



NEWSLETTER

Animal Behavior Society

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A quarterly publication

Stephen M. Shuster, Secretary

Herbert C. Wildey, Editorial Assistant
Department of Biological Sciences, Northern Arizona University, Flagstaff, AZ 86011-5640 USA

ABS Student Research Grant Awards 2000

The Animal Behavior Society Research Grants Committee is pleased to congratulate the following 22 recipients of ABS Student Research Grants for 2000. The Committee distributed a total of \$15,500 in awards this year. Awards were divided into three categories: \$1,000, \$500 and \$250. The award winners in each category, listed below in alphabetical order with their proposal titles, were selected from a highly competitive field of 105 meritorious proposals, representing a success rate of 21%. The Committee Chair, Michelle P. Scott, would like to thank the following ABS members for their assistance in reviewing proposals: Shelley Adamo, Susan Alberts, Scott Forbes, Jim Ha, Caldwell Hahn, Ann Hedrick, Arla Hile, Bob Jaeger, Astrid Kodrick-Brown, Cathy Marler, and Scott Sakaluk.

\$1000 Awards:

- Christie, Peter J.*, Queen's University, Song structure and mate choice from a distance in black capped chickadees.
- Doligez, Blandine F.*, Universite Paris VI (UPMC), Experimental test of the influence of local reproductive success of conspecifics and nest predation in breeding habitat selection and life-history traits: plasticity in the collared flycatcher.
- Gilby, Ian C.*, University of Minnesota, Why do male chimpanzees share meat with females? An alternative to the "Meat for Sex" hypothesis.
- Hayes, Sean A.*, University of California, Santa Cruz, Evaluating territoriality and mating success in male harbor seals through playback experiments and paternity analyses.
- Humfeld, Sarah Conditt*, University of Missouri, Sexually-selected mediation of alternative mating tactics in the green treefrog (accepted only \$500).
- Jawor, Jodie*, University of Dayton, Ornamentation and individual quality of female northern cardinals.
- Karubian, Jordan O.*, University of Chicago, Delayed plumage maturation in the red-backed fairy wren: behavioral, genetic, and evolutionary perspectives.

- Mendelson, Tamra C.*, Duke University, Does sexual isolation evolve faster than postzygotic isolation in a sexually dimorphic genus of fish?
- Munoz, Roldan Christophe*, University of California, Santa Barbara, Testing a new size advantage model for sex change with the bucktooth parrotfish, *Sparisoma radians*. Does the inclusion of sperm competition lead to novel predictions?
- Wilson, C. Morgan*, University of Mississippi, Adaptations for reproducing under different time and energy constraints by the yellow warbler, *Dendroica petechia*.

\$500 Awards

- Ardia, Daniel R.*, Cornell University, Geographic variation in interactions among individual quality, immune function and reproductive effort in tree swallows.
- Cannon, Michelle Donaghy*, Arkansas State University, Ecological correlates and benefits of polyandry to Galápagos hawks (*Buteo galapagoensis*).
- Gilley, David C.*, Cornell University, Worker nepotism during queen combat in honeybees.
- Hale, Rebecca E.*, University of Florida, Paternal care in Florida flagfish: Can fathers alter their investment in response to changes in offspring mortality risk?
- Hamilton, Ian Michael*, Simon Fraser University, Resource use by groups of non-territorial western buffalo bream: a test of optimal skew theory applied to group foraging
- Judd, Tim*, Colorado State University, The effects of moisture on the foraging behavior of the ant, *Pheidole ceres*.
- Kahlenberg, Sonya M.*, Harvard University, Endocrinological and ecological aspects of wild orangutan growth and development.
- Murphy, Troy G.*, Cornell University, Sexual selection and assortative pairing in the turquoise browed motmot (*Eumomota superciliosa*).

Smith, Robert J., University of Southern Mississippi, Migratory condition and its influence on reproduction in two Nearctic-Neotropical landbird migrants.

Stevens, Jeff, University of Minnesota, Manipulative mutualism: the effects of harassment on food sharing.

\$250 Awards:

Johnson, J. Chad, University of Kentucky, Across-context aggression in female fishing spiders (*Dolomedes triton*): a test of the 'aggressive spillover' hypothesis for pre-copulatory sexual cannibalism.

Nutt, Karen Joyce, University of California - Berkeley, Effect of metapopulation structure on the behavior and genetics of the North African gundi (Rodentia: Ctenodactylidae).

ABS Developing Nation Research Grants

The following scientists from developing nations have been awarded Research Grants in the amount of \$600 US. Congratulations to all and thanks to Jim Ha and selected referees for administrating the award.

Marina Faria Do Amaral, Brasil

A. Sumana, India

Stella Maris Giannoni, Argentina

ABS Diversity Awards

The following people have been awarded Diversity Grants amounting to \$95 US, which will be applied toward Registration at the upcoming meetings:

Veronica E. Solares

Rojas Veronica Melo Borges

Mariana Otero Cariello

Kristin Field

Carlos B. V. Carvalho

Laura Muniz

ABS Travel Grants

The following people from developing nations have been awarded Travel Grants of \$180-\$240. Thanks to Jim Ha and selected referees for administrating the award, which will be applied toward Housing and/or Travel costs.

Veronica E. Solares

Rojas Veronica Melo Borges

Carlos B. V. Carvalho

Mariana Otero Cariello

Laura Muniz

ABS FINANCIAL REPORT 1998-1999

The annual accounting has been posted to our web page at <http://www.animalbehavior.org/ABS/> and is available in print form to interested parties. If you would like a hardcopy, please enquire via the Central Office (aboffice@indiana.edu).

NOTICE!

All issues of the ABS Newsletter are published *first* on the ABS Webpage. Hardcopies of the Newsletter are delivered by mail and may take weeks to arrive. To get ABS news *fast*, point your browser to: (www.animalbehavior.org/ABS/Newsletters).

DIRECTION OF CORRESPONDENCE

ABS Newsletter and general correspondence concerning the Society: Stephen M. Shuster, Department of Biological Sciences, Northern Arizona University, Flagstaff, AZ 86011-5640, USA. stephen.shuster@nau.edu. Deadlines are the 15th of the month preceding each Newsletter. The next deadline is 15 July 2000. Articles submitted by members of the Society and judged by the Secretary to be appropriate are occasionally published in the ABS newsletter. The publication of such material does not imply ABS endorsement of the opinions expressed by contributors.

Animal Behavior Society Web Site:

<http://www.animalbehavior.org>

Animal Behaviour: manuscripts and editorial matters: Animal Behavior Office, 2611 East 10th St., Office 170, Indiana University, Bloomington, IN 47408-2603, USA. Phone (812) 856-5541. Fax (812) 856-5542. Email: aboffice@indiana.edu.

Change of Address: missing or defective issues of *Animal Behaviour*: Animal Behavior Office, 2611 East 10th St., Office 170, Indiana University, Bloomington, IN 47408-2603, USA. Phone (812) 856-5541. Fax (812) 856-5542. Email: aboffice@indiana.edu

MEMBERS

Please note that the back page of this newsletter may be used for new memberships as well as renewals. It is a convenient way to direct potential new members to the society.

Also, note that your mailing label shows the year through which your subscription is currently paid

ABS OFFICERS

President: Andrew Sih, Center for Ecology, Evolution and Behavior, University of Kentucky, Lexington, KY 40506-0225, USA., E-mail: ndc@pop.uky.edu.

First President-elect: Patricia Gowaty, Institute of Ecology, University of Georgia, Athens, GA 30602-2602, USA. E-mail: gowaty@ecology.uga.edu.

Second President-elect: Michael D. Beecher, Department of Psychology, University of Washington, Seattle, WA 98195, USA. E-mail: beecher@u.washington

Past President: Meredith West, Departments of Biology and Psychology, Indiana University, Bloomington, IN, 47405, USA. E-mail: mewest@bio.indiana.edu.

Treasurer: Marlene Zuk, Department of Biology, University of California, Riverside, CA 92521, USA. E-mail: mzuk@citrus.ucr.edu.

Secretary: Stephen M. Shuster, Department of Biological Sciences, Northern Arizona University, Flagstaff, AZ 86011-5640, USA. Email: stephen.shuster@nau.edu

Program Officer: Emilia Martins, Department of Biology, University of Oregon, Eugene, OR 97403, USA. E-mail: emartins@evolution.uoregon.edu.

Parliamentarian: Kimberly Sullivan, Department of Biology, Utah State University, Logan, UT, 84322-5305, USA. E-mail: yejunco@cc.usu.edu.

Editor: Bennett G. Galef, Jr., Department of Psychology, McMaster University, Hamilton, ON L8S 4K1, Canada. E-mail: galef@mcmaster.ca.

Members-at-Large:

Michelle P. Scott, Department of Zoology, University of New Hampshire, Durham, NH 03824, USA. E-mail: mps@christa.unh.edu.

James Ha, Regional Primate Research Center, University of Washington, Seattle, WA, 98195-7330, USA. jcha@u.washington.edu.

Shelley Adamo, Department of Psychology, Dalhousie Univ., Halifax, NS B3H 4J1, Canada E-mail: sadamo@is.dal.ca

Historian: Donald Dewsbury, Department of Psychology, University of Florida, Gainesville, FL, 32611, USA. E-mail: dewsbury@webb.psych.ufl.edu.

OBITUARY

John Paul Scott

(December 17, 1909 - March 26, 2000)

by Donald Dewsbury

With the passing of John Paul Scott, the field of animal behavior and the Animal Behavior Society lost a major figure who did much to help establish, develop, and promote the field.

Paul was born in Kansas City, MO, the son of John W. Scott, who soon became the long-time chair of the Department of Zoology at the University of Wyoming and a distinguished researcher in the field of parasitology. Late in his career, the elder Scott described the lek system of sage grouse. Paul's mother was a housewife with two years of study at the University of Chicago. He was the second of six children in the family. Paul graduated from the University of Wyoming after just three years of study with letters in football and track and a B. A. in zoology with minors in English and psychology. After his sophomore year, he spent a summer at the Marine Biological Laboratory at Woods Hole. He then received a Rhodes scholarship to attend Oxford University, where, in 1932, he took a first class in the honor school of natural science. After two years at Oxford, he attended the University of Chicago, receiving a Ph.D. in Zoology under Sewall Wright in 1935. Wright, a prime developer of the synthetic theory of evolution, had major influence on Scott's thinking. Scott's dissertation dealt with embryology in guinea pigs, where he encountered the concept of critical periods that would be important in his later work. At Chicago he began research in behavior genetics, working with fruit flies in association with another major influence on his approach, W. C. Allee. Following graduation, during the depression, he took a job as chair of the Department of Zoology of Wabash College.

In 1945 Scott moved to the Jackson Laboratory in Bar Harbor, ME, where he was the founding head of a new Division of Behavior Studies. He remained there until 1965. He built the program into a group of eight staff members and post-doctoral fellows. Wanting to return to academic work, Scott moved to Bowling Green State University as the Director of Graduate Studies in Psychology and Research Professor, later Ohio Regents Professor. At Bowling Green, Scott established a Center for the Study of Social Behavior. He retired in 1980 as a Regents Professor Emeritus of Psychology. He was also a fellow of the Center for Advanced Study in the Behavioral Sciences during 1963-64 and a Research Professor at Tufts University during 1981-82.

In 1933 Scott married Sarah (Sally) Fisher, daughter of novelist Dorothy Canfield Fisher. They had two daughters and two sons. Sally died in 1978. Paul married Mary-Vesta Marston in 1979. She had degrees from Harvard and Yale, had earned a PhD in social psychology from Boston University, was a professor in the School of Nursing there, and earlier had been a research assistant with Paul.

Scott's research interests were always informed by the great world events of his time and his concern with conducting research that might reduce violence, foster peace, and improve economic prosperity. His primary interests were in behavior genetics, development, and social behavior.

Paul's early research included a 1942 study of social behavior in inbred house mice, studies of leadership and dominance in goats, and a study of social behavior and organization in sheep.

A major accomplishment in Scott's career was the development of the behavior program at the Jackson Laboratories. He organized a Summer Investigator Program, in which numerous scientists and students could spend their summer in Bar Harbor conducting research. In 1947, Scott was joined at Bar Harbor by John L. Fuller, who would collaborate with him on much research. The program began with behavior-genetic studies of the many inbred strains of house mice maintained in the laboratory there. Aggression and audiogenic seizures were primary topics. He came to believe that aggression was not innate but was the product of complex interactions between genetic and environmental factors. Scott and Fuller then developed a program of research on dogs, concentrated on five breeds maintained at the Behavior Station near Bar Harbor. An extensive series of studies on genetics and development led to Scott and Fuller's classic *Genetics and the Social Behavior of the Dog* (1965). The book has been reprinted several times. They found evidence of both important genetic and environmental influences on the behavior of dogs. The dog research was definitive, was important within the field of animal behavior, and also influenced many outside of the field who worked with dogs and with human development in various capacities. The developmental research led to a classification of the development of behavior of dogs and other species into stages: neonatal, transition, socialization, and juvenile. Scott used the critical periods concept, that organizational processes are most easily modified when they are proceeding most rapidly, to develop general theory about the role of experience in development. As a practical consequence, he was able to recommend the period of approximately 8-12

weeks of age as the ideal time to move puppies from their mothers to human homes. Scott organized two key conferences at Bar Harbor, one on "Genetics and Social Behavior" in 1946 and the other on "The Effects of Early Experience on Mental Health" in 1951; they were pivotal in coalescing developing interest in animal behavior in North America into a coherent sub-discipline.

More than any other single person, John Paul Scott was responsible for the formation of the Animal Behavior Society. At the 1946 conference, he, along with comparative psychologists C. Ray Carpenter, T. C. Schneirla, and Frank A. Beach, established an ad hoc for Committee for the Study of Animal Behavior Under Natural Conditions; this committee was brought under the auspices of the Ecological Society of America (ESA) in 1952. A 1948 "Conference on Methodology and Techniques for the Study of Animal Societies" at the New York Zoological Society was organized in 1948. Scott began organizing annual paper sessions on "Animal Behavior and Sociobiology" at the joint meetings of the AAAS, ESA, and American Society of Zoologists (ASZ). In the process, he coined the term "sociobiology," though he used it in a different sense from that which later became widespread. The group became organized more formally as the Section of Animal Behavior and Sociobiology of the ESA in 1956 and as the Division of Animal Behavior of the ASZ in 1958. Paul Scott served as the first Chairman of the Section, the antecedent of the Animal Behavior Society. He also served on Nominating Committee (1957-1961) and the Committee on an Independent ABS (1962-1964) of the Section/Division and the Policy and Planning Committee (1965-68) and the Public Policy Committee (1970-1973) of the ABS. When the decision to form an independent Animal Behavior Society was finalized at the 1964 meeting of the AAAS in Montreal, it was Paul Scott and Nicholas E. Collias who presented the founding constitution and bylaws. The openness to all, right of all members including students to present papers, and minimization of administrative structure and cliques are all parts of that legacy. He was among the first group of elected ABS fellows in 1966. In 1990, the ABS honored Paul as the first recipient of its highest award, the Distinguished Animal Behaviorist Award. Scott's *Animal Behavior* (1958) was an important early textbook in the field. Among his other books were *Aggression* (1958), *Early Experience and the Organization of Behavior* (1968), *Social Control and Social Change* (with wife Sarah)(1971), *The Physiology of Aggression and Defeat* (with B. Eleftheriou)(1972), *Separation and Depression* (with E. Senay)(1972), *Guide Dogs for the Blind* (with C. J. Pfaffenberger)(1976), *Critical Periods* (1978), and

The Evolution of Social Systems (1989). He published more than 237 articles.

Scott received many honors. He was a fellow of the AAAS, the Animal Behavior Society, the American Psychological Association, and the New York Zoological Society and a member of both Phi Beta Kappa and Sigma Xi. He served as Chairman of the Section on Animal Behavior and Sociobiology of the Ecological Society of America (1957-58), President of the Maine Psychological Association (1953-54), Vice President of the Ohio Academy of Science (1969), President of the International Society for Developmental Psychobiology (1972-73), Co-founder and President of the International Society for Research on Aggression (1973-74), and President of the Behavior Genetics Association (1975-76). He received the Jordan Prize of the Indiana Academy of Science in 1947, the Dobzhansky Award of the Behavior Genetics Association in 1987, a Special Achievement Award from Bowling Green in 1974, and a Distinguished Alumnus Award from the University of Wyoming in 1976 and their Outstanding Achievement Award in 1990. Bowling Green has named its new research center the J. P. Scott Center for Neuroscience, Mind, and Behavior.

I first met Paul Scott when I was an undergraduate participant in the summer program at Bar Harbor in 1961. I valued our contacts over the years. Paul was rather quiet and lacked the flashiness of many of his contemporaries. Rather, he was a quiet builder of organizations and structures that advanced the field of animal behavior and a solid researcher and systematizer whose social conscience drove much of his research effort.

An autobiographical chapter can be found in the volume: Dewsbury, D. A. (Ed.) *Leaders in the Study of Animal Behavior: Autobiographical Perspectives*, Lewisburg, PA: Bucknell University Press, 1985 and reprinted as *Studying Animal Behavior: Autobiographies of the Founders* by the University of Chicago Press in 1989.

ABS AUTHORS

If you have written or edited a book pertinent to animal behavior which was published in 2000 or will have a book coming out in 2001, please send the citation and a brief synopsis of its contents to Dr. Linda Rayor, Department of Entomology, Cornell University, Ithaca, NY 14853, lsr1@cornell.edu, Chair of ABS Public Affairs Committee.

ANIMAL BEHAVIOR SOCIETY GRADUATE PROGRAM BULLETIN

The 1996 Animal Behavior Society Graduate Program Bulletin (Canada, Mexico and the United States), prepared by the ABS Education Committee, has now been converted to searchable format and is available online at the ABS web site. We will update entries in the coming year. Hard copy remains available for \$8.00 from the Central Office (see direction of correspondence).

MEETINGS

ANIMAL BEHAVIOR SOCIETY ANNUAL MEETINGS

- 2000:** 5 - 9 August at Morehouse College,
Atlanta, GA.
2001: 16-20 July at Oregon State University,
Corvallis, OR.
Watch the ABS website for details.

THE XXVII INTERNATIONAL ETHOLOGICAL CONGRESS At Tuebingen

On behalf of the International Council of Ethologists and the Ethologische Gesellschaft e.V. we cordially invite you to attend and participate in the 27th International Ethological Conference to be held on August 22-29, 2001, in Tuebingen, Germany. The conference venue will be at the "Hoersaalzentrum", next door to the Institutes of Natural Sciences including the Biology Center. Modern lecture halls of different sizes are available.

Tuebingen is one of the prettiest cities in southwestern Germany, in the state of Baden-Wuerttemberg. This community of about 85,000 is located 40 km south of Stuttgart, the state capital. It has been a college town since 1477, when the University of Tuebingen was founded, and has produced such luminaries as the astronomer Johannes Kepler and the philosopher Georg Hegel. Steep, winding streets rise up from the banks of the river Neckar to the "Am Markt", the square that is at the center of the old quarter. The town has numerous half-timbered buildings; one of them, the Kornhaus, now contains exhibits on the city's history and artifacts on printing and publishing. Among its sights are the city hall and the 15th-century Stiftskirche; the choir, noted for its late-Gothic vaulting and ornate tracery, was probably built around 1470. The castle Hohentuebingen, above the city, has an outer gate

built 1606; the present building dates from the early 16th century and rests on a site of a castle dating from the 11th century.

It is our intention to bring together the various branches of ethology and related disciplines to enhance communication between conference participants. Therefore, the conference is open to all ethologists and scientists working in related fields. Main topics will be represented by six plenary sessions (twelve plenary speakers) and by corresponding sessions with contributed spoken and poster papers. Of course there will be ample room for other and more general topics. Symposia and roundtable discussions on hot topics will supplement the program.

For registration and further information please visit our Website: <http://homepages.uni-tuebingen.de/ethology01>. In order to facilitate communication among participants and organizers of the meeting and the sending of information, the organizers call on all potential participants to, whenever feasible, use electronic mail. The electronic mail address to be used for all queries and requests is: ethology01@uni-tuebingen.de

To lower the work load of the participants and organizers, future circulars will also be sent by electronic mail to those participants who request this option.

Postal Address for Correspondence: XXVII IEC Raimund Apfelbach, Universitaet Tübingen, Zoologisches Institut / Tierphysiologie, Auf der Morgenstelle 28, D-72076 Tuebingen Germany, Phone: ++49-7071-2972624, Fax: ++49-7071-294634. If you would like to organize a Symposium or a Workshop send your proposed title to: XXVII International Ethological Conference, Raimund Apfelbach, Chairman, c/o University of Tuebingen, Dept. of Zoology / Animal Physiology, Auf der Morgenstelle 28, 72076 Tübingen, Germany, Phone: 0049-7071-2972624, FAX: 0049-7071-294634

A WORKSHOP IN ETHOLOGY AND CONSERVATION will be held at the International School of Ethology in Erice, Sicily, 4-7 November, 2000. Ethology and ecology interact with economics, politics and sociology to affect conservation of biodiversity and wildlife management. By bringing together researchers with widely different backgrounds, we will compare European and North American policies and approaches to problems in wildlife conservation. Established researchers will demonstrate how knowledge of animal behaviour can

be used in different areas of research and policy-making in conservation biology and wildlife management. Topics will include predation, migration, feeding behaviour, mating systems, social organization, population dynamics and modelling, population genetics, habitat fragmentation, hunting, and "non-consumptive" uses of wildlife. Lectures will be followed by plenary discussions and debates, with ample opportunity for informal discussions. Speakers include Marco Apollonio, Emilio Baldaccini, Joel Berger, Isabelle Côté, André Desrochers, Steve Dobson, Marco Festa-Bianchet, Jean-Michel Gaillard, Morris Gosling, Jack Hogg, Norman Owen-Smith, David Shackleton and Rosie Woodroffe. Persons wishing to attend the Workshop should write to: Prof. Danilo Mainardi, Dipartimento Scienze Ambientali, Università di Venezia, Campo della Celestia 2737/B, Castello, 30122 Venice, Italy, e-mail: mainardi@unive.it. There is no formal application form. Applicants should include a full Curriculum Vitae with their letter of application. We particularly welcome applications from graduate students, postdoctoral fellows and persons working in conservation and wildlife management for governments and for NGOs. Deadline for applications is 15 September 2000. The cost will be approximately US\$ 500, including lectures, room, board, field trip and transport to and from the Palermo airport. A 50% discount is available for full-time students. More detailed information, including timetable of lectures, will be sent to successful applicants with the letter of acceptance.

THE NINTH INTERNATIONAL CONFERENCE ON HUMAN-ANIMAL INTERACTIONS will take place in Rio de Janeiro, Brazil, on 13–15 September 2001, hosted by ARCA Brasil and AFIRAC-France on behalf of IAHAIO, the International Association of Human-Animal Interaction Organizations. This is the first such conference to take place in South America and presentations are expected to examine all aspects of our relationships with animals including: historical, cultural, cross-cultural, demographic, public health, veterinary, therapeutic, psychological, sociological and ethological. Plenary talks by acknowledged experts from around the world will be "state of the art" messages from various fields but all related to the main topic of the conference. Satellite meetings will be scheduled on the two days prior to the main conference. The goals of the conference are 1) to assess our relationships with animals for the 21st century, putting cultural differences and regional aspects into a global perspective; 2) to bring together scientists and practitioners from around the world interested in all aspects of human-animal interactions;

3) to present research and programs about the benefits of interactions with animals to human wellbeing and in therapeutic interventions; 4) to present research and programs about relationships with companion animals and solutions to issues associated with their keeping or issues associated with stray animals, and 5) to encourage and assist policy makers at the international, national and regional level to better recognize the need to integrate animals in society. Target audiences: Researchers and practitioners in all areas of human-animal relations; Human and animal health and welfare specialists; Policy makers, advisers and educators involved with human and/or animal health and welfare; the media. The program committee will consider scholarly contributions in one of two categories: oral contributed papers (15 minute talks) and posters — with program time reserved for viewing and discussion with the authors. Both presentation formats are of equal value. In addition, limited space will be available for seminars/workshops on specific topics. Space will also be allocated to approved sponsors and exhibitors. To receive further conference information in due course, including the call for papers and the registration package, send Title, name, address (include country), telephone, fax number & e-mail address, Occupation/Profession to 9TH International Conference on Human-Animal Interactions, Conference Secretariat: AFIRAC, 32 rue de Trévisse, 75009 Paris, France, Tel. +33 1 56 03 12 00, Fax: +33 1 56 03 13 60, email: rio2001@i-et-e.fr

THE SOCIETY FOR RANGE MANAGEMENT
54TH ANNUAL MEETING, Kailua-Kona, Hawaii;
February 17-23, 2001,
<http://www.casrm.org/Hawaii.shtml>. This meeting is sponsored by the California Section of the Society for Range Management. The main conduit for information is the above website. Updates will be made to the website as more information becomes available. The deadline for submission of abstracts is July 1 and for the pre-convention “Trail Boss” brochure (including advertising and detailed meeting information) is August 15. Contact Susan Edinger Marshall (Publicity Chair) if you require information not available on the website. (707)826-4064
sem11@axe.humboldt.edu

OPPORTUNITIES

The Secretary reminds you that a time lag exists between my receipt of advertisements and the publication of the Newsletter. Positions listed here may already be filled. Please contact those offering opportunities before applying.

FACULTY POSITION IN COGNITIVE SCIENCE: The Institute for Cognitive Science of the University of Louisiana At Lafayette invites applications for a tenure track faculty appointment at the assistant or associate professor level. Appointment is anticipated for the Fall of 2000. The Institute for Cognitive Science is the home of the University's new PhD Program in cognitive science. Focus areas of the new program are in cognitive processes, comparative cognition, computational models of mind, cognitive neuroscience, and language and thought. Applicants should hold a Ph.D. in psychology or a related discipline, and must exhibit exceptional promise for empirical and theoretical research. Please send a curriculum vitae, selected reprints, a short statement of research interests, and three letters of reference to Steve Giambone; Institute for Cognitive Science; UL Lafayette; P.O. Drawer 43770; Lafayette, LA 70504. Formal review of applications will commence 30 April, but applications will be accepted until the position is filled. The University of Louisiana at Lafayette is an equal opportunity/affirmative action employer.

POSTDOCTORAL RESEARCH POSITIONS in behavior, neuroimaging, and molecular genetics. One position will focus on primate social behavior and neuroanatomical correlates assessed by magnetic resonance imaging. MRI training is not required for those with strong computer skills. Observational research skills are essential. The second position will focus on steroid hormone receptor gene expression in transfected cell cultures and brain. Molecular genetic and tissue culturing skills are required. Positions available immediately to qualified candidates with a Ph.D. or M.D./Ph.D. degree. Send letter of interest, curriculum vitae, and E-mail addresses for three references to: David Lyons, Ph.D., Department of Psychiatry, Stanford University Medical Center, Stanford CA 94305-5485; dml Lyons@stanford.edu. Stanford University is an Equal Opportunity Employer.

TERRESTRIAL VERTEBRATE ECOLOGIST: Lawrence University, a selective, small liberal arts college, seeks an ecologist with expertise in terrestrial vertebrate studies for a nine month, full-time position. Teaching responsibilities for the three academic terms will consist of one course per term to include Principles of Biology, General Ecology and an additional laboratory course related to the candidate's area of expertise. Strong potential for excellence in undergraduate teaching is essential. Interest in conservation or ecological restoration issues is desired, but not necessary. Candidates should send a

letter of application, curriculum vitae, statements of teaching philosophy and research interests, copies of transcripts (undergraduate and graduate) and contact information for three references to: Professor Nicholas Maravolo, Biology Department, Lawrence University, P.O. Box 599, Appleton, WI 54912. Review of materials will begin April 15, 2000 and continue until position is filled. Lawrence University is an Affirmative Action/Equal Opportunity Employer.

ASSISTANTS NEEDED FOR THE STUDY OF SATIN BOWERBIRDS: Volunteer field assistants are needed for the study of mate choice in satin bowerbirds. Assistants will primarily help to band birds and to observe behavior at bowers. The study site is in Northern New South Wales, Australia. This is a renewal of a study of mate choice which began 16 years ago in which we will follow the success of the offspring of male bower holders we studied earlier. The field season will run from mid-September through late December. Assistants must arrange for travel to the field site; we will provide food and lodging at the site. Tasks assistants will perform include assisting in the capture, banding and blood sampling of birds, locating bower sites and clearing trails, monitoring the behavior of birds at bowers with infrared sensing equipment and camcorders and by direct observation. The work is very physically demanding and assistants must be focused on this project and flexible in their requirements. Contact: Seth Coleman or Gerry Borgia, Department of Biology, Biology-Psychology Building, University of Maryland, College Park, Maryland 20742-4415, e-mail: sc287@umail.umd.edu, tel: (301) 405-6943;

FIELD ASSISTANTS needed from 18 August to December 8, 2000 to assist with a study of multi-scale habitat relations of medium and large-sized mammals at Big Bend National Park, Texas. The park is located in the Chihuahuan desert where the Chisos Mountains rise from the desert floor as a wooded oasis. Assistants will help collect mammal richness and abundance data using fecal pellet counts, track surveys, and cameras fitted with motion detectors. Previous field experience is preferred, but no particular skills are required. Applicants must have the ability to work long hours in rough terrain and hot weather conditions. Comfortable lodging, stipend (approx. \$400/month), as well as travel on-site and between a major airport and the study site will be provided. To apply, send cover letter describing your interests and experiences (including dates of availability), resume, and the names, addresses,

phone numbers, and email addresses of 3 academic or professional references that can attest to your reliability, qualifications and attitude. Deadline for receipt of applications is July 1. Contact: Dr. Wendy E. Sera, Department of Biology, Baylor University, PO Box 97388, Waco, TX 76798-7388, Phone: (254) 710-6794, Fax: (254) 710-2969, Wendy_Sera@baylor.edu.

ANNOUNCEMENTS

MOLLY MORRIS WINS NSF CAREER GRANT: Morris, whose five-year grant is for \$366,000, will include Ohio University undergraduate students in her lab research. She will invite students from the University of Mexico, a collaborating institution, to join her and her students on research trips to Mexico. To make her research and that of other faculty more accessible to her students, Morris will create a Web page that will offer links to research projects. Morris joined the faculty of Ohio University in 1997, and is using swordtail fish as an animal model to study mating habits, examining the role of male physical characteristics in attracting females. In this case, Morris is looking at a vertical bar pattern of pigments on male swordtail fish. She suspects the symmetry, spacing and number of bars might help females recognize their own species and determine if the male would be a healthy, viable mate. Molly says, "The educational aspect of this project will allow students to participate and gain an understanding of research."

RICHARD H. WAGNER has accepted a position at the Konrad Lorenz Institute. His new address is: Dr. Richard H. Wagner, Senior Scientist, Konrad Lorenz Institute, Austrian Academy of Science, Savoyenstrasse 1A, A-1160, Vienna, AUSTRIA, Phone: +43 1 486 2121 31, Fax: +43 1 486 2121 28, email: r.wagner@klivv.oeaw.ac.at.

FOR SALE: ANIMAL BEHAVIOUR, vol 18-58, few issues missing, few MONOGRAPHS from vol 1-6; AMERICAN SCIENTIST, vol 58-86; Grzimek's ANIMAL LIFE ENCYCLOPEDIA, 13 vol. Best offer plus postage. HAROLD F. SEARS, 3590 Glenn Springs Rd., Spartanburg, SC 29302 <hfsears@prodigy.net>.

ANIMAL BEHAVIOR MEDIA LIBRARY: The Education Committee of the Animal Behavior Society has established a Media Library for use in teaching

animal behavior. We are now soliciting submission of high-quality photographs, line drawings, and data graphs illustrating important principles in animal behavior for use in teaching about animal behavior, and for which the submitter can grant copyright to ABS. To submit an image for the library, send the following: 1. Publication-quality photograph, line drawing, or data graph, or a digital file in some standard format (i.e., GIF or JPEG); 2. A statement saying that you are the owner of the image, and that you grant its copyright to ABS; 3. A descriptive caption, identifying the relevant species, principle, and appropriate teaching use(s) of the image; 4. Reference to one published source (e.g., article or book) providing more information about the topic addressed in the image; 5. How to give credit to the person(s) who provided the materials. To submit materials electronically, contact Michael Renner for instructions, via mrenner@wcupa.edu. Materials may also be submitted by regular mail to: Michael J. Renner Chair, ABS Education Committee, Department of Psychology, West Chester University, West Chester, PA 19383-2112

ETHOLOGY IS THE MOST OTHER-WORLDLY

a poem by Morely Overshott (submitted by Christopher K. Starr)

Ethology is the most other-worldly
Branch
Of natural science.
Ethologists are specialists
In learning to think
Like someone else.
Other species.
What could possibly stand farther from ordinary
Human experience?
Ethologists presumably
Make good historians
And cultural geographers.
After all, how much difference can there be
Between getting inside the head
Of another species,
Or another time or place
Of one's own?
And why do ethologists' autobiographies
Not hew truer to spirit
Than all others?
To examine oneself from outside,
An ethologist must only imagine
That the examined
Is another species.

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 - NEW MEMBERSHIP. **Print or type full name and mailing address at bottom of page.**
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