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Parasitology, Harold W. Manter Laboratory of

Winter 2003

American Society of Parasitologists Newsletter, v. 25, no. 4, Winter 2003

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Volume 25, No. 4

Winter 2003

American Society of Parasitologists

NEWSLETTER



Newsletter:

Released on the ASP web-server [<http://asp.unl.edu>]
December 12, 2003

From the *Editor* of the Newsletter

The ASP newsletter accepts information and news of a parasitological nature from all disciplines. Please assist me in making the content of the ASP newsletter highly relevant. We will be posting material on the web as they are generated by you, the **reader** and **contributor**.

Happy Holidays to everyone as we rev up to enter a new year. One new addition to the current newsletter is a reprinted article from the Syracuse Medical Alumni Association "The Upstate Alumni Journal" on Justus F. Mueller, Ph.D. They call him the "most legendary faculty member in recent Upstate history." Thanks to Austin MacInnis for contributing this to the newsletter. The reprinted article with embedded photos begins on page 24 of the newsletter, just after the committee list.

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Scott L. Gardner, Curator
Harold W. Manter Laboratory of Parasitology
University of Nebraska State Museum
School of Biological Sciences
University of Nebraska - Lincoln

Photograph from Dave Marcogliese - From the Halifax meeting: Dr. Arai and students



The characters in question (or questionable characters) are, from left to right, Derek Zelmer, Hisao Arai, Richard Arthur and Brent Dixon. Hisao Arai supervised all three at the University of Calgary (Dixon and Arthur for PhD, Zelmer for MSc). Photo was taken at ASP-Halifax.

Positions

MOLECULAR ECOLOGIST OR EVOLUTIONARY BIOLOGIST

University of Nebraska - Lincoln

The School of Biological Sciences invites applications for a tenure-track faculty position at the Assistant Professor level with expertise in using molecular techniques to investigate evolutionary and/or ecological questions with an emphasis in organismal biology. Candidates will be expected to develop a rigorous research program and assume teaching responsibilities in undergraduate courses in the areas of biological diversity and/or ecology and evolution, and at the graduate level in their area of expertise. A Ph.D. in the life sciences is required and post-doctoral experience is preferred. To apply send a curriculum vita and copies of representative publications along with statement of research interests and teaching interests and philosophy. Also arrange for three letters of reference to be sent by January 1 to Jack Morris, School of Biological Sciences, University of Nebraska-Lincoln, 348 Manter Hall, Lincoln, NE 68588-0118. The position will remain open until a suitable candidate is selected.

UNL is committed to a pluralistic campus community through Affirmative Action and Equal Opportunity, and is responsive to the needs of dual career couples. We assure responsible accommodation under the Americans with Disabilities Act. For further information contact Jack Morris at 402-472-6676 for assistance.

Editors Note:

The position announcement is meant to attract the widest possible range of applicants with expertise in ecology and evolutionary biology. Parasitology has a long tradition at the University of Nebraska and it is hoped that the final pool of applicants includes several parasitologists.

Research Scientist

The American Type Culture Collection, a biological resource center supporting global scientific research, has an immediate opening for a Research Scientist. This individual should have at least two years of research experience preferably with free-living protozoa and will be responsible for establishing a research program on molecular taxonomy or molecular evolution of cell biology in a protist system. This candidate will have a Ph.D. or equivalent in a relevant biological science discipline and a minimum of two years relevant research experience required. Must be able to work independently, be detail oriented and highly organized, excellent written and verbal skills. Previous supervisory experience desired.

ATCC offers a competitive salary and comprehensive benefits package.

Qualified candidates should submit their resume, specifying job code and salary requirement to:

ATCC Attn: HR (Job Code: PR013)

10801 University Blvd.

Manassas, VA 20110 Fax: 703-365-2735 or email:

employment@atcc.org

EOE M/F/D/V

Graduate Research Assistantship

We are looking to recruit a new graduate student to work in my lab at the University of Hawaii on the systematics, phylogenetics, and biogeography of Pacific island succineid land snails. The project is funded by the National Science Foundation. Dr. Marta deMaintenon is the co-PI.

In order to apply, in the first instance you need to apply for admission to the graduate program in the Department of Zoology at the University of Hawaii: <http://www.hawaii.edu/zoology/>. Check the website for admission requirements, and note especially the need to have not only the general GREs but also the Biology subject GRE. If you are interested, send me an e-mail with a cv and we can discuss it further.

The following is the formal announcement of the graduate assistantship that would support the new graduate student for the initial 2 years. Other funding will be sought in order to support the student beyond this.

POSITION ANNOUNCEMENT: University of Hawaii at Manoa Center for Conservation Research and Training Pacific Biomedical Research Center Graduate Research Assistantship available.

The Project TITLE: Revision and phylogeographic analysis of Pacific island succineid land snails.

OBJECTIVES: The project will undertake a systematic revision of the entire Pacific island succineid fauna (about 80 species). In addition, the project will investigate the evolutionary and geographic origins and diversification of the species and the routes via which, over evolutionary time, they have colonized these myriad islands.

APPROACH: The project will use both traditional analysis of morphological variation as well as modern DNA sequencing approaches and analytical methodologies.

Duties: The GA will undertake a major part of the laboratory work, and may have some opportunity to travel in the islands of the Pacific. Ideally, he/she will develop his/her own dissertation research based on the project and expanding it.

Minimum Qualifications: Classified full-time graduate student admitted to and enrolled in the MS program in the Department of Zoology. Experience in molecular genetics (DNA sequencing).

Desirable Qualifications: Enrolled in the Ph.D. program in the Department of Zoology. Experience with phylogenetic analysis. Experience with anatomical dissection and characterization of mollusks.

Position Details: The position is funded by NSF through the Center for Conservation Research and Training for a period of 2 years. The position is 0.50 FTE (i.e., 20 hours per week) and will begin the fall semester of 2004 (probably 1 September 2004).

Salary: Salary commensurate with qualifications and experience. Minimum \$1296.50/month.

How to Apply: As soon as possible, submit (via e-mail) a cv and a message explaining your interest to:
Dr. Robert Cowie - cowie@hawaii.edu
Phone: (808) 956-4909

Deadline: Continuous recruitment, applications will be reviewed beginning 1 December 2003 until the position is filled.

Dr. Robert H. Cowie
Center for Conservation Research and Training
University of Hawaii
3050 Maile Way, Gilmore 408
Honolulu, Hawaii 96822 USA
Phone: (808) 956 4909
Fax: (808) 956 2647/9608
EECB: http://www.hawaii.edu/eeeb/eeeb_faculty/robertcowie.html
Samoan Snail Project: <http://www2.bishopmuseum.org/PBS/samoasnail/>
IUCN (Tentacle): <http://www.hawaii.edu/ccrt/tentacle.html>

Landscape/Wildlife Ecologist

The Illinois Natural History Survey (INHS) seeks an ecologist to plan, develop, and conduct research on wildlife ecology and conservation from a landscape perspective. Research may address a broad range of topics such as effects of landscape characteristics on the distribution, abundance, or population trends in wildlife; wildlife management from a landscape perspective; landscape effects on human-wildlife interactions, wildlife health, or diseases; studies of landscape-scale ecological processes such as fire; or ecological restoration of floodplains, prairies, and other habitats, particularly from a wildlife perspective. Research approaches that can draw on INHS's extensive or long-term survey and monitoring databases, and that can be applied to conservation and management issues in Illinois and the Midwest are preferred. Familiarity with GIS technology and strong quantitative skills are preferred. We particularly seek an ecologist with an interest in collaborating in new funding opportunities with INHS monitoring, evaluation, and GIS groups, and in collaborating with group members on scientific research as appropriate. Ph.D. in ecology, wildlife biology, or a related field required by date of hire.

This 12-month position may be at the Assistant or Associate Professional Scientist level, commensurate with experience. Salary and benefits: Assistant, \$48,000 - \$52,000; Associate, \$50,000 - \$55,000. Generous vacation, sick, and personal leave. State Universities Retirement System. State Health, Dental, and Life Insurance.

Available: Summer- fall 2004.

Additional information may be found at the INHS website: <http://www.inhs.uiuc.edu/opportunities/index.html>.

To apply submit **by January 31, 2004**, cover letter, cv, statement of research interests, and letters from three (3) professional references to:

Illinois Natural History Survey
Human Resources Office
PRF#1198, 607
East Peabody Drive
Champaign, IL 61820
(217) 265-5644
email: hroffice@inhs.uiuc.edu

For technical questions, contact **Dr. Ed Heske, Director, Center for Wildlife Ecology**, e-heske@uiuc.edu.
Affirmative Action/Equal Opportunity Employer.

Molecular Studies Of Host-Parasite Coevolution

Post-doc Position

We are looking for a person to fill a 3-year NSF-funded postdoctoral position to pursue molecular-based investigations of coevolutionary relationships between pocket gophers and their chewing lice. This project investigates a particularly complicated and species-rich assemblage of lice and gophers in Mexico and incorporates GIS technology to investigate factors influencing louse distribution on hosts and host distribution over geography. The experimental design involves molecular-based phylogenetic analysis, application of GIS technology to host and parasite distributions, and occasional fieldwork in Mexico.

The successful applicant must have skills in molecular evolution (primer design, PCR amplification, DNA sequencing, and knowledge of phylogenetic analysis). Beyond that, we seek a person with experience in GIS analysis (ArcView, GARP analysis, etc.) or a genuine motivation to learn these techniques, which will be important tools in our effort to use GIS to model host-parasite coevolution. We especially encourage entomologists and PARASITOLOGISTS to apply, as their insect/parasite perspectives will complement the mammal/host perspectives of the PIs on this project.

The position is available after March, 2004 and renewals for the second and third years will be contingent on progress and productivity. Review of applications is ongoing and will continue until the position is filled.

Applicants must have a Ph.D. in biology or a related field. Please send your CV, a statement of research interests, and the names, phone numbers, and email addresses of three references to:

Dr. Mark S. Hafner,
Museum of Natural Science,
119 Foster Hall,
Louisiana State University, Baton Rouge, LA 70803
voice: 225-578-3083;
fax: 225-578-3075;
e-mail: namark@lsu.edu

For additional information and links go to: <http://www.museum.lsu.edu/postdoc.html>

Postdoctoral Research Position in Host-Parasite Molecular Ecology

A postdoctoral research position is available in the evolutionary genetics laboratory of Dr. Matthew Hare in the Department of Biology of the University of Maryland, College Park. Research in the Hare laboratory focuses on conservation and evolutionary genetics and uses genetic markers as indicators of dispersal, gene flow, selection, hybridization and speciation in marine organisms. More information on the Hare lab can be found at <http://www.life.umd.edu/biology/faculty/hare/index.html>

The research focus for this postdoctoral position will include genetic analyses of host and pathogen diversity in marine hybrid zones. The successful candidate must demonstrate an intellectual commitment to pursuing research questions in molecular ecology and evolution and is expected to take a lead role in research that furthers the overall research goals of the laboratory. A good background in evolutionary biology is essential, and previous field work experience is desirable. Candidates with a background in marine invertebrate parasitology are particularly encouraged to apply. Preference will be given to candidates who also have experience with DNA techniques, but molecular experience is not required. Salary will be commensurate with qualifications and experience within the 26-32 K range. A PhD is required for this two year position.

Applicants should send (electronic preferred) a brief letter describing their prior research experience and current interests, a curriculum vitae, and the names and contact information of three references to Matthew Hare, Biology Department, Bio/Psych Bldg. #144, University of Maryland, College Park, MD 20742 (FAX: 301-314-9358; e-mail: matt.hare@umail.umd.edu). Any start date before the summer of 2004 will be considered, but sooner is better.

The University of Maryland is located in a suburb of Washington D.C. with easy access to a number of research institutions in the Baltimore/D.C. area including the Smithsonian, Johns Hopkins University, and the

Center of Marine Biotechnology. More information about the Biology Department and the Behavior, Ecology, Evolution, and Systematics (BEES) program at UMCP is available at <http://www.life.umd.edu/biology/> and <http://www.life.umd.edu/grad/BEES/>

The University of Maryland is an equal opportunity/affirmative action employer.

Assistant IN: Phylogenetics/Taxonomy/100% Research

Assistant IN: Nematode Phylogenetics/Taxonomy/100% Research. Annually renewed, grant-funded, non-tenure accruing position. Collects, identifies, and cultures nematodes and insects. Performs morphological studies and PCR amplification, cloning, sequencing, and analysis of genes of phylogenetic relevance from organisms of regulatory and biological control interest. Ph. D. required in Entomology and Nematology, Plant Pathology, or related discipline with 1+ years of postdoctoral experience in nematode taxonomy and molecular phylogenetics. University of Florida is an Equal Employment Opportunity / Affirmative Action employer. Start date ASAP. Salary \$27,500 with benefits. Apply with cv, official transcripts, three letters of recommendation, and application letter to:

Robin M. Giblin-Davis
Fort Lauderdale Research and Education Center
University of Florida/IFAS
3205 College Ave.
Davie, FL 33314.
email: giblin@ufl.edu

Apply by 12/31/03.

Robin M. Giblin-Davis
Professor
Fort Lauderdale Research and Education Center
University of Florida/IFAS
3205 College Avenue
Davie, FL 33314

Phone: (954) 577-6333
FAX: (954) 475-4125
email: giblin@ufl.edu

Entomology Collection Manager Position at Bishop Museum

Collections Manager - Entomology at Bishop Museum, Honolulu. This full-time position will take charge of the third largest collection of insects and related arthropods in the United States.

The collection includes 14 million specimens in pinned, ethanol-preserved, and slide-mounted collections. Focus of the collection is Hawaii and the Pacific, with a strong historical emphasis on Hawaii, New Guinea, Philippines, and SE Asia. The position will require active, hands-on curation of the collection, including identification of specimens, processing and cataloging of incoming material; maintenance of adequate curatorial supplies, database authority files, and organization of the collection. This position will also interact with the Museum's other collection managers and a centralized transaction system.

Qualified candidates will possess a master's degree in biology or equivalent experience. Fluency in English required and one or more of the non-English languages prevalent in the entomological literature (e.g. Chinese, French, German, Japanese, or Russian) desirable. Must have 3-5 years demonstrated insect collections-care experience; knowledge of insect taxonomy and associated literature and world geography, especially with reference to Hawaii and the Pacific; ability to identify insects to species level and field experience collecting insects; familiarity with database management. Desktop and electronic publishing and digital imaging skills desirable.

Applications should include a cover letter with salary requirements, a curriculum vitae/resume and contact

information for at least three and no more than five references.

Application review will begin December 15, 2003 and continue until the position is filled.

Submit a resume by e-mail directly to judim@bishopmuseum.org
or mail to:

Bishop Museum Human Resources Department
1525 Bernice Street Honolulu, HI 96817

Department of Biological Sciences at Sam Houston State University Two Tenure-track Assistant Professor Positions

The Department of Biological Sciences at Sam Houston State University currently has two tenure-track Assistant Professor positions open for a eukaryotic cell biologist and geneticist beginning Fall 2004. The PhD is required, with postdoctoral experience preferred. Teaching may include graduate and undergraduate courses in Cell Biology, Cytology, Histology, Genetics, Molecular Biology, and Evolution or related fields. Research activity involving students is expected. Successful candidates will support SHSU's MS in Forensic Science. Departmental information is available through our web site at http://www.shsu.edu/~bio_www/facultyop.html.

Applicants are asked to send a resume, statements of teaching philosophy and research interests, three letters of reference, and college transcripts to:

Dr. Diane Neudorf
Chair, Biology Search Committee
Department of Biological Sciences
Box 2116
Sam Houston State University
Huntsville, TX 77341-2116

Applicant reviews will begin 15 November 2003 with positions contingent upon available funding.

Meetings

Helminthological Society of Washington Call for Papers

<http://asp.unl.edu/pdf/springMeetingRegistration2004.pdf>

Dear Helminthological Society of Washington Member:

The 686th meeting of the Helminthological Society of Washington will be held at The Department of Microbiology and Tropical Medicine of the George Washington University, Friday evening and Saturday April 2-3, 2004, and hosted by Dr. John Hawdon.

This year's meeting will include a keynote address and reception on Friday night, and a plenary session of oral and poster presentations on Saturday. In addition, this meeting will include a special student competition. The recipient of the best student presentation will receive \$200 and the runner-up will receive \$100. Two honorable mention awards of one year's membership to the Helminthological Society of Washington will also be given. Students who wish to be considered for the awards must so indicate on the enclosed registration form. For those who desire to stay in the area overnight, a short list of hotels/motels will be provided upon registration.

Please show your support for your society and your discipline by attending and participating in meeting on the 2nd and 3rd of April, 2004. Please fill out the enclosed registration form and e-mail it Dr. Dennis Richardson

(Dennis.Richardson@quinnipiac.edu) and mail the check for \$25 to Dr. Dennis Richardson (Quinnipiac University, 275 Mt. Carmel Avenue, BOX 71, Hamden, CT 06518) by February 10, 2004.

We look forward to seeing you at GWU!

Best Regards,

William E. Moser, President
e-mail address: moser.william@nmnh.si.edu

Sherman S. Hendrix, Vice President
e-mail address: shendrix@gettysburg.edu

The Helminthological Society of Washington
<http://www.gettysburg.edu/~shendrix/helmsoc.html>

The Annual List of Committees

This list will be posted in the committee list part of the ASP web page too. You can have your own copy here! Any mistakes or changes needed please send a note to Scott -

Bueding and von Brand Committee

	Term ends	Email	Snailmail
Chair: Frank Schaefer	05	schaefer.frank@epa.gov	Dr. Frank W. Schaefer, III National Exposure Research Laboratory U.S. Environmental Protection Agency 26 West Martin Luther King Cincinnati, Ohio 45268-1320 513-569-7222
Robert Rew	03	robert.s.rew@pfizer.com	Dr. Robert Rew 400 N. Wawaset Road West Chester, PA 19382 610-918-1248
Cynthia Chappel	04	CChappell@sph.uth.tmc.edu	Dr. Cynthia L. Chappell Center for Infectious Diseases University of Texas School of Public Health 1200 Herman Pressler Dr. Houston, Texas 77030 713-500-9372
Larry Roberts	06	lroberts1@compuserve.com	Dr. Larry S. Roberts 27700 SW 164th Ave Homestead, FL 33031 305-245-3310

Business Advisory Committee

	Term ends	Email	Snailmail
Chair: Stephen Kayes	04	kayes@sungcg.usouthal.edu	Dr. Stephen G. Kayes University of South AL Medical Sciences Bldg Rm 2042 Mobile, AL 36688-0002 334-460-6768
Austin MacInnis	04	mac@biology.ucla.edu	Dr. Austin J. MacInnis Department of Biology UCLA P.O. Box 951606 Los Angeles, CA 90095-1606 310-825-3069

Nancy Wisnewski	05	wisnewn@heska.com	Dr. Nancy Wisnewski Senior Director, Pharmaceutical Research Heska Corporation 1613 Prospect Parkway Fort Collins, CO 80525 970-493-7272
Diane Ritter	06	dianne_m_ritter@groton.pfizer.com	Dr. Dianne M. Ritter Global Research and Develop. Pfizer, Inc. MS 8118D-2030 Eastern Point Road Groton, CT 06340 860-441-1361
Chuck Sterling	06	csterlin@u.arizona.edu	Dr. Charles R. Sterling Dept of Veterinary Science University of Arizona Bldg 90, Room 202 P.O. Box 210090 Tucson, AZ 85721 520-621-4580
John Janovy	Ex officio	jjanovy1@unl.edu	Dr. John Janovy School of Biological Sciences University of Nebraska Lincoln Lincoln, NE 68588-0118 402-472-2754
George Cain	Ex post officio	gcain@cb.uga.edu	Dr. George Cain Dept of Cellular Biology University of Georgia Athens, GA 30602 706-542-5017

Ashton Cuckler Young Investigator Award Committee

	Term ends	Email	Snailmail
Chair: Jane Starling	04	starling@umsl.edu	Dr. Jane Starling Dept of Biology University of Missouri-St. Louis 8001 Natural Bridge Road St. Louis, MO 63121 314-516-6206
Darwin Wittrock	05	wittrod@uwec.edu	Dr. Darwin D. Wittrock Department of Biology Univ. of Wisconsin-Eau Claire Eau Claire, WI 54701 715-836-3614
Jack O'Brien	04	jobrien@jaguar1.usouthal.edu	Dr. Jack J. O'Brien Department of Biological Sciences University of South Alabama Mobile, AL 36688 251-460-6331
John Adams	05	jadams3@nd.edu	Dr. John Adams Department of Biological Sciences University of Notre Dame Notre Dame, IN 46556 574-631-8676

Distinguished Service Award and Extramural Awards Committee

	Term ends	Email	Snailmail
Chair: Darwin Wittrock	04	wittrod@uwec.edu	Dr. Darwin D. Wittrock Dept of Biology Univ. of Wisconsin-Eau Claire Eau Claire, WI 54701 715-836-3614

Gerardo Perez-Ponce de Leon	05	ppdleon@servid	Dr. Gerardo Perez-Ponce de Leon Instituto de Biología Universidad Nacional Autónoma de México (UNAM) Apartado Postal 70-153 México DF 04510, México tel 55-6-229131
Eugene Foor	06	genefoor@pennswoods.net or.unam.mx	Dr. W. Eugene Foor 335 Tussey Mountain Lane Saxton, PA 16678 814-635-3181
Bruce Conn	07	bconn@berry.edu	Dr. Bruce Conn School of Math and Natural Sciences Berry College Mount Berry, GA 30149 706-236-1756
Education Committee			
Chair: Lee Couch	Term ends 04	Email lcouch@unm.edu	Snailmail Dr. Lee Couch Dept. of Biology University of New Mexico Albuquerque, NM 87131 505-277-2400 fax 505-277-0304
Scott Seville	04	Sseville@uwyo.edu	Dr. R. Scott Seville Associate Prof Zoology and Physiology University of Wyoming/Casper Center 125 College Drive Casper, Wyoming 82601 307-268-2543 fax 307-268-2416
Brenda Beerntsen	08	beerntsenb@missouri.edu	Dr. Brenda Beerntsen Veterinary Pathobiology University of Missouri 209A Connaway Hall Columbia, MO 65211 573-882-5033 fax 573-884-5414
Ralene R. Mitschler	06	rmitschl@wmdc.edu	Dr. Ralene R. Mitschler Biology Dept. Western Maryland College New Science Center #205 2 College Hill Westminster, MD 21157 410-857-2406 office fax 410-386-4613
Isaure de Buron	07	deburoni@cofc.edu	Dr. Isaure de Buron College/University of Charleston Department of Biology 58 Coming St, Room 214 Charleston, SC 29424-0001 843-953-5848
Dennis Richardson	Ex officio	Dennis.Richardson@quinnipiac.edu	Dr. Dennis Richardson Quinnipiac College Campus Box 138 Mount Carmel Ave Hamden, CT 06518 203-582-8607
Dennis Minchella	Ex officio	dennism@purdue.edu	Dr. Dennis J. Minchella Dept. of Biological Sciences Purdue University West Lafayette, IN 47907-1392 765-494 -8188

Henry Baldwin Ward Medal Committee

	Term ends	Email	Snailmail
Patricia Komuniecki	04	pkomuni@utnet.utoledo.edu	Dr. Patricia Komuniecki University of Toledo Dept. of Biological Sciences 2801 W. Bancroft Street Toledo, OH 43606+3390 419-530-2066
Scott Snyder	04	sdsnyder@mail.unomaha.edu	Dr. Scott Snyder Dept of Biology University of Nebraska Omaha 6001 Dodge St Omaha, NE 68182 402-554-2469
Ken Tiekotter	04	tiekotte@up.edu	Dr. Ken L. Tiekotter 2920 N.E. 25th Ave. Portland, OR 97212 503-413-5391
Robert Grieve	05	griever@HESKA.com	Dr. Robert Grieve Heska Grp. 1825 Sharp Point Drive Fort Collins, CO 80525 970-493-7272 fax 970-484-9505
George Hillyer	05	ghillyer@rcm.upr.edu	Dr. George Hillyer Dept. of Pathology and Lab Medicine Lab of Parasite Immunol & Path Suite 617-A, PO Box 365067 Univ of Puerto Rico School of Med. San Juan, PR 00936-5067 787-756-7700 fax 787-751-9210

Honorary Members and Distinguished Members Emeriti

	Term ends	Email	Snailmail
Chair: John Sullivan	04	sullivan@usfca.edu	Dr. John T. Sullivan Fletcher Jones Professor and Chair Department of Biology University of San Francisco 2130 Fulton Street San Francisco, CA 94117 415-422-5975 fax 415-422-6363
William Font	05	wffont@selu.edu	Dr. William F. Font Department of Biological Sciences SE LA University Hammond, LA 70402 985-549-2901
Larry Roberts	06	LRoberts1@compuserve.com	Dr. Larry Roberts 27700 SW 164th Ave Homestead, FL 33031 305-245-3310 fax 305-245-3310

In Memoriam Committee

	Term ends	Email	Snailmail
Chair: George Benz	04	gwb@tennis.org	Dr. George W. Benz Tennessee Aquarium P.O. Box 11048 Chattanooga, TN 37401-2048 706-694-4666
Fuad. M. Nahhas	05	fnahhas@uop.edu	Dr. Fuad. M. Nahhas University of the Pacific Dept. of Biological Sciences Stockton, CA 95211 209-946-3020

Jim Oliver	06	joliver@gasou.edu	Dr. James Oliver Institute of Arthropodology and Parasitology Georgia Southern University P.O. Box 8056 Statesboro, GA 30460-8056 912-681-5564
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Industrial Liaison Committee

	Term ends	Email	Snailmail
Chair: Tim Geary	04	timothy.g.geary@pharmacia.com	Dr. Timothy G. Geary Senior Scientist Discovery Research Pharmacia & Upjohn Animal Health 7923-25-403 7000 Portage Road Kalamazoo, MI 49001 269-833-0916
Diane Ritter	04	dianne_m_ritter@groton.pfizer.com	Dr. Dianne M. Ritter Global Research and Develop Pfizer, Inc. MS 8118D-2030 Eastern Point Road Groton, CT 06340 860-441-1361
David Lindsay	04	lindsayd@vt.edu	Dr. David Lindsay Virginia-Maryland Regional College of Veterinary Med. Virginia Tech 1410 Prices Fork Road Blacksburg, VA 24061-0342 540-231-6302
Leszek Choromanski	05	leszek.choromanski@intervet.com	Dr. Leszek Choromanski Intervet Inc. P.O. Box 390 Shawnee Mission, KS 66201 913-268-2854
Alan Marchiondo	05	amarchiondo@psiqv.com	Dr. Alan Marchiondo Phoenix Scientific, Inc. St. Joseph, MO 64503 800-759-3664 ext 375
Tom Kennedy	06	tkennedy@mail.farnam.com	Dr. Thomas Kennedy Farnam Companies, Inc 301 West Osborn Road Phoenix, AZ 85013 602-664-1258 (direct) 800-720-0032, ext.2258

Meeting Site Selection Committee

	Term ends	Email	Snailmail
Chair: Lil Mayberry	04	mayberry@utep.edu	Dr. Lillian Mayberry 2009 N. Campbell University of Texas-El Paso El Paso, TX 79902 915-747-6894
Jeff Lotz	05	jeff.lotz@usm.edu	Dr. Jeffrey Lotz Gulf Coast Research Laboratory P.O. Box 7000 Ocean Springs, MS 39560-7000 228-872-4247
Victor Vidal-Martinez	06	widal@kin.mda.cinvestav.mx	Dr. Victor Manuel Vidal Martinez CINVESTAB-IPN Unidad Merida Antigua Carr. A Progreso km. 6

CORDEMEX, C.P. 97310, Apdo.
Postal 73, Merida, Yucatan, Mexico
99-812960, exts. 282 and 300

Membership Committee

	Term ends	Email	Snailmail
Chair: Mike Moser	06	mmoser@uclink4.berkeley.edu	Dr. Mike Moser 30 Bayview Terr Mill Valley, CA 94941 510-642-8123
Ann Barse	04	ambarse@salisbury.edu	Dr. Anne Barse Salisbury State University Henson Science 233A 1101 Camden Ave Salisbury, MD 21801 410-543-6073
Richard Heckmann	05	richard_heckmann@byu.edu	Dr. Richard Heckmann Brigham Young University Department of Zoology Provo, UT 84602 801-422-2495
Hilary Hurd	07	h.hurd@biol.keele.ac.uk	Dr. Hilary Hurd Director: Centre for Applied Entomology and Parasitology School of Life Sciences Huxley Building Keele University Keele Staffordshire, ST5 5BG 44-1782-583034
Sharon Patton	07	spatton@utk.edu	Dr. Sharon Patton Dept of Comparative Medicine University of Tennessee 2407 River Drive Knoxville, TN 37996-4500 423-974-5645
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A man wearing a light-colored long-sleeved shirt, a dark vest, and a wide-brimmed hat is sitting on a boat. He is looking towards the camera. The background shows a body of water and a forested shoreline. The title 'Upstate Alumni Journal' is overlaid on the top part of the image.

Upstate Alumni Journal

Published by Syracuse Medical Alumni Association

S U M M E R 2 0 0 3

- REMEMBERING JUSTUS MUELLER, PhD
- ANTI-AGING
- ALUMNI EVENTS

Parasitologist Extraordinaire

Justus F. Mueller, PhD



by
Eric v.d. Luft, PhD, MLS
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Perhaps the most legendary faculty member in recent Upstate history is Justus F. Mueller, PhD. Even if you weren't a student when he was on the faculty, you have probably heard the stories. Who hasn't heard about his "museum," the bat collections or the transportation of tapeworms and other parasites? Where does the myth end and the truth begin Sometimes, that's hard to tell. For instance, many of the evocative photos shown in this article and on the cover are from a 1941 trip through the Amazon River basin. What little is known about the field trip we reveal, the photos being the most complete diary of the expedition —*Editor*

Among the six formal portraits in the Medical Alumni Auditorium is Joseph S. Kozlowski's 1988 oil painting of Justus Frederick Mueller, one of the foremost American parasitologists of the twentieth century. Dr. Mueller taught in Syracuse from 1928 to 1972, remained active long after his retirement, and is remembered as an unconventional genius of extraordinary knowledge and energy.

Mueller was born in Baltimore, Maryland, on November 20, 1902. Details of his early life are obscure. His father's name was William. He had an older brother, Frederick, a younger brother, Oliver, and a sister, Isabella. In 1971 Isabella donated to the Maryland Historical Society Library in Baltimore a small collection of Frederick's photographs, taken between 1903 and 1925, including some images of Justus as a child.

Mueller was graduated AB from Johns Hopkins in 1923 with a major in zoology. As an undergraduate he also studied briefly at the Corcoran School of Art in Washington, D.C., and the Maryland Institute College of Art in Baltimore. This background earned him a job as scientific assistant for the U.S. Bureau of Fisheries, which he held until 1924. He also worked part-time in the 1920s for the U.S. National Museum and the University of Michigan Natural History Museum. In all these jobs he mostly drew pictures of fish.

At the University of Michigan in 1924, Mueller met Professor Henry Baldwin Ward (1865-1945), chair of the Department of Zoology at the University of Illinois and, at the time, the leading American parasitologist. Ward founded the *The Journal of Parasitology* in 1914 and co-founded the American Society of Parasitologists (ASP) asp.unl.edu/ in 1924. Mueller became Ward's graduate student and a charter member of ASP. He received his MA in 1926 and PhD in 1928, both in parasitology.

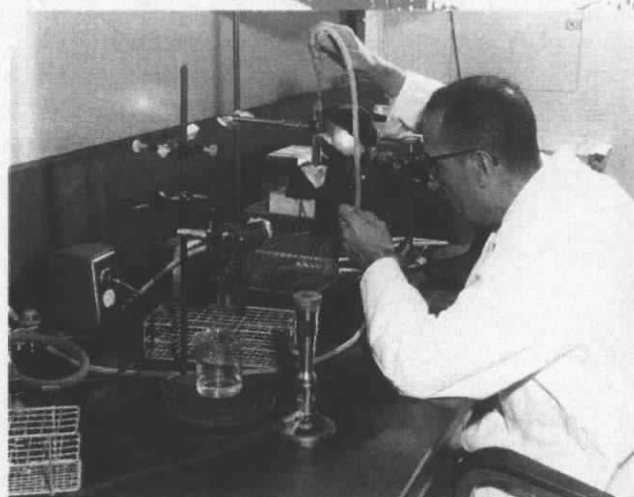
The small collection of Justus Mueller materials in the alumni archives of the University of Illinois includes a cassette tape of "Some Recollections of Henry B. Ward," an extemporaneous speech that Mueller gave on June 28, 1973, at the ASP meeting in Toronto. As the following excerpts from this speech show, Mueller seldom pulled his punches:

First met Ward in 1924 at the University of Michigan. I was an illustrator. Ward invited [me] to his laboratory as his personal research assistant. In Washington, they said "God help you." They said he was scientifically dishonest. They said "Go at your own peril." ...

If you took Ward's guff, you could stand anything. ...

He never looked through a microscope. "Let me see your drawings." He drove himself unmercifully. He worked at night. You didn't leave until his light went out.

I worked in biochemistry under W.C. Rose, a great teacher. When Ward found I was studying biochemistry, he became very disturbed. With Henry B. Ward, parasitology started in morphology and ended in taxonomy.



Life as Ward's assistant was unpleasant and frustrating. He never did any research, but waited for requests. I saw so little of him, we communicated by notes.

We argued about projects. He would not finish things. After three years I quit and began drawing fish for the Illinois Natural History Survey.

[Upon returning] I went to Dean K.C. Babcock to check on Ward's "funny" rules. Babcock knew nothing about them. ... Babcock said he caused more trouble than the rest of the faculty put together. ...

I got a job with the N.Y. State College of Forestry and told Ward who said that [I] couldn't go until he had a replacement. ...

I was angry for two or three years and then we became friends again.

He was a great teacher who taught his men to work. He was an "S.O.B.," but his students made contributions. ...

The deadly flat landscape of central Illinois was ... so depressing to me, what with Ward's nonsense on top of it, that after four years, they couldn't have induced me to stay if they offered to make me president of the university. Since leaving I have returned only once ... in 1967 and if I never get back again it will be soon enough.

With his Illinois PhD hard won and in hand, Mueller became assistant professor of forest zoology at the New York State College of Forestry, now the SUNY College of Environmental Science and Forestry, in 1928. He was promoted to associate professor in 1936, to full professor in 1937, and held this appointment until 1943. Concurrently, beginning in 1930, he taught parasitology, medical entomology, and microbiology at the Syracuse University College of Medicine and SUNY Upstate, achieving the ranks of associate professor in 1943 and full professor in 1956. From 1928 to 1935 he was also one of two field naturalists at the Roosevelt Wild Life Station, studying parasites in Oneida Lake.

Soon after arriving in Upstate New York Mueller made numerous and significant parasitological advances, mostly involving *Spirometra mansonoides*. After discovering this tapeworm in a local cat, he learned how to run its entire life cycle in the laboratory, apart from its natural hosts. In subsequent years he made a point of teaching students how to extract tapeworms from cat stools. His *in vitro* experiments

on cestodes bore much fruit. His scientific publications included 331 articles and one book, *The Nature of Tropical Diseases*, co-written with Justus B. Rice, MD, and published in 1946.

FIELD TRIPS

In the late 1930s he began making scientific expeditions to Central and South America. In the tradition of such prominent naturalists as Fritz Müller (1822-1897), Alfred Russel Wallace (1823-1913), and Henry Walter Bates (1825-1892), he did extensive field work in tropical rainforests. The longest and most rewarding of these trips was in 1941. Mueller traveled overland from Huánuco, Peru, to Tingo Maria, where he and several natives built a balsa raft to float down the Huallaga River as far as Iquitos, with a side trip on horseback to Sapasoa. From Iquitos he and several native companions took a large canoe down the Amazon. He was nearly marooned in Brazil as World War II heated up in the South Atlantic.

Slides and a fragile scrapbook of photographs exist from Mueller's Amazon trip, but no log or diary. The Everson Museum collection includes some of the artifacts he gathered in Peru. On the basis of his South and Central American journeys, he was elected to the Explorers Club in 1980.

Upon returning home, he would have volunteered to serve his country in uniform if Surgeon General Thomas Parran, Jr. had not ordered him to stay stateside and teach parasitology to medical students. Parran's rationale was that the many new physicians whose training was being accelerated for war service would encounter malaria and other parasitic infections among U.S. troops, especially in the Pacific and Mediterranean Theaters.

Mueller's 1945 "Laboratory Manual in Parasitology and Medical Entomology," which he prepared for his students in the Department of Bacteriology and Parasitology at the Syracuse University College of Medicine, is an elaborate 141-page compendium of directions, descriptions, anecdotes, sociology, and history. His 1974 revision of this manual, "Outline of Parasitology and Medical Entomology," prepared for students in the Department of Microbiology at SUNY Upstate, is only 66 pages but shows the same wry humor, detailed precision, wide-ranging erudition, and concern for the history of parasitology that characterized the earlier version.



Amazon basin, 1941.

Correction #1

The warm room in which he incubated hay infusions to feed the copepods he cultivated as intermediate hosts for *Spirometra mansonoides* was notoriously called "Justus' Swamp." To open the door of that room was to experience a sensation comparable to placing one's head in the hole of an outhouse. Justus' response to complaints was to explain in blunt terms that the complainer just did not understand biology.



Tropical rainforest field trip in the Amazon basin, 1941.

Mueller's artistic talent and scientific training placed him in the forefront of zoological illustrators throughout his career.

Parasitology is a relatively recent subdiscipline of zoology. It was founded in the mid-nineteenth century by several Europeans and one American, Joseph Leidy (1823-1891) of Philadelphia. Even though some might give the title to H.B. Ward, Leidy is generally known as "The Father of American Parasitology." Leidy discovered that the human parasite *Trichinella spiralis* was also found in swine and could be transmitted via uncooked pork. Mueller frankly acknowledged Leidy's primacy, and did not even mention Ward in his historical synopsis of parasitology. He often waxed stoic about the fact that other zoologists look down upon parasitology.

Mueller's artistic talent and scientific training placed him in the forefront of zoological illustrators throughout his career. In 1935 Farrar & Rinehart Inc. in New York

City published his practical art book, *A Manual of Drawing for Science Students*, a well-conceived set of lessons that emphasized and clearly set forth the theoretical principles of observation. He closely correlated the ability to draw accurately with the effort taken to observe carefully, both in the field and in the laboratory.

In 1939 Mueller began work on a detailed series of three-dimensional visual aids for embryology, parasitology, and zoology that would become known as the "Mueller-Ward models." Eventually 118 of them, covering sixteen subjects, were mass-produced and sold as teaching tools for students from middle school through college. This "Ward"

was not H.B. Ward, but Henry Augustus Ward (1834-1906) of the University of Rochester and founder of Ward's Natural Science Establishment, Inc. (www.wardsci.com/), which evolved via his son Charles Howell Ward (1862-1943) and other family members into the company for which Mueller designed these models.

MERGING ART AND SCIENCE

Mueller used his talent as an artist in many other ways. He designed the ASP seal in 1959, the Bailey Ashford Medal for the American Society of Tropical Medicine and Hygiene (<http://www.astmh.org/>) in 1969, and various emblems, awards, and mementos for several other organizations. Again for ASP in 1960 he designed the Henry Baldwin Ward Medal, given annually since 1959 to "a member of the Society for no less than three years at the time of the nomination and in mid-career, and who, by self-directed investigations, shall have attained a position of leadership in some phase of parasitological research." Oddly enough, Mueller himself never won the Ward Medal. Perhaps ASP felt that he was already beyond "mid-career" when the award was inaugurated.

Mueller preceded current dean, Dr. William J. Williams as coordinator of Upstate's portrait collection. He was a friend of Joe Kozlowski, the painter of Carlyle F. Jacobsen, Albert G. Swift, Edward C.

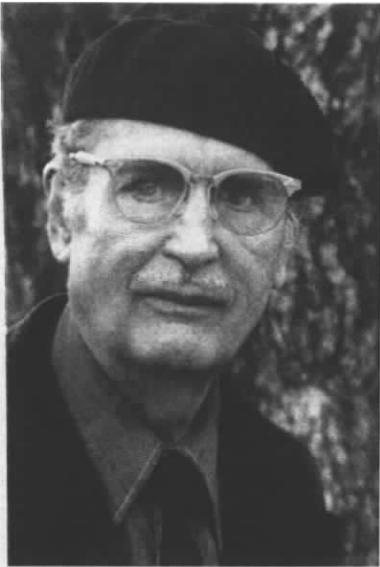
Reifenstein, Dan A. Richert, Herman G. Weiskotten, Philip B. Armstrong, Frank P. Knowlton, and most notably, Elizabeth Blackwell. As one artist to another, Mueller criticized Kozlowski's charcoal sketch of him, but, with Mueller's approval, it evolved into the portrait that now hangs in the Medical Alumni Auditorium.

Among his other appointments, he served on the editorial board of *The Journal of Parasitology* from 1940 to 1944, as acting chair of the SUNY Upstate Department of Microbiology during Orren D. Chapman's sojourn in Jordan from 1954 to 1956, as the SUNY Upstate commencement speaker on June 11, 1961, as editor of *J. Parasitol.* from 1962 to 1978, and as president of ASP from 1972 to 1973.

When he accepted the appointment from ASP as editor of

Mueller was a very private person. He kept his own counsel, was his own master, and was absolutely dedicated to his work.





J. Parasitol. in 1962, he simultaneously filed his letter of resignation, to be activated whenever ASP became dissatisfied with his performance. Despite his brusque personality, or perhaps because of it, he built *J. Parasitol.* into a great journal. Yet many contributors complained about his arbitrary, editing style. He edited the entire journal himself with the assistance of only one part-time typist. His word was law. He would redraw or rewrite authors' work and fill in blank spaces with his own work.

The SUNY Upstate Health Sciences Library holds a full run from the journal's inception through volume 79 (1993).

Mueller was a very private person. He kept his own counsel, was his own master, and was absolutely dedicated to his work. One could often see him in a rowboat on Cross Lake or Onondaga Lake with a plankton net, looking for copepods.

See correction #2.

Rumors abounded, as they will for any mysterious person, that he had many secret wives or that he smuggled parasites into the U.S. inside either his own body or the bodies of his wives, but no strong evidence for any of these rumors has ever appeared.

Mueller was crusty but amiable. He was an excellent teacher, tough but fair with students, and put up with no nonsense. His criticism of colleagues and students was concise and firm, but usually with good humor and sometimes benignly sarcastic, as in his "Advice to Budding Authors" from *J. Parasitol.* 58, 4 (August 1972): 722:

I'm afraid you have fallen into a familiar trap: that just because work was done it must be published.

Most of our efforts are a waste of time because they come up with nothing new, exciting or important. This is particularly true with theses, which are mainly training exercises and seldom deserve immortalization *in toto*. If you can salvage 20% of the average thesis for publication you are doing well.

This paper obviously is vastly overwritten for any new information it contains, and in any case, if it were to be published as it stands you would have page charges at the rate of \$35.00 per page for all pages over six. And when I read this is "the first of a series" to be based on this thesis I grow faint.

I suggest you let this project cool, get a better perspective on it, and then boil it down to a few essentials. The professional writer is distinguished by how much he leaves out, not by how much he puts in.

Then-SUNY Chancellor D. Bruce Johnstone's citation for Mueller's honorary D.Sc. from Upstate in 1991 referred to four accomplishments: his 55 years of teaching, the Mueller-Ward models, his editorship of *J. Parasitol.*, and his published research.

HIS LEGACY

As we write this story, 10 years to the day after Mueller's death on April 2, 1993, we note that his influence on zoology in general and parasitology in particular is still strongly felt. The Mueller-Ward models remain a familiar fixture in biology classrooms nationwide. Second-year medical students at Upstate use his parasitology collection as part of their Medical Microbiology course. This large collection, about 300 shelf feet of prepared specimens, perfect for hands-on learning, is temporarily in storage during the renovations of Weiskotten Hall. As space and funding become available, it may again be displayed publicly in museum quality cabinets. Preservation is a problem. Most of his memorabilia is at risk.

Material on Mueller's life is scarce. There is a small file about him in the Historical-Biographical Folders, Special Collections, Health Sciences Library. In 1982 *J. Parasitol.* published George G. Holz's "Biographical Sketch" in honor of his 80th birthday. But probably the best way to get an idea of his character and personality is to read his remarkable 1961 commencement speech, "From Rags to Riches, or, The Perils of a Parasitologist," published in *The New Physician* 10, 8 (August 1961): 272-276. Since most commencement speeches and speakers are quickly forgotten, we can say that his is remarkable because it was remembered at all, indeed so highly praised that its audience requested that it be published. Mueller offered therein some good advice: "Don't run after the mob. Work in neglected fields. You'll do better work without all those people treading on your feet. And if you do strike oil, it's all yours." Citing musicians' criticism of Sir Thomas Beecham (1879-1961), Mueller concluded: "It's no good unless you sweat!"

Correction #2.

He lived alone on Rock Cut Road and explicitly forbade any funeral or memorial service in his honor. He was married and divorced at least once and had a son, William, born in the 1920's but he never talked about his family.

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Note to Members

The ASP Newsletter welcomes news stories and articles. Please send your text electronically to Scott Gardner as an e-mail and attach as an MS Word 6.0 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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