

# NEWSLETTER

## Animal Behavior Society

Vol. 35, No. 4  
November, 1990  
A quarterly publication

*Janis Driscoll, ABS Secretary*  
*Department of Psychology, University of Colorado at Denver, Campus Box 173, Denver, Colorado, 80217-3364*

### ELECTION RESULTS

Two hundred and thirty-two ABS members, about 9% of the membership, voted in the election. The following individuals were elected. They will take office at the end of the annual meeting in June, 1991.

**2nd President-elect:** Zuleyma Halpin

**Editor:** Meredith West

**Treasurer:** Robert Matthews

**Member-at-large:** Bennett Galef

### DUES ARE DUE DEC. 1

By now, you will have received your dues notice for 1991. Please note that your dues must be paid by **Dec. 1, 1990** in order to avoid a late charge of \$5. If you miss the deadline, please include the late charge with your dues payment.

### PROFESSIONAL CERTIFICATION

Application forms for ABS certification of applied animal behaviorists are available. The certificate program is set up to recognize the professional training of applied animal behaviorists by establishing specific standards and criteria for certification. Those studying companion animal behavior, farm animal behavior, behavior of animals in zoos, and others who apply animal behavior principles to solutions of animal behavior problems may wish to inquire. For an application form and pamphlet describing the objectives, requirements, and two levels of certification, write to John C. Wright, Chair, Board of Professional Certification, Dept. of Psych., Mercer University, Macon, GA 31207.

### ANIMAL BEHAVIOR SOCIETY DIRECTION OF CORRESPONDENCE

**ABS Newsletter** and general correspondence concerning the Society: Janis Driscoll, Dept. of Psychology, Campus Box 173, University of Colorado at Denver, P.O. Box 173364, Denver, CO 80217-3364, USA. Deadlines are the 15th of each month preceding each Newsletter. Next deadline is January 15, 1991. (FAX 303-556-4861).

**Animal Behaviour** - manuscripts and editorial matters: Lee Drickamer, Dept. of Zoology, Southern Illinois University, Carbondale, IL 62901, USA.

**Change of address**, missing or defective issues of *Animal Behaviour*: Robert W. Matthews, Dept. of Entomology, University of Georgia, Athens, GA 30602, USA.

### ABS OFFICERS

**President:** Charles T. Snowdon, Dept. of Psychology, University of Wisconsin, Madison, WI 53706, USA

**1st President-elect:** H. Jane Brockmann, Dept. of Zoology, University of Florida, Gainesville, FL 32611, USA

**2nd President-elect:** Gail Michener, Dept. of Biological Sciences, University of Lethbridge, Lethbridge, Alberta, T1K 3M4, Canada

**Past President:** Patrick Colgan, Dept. of Biology, Queen's University, Kingston, Ontario, K7L 3N6, Canada

**Secretary:** Janis Driscoll, Dept. of Psychology, University of Colorado at Denver, Denver, CO 80217-3364, USA

**Treasurer:** Robert Matthews, Dept. of Entomology, University of Georgia, Athens, GA, 30602, USA

**Program Officer:** Lynne Houck, Dept. of Ecology and Evolution, University of Chicago, Chicago, IL 60637, USA

**Parliamentarian:** George Waring, Dept. of Zoology, Southern Illinois University, Carbondale, IL 62901, USA

**Editor:** Lee Drickamer, Dept. of Zoology, Southern Illinois University, Carbondale, IL 62901, USA

**Members-at-large:** George Barthalamus, Dept. of Zoology, North Carolina State University, Raleigh, NC 27650, USA

Steven Austad, Dept. of Biology, Harvard University, Cambridge, MA 02138, USA

Martin Daly, Dept. of Psychology, McMaster University, Hamilton, Ontario, L8S 4K1, Canada

**Historian:** Donald Dewsbury, Dept. of Psychology, University of Florida, Gainesville, FL 32611, USA

## ABS COMMITTEE CHAIRS

**Animal Care:** Joy Mench (1993)

**Career Awards:** Patrick Colgan (1991)

**Education:** Larry Williams (1991)

**Ethics:** Edward H. Burtt, Jr. (1993)

**Film:** Jack Demarest (1991)

**Issues in Applied Animal Behavior:** Benjamin H. Hart (1993)

**Membership:** Ira Perelle (1993)

**Nominations:** Past President (Patrick Colgan)

Past Past President (John Fentress)

Past Past Past President (Sid Gauthreaux)

**Organization and Bylaws:** George Waring, (1992)

**Policy and Planning:** Charles Blaich (1991)

**Public Affairs:** Irene Pepperberg (1992)

**Research Grants:** George Barthalamus (1991)

**Endowments:** David Dunham (1993)

**Board of Professional Certification:** John Wright (1994)

## PRESIDENT'S MESSAGE

from Chuck Snowdon

I have scheduled meetings with Dr. Mary Clutter, Assistant Director for Biological, Behavioral, and Social Sciences at the National Science Foundation and with Dr. Stephen Koslow, Acting Director of Basic Brain and Behavioral Research at NIMH to speak about the benefits of Animal Behavior Research and our concerns with the low levels of research funding we have been receiving. Both have welcomed my visit and seem willing to listen to our arguments. The suggestions made at the Annual Meeting and the letters that some of you have written since then have been valuable

in organizing my arguments.

The Animal Behavior Society has also been invited to testify before a Task Force for the 21st Century at NSF in late November. Jeanne Altmann, former ABS Editor and President is a member of the Task Force. The questions of the Task Force are: Is NSF effective in supporting research in our field? Is the allocation of funds at 78% for research, 12% for instrumentation and 10% for education an adequate division? How effective is NSF in funding interdisciplinary programs relevant to us? How can NSF gain access to underutilized sources of scientific talent? Are our research areas well served by the present organization of NSF? (Some would like to see Social and Behavioral Sciences separated from the Biological Sciences.) What should be priority areas of NSF support? How rapidly is NSF adapting to changes in science? How can NSF be distinctive with respect to our field? I'd like to hear from you concerning your opinions on any or all of these issues so that I can represent a broad cross section of our views when I present my testimony.

By now you are probably asking yourself, "Chuck, how can I help promote the cause of animal behavior research?" Several suggestions emerged at the Annual Meeting that each of us can do as individuals in our own communities: (1) Volunteer to give talks to local Audubon Society, Sierra Club, Wilderness Society, Zoological Society, etc. (2) Work with the news service on campus, if you have one, or with a local newspaper reporter to develop stories on animal behavior and related topics for the local news media. It is much better to work through a campus news service because you have control over the final product. You cannot expect to see the copy of a newspaper writer prior to publication. (3) Volunteer to be a discussant on your PBS station when the new BBC Trials of Life shows are shown, or call attention to ties between nature programs that are broadcast and work done on your campus by you and your colleagues. (4) If you are interviewed by the press or appear on television, or if your work is filmed by the BBC or other filmmaker, be sure to insist that your funding agency (if any) gets mentioned in the product. If NSF funding, for example, is associated with a story on animals that the general public finds interesting, then we gain leverage in arguing for more funds

from NSF. We also need to educate the public that nature films are the result of many scientists spending many person years doing research in order to get to the stage where the films can be made. (5) Help shy colleagues to get publicity by encouraging them to talk with the news service or local media. (6) If you are a good writer or know a good writer, prepare a series of Curious Naturalist articles for a local newspaper. In smaller communities, good copy is always in demand. (7) Speak with your local, state (provincial), and federal representatives. Tell them about your research and invite them to visit local field sites or laboratories. Be prepared to explain the value of your work. Be sure to tell them about the ABS Guidelines for the Use of Animals in Research, and point out our pioneering role in animal welfare concerns in research. (8) Researchers should prepare in advance a one page summary of research in lay terms. This will help you to articulate your own research if asked in an oral interview and give you a concrete document to pass out to others. Again, give credit to your funding sources! (9) Volunteer to give talks at elementary, middle, and secondary schools. Invite teachers of biology to bring interested students in their classes to your lab or local field site. Let teachers know that you are willing to have well-motivated secondary school students work on research with you. (10) Volunteer to give educational talks at local zoos and nature centers. (11) Be sure to cover animal behavior and behavioral ecology when you teach introductory courses. This is where we recruit tomorrow's scientists and educate tomorrow's voters.

I have always found audiences intrigued and interested when I talk about my work and have never encountered anyone being hostile. I think most people enjoy hearing about animal behavior. I can start with some attractive slides to get an audience hooked and then lead them into scientific questions that indicate why I am not just looking at nice animals, but learning something that they find interesting and even important. If we can each make some additional effort in the next months and years to communicate what we do to a broader audience, we can create the public opinion that we will need to get better acceptance of our value and better funding. Go to it!

## MEETINGS

**1992 ABS MEETING.** The Animal Behavior Society will hold its 29th Annual Meeting at Queen's University, Kingston, Canada from 13-18 June 1992. Address inquiries to L. Ratcliffe or P. Colgan, Dept. of Biology, Queen's University, Kingston, Ontario K7L 3N6, Canada.

**M I D W E S T A N I M A L B E H A V I O R CONFERENCE.** April 12-14, 1991, Midland, Michigan. Sponsored by Central Michigan University, Mt. Pleasant, MI 48859. For information contact Ray Hampton, 517-774-3895.

**CONFERENCE ON REPTILIAN CHEMICAL SENSES.** June 15-16, 1991. To be held at the Penn Towers Hotel, Philadelphia, PA just prior to the Chemical Signals in Vertebrates meeting scheduled for June 16-22 at the same location. For information, contact Dr. Mimi Halpern, Dept. of Anatomy and Cell Biology, Box 5, SUNY Health Science Center at Brooklyn, Brooklyn, NY 11203. Tel: 718-270-2958. FAX: 718-270-3378.

**AAAS 91.** The 1991 annual meeting of AAAS will be held in Washington, DC, February 14-19. For information, contact the AAAS meetings office at 202-326-6462.

**1990 ASZ MEETING** will be held in San Antonio, Texas, December 27-30. Over 750 speakers are scheduled, providing a rich and varied program including 20 symposia, workshops and special sessions. The ABS Secretary has been provided with a small number of copies of the Program Summary, Housing Form and Registration Form for this meeting. If you would like to have one, write, J. Driscoll at the address given earlier or contact ASZ at 104 Sirius Circle, Thousand Oaks, CA 91360; Phone 805-492-3585; FAX 805-492-0370.

**THE HIGHLANDS CONFERENCE ON PLETHODONTID SALAMANDERS** will be held in early June 1992 at the Highlands Biological Station in Highlands, North Carolina. This meeting will follow the tradition of the First (1972) and the Second (1982) Conferences in exploring new

directions on plethodontid research. The Conference features invited papers, an evening poster session, and a symposium. All interested are encouraged to participate. Future announcements concerning conferences dates, a call for papers, and registration information will be sent only to those on our mailing list. To receive these announcements, send your name, address and phone number to Dr. Robert Jaeger, Dept. of Biology, University of Southwestern Louisiana, Lafayette, LA 70504-2451; Phone 318-231-5235; FAX 318-231-5834.

## ANNOUNCEMENTS

**SYMPOSIUM PROPOSALS** are invited for the 1992 (Vancouver, BC) meeting of the American Society of Zoologists, Division of Animal Behavior. Contact Jan Randall, Program Officer ASZ-DAB, Dept. of Biology, San Francisco State University, San Francisco, CA 94132 (415-338-7100).

**COMMITTEE FOR THE NATIONAL INSTITUTES FOR THE ENVIRONMENT.** The Committee for the National Institutes for the Environment has opened an office to spearhead efforts to establish a National Institutes for the Environment (BioScience 40(8):567). The NIE proposal is an effort to greatly expand environmental research and education to drive environmental policy through a new funding agency. The present proposal is to set up a series of problem-oriented institutes that would support competitively-awarded mission oriented environmental research. Legislation to have the National Academy of Sciences study the NIE concept is presently moving through Congress. The plan for the NIE is still in an early conceptual stage. Environmental scientists who are interested in having input in the process should contact Dr. David E. Blockstein, Director of the Washington office of the NIE Committee. 730 11th St. NW, Washington, DC 20001-4521; Phone 202-628-4303; FAX 202-628-4311.

**SYMPOSIUM AND CONTRIBUTED PAPER SESSION** on the evolution of geographic variation in behavior. This is a call for papers to be presented at a contributed paper session at the June meeting of the Animal Behavior Society. The contributed paper session will be associated with a

symposium that will address the value of research on geographic variation in behavior for (1) investigating evolutionary processes such as speciation and (2) for developing a better understanding of how behavioral phenotypes evolve. Poster presentations are also encouraged.

Possible travel for graduate students and post-docs. has been included in a proposal to fund the above symposium which has been submitted to NSF. Funds have been requested to support travel by young investigators who do not hold tenure-track positions. Availability of support will depend upon whether the proposal is funded. Those interested in applying for the funds should send (1) an abstract, (2) a curriculum vitae, and (3) names, addresses (including E-mail), and telephone numbers of two references to Susan A. Foster, Dept. of Zoology, University of Arkansas, Fayetteville, AR 72701.

**FISH ETHOLOGISTS:** The Newsletter of the International Association of Fish Ethologists will resume publication in the spring of 1991. Interested persons should contact Jeffrey Howe, Division of Fishes, NHB, WG-12, National Museum of Natural History, Smithsonian Institution, Washington, DC 20560 (202-357-2610).

## OPPORTUNITIES

**EDITOR'S NOTE:** Opportunities and announcements are published in the next issue of the Newsletter after they are received. However, because of the timing of the Newsletter, it sometimes happens that a position is filled between the time that the Editor receives the advertisement and the time of the next issue of the Newsletter. The Editor apologizes for any inconvenience this may cause, and recommends that interested persons call to determine if a position is still available before making a formal application.

**CANADIAN RESEARCH OPPORTUNITY** with Richardson's ground squirrels for researchers seeking study site with animals of known histories. Research site is located 40 km from the University of Lethbridge, Alberta, Canada. Ground squirrels have been ear-tagged since 1986; maternal kinships known for 5 generations. This readily-trappable and easily-observable squirrel is ideal for studies of mate choice,

mating success, social and spatial relationships, reproductive energetics, hibernation ecology, survival and fecundity. Researchers planning non-invasive behavioral or ecological studies compatible with ongoing research will be considered. Limited research funds available; no salary support available. The University of Lethbridge is an undergraduate institution. Graduate students with affiliations at other institutions or postdoctoral fellows welcome. For further information, contact Gail R. Michener, Biological Sciences, University of Lethbridge, Alberta, Canada, T1K 3M4 403-329-2568 or 403-732-4630).

**VOLUNTEERS.** Approximately 20 volunteer positions are open in 1991 at the American Museum of Natural History's Southwestern Research Station in Portal, Arizona. The volunteer program is run annually and offers students in biological sciences opportunities to observe and become involved with scientists doing field research. Food and lodging are provided in exchange for four hours per day of routine chores with the remaining time available for research activities.

The program is open to undergraduate and graduate students; the latter may pursue their own research projects. Faculty with promising students should alert them to this opportunity for development and evaluation of their career goals.

Volunteers are needed between March 15 and November. Appointments are for part of this period, with a minimum appointment of six weeks. Applicants for spring positions (March-May) should submit forms by 15 February; summer volunteers (June-August) by 1 April and fall volunteers (Sept.-Nov.) may apply any time. For application forms, write Resident Director, Southwestern Research Station of the American Museum of Natural History, Portal, AZ, 85632. Phone: 602-558-2396.

**BIOPSYCHOLOGIST.** The Department of Psychology at the Johns Hopkins University expects to add an individual to their faculty whose research record demonstrates a broad, integrative approach to behavior and its physiological, ecological, or evolutionary bases. The position begins July 1, 1991. Applications from women and minorities are especially encouraged. Please send a curriculum vitae, three letters

of reference, and representative publications to: Biopsychology Search Committee, Dept. of Psychology, The Johns Hopkins University, Baltimore, MD 21218. Pending administrative approval, interviews should begin in the fall, 1990, but the position will remain open until a suitable candidate is identified.

**BEHAVIORAL PHYSIOLOGIST/ NEURO-ETHOLOGIST:** The Department of Biological Sciences, University of Cincinnati, has a tenure-track position in behavioral physiology available at the assistant professor level starting Sept. 1, 1991. We seek an individual whose primary research interests are in animal behavior and its underlying physiological mechanisms. Preference will be given to candidates whose research integrates cellular and/or physiological approaches with behavioral observation and analysis, and who can interact with colleagues in behavioral ecology and physiology. The University is a comprehensive state university with an enrollment of 36000 students. The department has 30 faculty in diverse areas and approximately 70 graduate students. It is currently expanding in the areas of environmental/evolutionary biology and cellular/ molecular biology.

The position requires a PhD. degree and postdoctoral experience is preferred. The successful candidate will be expected to develop a vigorous, externally-funded research program, train graduate students, and teach graduate and undergraduate courses in animal behavior and/or their speciality. Applicants should submit, by Nov. 15, a curriculum vita, a description of research and teaching interests and at least 3 letters of reference to Dr. George W. Uetz, Behavioral Physiologist Search Committee, Dept. of Biological Sciences, University of Cincinnati, Cincinnati, OH 45221-0006.

**DIRECTOR, INSTITUTE OF ANIMAL BEHAVIOR.** The Institute of Animal Behavior at the Newark Campus of Rutgers University is reopening its search for a Director. The Institute was founded by the late Daniel S. Lehrman over 25 years ago. Its seven faculty members maintain a broad interdisciplinary research and training program for approximately 20 graduate students and five post-doctoral fellows. We invite nominations of, or applications from, individuals with an earned doctorate

and a record of distinguished achievement in scholarship and research which would justify appointment as a tenured professor. We are seeking candidates from a broad spectrum of disciplines who have a strong interest in psychobiological inquiry. The search will remain open until December 31, 1990. Applicants should send a curriculum vitae, a brief description of current research activities, and three letters of recommendation to Chair, Search Committee, Rutgers, The State University, Graduate School-Dean's Office, 360 Martin Luther King Blvd., Newark, NJ 07102.

**POSTDOCTORAL POSITION** is available at the University of Texas at Austin beginning January 1991 through an NIMH training grant that focuses on the neurobiological bases of behavior. We are interested in individuals whose research integrates physiological, ecological or evolutionary interests with behavioral studies. Applicants should send a vitae, list of references and statement of research interests to D. Crews, Dept. of Zoology, University of Texas, Austin, TX, 78712.

**RESEARCH ASSISTANTSHIP** available for ecological research on gopher tortoises. Joint funding is anticipated from the Louisiana Natural Areas Inventory and Southeastern Louisiana University to support a combined research/teaching assistantship for a Master's-level student to conduct a two year ecological study on endangered populations of gopher tortoises in eastern Louisiana. Emphasis will be on habitat utilization patterns using radio telemetry. Students would be expected to use data generated from the study for a Master's thesis at Southeastern. The stipend is currently \$6000/year, plus a full out-of-state tuition waiver (\$8000 total value). Position available January, 1991 or May 1991. Contact Richard A. Siegel, Dept. of Biological Sciences, Southeastern University, P.O. Box 814, Hammond, LA 70402. Phone 504-549-2162.

**ASSISTANTSHIPS** available for ecological research on reptiles and amphibians. Teaching and/or research assistantships are available for Master's-level graduate students to work on the ecology of reptiles and amphibians in southern Louisiana, Mississippi and Florida. Potential projects include a long-term study of the

herpetofauna of the Gulf Islands National Seashore. Students would be expected to use data generated from their study for a Master's thesis at Southeastern Louisiana University. Assistantships available starting January or August, 1991. For information contact Richard A. Siegel, Dept. of Biological Sciences, Southeastern Louisiana University, P.O. Box 814, Hammond, LA 70402. Phone 504-549-2162.

**SUMMER INTERNSHIPS** working with birds. Up to three wading-bird internships will be available during spring and summer (April through August 1991) for students desiring 10 to 12 weeks of field experience studying the behavioral and physiological ecology of a large population of colonial-nesting wading birds. Although experience is not necessary, a serious interest and devotion to diligent field work in avian ecology is absolutely essential. The study site is a pristine 3000 hectare Atlantic coast salt marsh on the historic Hobcaw Barony near Georgetown, South Carolina, home of the Belle W. Baruch Institute for Marine Biology and Coastal Research (an NSF Long-Term Ecological Research site). Field work involves observing the feeding and breeding behavior of herons, egrets, and ibises; as well as radio-telemetry. The study, now in its eleventh year, offers the opportunity for collaborative research for advanced students. A stipend of \$1500 and housing is provided. Send letter of interest, resume, transcripts and three letters of recommendation to Keith L. Bildstein, Dept. of Biology, Winthrop College, Rock Hill, SC 29733 by Feb. 1, 1991. Phone 803-323-2111.

**VOLUNTEER FIELD ASSISTANTS:** January-March and January-June 1991 for study on behavioral ecology of coyotes in Yellowstone National Park. Project conducted by the Wildlife Research Institute of Moscow, Idaho. This long-term study seeks to quantify the socio-ecological role of coyotes before possible wolf restoration. Duties include behavioral observations of coyote packs at winter carcasses, pup/parent/helper interactions at den sites, and foraging behavior; radio-tracking from fixed-station shelters and aircraft; extensive hiking of transects; capture and handling of coyotes; conducting field manipulations; and experience with other research projects (e.g., mountain lions). Could work into possible funded position and/or

graduate position. Looking for motivated and enthusiastic persons willing to work long field hours. Previous field experience and developed outdoor skills preferred. Room and board will be provided. For information, call 406-848-7927 or send resume and references to Dr. Bob Crabtree, P.O. Box 161, Gardiner, MT 59030.

**FIELD ASSISTANTS** are needed to help with ongoing studies of the behavioral ecology of acorn woodpeckers, western bluebirds, and milkweed beetles at Hastings Reservation near Monterey, CA. Positions run from early March to early June 1991. Duties, depending on the position, include radio-tracking, behavioral watches, bird banding, mist-netting, nest watches, and censusing. Experience with birds or insects desirable, but enthusiasm a must. Positions include \$300 per month stipend plus housing. Send resume with references to Walt Koenig or Janis Dickinson, Hastings Reservation, 38601 E. Carmel Valley Rd., Carmel Valley, CA 93924. 408-659-2684.

**AVIAN BIOLOGIST.** The Department of Biology at San Francisco State University seeks an avian biologist whose primary responsibilities will be to (1) participate in a graduate program in conservation biology, (2) offer upper division and graduate courses in ornithology and vertebrate biology, (3) participate in lower division courses on a rotational basis, and (4) establish a research program in avian biology. A PhD. is required and postdoctoral experience is desirable. We are particularly interested in candidates who are committed to achieving excellence in teaching, have an established research record and the potential to maintain an extramurally funded research program that includes supervision of MA student research. Send CV, statement of teaching interests and research goals, and three letters of reference by Dec. 10, 1990 to Dr. John Hafernik, Dept. of Biology, San Francisco State University, San Francisco, CA 94132.

**FIELD ASSISTANTS** needed for study of Mallard behavior and ecology in North Dakota and Minnesota, 1 April - 15 August 1991. Duties include waterfowl nest searching and pair counting; and capturing, marking, radio-tracking, and determining time budgets for mallard hens

and ducklings. Ability to identify waterfowl, make careful and detailed observations, work well with others, read color markers, and spend long hours in the field using binoculars and scopes is essential. Experience in behavior and waterfowl research is preferred. Salary \$1300-\$1400/mo. Send SF-171 (Personal Qualifications Statement) plus a photocopy of transcripts by 31 December, 1990 to: Personnel, Northern Prairie Wildlife Research Center, Route 1, Box 96C, Jamestown, ND 58401.

**POSITION AVAILABLE.** We anticipate an opening in August 1991 for a graduate Research Assistant on a currently funded NSF grant. The research focuses on the socioendocrinology of reproductive behavior in golden lion tamarins. One additional position may be available. The University of Nebraska at Omaha has graduate programs leading to the PhD and MA in Psychobiology, and to the MA in Biology. Application deadline is 15 March 1991. Contact Jeff French, Callitrichid Research Center, Psychology Department, University of Nebraska at Omaha, Omaha, NE 68182-0274 (402-554-2558; BITNET: JFRENCH@UNOMA1; Internet: JFRENCH@ZEUS.UNOMAHA.EDU.)

**FIELD ASSISTANTS** needed to assist with long-term ecological/behavioral study of Red-winged and Yellow-headed Blackbirds. Will be responsible for monitoring breeding behavior of individual birds, trapping and banding, helping with behavioral experiments and radio-tracking, taking blood samples. Ongoing investigations are related to mate choice (including DNA/paternity studies), site selection, territoriality, and cooperative behavior. Study site is at Columbia NWR in eastern Washington. Modern living in nearby town. Salary more than covers living expenses. 1 March - 15 June, 1991. People with field experience given preference. Send resume and a letter of recommendation to LES BELETSKY or GORDON ORIANI, Dept. of Zoology, NJ-15, University of Washington, Seattle, WA 98195 (206-543-1812).

**NIMH PROGRAM VACANCIES** exist in the Basic Behavioral Processes Program and the Sociocultural and Environmental Processes Program. Program level positions

have responsibility for planning, developing and administering a specific substantive program of support. Program heads are recognized authorities in their field and analyze current research activities, identify extramural research areas of underdevelopment; and stimulate the submission of grant applications in the program's field of emphasis. Applicants must possess a M.D. or Ph.D. degree, or equivalent training. Must have good oral and written communication skills, and an interest in science management. Three years of postdoctoral experience is desirable. The grades of these positions are at the GS-13/14 level with a salary from \$42,601 to \$72,954. Applications will be accepted until Dec, 1990. Send applications to Louise Turner, Personnel Operations, NIMH, Room 15C12, 5600 Fishers Lane, Rockville MD 20857 or call 301-443-5407.

**LAB TECHNICIAN.** A full time position is available to work on molecular genetic studies of parentage in birds. Duties focus on genetic analyses employing standard molecular biology techniques. Duties will include carrying out experiments designed to improve the speed and resolution of techniques. Fieldwork and analyses of field data are also potential duties. The applicant must be dependable and capable of organizing and completing routine tasks accurately and efficiently, yet also be independently motivated and inquisitive. A Bachelor's degree, preferably in biology or related area, is required and some lab experience, preferably in molecular genetics or microbiology will be very helpful. Contact **David F. Westneat**, School of Biological Sciences, 101 Morgan Building, University of Kentucky, Lexington, KY 40506-0225. (606-258-8499)

**SUMMER FELLOWSHIP - FIELD BIOLOGY.** Iowa Lakeside Laboratory announces the FOUNDER'S FELLOWSHIP for the summer of 1991 for predoctoral students or recent PhDs. The stipend is \$2000, no tuition. Fellows pay modest fees for room/board and lab space. Applicant's work must have a field component for which a summer at our station would be profitable. Applicants should be at the level of independent investigator. Lakeside Lab is in northwestern Iowa on recent glacial terrain, with adjacent lakes, wetlands,

virgin prairie, prairie rivers, and pockets of forest. Our own 55 ha grounds border West Okoboji Lake; we have forest and manipulable grassland. Conditions are rustic, but not primitive. Research labs are relatively new, and we have a small library. Interested applicants may contact the director for more about the area and facilities. Send a cover letter, vitae, and a one or two page synopsis of the proposed project. Specific reasons why our station is suitable are critical to the application. Two letters are requested, including one from the research sponsor. Applications will be considered up to April 1, 1991. Send applications to Robert W. Cruden, Acting Director, Dept. of Botany, The University of Iowa, Iowa City, IA 52242. (319-335-1317 or 319-335-2620)

**BEHAVIORAL OR POPULATION ECOLOGIST.** Applications are invited for a tenure-track faculty position in the Dept. of Zoology at the Ohio State University. We are seeking applicants with high promise in research and teaching who work on evolutionary aspects of behavioral ecology or population biology. Preference will be given to applicants with a strong theoretical and quantitative background who conduct field experiments and will attract outstanding graduate students. In addition to maintaining a vigorous, extramurally-funded research program, the successful candidate will be expected to teach at the undergraduate and graduate levels. We expect to fill the vacancy with an assistant professor, but exceptional candidates will be considered for appointment at a higher level. The appointment will begin in Autumn, 1991. Women and minorities are strongly encouraged to apply. Application materials, including a curriculum vitae, brief description of research and teaching goals, one research paper or manuscript, and the name, address, and telephone numbers of three references should be submitted by January 15 to: Search Committee, Dept. of Zoology, The Ohio State University, 1735 Neil Avenue, Columbus, OH 43210.

# ANIMAL BEHAVIOR SOCIETY ANNUAL MEETING

1 - 6 JUNE 1991

## UNIVERSITY OF NORTH CAROLINA AT WILMINGTON

The University of North Carolina at Wilmington cordially invites you to attend the 1991 meeting of the Animal Behavior Society. The Wilmington area has a wide range of attractions which make a vacation before or after the ABS meeting worth considering. Wilmington was founded on the Cape Fear River before the Revolutionary War and was the last port open to the confederacy during the Civil War. There are a number of historic sites within twenty-five miles of Wilmington, and a self-guided walking tour of the city's historic district is available. Wrightsville Beach, one of the state's more popular beaches, is located on a barrier island five miles east of the UNCW campus. Sailing, scuba diving, fishing, and golf are just a few of the popular local pastimes. There is an undeveloped barrier island south of Wrightsville Beach, and alligators can be found in some of the local creeks. People who like outdoors activities can find much to enjoy in the Wilmington vicinity.

UNCW has grown considerably since the ABS meeting in 1975. Pleasant, modern dormitories are available for all who want to stay on campus, and there is a new cafeteria. There is also a wildflower preserve in a wooded area on campus for those who want/need a change of pace. The university is no longer isolated on the edge of town. About a dozen restaurants, ranging from fast food to moderately nice, are now within easy walking distance of campus, and there are a number of motels nearby. There are campgrounds in the area (but none of them are outstanding).

Weather at the beginning of June should be quite pleasant, but it can get a bit hot. An "average" day will have a low in the mid-sixties and a high in the low-eighties. Rain is quite possible at some time during the week.

The OFFICIAL TRAVEL AGENT is Adams World Travel and US Air is the Official Air Carrier. Use of Adams World Travel will guarantee the lowest rates possible (i.e., 5% below the lowest supersaver rates or 35% below normal coach fare). Even those who cannot use the designated carrier can expect considerable savings if they book through Adams World Travel. The NATIONWIDE TOLL FREE NUMBER IS 1-800-444-6810 (900-530 Monday-Friday and 900-100 Saturday). Be certain to tell them that you are coming for the ABS meeting. Those calling from outside the United States can reach them at 919-256-6810. They will be happy to help with plans for add-on vacations, accommodations for those who want to stay off campus, etc. Most people who drive to Wilmington will arrive via I-40 which empties into College Road (NC 132) about three miles north of the campus. UNCW is very easy to find.

**By request, the traditional schedule has been advanced one day (i.e., papers will begin Sunday morning and end Thursday afternoon with registration beginning on Saturday.)**

There will be an informal dinner Saturday night (North Carolina barbecue and/or a pig pickin') and the banquet will be Wednesday night. Field trips will include one to Orton Plantation (an antebellum rice plantation which is usually a good place for birding) and one to the aquarium at Fort Fisher (where a beach walk will be included). T-shirts will feature the brown pelican which is now common locally after having been endangered. Additional details regarding the meeting, field trips, etc. will be provided in the February Newsletter.

**NOTE: The REGISTRATION DEADLINE for those who want to present papers is FEBRUARY 15; payment for housing, meals, etc. must be made by MAY 1 to guarantee availability. For additional information, call John Williams at 919-395-3371, Kate Bruce at 919-395-3374 or Kim Sawrey at 919-395-3091.**



**MEALS AND SPECIAL EVENTS**

Saturday Evening Barbecue \_\_\_\_\_ tickets X \$10.00 = \$ \_\_\_\_\_

Wednesday Evening Banquet \_\_\_\_\_ tickets X \$15.00 = \$ \_\_\_\_\_

MEAL PLAN: (Indicate number of tickets requested)

Sunday Breakfast (\$3.75) \_\_\_\_\_ = \$ \_\_\_\_\_  
Lunch (\$4.75) \_\_\_\_\_ = \$ \_\_\_\_\_  
Dinner (\$6.50) \_\_\_\_\_ = \$ \_\_\_\_\_

Monday Breakfast (\$3.75) \_\_\_\_\_ = \$ \_\_\_\_\_  
Lunch (\$4.75) \_\_\_\_\_ = \$ \_\_\_\_\_  
Dinner (\$6.50) \_\_\_\_\_ = \$ \_\_\_\_\_

Tuesday Breakfast (\$3.75) \_\_\_\_\_ = \$ \_\_\_\_\_  
Lunch (\$4.75) \_\_\_\_\_ = \$ \_\_\_\_\_  
Dinner (\$6.50) \_\_\_\_\_ = \$ \_\_\_\_\_

Wednesday Breakfast (\$3.75) \_\_\_\_\_ = \$ \_\_\_\_\_  
Lunch (\$4.75) \_\_\_\_\_ = \$ \_\_\_\_\_

Thursday Breakfast (\$3.75) \_\_\_\_\_ = \$ \_\_\_\_\_  
Lunch (\$4.75) \_\_\_\_\_ = \$ \_\_\_\_\_  
Dinner (\$6.50) \_\_\_\_\_ = \$ \_\_\_\_\_

Friday Breakfast (\$3.75) \_\_\_\_\_ = \$ \_\_\_\_\_

(The cost for all meals is \$97.25)

**FOOD SUBTOTAL \$ \_\_\_\_\_**

**ABS MEETING T-SHIRTS** (Pelicans on front and back)

Sizes: S M L XL Colors: White Silver Aqua Light Blue

Indicate quantity/size/color below

\_\_\_\_\_/\_\_\_\_\_/\_\_\_\_\_ \_\_\_\_\_/\_\_\_\_\_/\_\_\_\_\_ \_\_\_\_\_/\_\_\_\_\_/\_\_\_\_\_

\_\_\_\_\_ T-SHIRTS @ \$7.00 = \$ \_\_\_\_\_

**GRAND TOTAL \$ \_\_\_\_\_**

**TOTAL AMOUNT ENCLOSED \$ \_\_\_\_\_**

Make check payable to **UNIVERSITY OF NORTH CAROLINA AT WILMINGTON** and mail to:

Office of Special Programs  
University of Colorado at Wilmington  
Wilmington, NC 28403-3297

Payment in full must be received by May 1, 1991. Cancellations and/or refund requests should be received by May 15, 1991. Requests for refunds must be in writing.

**1991 ANNUAL MEETING**  
**ANIMAL BEHAVIOR SOCIETY**  
**1-6 JUNE 1991**  
**UNIVERSITY OF NORTH CAROLINA**  
**WILMINGTON, NORTH CAROLINA**

**CALL FOR PAPERS:** A Transmittal Form and Abstract Preparation Form for contributed papers are included here. There are two types of contributed papers: 20 min (15 min for presentation and 5 min for discussion) and poster papers. **ABS members may present or sponsor only one contributed paper at an Annual Meeting.** When a member coauthors with a nonmember who is presenting, the member is sponsoring the paper. A member may also show one film and participate in an invited paper session or symposium in addition to giving or sponsoring one contributed paper. The research reported at an Annual Meeting is expected to comply with all applicable laws concerning animal care and welfare. Transmittal and Abstract Forms, as well as inquiries concerning the program, should be directed to the ABS Program Officer, Lynne D. Houck, Dept. of Ecology & Evolution, University of Chicago, 940 E. 57th St., Chicago, IL 60637-1455.

**FINAL DEADLINE FOR RECEIPT OF ABSTRACTS: 15 FEB 1991.** ONLY SUBMISSIONS ON THE PROPER FORM WILL BE ACCEPTED. LATE SUBMISSIONS WILL BE RETURNED.

**NOTE: ABS REQUIRES THAT INDIVIDUALS MUST PRE-REGISTER FOR THE MEETING AT THE SAME TIME AS THE ABSTRACT IS SUBMITTED.** Registration forms are included in this Newsletter, and a separate copy will also be sent to each member. Registration forms should be sent directly to the local host: Dr. John T. Williams, Jr., Dept. of Psychology, University of North Carolina, Wilmington, NC 28403-3297.

**POSTER PAPERS** are highly recommended. Poster papers can facilitate more discussion, perusal of data and one-to-one exchanges of ideas. We will continue the evening format for poster paper sessions. The ABS now sponsors a competition for the **FOUNDERS' AWARD** for poster papers. If you are planning a poster paper submission and wish to be considered for this award, please check the appropriate box on the transmittal form. All member of ABS presenting poster papers are eligible for the award. Details of the competition and some suggestions for poster paper presentation will be mailed to those in the competition.

**ALLEE AWARD.** The W.C. Allee Award will be presented for the outstanding student paper at the 1991 Annual Meeting. Any independent student research that is largely unpublished at the time of submission for the competition is eligible for this cash and book award, as long as the student has not competed before and has not had the final defense of the doctoral dissertation prior to the preceding ABS Annual Meeting. Each paper must have a single author. To compete, send the Transmittal and Abstract Forms as well as four copies of a written version of the paper to the Program Officer by 15 FEB 1991. The written manuscript must not exceed 7 pages of double-spaced typewritten text; it may include no more than 4 tables and figures and should be completed in *Animal Behaviour* format. Note that a one page update may be submitted between 15 February and 1 June.

**INVITED PAPER SESSIONS.** ABS encourages those who wish to plan a session of invited papers or a symposium. The annual deadline for submission of proposals for invited paper sessions or for symposia is November 1 preceding the next annual meeting. At the earliest opportunity in your planning, please contact the Program Officer for proposal format and additional information.

**ADVANCE WARNING:** At the request of many who have attended the past several ABS meeting, we will enforce the original rule regarding 20 minutes contributed papers. Namely, 15 minutes are for the paper presentation and 5 minutes are for discussion. **PLEASE PLAN ACCORDINGLY FOR THE 1991 MEETING.**

**ABSTRACT PREPARATION:**

1. Abstracts will be photographed just as submitted; you must follow the suggested format.
2. Abstracts should be typed or printed within a 3" x 7" space. An example of this maximum abstract size is provided on the transmittal form. Do not type your abstract onto this example; use plain bond paper or good Xerox paper. Single space all typing, leaving no top or left margins.
3. If typed, use an electric typewriter with a good ribbon; make neat corrections. Elite type (12 pitch) is preferred. Use black ink for symbols not on your typewriter. Be wary of abstracts printed by dot matrix printers - they usually do not reproduce well.
4. Your abstract should be organized as follows:
  - a. Title - use CAPITAL LETTERS; check to be certain that Transmittal Form and Abstract titles match; when using a Latin name, please include the common name also; see example below.
  - b. Authors - include departmental and institutional affiliations.
  - c. Specific objectives - include a brief statement unless this is clear from the title.
  - d. Methods - include a brief description as necessary.
  - e. Results - provide a clear, specific summary of findings.
  - f. Conclusions.
  - g. Acknowledgments or References - as desired.
5. We provide an example of a title and byline below. **DO NOT TYPE YOUR ABSTRACT ON THIS PAGE.** Newsprint provides an inappropriate photographic background. Use plain bond paper. Please do not include any lines around your abstract.

**SEND TWO COPIES OF THE ABSTRACT, ALONG WITH ONE COPY OF THE TRANSMITTAL FORM, TO THE PROGRAM OFFICER  
DEADLINE FOR ALL ABSTRACTS IS 15 FEBRUARY 1991. NO EXCEPTIONS!**

BEHAVIORAL ISOLATION OF SALAMANDERS OF THE GENUS PLETHODON  
Nancy L. Reagan, Univ. of Chicago, Chicago IL.

Use this 3" x 7" box as a spacing guide.  
Please DO NOT type your abstract in this box.  
Do not put lines around your abstract.

Please print or type your abstract at the top of a page so that the text is not folded for mailing

Please include the following signed statement with your abstract.

By submission of this abstract to ABS, I declare that the research reported herein was conducted in compliance with the ABS Animal Care Guidelines and all laws applicable to my work.

Signed \_\_\_\_\_



Please identify your paper according to animal group and principal subject by circling the appropriate categories below. These are used by the Program Officer to assist in arranging the program. Note that presentations will be assigned to these categories in the order in which the transmittal forms are received. Early submission of the form is strongly encouraged.

<b>ANIMAL GROUP</b>	Humans	Carnivores	Crustaceans	Arachnids
	Ungulates	Rodents	Amphibia	Insects
	Other Mammals	Marine Mammals	Reptiles	Other Invertebrates
	Nonhuman Primates	Birds	Fishes	Molluscs

<b>SUBJECT</b>	Applied Ethology	Genetics	Social Behavior
	Behavioral Ecology	Learning	Agonistic
	Biological Rhythms	Methodology	Development
	Altruism/Kinship	Natural History	Dominance
	Courtship/Mating	Orientation/Navigation	Mate Choice
	Physiology/Neuroethology	Theory	
	Intrasexual Competition	Competition	Self Maintenance
	Predator/Prey	Play Behavior	Territoriality
	Parent-offspring Relations		Human Ethology

None of the above categories seems appropriate. I would best categorize my paper as dealing with

-----  
 I would prefer to have my presentation arranged by: Subject\_\_\_\_\_ Taxonomic Group \_\_\_\_\_

**THE PROGRAM OFFICER WILL TRY TO ACCOMODATE ANY SPECIAL REQUESTS LISTED BELOW:**

-----  
 -----

This presentation is based on research sponsored by an ABS Research Grant:

Yes\_\_\_\_\_ No\_\_\_\_\_

**APPLICATION FOR MEMBERSHIP: ANIMAL BEHAVIOR SOCIETY**

Name in Full \_\_\_\_\_ Degrees \_\_\_\_\_

Address \_\_\_\_\_

\_\_\_\_\_ Phone \_\_\_\_\_

Position \_\_\_\_\_ Institution \_\_\_\_\_

\_\_\_\_\_ Member - \$36 (US) Receive Animal Behaviour and Newsletter

\_\_\_\_\_ Student Member - \$18 (US) Receive Animal Behaviour and Newsletter

\_\_\_\_\_ Spouse Member - \$15 (US) Receive Newsletter

My student membership is endorsed by (Dept. Head, ABS Member or Fellow)

Name \_\_\_\_\_ Signature \_\_\_\_\_

This application should be sent with remittance (make check payable to Animal Behavior Society) or include your

Mastercard # \_\_\_\_\_ or VISA # \_\_\_\_\_

\_\_\_\_\_ Card Holder's Signature \_\_\_\_\_

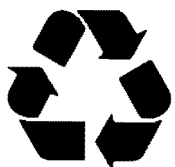
Send the application to: **Robert W. Matthews, ABS Treasurer**  
**Dept. of Entomology**  
**University of Georgia**  
**Athens, GA 30602**

\*\*\*\*\*

J. Driscoll  
ABS Secretary  
2550 W. 43rd Avenue  
Denver, CO 80211-1732

Non-Profit Organization  
U.S. POSTAGE  
PAID  
DENVER, CO  
PERMIT NO. 4096

ADDRESS CORRECTION REQUESTED



*recycled paper*