectives of MSX and dermo diseases in oysters, the role of local water properties and circulation patterns in establishing and maintaining zones of refuge from disease in an estuary, mechanisms that may influence the rate at which disease resistance develops, the movement of oyster genotypes conferring disease resistance or susceptibility in the estuary, the role of oyster food supply in regulating disease, and the impact of disease on sustainability of oyster reefs and the implications of this for restoration and management.

Articles are available at:

<http://hsrl.rutgers.edu/research/EID%20paper%20list.htm>

<http://hsrl.rutgers.edu>



Biological control – its unique role in organic and integrated production



16–20 June 2013 Zagreb, CROATIA



Dear colleagues and friends,

We cordially invite you to attend the 14th meeting of the WG „Insect Pathogens and Insect Parasitic Nematodes”, **“Biological control – its unique role in organic and integrated production”** which will be held in the Four Points by Sheraton Panorama Hotel, Zagreb, Croatia from June 16-20, 2013.

The general topics of this meeting will cover all aspects of biological control of invertebrates, including insects, arachnids, and nematodes, by using biological control agents (BCAs) such as viruses, bacteria, fungi, nematodes and other pathogens. A special focus will be given to the eminent role of biological control in the new EU legislation. For further information please refer to the web site <http://iobc-ipen.agr.hr>, which will be set up soon.

We are looking forward seeing you in Zagreb 2013.

Renata Bazok
Local organizer
rbazok@agr.hr

Johannes Jehle
WG Convenor
johannes.jehle@jki.bund.de

International Organisation for Biological and Integrated Control of Noxious Animals and Plants (IOBC)

West Palearctic Regional Section (WPRS)

Organisation Internationale de Lutte Biologique et Intégrée contre les Animaux et les Plantes Nuisibles (OILB)

Section Régionale Ouest-Paléarctique (SROP)

www.iobc-wprs.org

Journal of
**MARINE
RESEARCH**



Volume 78, Numbers 2-3 March–May 2012
Ecology of Infectious Diseases – Oysters and Estuaries
Special Foundation for Marine Research – Yale University

Postdoc position available in The Thomas Lab (<http://www.thethomaslab.net/>) Penn State University under the supervision of Nina Jenkins, to work on development and evaluation of biopesticides against a range of insect pests including bed bugs, sciarids, phorids and house flies. Please contact Nina Jenkins directly for details nej2@psu.edu Start date - asap.

SIP in Buenos Aires, 2012



The Founders' Lecturer Italo Delalibera with James Becnel



Karl Maramorosch addresses the Society



Rapt attention during the Founder's Lecture



Julien Thézé and Zhihong (Rose) Hu disco at the poster session



New discoveries during the poster session

SIP in Buenos Aires, 2012



Leellen Solter passes the gavel to our incoming President Jørgen Eilenberg



Ravi Durvasula, Carlos Araújo-Coutinho, Luciano Moreira, Nicolás Pedrini and Victor Romanowski



Future SIP leaders and enjoying it!



Hiroto Shinomiya, Yasumasa Saito, Johanes Jehle and Madoka Nakai



Bob Harrison and Holly Popham break from the posters for a smile

SIP in Buenos Aires, 2012



Dressed for a chilly day in Buenos Aires



That's what you need for a good MEATing!



Everyone jump in!



Peace to all-ya-all



An insidious lens parasite strikes down Johannes Jehle's best efforts

SIP in Buenos Aires, 2012



Venansio Tumuhaise, Surendra Dara, Sunday Ekesi and Jean Maniania



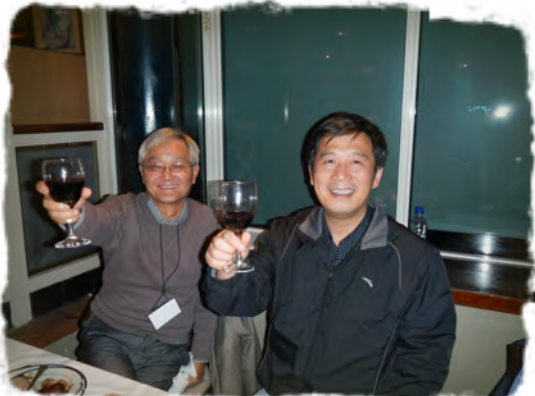
Stefan Jaronski, Rosalind James and Jim Harper celebrate clean plates



Qiushi Wang and Basil Arif looking forward to the night



Leellen, Betty and Rosalind are full of smiles for the excellent conference



Li & Yang send a toast to the organizers



No more Argentinian meat.. you're cut off

The STPers bid you bueno bye hasta la próxima

