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Newsletter of the American Society of  
Parasitologists

Parasitology, Harold W. Manter Laboratory of

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Winter 2012

## American Society of Parasitologists Newsletter, v. 34, no. 2, Winter 2012

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ASP Newsletter

Vol 34. No. 2.

Winter, 2012

# The American Society of Parasitologists



## Newsletter

*Usually Published Quarterly by the American Society of Parasitologists*

**ASP Newsletter:** Released to the UNL  
Digital Commons, December 30, 2012

### From the Editor

Consider publishing your parasite poems, posting a link to your favorite "parasite lecture," providing an actual parasite lecture, or otherwise send "something" in to the editor. Your contribution is valuable and anything sent in to me will be considered for publication. For example, on page

Sincerely,

Scott Lyell Gardner, Ph.D.

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## MEETING DATA

Gear up for the exciting **Annual Meeting of the ASP in Quebec City, Canada.**

The following is from the ASP web site:

(<http://amsocparasit.org>).

The 88th annual meeting of the **American Society of Parasitologists (ASP)** and the 13th annual meeting of the **Québec Molecular Parasitologists (QMP)**, members of the CHPI (Centre for Host Parasite Interactions), are to be held jointly at the Loews Le Concorde Hôtel, June 26–29, 2013. Members and non-members are invited to submit abstracts for papers they intend to present as an oral presentation, poster, or if you are an invited speaker, as a contribution to one of our symposia or workshops. Individuals organizing symposia and special sessions are reminded that they need to send the names of their speakers to our Scientific Program Officers and that **all speakers are required to submit an abstract. For all types of**

**presentations, abstracts must be received on or before the deadline: Friday, February 22, 2013.** The scientific *Program & Abstracts* booklet will be prepared



Figure 1. View of part of old Quebec City. In the background can be seen the Fairmont le Château Frontenac.



Figure 2. Canons ready to defend the walls against oncoming invaders.

from the abstracts received and will be available both on the ASP web site (<http://amsocparasit.org>) and the Allen Press web site (TBA) prior to the meeting. Everyone registered for the meeting (either in advance or on site) will receive a copy of the *Program & Abstracts* booklet in their registration packet **on site**. Additional copies of the *Program* may be purchased (\$10.00 USD per copy) at the registration desk at the meeting or from Allen Press™ after the meeting. ***Please read and follow all instructions carefully when submitting abstracts and when registering on-line for the meeting and the hotel. Thank you!***

Here is the call for papers: [PDF -CALL FOR PAPERS-](#)!



**From the web site "seven wonders of Canada":** Quebec City is the capital of Quebec and, after Montreal, the second largest city in the province. Quebec's Old Town (Vieux-Québec) is the only North American fortified city north of Mexico whose walls still exist. It was declared a UNESCO World Heritage Site in 1985, as the "Historic District of Old Quebec". Founded in the early 17th century by French explorer Samuel de Champlain, la vieille capitale celebrated its 400th anniversary in 2008, and its history shows. In Quebec's Upper and Lower Towns, above and below the cliff, you can find at least 11 architectural styles, ranging from Classical Revival (1790-1820) to International Style (1930-1965). The area is also home to the Plains of Abraham, where a pivotal battle between the French and English in 1759 shaped the future of North America.

Save the dates for the next 3 summers for extra interesting meetings of the ASP.



**88th Annual Meeting of the American Society of Parasitologists**

June 27-30, 2013

Loews Hotel Le Concorde

Quebec City, Quebec



**89th Annual Meeting of the American Society of Parasitologists**

July 24-27, 2014

JW Marriott New Orleans

New Orleans, Louisiana



**90th Annual Meeting of the American Society of Parasitologists** June 25-28, 2015

Hilton Omaha, Omaha, Nebraska



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## PARASITE OF THE DAY

A continuing blog from Susan Perkins at the American Museum of Natural History. See: [Parasite of the Day](#).

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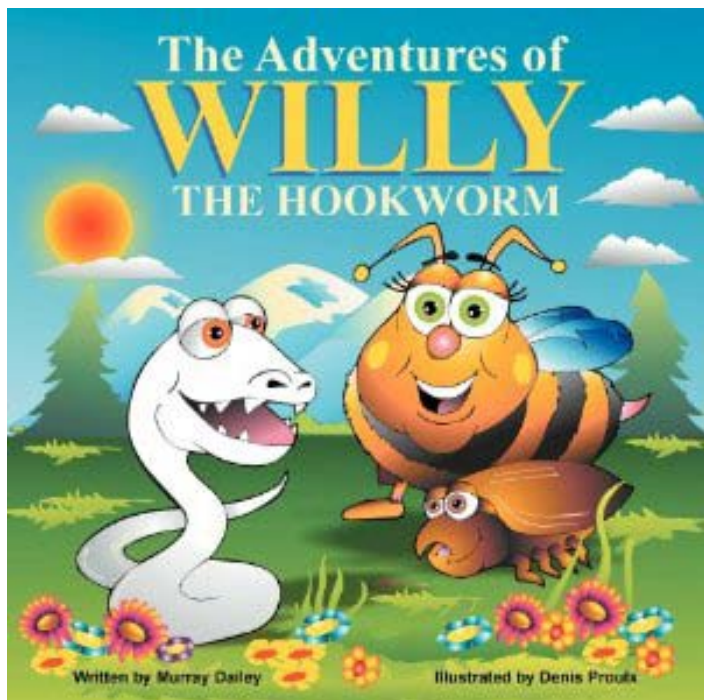
## BOOK REVIEW

**By Judy Sakanari and Mike Moser**

The Adventures of Willy the Hookworm  
by Murray Dailey

Illustrated by Denis Poulx  
ISBN-13: 9781465303790  
Publisher: Xlibris Corporation.  
Publication date: 9/27/2011

Pages: 44



Parasitologist Murray Dailey has written a wonderfully entertaining tale that introduces children to the basic biology of the story's characters and the moral dilemmas faced by animals we often don't think of as cute: a parasitic worm named Willy the Hookworm and a blood sucking arachnid, Tommy the Tick. The adult reader may see this as a classical Greek allegory of self-redemption or the woes of two invertebrate conscientious objectors. Perhaps, but don't tell the children.

The story line is about a young hookworm, Willy, who does not want to harm others. He asks an earthworm, Mr. Nightcrawler, if he can be one of them. The earthworm is sympathetic but points out they live on nutrients in the soil and hookworms feed on liquids found in a host. Disappointed, Willy searches on



and meets a young tick, Tommy. They discover they share the same goal - to do no harm. While sitting on a flower pondering their fate, they meet a friendly bee, Bonny. They explain their dilemma to her, and she says she will ask the advice of her wise Queen. After a couple days, Bonny returns to say the Queen will see them and she flies them to her hive. The Queen tells them she is a bit leery about having these two parasites in her hive, but maybe they can help in combating the ferocious Varroa mites that are destroying the nearby bee colonies.

Were Willy and Tommy able to save Bonnie's hive? How did they survive without feeding on the fluids from a host? All is revealed in the end.

Throughout the entire tale, Murray cleverly worked in the life cycles of hookworms and ticks, the biology and social structure of bees and their destruction caused by mites that are a real cause for concern today. Murray's goal was to write an entertaining and informative children's book about a parasite whose biology could be interwoven with biological facts. I believe he has succeeded very well. This book will appeal to both young and old alike.

The hardcover book is sturdy and designed to be handled by young children. It is beautifully illustrated by Denis Proulx who made a hookworm and tick into lovable creatures.

This book is a great find. After all, with the exception of Janine Caira's Christmas tapeworms, where else can you find a great present for a three to five year old about parasites?

<http://www.amazon.com/Adventures-Willy-Hookworm-Murray-Dailey/dp/1465303790>

[A pretty good deal for only \$22.00 at Amazon! –ed]

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## THE MEGURO PARASITOLOGICAL MUSEUM

By Judy Sakanari and Mike Moser

Meguro Parasitological Museum  
4-1-1 Shimomeguro  
Meguro-Ku  
Tokyo 153-0064, Japan  
TEL: 03-3716-7144  
FAX: 03-3716-2322  
Director: Kazuo Ogawa, Ph.D.  
Mail: ogawak@kiseichu.org

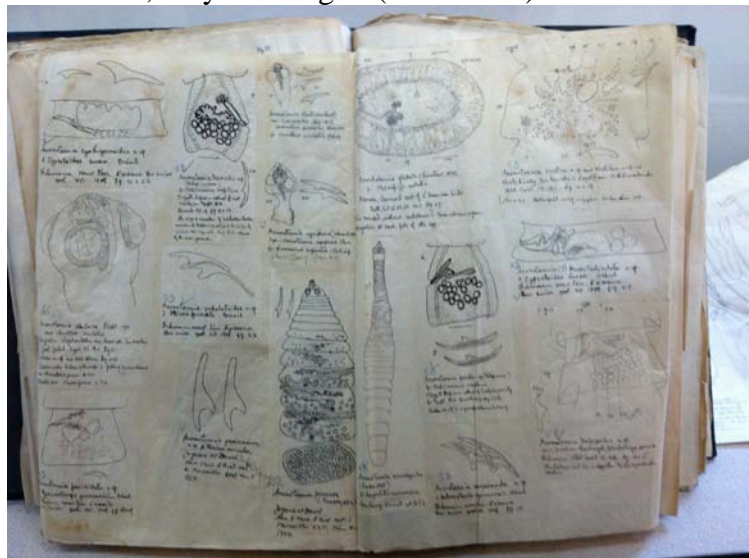


On our recent trip to Tokyo, we visited the Meguro Parasitological Museum and had the wonderful opportunity to meet Dr. Kazuo Ogawa, Director of this delightful parasite museum. The Meguro Parasitological Museum is a short walk from the Meguro Rail Station and is a modern, well-lit two story building. We loved the displays of various life cycles which are designed for the general public and specialists alike. The preserved specimens were beautifully displayed in crystal clear jars alongside the life cycle diagram,



and some of the displays reminded us of the plastic food in front of restaurants that customers can look forward to eating.

With Japan's long history of parasitological research, it was no surprise to find many of the displays reflecting the medical, ecological and fisheries aspects of Japanese parasitology. We were really excited to see that one of the rooms was devoted to the lineage of Japanese parasitologists and had several monographs with the original drawings and notes from the famous taxonomist, Satyu Yamaguti (1894-1976).



The Museum also has a gift shop that sells T-shirts with anatomically correct images of acanthocephalans, monogenes and digenes as well as key chains with embedded *Anisakis* L3, colorful post cards (“...wishing you were here”) and books. Proceeds help support the “World’s only Parasitological Museum” and is a great place to pick up items for the ASP Student Auction. It is amazing that the museum and its programs can operate as a non-profit organization supported solely by private and corporate donations.

The highlight of our visit to the museum was meeting Dr. Kazuo Ogawa who greeted us with a big smile and spent time talking with us. We have long known of his work on fish parasites, and it was great to have the chance to meet him in person. Dr. Ogawa maintains an active research program and database that includes a checklist of Parasitic Helminths of Wild Animals in Japan and a Catalogue of Type Specimens of the parasitic helminths preserved in the museum. He works hard to maintain his museum and we hope you ASP members get the opportunity to visit him and the museum.

The Lonely Planet publication lists The Meguro Parasitological Museum at number 103 of 710 interesting things to do while in Tokyo. Over 70,000 people visit the museum each year, and interestingly, two thirds are in their teens and twenties. This latter fact should not be lost on the student ASP members. After your visit to the museum, we headed two rail stops up from the Meguro Station to the Harajuku District. It is the amazing entertainment center for Tokyo's youth - Takashita Street is like Haight/Asbury on steroids.



Admission is free, and we encourage ASP members to visit the Museum and introduce your selves to Dr. Ogawa.

— Try to think about parasites without a feeling of fear, and take the time to learn about their wonderful world of the Parasites.—

from <http://www.kiseichu.org/Pages/einfo.aspx>

## IN HONOR OF THE LATE DR. AL BUSH

-Contributed by Tim Goater, Vancouver Island University

SCHOLARSHIP

### In Honour of an Influential Professor

**T**he late Dr. Al (Albert) Bush, a former Biology and Zoology professor at Brandon University from 1981 to 2009, is being honoured by former students, family and friends through the establishment of the Dr. Al Bush Memorial Scholarship at Brandon University.

Born in Bangor, Maine in 1948, Dr. Bush's childhood was spent in Hawaii and Florida. He attended the University of Florida, Gainesville (1969-73), and the University of Alberta (1973-74, 1976-80). His PhD studies were interrupted by service with American Forces in Vietnam. Afterward, he completed a doctoral thesis on the parasitic animals in wild ducks. Following a postdoctoral fellowship at Memorial University (1980-81), he joined the faculty of the Department of Zoology at BU, where he remained until early retirement in 2009.

A charismatic teacher, Dr. Bush was known for wearing t-shirts, shorts and open-toed sandals year-round. Former students reflected that "he was a great teacher, an accomplished scientist and an inspiration to countless numbers of students during his career", "a true friend who always had time

for his students", "highly esteemed among his peers", and "above all, he was devoted to his family, and was a splendid mentor to a generation of undergraduate students".

A writer or co-writer of two university textbooks: *Parasite Communities, Patterns and Processes* (Routledge, Chapman and Hall, 1990) and *Parasitism: The Diversity and Ecology of Animal/Parasites* (Cambridge University Press, 2001), he also wrote numerous scientific papers. For many years, he served as an Associate Editor for the scientific journals *The American Midland Naturalist*, *The Journal of Parasitology*, and *Parasitology*. He was a member of the American Society of Parasitologists, British Society of Parasitology, Canadian Society of Zoologists, Ecological Society of America, Helminthological Society of Washington, and the Society for the Study of Amphibians and Reptiles.

Dr. Bush passed away in January 2010 and is survived by his wife Maggie, and sons Jason and Jonathon. The new Dr. Al Bush Memorial Scholarship will be awarded to a Biology Major in the Ecology and Evolution Stream. If you would like to contribute to this scholarship, please contact the Department of Institutional Advancement at [development@brandonu.ca](mailto:development@brandonu.ca) or call 204-727-9715, or toll free at 1-877-282-4483. ■

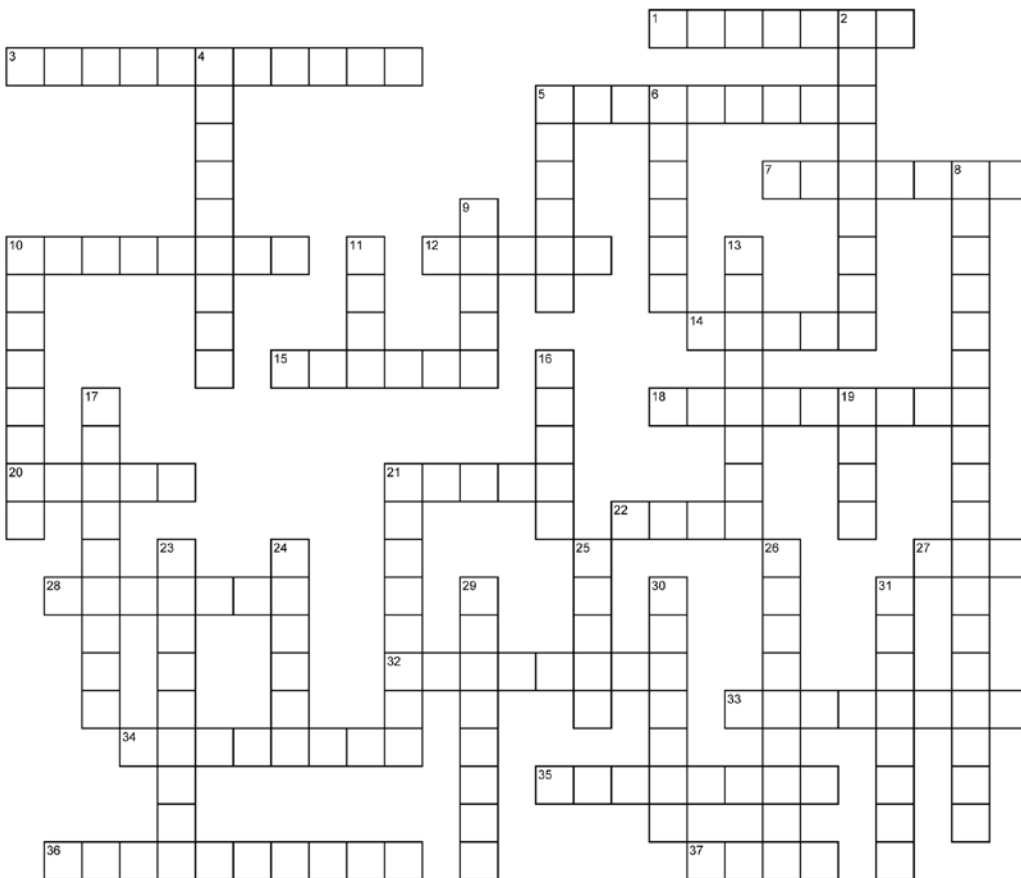


Dr. Al (Albert) Bush



Crossword Puzzle Answers on last page of Newsletter. This parasitology crossword puzzle was created by ASP member Tim Goater, Vancouver Island University, as part of his third year parasitology final exam, December, 2011.

## Parasites Rule!



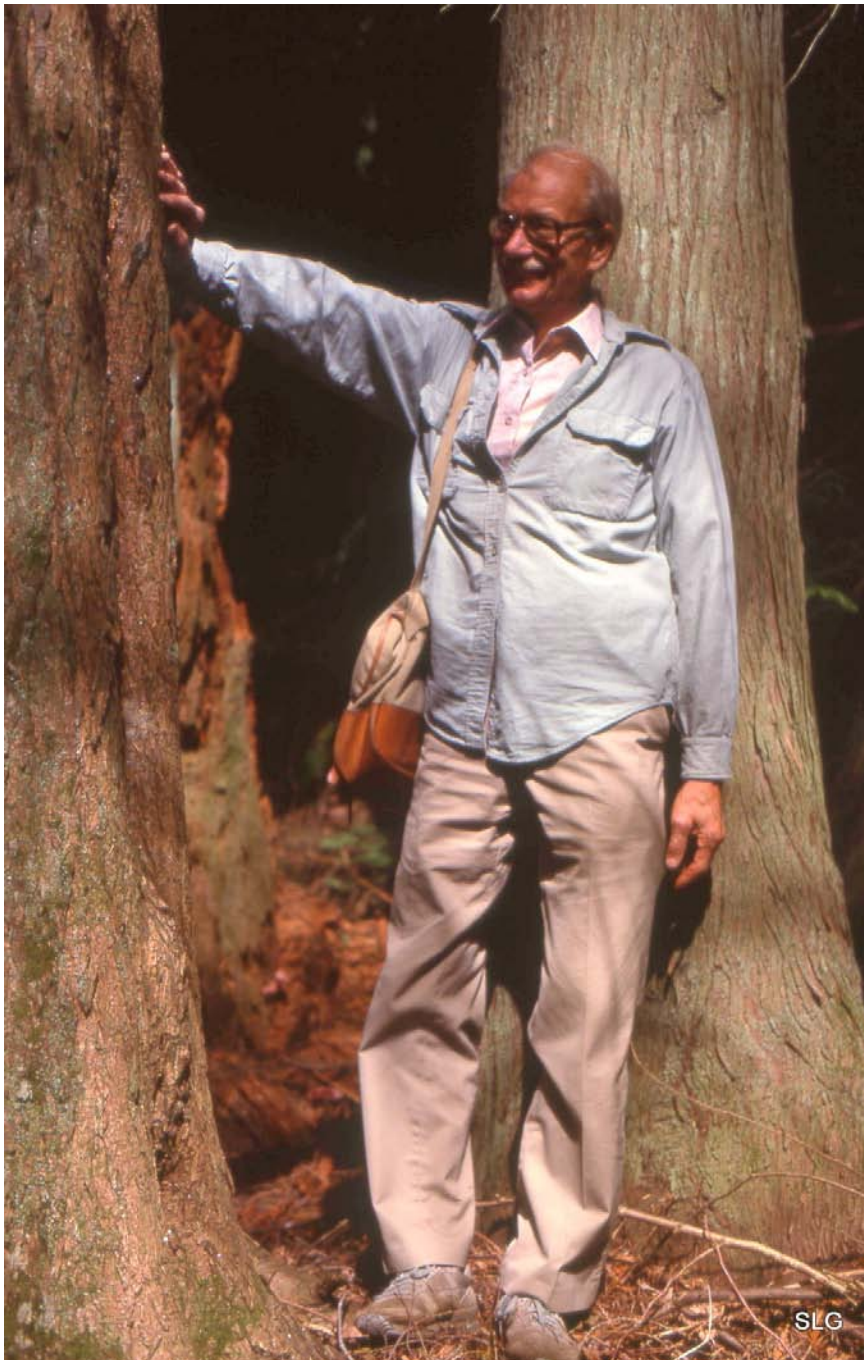
www.CrosswordWeaver.com

### ACROSS

- 1 molecular \_\_\_\_; Schistosoma immune evasion adaptation
- 3 nematode family; juveniles reach large sizes in insects & spiders & emerge into water
- 5 genus causing whirling disease in trout
- 7 \_\_\_\_ surface glycoproteins of Trypanosoma brucei
- 10 complex feeding structure of tapeworms
- 12 genus causing muscle liquefaction in salmon
- 14 \_\_\_\_ capsules; diagnostic structures in myxosporean spores
- 15 genus of microsporidian infecting honeybees
- 18 process of asexual reproduction occurring in oocysts of Apicomplexa
- 20 \_\_\_\_ cell of Trichinella spp.
- 21 Trypanosoma \_\_\_\_; causative agent of Chaga's disease
- 22 definitive hosts of Toxoplasma gondii
- 27 short for ciliate causing white-spot disease of aquarium fish
- 28 recurrence of malaria symptoms due to P. vivax hypnozoites
- 32 latest phylogenetic evidence indicates Acanthocephala belong to this phylum
- 33 larva of an acanthocephalan that hatches from an egg
- 34 free-swimming stage of trematodes produced by polyembryony in snails
- 35 motile zygote of Plasmodium spp.
- 36 genus of Eric Demers' Belizean ear parasite
- 37 transmission stage of Giardia & Entamoeba
- 4 vector of African trypanosomiasis (2 words)
- 5 Umingmakstrongylus pallikuukensis is found in this host
- 6 extremely resistant stage of Cryptosporidium parvum
- 8 disease caused by metacystode of Taenia solium in the brain of humans
- 9 diagnostic copulatory structure of male hookworms
- 10 parasitic plathyhelminthes adult feeding structure
- 11 Dicrocoelium dendriticum causes 'lockjaw' in these
- 13 general term for disease of wild or domestic animals transmissible to humans
- 16 potential disease of horses caused by Anoplocephala perfoliata
- 17 \_\_\_\_ host; for dispersal of parasites transmitted via predator-prey interactions
- 19 \_\_\_\_ balls inside miracidium; initiate polyembryony
- 21 phylogenetic evidence suggests the Myxozoa are related to this Phylum
- 23 genus of 'Tim's trematode' living under frog's tongue
- 24 microsporidians, e.g., Loma & Glugea, produce this in fish
- 25 juvenile nematode capable of arrested development during adverse conditions
- 26 cells responsible for cell-mediated immunity to trematodes in snails
- 29 ventral groove on scolex of pseudophyllidean tapeworms
- 30 beaver fever genus
- 31 entomopathogenic nematodes release these and kill their insect host

### DOWN

- 2 \_\_\_\_ hosts; important in epidemiology of Giardia duodenalis



Dr. Robert L. Rausch shown taking a break near his home on Bainbridge Island, Washington in the 1980's . Bob passed away in October of this year at his home. His global influence in parasitology, mammalogy, and natural history far exceeds any summary that I can provide in this newsletter. He was so kind to so many people, globally. He will be missed and remembered by all. -slg



## **JOBS**

### **Postdoctoral Position in Parasitology**

We have one potential postdoctoral position, contingent upon funding, available on or after the 1st of April 2013. The position is for one year, with possible renewal in the second and third years. The position will be held in the laboratory of Dr. David Marcogliese, St. Lawrence Centre, Environment Canada, Montreal, Quebec, Canada.

**Molecular systematics:** This project consists of discrimination of a variety of targeted parasite species belonging to diverse helminth taxa using morphological and molecular techniques. The project is one component of a large-scale interdepartmental research program aimed at invasive aquatic fauna. The project focuses on invasive and potentially invasive species of parasites in fish and amphibians. Target taxa include selected genera and species of trematodes, cestodes, nematodes, and monogeneans. Experience in morphological identification of parasitic helminths is required. Knowledge of parasites of freshwater fishes is considered an asset. Experience in molecular taxonomy and the analysis of molecular data is desirable. Successful candidates will also have the opportunity to participate in other ongoing projects in our laboratory.

To be placed on the eligibility list, applicants must apply to the Natural Sciences and Engineering Research Council of Canada (NSERC) Visiting Fellowships in Canadian Government Laboratories Program ([http://www.nserc-crsng.gc.ca/Students-Etudiants/PD-NP/Laboratories-Laboratoires/index\\_eng.asp](http://www.nserc-crsng.gc.ca/Students-Etudiants/PD-NP/Laboratories-Laboratoires/index_eng.asp)).

Further information on these awards can also be found on this site. While there are no deadlines, this process may take some time to complete, so early application is encouraged to ensure candidates qualify for the positions.

### **For more information on the positions and projects, please contact:**

Dr. David J. Marcogliese  
Aquatic Biodiversity Section  
Watershed Hydrology and Ecology Research Division  
Water Science and Technology Directorate  
Science and Technology Branch  
Environment Canada  
St. Lawrence Centre

105 McGill, 7th Floor  
Montreal, Quebec H2Y 2E7  
Canada

Tel: 514-283-6499  
Fax: 514-496-7398  
Email: [david.marcogliese@ec.gc.ca](mailto:david.marcogliese@ec.gc.ca)



**POSITION ANNOUNCEMENT**

CAESAR KLEBERG WILDLIFE RESEARCH INSTITUTE  
TEXAS A&M UNIVERSITY-KINGSVILLE  
DICK AND MARY LEWIS KLEBERG COLLEGE OF AGRICULTURE,  
NATURAL RESOURCES, AND HUMAN SCIENCES

**Position Title:** Ph.D. Graduate Research Assistantship: Life Cycle and Control of Quail Helminths

**Position Description:** The successful applicant will be stationed primarily in Lubbock, Texas for the eye-worm phase of the study and work collaboratively with researchers at The Institute of Environmental and Human Health Texas Tech University and Texas A&M University-Kingsville in designing and conducting lab experiments. Upon completion of the eyeworm study, the successful applicant will focus on cecal worms at Texas A&M University-Kingsville. Duties include designing and conducting lab experiments for transmission of eye-worms from infected to uninfected hosts; design and conduct lab experiments to demonstrate the influence of parasite infections on quail health; design and conduct lab experiments to learn about the parasite life-cycle transmission dynamics; design and conduct lab experiments to control parasite infections in quail, and other duties as assigned.

**Qualifications Required:** M.S. degree in biology, wildlife, ecology, parasitology, or a related field, minimum 3.0 GPA, and competitive GRE scores. General laboratory experience; familiarity with avian behavior and anatomy; performing animal necropsies; collecting biological samples under laboratory and field settings. Strong work ethic; good communication skills; ability to work well with others; ability to work independently and within a group; must be able to drive state vehicles within 30 days of employment.

**Preferred Qualifications:** Experience in performing necropsies of birds and insect dissection; data entry on laptop computer; statistical analyses; parasite identification.

**Stipend/Salary:** \$1,600/month plus benefits (medical package has a 90-day waiting period). Resident tuition fees will be provided for up to 4 years based on registration as a full-time student (9 hrs for Fall and Spring semesters and 6 hrs for summer session)

**Start Date:** January 7, 2013.

**Application Deadline:** Review of applications will begin immediately and will continue until a suitable candidate is selected.

**To Apply:** Send cover letter stating interests and career goals; resume; copies of transcripts; GRE scores; and names, addresses, phone numbers, and email addresses of 3 references to the following:

Dr. Alan Fedynich  
Caesar Kleberg Wildlife Research Institute  
Texas A&M University-Kingsville  
700 University Blvd., MSC 218  
Kingsville, Texas 78363  
361-593-4130  
e-mail: alan.fedynich@tamuk.edu

Texas A&M University-Kingsville (TAMUK) enrolls approximately 6,000 students. The Department of Animal, Rangeland and Wildlife Sciences grants B.S., M.S., and Ph.D. degrees in wildlife. The Caesar Kleberg Wildlife Research Institute is a research unit of the university with 15 scientists, 50+ graduate students, and numerous support staff. TAMUK is located in Kingsville, TX, a city of approximately 26,000 in south coastal Texas. Kingsville is surrounded by the historic King Ranch and is about 40 miles south of Corpus Christi, TX (population 175,000+).

Texas law requires that males 18 through 25 show proof of compliance with Federal Selective Service law in order to be eligible for employment.



## **POSITION ANNOUNCEMENT**

CAESAR KLEBERG WILDLIFE RESEARCH INSTITUTE  
TEXAS A&M UNIVERSITY-KINGSVILLE  
DICK AND MARY LEWIS KLEBERG COLLEGE OF AGRICULTURE, NATURAL  
RESOURCES, AND HUMAN SCIENCES

**Position Title:** M.S. Graduate Research Assistantship: Scaled Quail Parasite Study

**Position Description:** The successful applicant will study parasites of scaled quail from the Rolling Plains Ecoregion and surrounding area. Project goals include designing and conducting surveys to determine helminth parasite species richness, intensity, and abundance with the opportunity to expand into topics pertaining to parasite transmission dynamics and helminth community ecology. The successful candidate will pursue a MS degree in Range and Wildlife Management at Texas A&M University-Kingsville.

**Qualifications Required:** B.S. degree in biology, wildlife, ecology, parasitology, or a related field, minimum 3.0 GPA, and competitive GRE scores. Successful applicant must be capable of collecting quail by firearm, working under adverse field conditions (hot, humid Texas environment), performing necropsies, and identifying and counting parasites; must have a strong work ethic, good verbal and written communication skills, ability to work well with landowners, ranch managers, and employees, and ability to work independently and within a group; must be able to drive state vehicles within 30 days of employment.

**Stipend/Salary:** \$1,400/month plus benefits (medical package has a 90-day waiting period). Nonresident tuition waived (resident tuition fees apply). Partial resident tuition fee assistance may be provided based on availability of funds.

**Start Date:** January 7, 2013.

**Application Deadline:** Review of applications will begin immediately and will continue until a suitable candidate is selected.

**To Apply:** Send cover letter stating interests and career goals; resume; copies of transcripts; GRE scores; and names, addresses, phone numbers, and email addresses of 3 references to the following:

Dr. Alan Fedynich  
Caesar Kleberg Wildlife Research Institute  
Texas A&M University-Kingsville  
700 University Blvd., MSC 218  
Kingsville, Texas 78363  
361-593-4130  
e-mail: alan.fedynich@tamuk.edu

Texas A&M University-Kingsville (TAMUK) enrolls approximately 6,000 students. The Department of Animal, Rangeland and Wildlife Sciences grants B.S., M.S., and Ph.D. degrees in wildlife. The Caesar Kleberg Wildlife Research Institute is a research unit of the university with 15 scientists, 50+ graduate students, and numerous support staff. TAMUK is located in Kingsville, TX, a city of approximately 26,000 in south coastal Texas. Kingsville is surrounded by the historic King Ranch and is about 40 miles south of Corpus Christi, TX (population 175,000+).

Texas law requires that males 18 through 25 show proof of compliance with Federal Selective Service law in order to be eligible for employment.

EEO/AA/ADA



## **Graduate Student Assistantship**

M.S. Graduate Assistantship available in Mammal/Parasite Comparative Phylogeography, Biogeography, and Systematics

The Galbreath Lab at Northern Michigan University is seeking to recruit a M.S. student to participate in investigations on the diversity and historical biogeography of northern mammals and their parasites. The successful applicant will have the opportunity to develop an independent project within the scope of the core research interests of the lab. We use molecular tools to address questions regarding the history of colonization, diversification, and host-switching in small mammals (mostly rodents and lagomorphs) and their endoparasites (mostly cestodes and nematodes), with geographic areas of interest in the Beringian region (spanning eastern Siberia and Alaska), North America's Intermountain West, and the Great Lakes Region. Our specimen-based research program is closely linked to NMU's natural history museum collections, and offers opportunities for field work through collecting expeditions in Michigan's beautiful Upper Peninsula and elsewhere in the Great Lakes Region.

Applicants should possess a strong understanding of basic principles of evolutionary biology (developed through coursework and/or research experience), an interest in studying patterns of mammal/parasite diversity and the historical processes that shaped them, and the ability to work productively both independently and as part of a team. Additional desirable qualities include strong communication and analytical skills, enthusiasm for research in both the field and the lab, evidence of an ability to think creatively, and a good academic record.

Interested persons should contact Dr. Kurt Galbreath by email ([kgalbrea@nmu.edu](mailto:kgalbrea@nmu.edu)), including a brief statement of research interests, a CV, and contact information for 3 references. Review of applications will begin immediately and continue until the position is filled.

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## **PARASITOLOGY NEWS AND RESOURCES**

– **From Mike Moser, ASP Member.**

1. A Checklist of Parasites of California, Oregon, and Washington Marine and Estuarine Fishes.

Milton S. Love and Mike Moser

This checklist includes the parasites of the California, Oregon, and Washington marine and estuarine fishes regardless of where geographically the hosts were collected. The hosts and parasites are cross referenced. It is 576 pages including the references. Although it was a limited government publication in 1983, it may still be of use. It is currently posted at the Manter Laboratory of Parasitology, University of Nebraska-Lincoln <http://hwml.unl.edu/>.

2. An amazing new software, Fish Parasite Ecology Software Tool (FishPEST) has been developed by Giovanni Strona and Kevin Lafferty. It enables you create a



model host range for a parasite, a model parasite list for a host species and, for the purpose of this discussion, a host/parasite list or matrix from the internal database. It is very easy to use and can be accessed at <http://panic.alwaysdata.net/>.

3. The World Register of Marine Species (WoRMS) publication is the result of a 10 year census of marine life (2000-2010). The goal was to provide a comprehensive list of the names of the marine organisms found in the world's oceans. Its literature search lists the some fish parasites. The list gives the reference in which the parasite was cited but not the host. This requests the reader to obtain that reference. Considering the time, effort and scale of WoRMS, I was surprised that there were not more parasite species listed. It can be accessed at [www.marinespecies.org](http://www.marinespecies.org), see Taxon Tree.

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## **William C. Campbell receives honorary degree of doctor in science.**

William C. Campbell of North Andover MA has received an honorary degree of Doctor in Science from Trinity College, Dublin University. The degree was conferred, during the past summer, by Chancellor Mary Robinson, former President of Ireland and United Nations High Commissioner on Human Rights.

Dr. Campbell was formerly Senior Director of Parasitology at the Merck Laboratories in Rahway NJ, where he and his colleagues discovered six drugs widely used in human and veterinary medicine. He played a key role in the development of ivermectin for the prevention of Heartworm Disease in dogs (HeartGard) and for prevention of River Blindness in people (Mectizan). He has been a Research Fellow at Drew University in Madison NJ as well as holding adjunct professorships in the Biology Department and the graduate school. He also held adjunct professorships at the University of Pennsylvania and New York Medical College.

Dr. Campbell was born in Northern Ireland and holds a First Class Honors B.A. degree from Trinity College, Dublin University, and a PhD degree from the University of Wisconsin. Previous honors include honorary doctorates from McGill University and the University of Wisconsin. In 2002 he was elected to the National Academy of Sciences of the United States of America.



1

2

3

1 and 2. Chancellor Robinson and Prof. Campbell. Photo: Dublin University.  
3 The degree ceremony at Trinity College Dublin. Photo: J. Bluhm.

For official record of the event, see: [www.tcd.ie/registrar/honorary-degrees/](http://www.tcd.ie/registrar/honorary-degrees/)

## Visit and “Like” the ASP FACEBOOK Page.

The ASP has a FACEBOOK page. Stop in and check it out. Like it and make it a place that is useful for parasitology and sharing data about parasites. The Manter Laboratory has a FACEBOOK page, too, and many other collections are using social media to keep others informed. You can get to the ASP FACEBOOK page by visiting the home page of the ASP.

## Journal of Parasitology ON LINE at UNL Digital Commons.

The oldest issues (starting in 1914 and running up to now about 1980) are available online free to anyone at the UNL Digital Commons. You can get there by visiting the ASP web page and following the links. Or go here: <http://digitalcommons.unl.edu/jrnlp/parasitology/>

The Journal is there in addition to many scientific papers by Manter Laboratory Associates and collaborators. Feel free to look around.

### *Eimeria*





## **NSC ALLIANCE WASHINGTON REPORT, VOLUME 3, ISSUE 15, DECEMBER 13, 2012**

In this Issue:

- \* NSC Alliance Releases New Resource on Value of Digitization
  - \* House of Representatives Selects New Committee Leadership
  - \* No More Cuts to Research: Join a National Day of Action
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  - \* Graduate Student Leaders Sought to Shape Science Policy
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### **Policy News from NSC Alliance**

Through the NSC Alliance partnership with the American Institute of Biological Sciences, we are pleased to provide NSC Alliance members with the following public policy update. If you have any questions or require additional information regarding any of the following items, please contact NSC Alliance director of public policy Dr. Robert Gropp at 202-628-1500 x 250 or at [rgropp@aibs.org](mailto:rgropp@aibs.org) (<mailto:rgropp@aibs.org>)

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### **NSC Alliance Releases New Resource on Value of Digitization**

The Natural Science Collections Alliance has prepared a short report on digitization of natural history collections. The document outlines the potential uses of digitized data and its value to researchers, students, decision makers, and the public. Examples are presented of how digitized specimens and their associated data are being put to use.

#### **The following is an excerpt from the paper:**

Natural history collections contain a wealth of information about the organisms inhabiting our planet. The knowledge produced from collections fundamentally shapes our understanding of the variety of life on Earth, the effects of climate change on species distributions and extinction risk, and the threat posed by invasive species and pathogens, among many other issues. With this information, we can advance and support basic science, economy and trade, public health and safety, agriculture, and national security.

This information, however, is often decentralized, shared among a multitude of institutions located around the world, and retrieving the information can be challenging. This is beginning to change as technological advances revolutionize storage, access, and use of biological collections data.

Download the full document at

[http://nscalliance.org/wordpress/wp-content/uploads/2012/12/nsca\\_digitization.pdf](http://nscalliance.org/wordpress/wp-content/uploads/2012/12/nsca_digitization.pdf).

Read other papers in NSC Alliance's series "On the Importance of Scientific Collections" at [http://nscalliance.org/?page\\_id=10](http://nscalliance.org/?page_id=10).



## **House of Representatives Selects New Committee Leadership**

The House of Representatives has determined who will lead the chamber's twenty-five committees in the next Congress. Although many chairmen and ranking members will retain their positions, changes are in store for several committees with jurisdiction over science.

Notably, the House Science, Space, and Technology Committee will have a new leader next year. Representative Lamar Smith (R-TX) won a three-way race for the spot that will be vacated by Rep. Ralph Hall (R-TX), who is facing a term limit as chairman under his party's rules. Smith currently chairs the Judiciary Committee, but is also facing a term limit. Rep. Eddie Bernice Johnson (D-TX) will serve a second term as the top Democrat on the Science Committee.

Smith has served on the science panel since he was first elected to Congress in 1986. The committee oversees non-defense federal research and development, including the National Science Foundation. "As Chairman of the Science Committee, I will be an advocate for America's innovators by promoting legislation that encourages scientific discoveries, space exploration, and the application of new technologies to expand our economy and create jobs for American workers," said Rep. Smith in a statement. The congressman has been active in patent reform and space policy.

Among the committee leaders who will retain their posts is Rep. Hal Rogers (R-KY). Rogers chairs the Appropriations Committee, which is responsible for allocating federal funding on an annual basis. In a statement, Rogers highlighted the committee's efforts to reduce spending by almost \$100 billion during his tenure over the last two years: "I look forward to continuing this important work on behalf of the American people, making the necessary strides to get the nation's finances on track, reducing unnecessary government spending, and investing in important programs that will benefit the nation both now and in the future."

The appropriations panel will have a new ranking member, Rep. Nita Lowey (D-NY). Lowey faced a tough battle within the Democratic caucus for the position, beating Rep. Marcy Kaptur (D-NY) to become the first woman to lead the committee.

Rep. Doc Hastings (R-WA) will retain his position as chair of the House Natural Resources Committee, which has jurisdiction over legislation that addresses energy production, management of oceans and public lands, and conservation of fish and wildlife. "By protecting and unlocking access to our public lands and resources, we can keep and create jobs here in America, create new sources of revenue, and protect the livelihoods of millions of Americans," said Hastings. "We'll continue to advance policies that boost offshore and onshore energy production; promote a balanced, multi-use approach to public land management; protect hydropower; expand water storage and supplies; encourage economic growth on tribal lands; protect wildlife and cut government red tape." Rep. Edward Markey (D-MA) will also return as the ranking Democrat on the Natural Resources Committee.



Leadership of the Agriculture and Energy and Commerce Committees will stay the same in the new Congress. Rep. Frank Lucas (R-OK) will serve a second term as chairman of the Agriculture Committee; Rep. Collin Peterson (D-MN) will stay on as the top Democrat. Rep. Fred Upton (R-MI) will continue to chair the Energy and Commerce Committee, and Rep. Henry Waxman (D-CA) will continue as Ranking Member.

### **No More Cuts to Research: Join a National Day of Action**

People around the country are taking action to stand up for science. Voice your support for federal investments in research and science education.

The biological sciences community needs to express its opposition to further cuts to the federal programs that invest in research, support education, and protect natural resources. These programs are essential to ensuring America's global competitiveness, growing the economy, and addressing pressing social, public health, and environmental issues.

Take action now! (<http://capwiz.com/aibs/issues/alert/?alertid=62222766>)

It's easy to get involved. Send a prewritten letter to the editor of your local newspaper. Call your members of Congress. Send a Tweet to your elected officials.

Under current law, federal programs face devastating across-the-board budget cuts over the next decade. Unless Congress and the President act to prevent further cuts, non-defense discretionary programs, such as the National Science Foundation, National Institutes of Health, Department of the Interior, NOAA, and EPA, face mandatory 8.2 percent budget cuts next year, with further cuts over the next decade. Defense, including medical and environmental research supported by the Department of Defense, and security programs would be cut by 9.4 percent in 2013, with additional cuts in the subsequent years.

The net result of sequestration could be the loss of \$12 billion in research funding next year; the loss of 31,000 jobs in the life, physical, and social sciences; and delays in the construction and renovation of facilities for research and environmental conservation.

Please do your part for science and take action.

(<http://capwiz.com/aibs/issues/alert/?alertid=62222766>)

Need more information? Watch this three-minute video

(<http://www.youtube.com/watch?v=x4GNHJMKRf4>) from AIBS that explains the fiscal cliff and how it is likely to impact science. AIBS has also prepared a report

([http://www.aibs.org/public-policy/resources/AIBS\\_Sequestration\\_Report.pdf](http://www.aibs.org/public-policy/resources/AIBS_Sequestration_Report.pdf)) about the fiscal cliff and budget sequestration.

### **New Paper Highlights the Costs of Collecting and Preparing Specimens**

A recent publication by the Texas Tech University Natural Science Research Laboratory presents methods for determining the costs of collecting and preparing mammal



voucher specimens. Such information is useful in justifying budget requests from administrators and in formulating policies on specimen usage and replacement, according to the paper's authors. At Texas Tech University, the average value for a locally collected specimen was \$41 and \$74 for a specimen collected abroad. Costs did range, however, depending on the location of the trip, number of personnel, and number of specimens collected. The paper can be downloaded for free at <http://www.nsr.ttu.edu/publications/opapers/ops/OP313.pdf>.

### **Graduate Student Leaders Sought to Shape Science Policy**

Applications are now being accepted for the 2013 AIBS Emerging Public Policy Leadership Award. This award recognizes graduate students in the biological sciences who have demonstrated initiative and leadership in science policy. Recipients receive first-hand experience at the interface of science and public policy.

Winners receive:

- \* A trip to Washington, DC, to participate in the Biological and Ecological Sciences Coalition Congressional Visits Day, an annual event that brings scientists to the nation's capital to advocate for federal investment in the biological sciences, with a primary focus on the National Science Foundation. The event will last for two days and will be held on 10-11 April 2013. Domestic travel and hotel expenses will be paid for the winners.
- \* Policy and communications training, and information on trends in federal science funding and the legislative process.
- \* Meetings with Congressional policymakers to discuss the importance of federal investments in the biological sciences.
- \* A 1-year AIBS membership, including a subscription to the journal *BioScience* and a copy of "Communicating Science: A Primer for Working with the Media."
- \* An award certificate and membership in the EPPLA alumni network.

The 2013 award is open to U.S. citizens enrolled in a graduate degree program in the biological sciences, science education, or a closely allied field. Applicants should have a demonstrated interest in and commitment to science policy and/or science education policy. Prior EPPLA winners and AIBS science policy interns/fellows are not eligible.

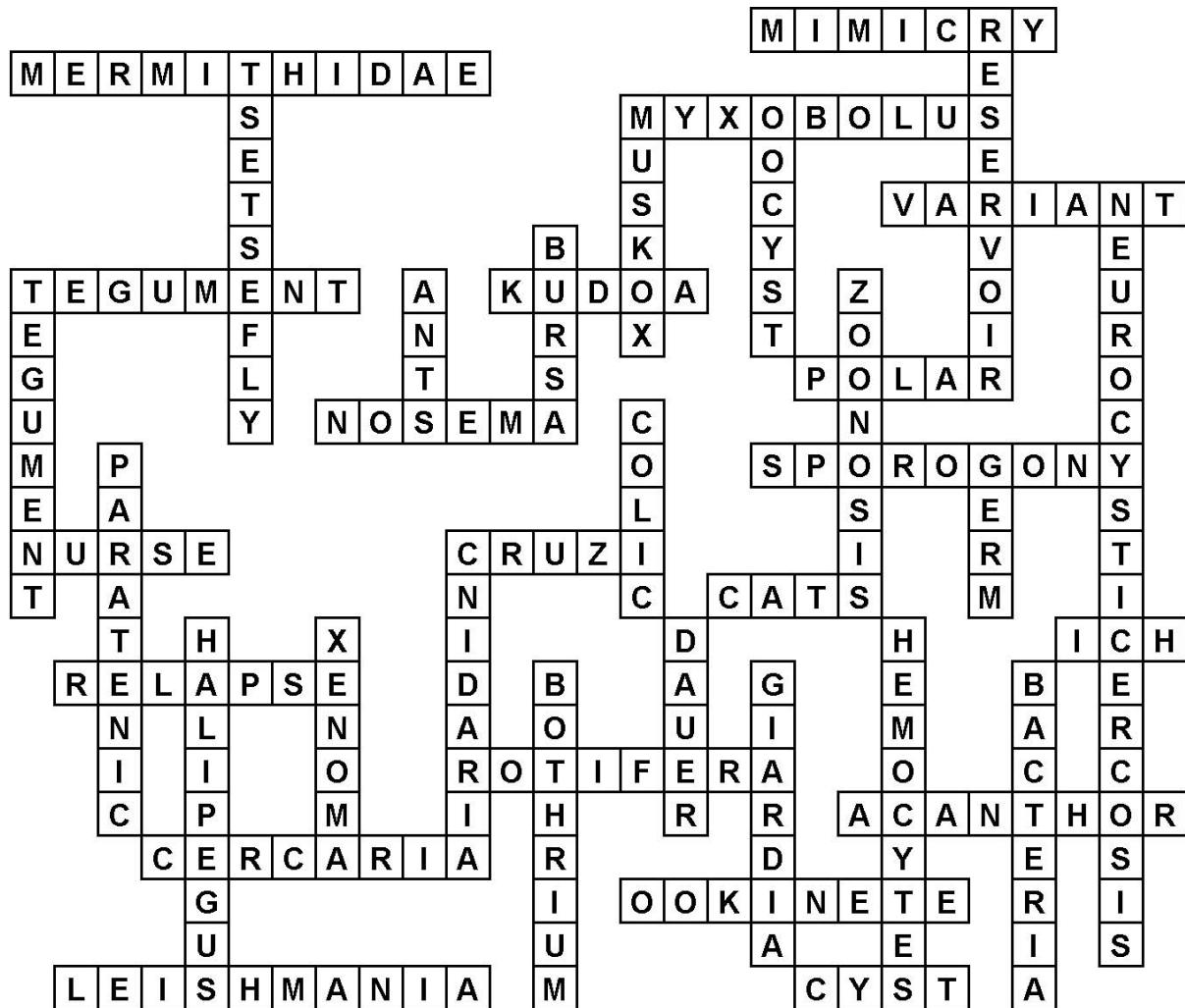
Applications are due by 5:00 PM Eastern Time on Monday, 28 January 2013. The award application can be downloaded at <http://www.aibs.org/public-policy/eppla.html>.

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The Natural Science Collections Alliance is a Washington, D.C.-based nonprofit association that serves as an advocate for natural science collections, the institutions that preserve them, and the research and education that extend from them for the benefit of science, society, and stewardship of the environment. NSC Alliance members are part of an international community of museums, botanical gardens, herbariums, universities, and other institutions that house natural science collections and utilize them in research, exhibitions, academic and informal science education, and outreach activities. Website: [www.NSCAlliance.org](http://www.NSCAlliance.org).



Solution to crossword puzzle on page 9.

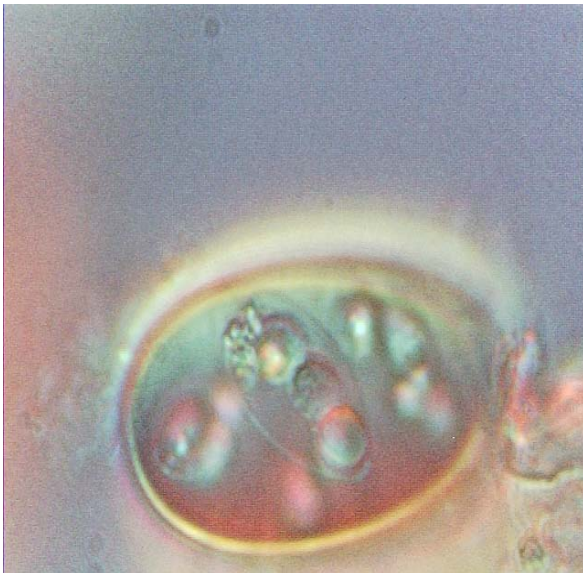


Parasites Rule!

Solution:



***Rana aurora***



***Eimeria* sp.**

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### Note to Members -

The ASP Newsletter welcomes news stories, articles, poetry. Please send your text electronically to the editor as an e-mail and attach as an MS Word document. Drawings, photographs, charts, or tables can be sent as B/W TIF files at 300 dpi. Please send TIF files one at a time. A general rule is to limit photograph size to 3x5". You may attach both text and graphic files to your email message.

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