

NEWSLETTER

Animal Behavior Society

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Clemson, South Carolina 29631

Section (Division) Animal Behavior and Sociobiology
American Society of Zoologists
Ecological Society of America

CORRECTION

The new ABS Program Officer, Lee C. Drickamer, assumes office on 25 June 1983 (after the 1983 annual meeting). Dr. Drickamer's correct address is: Dept. of Biology, Williams College, Williamstown, MA 01267. [The address listed in the Feb. Newsletter is incorrect.]

ANIMAL BEHAVIOR SOCIETY 1983 ELECTION OF OFFICERS

The following persons have been nominated for office for terms beginning in August 1984:

Second President-Elect:

Gordon M. Burghardt, Dept. Psychol., Univ. Tenn.
H. B. Graves, Dept. Poultry Sci., Penn. State Univ.

Secretary:

Terry E. Christenson, Dept. Psychol., Tulane Univ.
Zuleyma T. Halpin, Dept. Biol., Univ. Missouri.

Member at Large:

Joan S. Lockhard, Dept. Neurol., Univ. Wa., Seattle.
David L. Noakes, Dept. Zool., Univ. Guelph, Ontario.

Additional nominations may be made by letter to the Executive Committee (c/o John G. Vandenbergh, ABS President, Department of Zoology, North Carolina State University, Raleigh, NC 27650)

signed by five or more ABS members in good standing. The ballot and brief resumes of the candidates will appear in the August 1983 ABS NEWSLETTER.

PLENARY ADDRESSES SCHEDULED FOR THE ABS MEETING

19-24 JUNE 1983, BUCKNELL UNIVERSITY, LEWISBURG, PA

- Monday, 20th: Charles Walcott, Cornell University
"The Continuing Mystery of Pigeon Homing"
- Tuesday, 21st: Colin S. Pittendrigh, Hopkins Marine
Station of Stanford University
"Biological Clocks"
- Wednesday, 22nd: Sue Savage-Rumbaugh, Yerkes Primate
Research Center
"Primate Communication: From Action, to
Gesture, to Symbol"
- Thursday, 23rd: Jeanne Altmann, University of Chicago
"Lessons Learned from the Monkeys"
- Friday, 24th: Fernando Nottebohm, Rockefeller University
"Properties of Brain Pathways for Vocal
Learning"

ASZ-ABS MEETINGS: These are affiliated meetings in association with DAB-ASZ and are not ABS annual meetings.

1983 Dec. 27-30 at the Franklin Plaza and Philadelphia Centre Hotels in Philadelphia (Robert Searls, Temple Univ. and W. Wayne Moss, Acad. Natural Sci. co-chair).

1984 Dec. 27-30 at the Marriott Hotel and the Holiday Inn in Denver (Dennis Barrett and James Platt, University of Denver chair the local committee).

1985 Dec. 27-30 at the Hyatt Regency and the Hilton in Baltimore (Donald Forester and Philip Creighton, Towson State University chair the local committee).

ANIMAL BEHAVIOR SOCIETY 1983 ANNUAL MEETING

19-24 JUNE 1983, BUCKNELL UNIVERSITY, LEWISBURG, PA

ABS members received forms for submitting contributed papers, and forms to be returned for travel, housing, food service, social events, child care, and tours in a separate mailing.

If you need forms or other details contact the local host: Douglas K. Candland, Animal Behavior Program, Bucknell University, Lewisburg, PA 17837 (or phone Cheryl Kyes at 717-524-1431 for information).

DEADLINE FOR LATE REGISTRATION FEES IS 1 JUNE 1983. Housing and food service requests received after 1 May 1983 will be billed an additional 10% service charge.

SYMPOSIA PLANNED FOR THE 1983 ABS MEETING

Biological Factors in Social Behavior: A Symposium in Honor of John Paul Scott.

Organized by Robert J. Blanchard, University of Hawaii at Manoa. John L. Fuller, State University of New York, will chair the session.

Individual and Intergroup Differences in Behavior: Origins, Interpretation and Significance.

Organized by Anne B. Clark, Kellogg Biological Station and Zoology Department, Michigan State University, East Lansing and Hilary O. Box, Department of Psychology, University of Reading, England.

The Role of Animal Behavior in Conservation Biology.

Organized by Thomas E. Lovejoy, World Wildlife Fund and Devra C. Kleiman, National Zoological Park.

WORKSHOP SCHEDULED FOR THE 1983 ABS MEETING

- Wednesday: "Conservation of Endangered Species"
The workshop will be led by those working on problems of conservation and by foundation and agency personnel concerned with conservation.

OTHER HIGHLIGHTS -- 1983 ABS MEETING

EVENING DISCUSSION, Monday, 20th

New Directions in Research on Agonistic Behavior.
Offered by the Scott Symposium participants.

BANQUET, Wednesday, 22nd

Banquet Speaker-- Thomas E. Lovejoy,
World Wildlife Fund.

SOCIALS: Sunday, 19th-- Picnic.

Monday, 20th-- Informal Social.
Tuesday, 21st-- Informal Social.
Wednesday, 22nd-- Pre-Banquet Social.
Thursday, 23rd-- Mid-Summer Dance.
Friday, 24th-- Picnic.

OTHER EVENTS:

NSF Representatives-- Tuesday, 21st.
Human Ethology Business Meeting-- Tuesday, 21st.
FILMS-- Sunday, Tuesday, and Friday.
Field Trips. Book Display.

MEETINGS -- CALLS FOR PAPERS

ETHOLOGY AND BEHAVIORAL ECOLOGY OF FISHES: 9-12 May 1983 at Illinois State Univ., Normal, IL 61761. Fourth Biennial Conference. Symposia planned: Physiological correlates of behavior and Community structure of fishes.

COOPER ORNITHOLOGICAL SOCIETY: 19-22 May at the Univ. of New Mexico, Albuquerque. Contact: J. David Lignon, Dept. Biology, Univ. New Mexico, Albuquerque, NM 87131.

WILSON ORNITHOLOGICAL SOCIETY: The 64th annual meeting will be 2-5 June 1983 at the University of Wisconsin, Green Bay. For information, contact the host: Richard E. Stiehl, Chair, Local Arrangements Comm., College Env. Sci., University of Wisconsin, Green Bay, WI 54302.

SNAG HABITAT MANAGEMENT SYMPOSIUM: 7-9 June 1983 in Flagstaff, AZ. Hosted by the Arizona chapter of the Wildlife Society, the meeting will concentrate on snag habitat management and wildlife species dependent on snag habitat. Contact: Jerry W. Davis, Tonto National Forest, P.O. Box 29070, Phoenix, AZ (ph. 602-261-4240).

ENDOCRINE SOCIETY: 65th Annual Meeting, 8-10 June 1983, Conv. Center, San Antonio, TX; 35th Annual Postgraduate Assembly, 24-28 October 1983, Boston Park Plaza, Boston, MA. Contact: Nettie Karpin, Office of the Secretary, 9650 Rockville Pike, Bethesda, MD 20814 (301-530-9660).

HUMAN/ANIMAL BOND: June 1983 at two locations: Univ. Minnesota, Minneapolis-St. Paul, June 13-14, and Univ. California, Irvine, June 17-18. Presentations on animal behavior and animal/human relationships as they affect health and quality of life (1) across the life span from child development to family interactions to aiding the elderly; and (2) for the handicapped, people in nursing homes, prisons, etc. will be featured. There will be special sessions at the Univ. of MN on health, behavior, and productivity of farm animals. For registration information: James O. Hanson, Dir. Continuing Ed., College Veterinary Medicine, Univ. Minnesota, St. Paul, MN 55108; or Assist. Dir. UCI Center for Health Ed., 2801 Atlantic Ave., P.O. Box 1428, Long Beach, CA 90801 (213-595-3811).

AMERICAN SOCIETY OF NATURALISTS, SOCIETY FOR THE STUDY OF EVOLUTION, GENETICS SOCIETY OF AMERICA and STADLER SYMPOSIUM:

12-16 June 1983, Washington Univ., St. Louis, MO. For information, contact The Organizing Committee, Evolution '83, Department of Botany, Washington University, St. Louis, MO 63130.

INTERNATIONAL SOCIETY FOR COMPARATIVE PSYCHOLOGY: 13-18 June 1983, the founding meeting in conjunction with the annual meeting of the Cheiron Society at Glendon College, Toronto, Canada. Contact: Ethel Tobach, Department of Mammalogy, American Museum Natural History, Central Park West at 79th Street, New York, NY 10024.

THE AMERICAN SOCIETY OF MAMMALOGISTS: 19-23 June 1983 in Gainesville, FL.

INTERNATIONAL SOCIETY FOR RESEARCH ON AGGRESSION: Victoria, B.C., Canada on 29 June-2 July 1983. Contact Gordon W. Russell, Department of Psychology, University of Lethbridge, Lethbridge, Alberta, Canada T1K 3M4. The Society is interdisciplinary and includes those doing research with animal and human subjects.

ANIMAL STRESS: 6-8 July 1983, University of California, Davis. "Animal Stress: New Directions in Defining and Evaluating the Effects of Stress in Animals." Workshops, a poster session, and invited papers from behaviorists, physiologists, nutritionists, veterinarians, and experts in animal welfare. Contact: Gary P. Moberg, Dean's Office AS&ES, University of California, Davis, CA 95616.

MEETINGS -- CALLS FOR PAPERS -- continued

AIBS: 7-11 August 1983, Univ. North Dakota, Grand Forks. Participating societies: Association Tropical Biology, Ecological Society of America, International Society of Ecological Modelling, and the Society of Systematic Zoology. Registration, housing, and field trip information is in the February issue of BioScience, or contact: Meetings Dept., AIBS, 1401 Wilson Blvd., Arlington, VA 22209.

WORLD VETERINARY CONGRESS: 21-26 August 1983, Perth, Australia. Contact Howard Evans, President, World Association of Veterinary Anatomists, College of Veterinary Medicine, Cornell Univ., Ithaca, NY 14853.

AMERICAN PSYCHOLOGICAL ASSOCIATION: Anaheim, CA, 26-30 August 1983. Div. 6 (Physiological & Comparative Psychology), plans contributed papers, posters, symposia, discussion sessions, workshops, and invited speakers. The D. O. Hebb Award will be presented. Non-APA members may contact David B. Miller, Dept. Psychology, U-20, Univ. Connecticut, Storrs, CT 06268, (203-486-3516).

XVIIIth INTERNATIONAL ETHOLOGICAL CONFERENCE:

Brisbane, Australia, 29 Aug.-6 Sept., 1983.

Contact: Glen McBride, Animal Behav. Unit, Univ. Queensland, St. Lucia, Queensland, Australia 4067. This will be an open meeting. The "third circular," will be mailed to registrants 31 May 1983. The deadline for registrations requiring a guarantee of accommodation is 31 July 1983.

IEC-BRISBANE TRAVEL SUPPORT:

Notifications of travel support for applicants to attend the XVIIIth International Ethological Conference will be mailed on or about May first. There will be 15-20 stipends of about \$200-\$1000 each. Direct questions to: Dr. Lee C. Drickamer, Biology Dept., Williams College, Williamstown, MA 01267 (phone 413-458-3319).

SYSTEMATICS ASSOCIATION: 7-9 September 1983 at the British Museum (Natural History) in London. Theme: The origins and relationships of lower invertebrates. Contact: S. Conway Morris, Dept. of Earth Sci., The Open University, Walton Hall, Milton Keynes, MK7 6AA, England.

THE AMERICAN ORNITHOLOGISTS' UNION: 26 Sept.-1 Oct. 1983 in New York City. The AOU will celebrate its Centennial at its 101st Stated Meeting. Contact: Lester L. Short, Committee on Arrangements, American Museum of Natural History, Central Park West at 79th St., New York, NY 10024. Deadline for submission of abstracts is 15 June 1983 (for information on the scientific program contact George Barrowclough, Department of Ornithology, American Museum of Natural History).

SOCIETY FOR THE SCIENTIFIC STUDY OF SEX (SSSS): 18-20 November, 1983 at the McCormick Inn, Chicago. The theme of the 26th Annual Conference will be "Toward Explanations of Sexual Attitudes and Behaviors." The plenary session will feature spokespersons from the major theoretical perspectives who will be asked to apply their contrasting viewpoints to the explanation of specific aspects of sexuality. Additional symposia are planned that will focus on such topics as violent pornography, sexual preference, and the role of gender in sexual selection. For information, contact: Deborah Weinstein, SSSS Executive Director, P.O. Box 29795, Philadelphia, PA 19117.

SECOND IBEROAMERICAN ORNITHOLOGICAL CONGRESS: 4-10 Dec. 1983 (note change of dates) at Xalapa, Veracruz, Mexico. Theme: Neotropical ornithology. Deadline for submission of abstracts is 15 August 1983. Request invitations and instructions for abstract preparation from: Mario A. Ramos, 2nd Iberoamerican Ornithological Congress, Apartado Postal 388, Xalapa, Veracruz, Mexico. Field trips and tours will be offered both before and after the Congress paper sessions.

FIRST CONFERENCE ON BIRDS WINTERING IN THE MEDITERRANEAN REGION: 23-25 February 1984 at Aulla, Italy. Emphasis will be on the ecology, ethology, distribution, and migration of birds wintering in this region. For further information and preregistration materials contact Dr. Almo Farina, Museum of Natural History of Lunigiana, Fortezza della Brunella, 54011 Aulla, Italy.

1986 INTERNATIONAL ORNITHOLOGICAL CONGRESS: 22-29 June 1986 in Ottawa. Those interested in participating in the Congress should inform the Secretariat in order to obtain announcements and application forms. Address correspondence to: The Secretary-General, Dr. Henri Ouellet, XIX Congressus Internationalis Ornithologicus, National Museum of Natural Sciences, National Museums of Canada, Ottawa, Ontario, Canada K1A 0M8.

SYMPOSIA PLANNED FOR THE 1983 DAB-ASZ MEETING

27-30 DECEMBER 1983, PHILADELPHIA

Paternal Behavior

Organized by Richard E. Brown, Psychology Dept., Dalhousie Univ., Halifax, N.S., Canada B3H 4J1.

The function of this symposium is to examine the occurrence of paternal care in a wide variety of animals (from insects to humans), to examine the circumstances under which paternal care occurs and the factors which affect the expression of paternal care.

Ecological Aspects of Social Evolution

Organized by D. I. Rubenstein and R. W. Wrangham.

The themes will be (i) that ecological adaptation underlies and directs the course of social evol., and (ii) that in order to understand social evol., the strategies of females and males must be examined separately with respect to obtaining access to envir. resources and members of the opposite sex, and taking into account the consequences of intra-sexual competition.

[These symposia are co-sponsored by the Animal Behavior Society and the Division of Animal Behavior of the American Society of Zoologists]

TO ORGANIZE SYMPOSIA FOR ABS AND ASZ MEETINGS:

For the 1984 ABS meeting at E. Washington Univ. (August) or the 1984 ASZ meeting in Denver (December), contact the new ABS Program Officer, Lee C. Drickamer, who assumes office on 25 June 1983 (after the 1983 annual meeting). Dr. Drickamer's address is: Dept. of Biology, Williams College, Williamstown, MA 01267.

The deadline for submission of proposals for invited sessions and symposia for the 1984 ABS meeting is 1 December 1983.

GRANTS, FELLOWSHIPS AND POSITIONS AVAILABLE

THE BEHAVIOR AND ECOLOGY OF INSECTS in urban gardens and yards are being studied at Georgetown University. Present studies include the reproductive and foraging behavior of the carpenter bee, *Xylocopa virginica*; parasitization and reproductive behavior of the chalcidoid wasp, *Pediobius foveolatus*, which attacks the Mexican bean beetle; the behavior of bagworm caterpillars; the pollination behavior of butterflies; syrphid fly communities; and whiteflies on tomatoes.

If you are a qualified student who would like to work toward an M.S. or Ph.D. in the behavior and ecology of insects at Georgetown University, please contact Dr. Edward M. Barrows, Department of Biology, Georgetown University, Washington, D.C. 20057 for further details. Fellowships are available on a competitive basis to students who are accepted for the Ph.D. program.

ANIMAL BEHAVIOUR: Please check that the libraries and institutions you use subscribe.

ABS ADDRESS CHANGE? Write the Treas., H. Jane Brockmann, Dept. Zool., Bartram Hall, U. FL, Gainesville, FL 32611.

The ABS Education Committee reports that 121 questionnaires were received in response to the job survey. We thank Dr. John Ringo who tabulated the responses.

What kind of job or training do you believe holds the greatest potential in the next 5-10 years for new graduates in animal behavior? (1) Types of employer: Academia--13, Industry/Business--14, Government--22, Zoos/Conservation Groups--10, Prospects are poor--63. (2) Types of training: Broad Training--14, Applied Ethology--37, Neurobiology--16, Physiology--16, Quant. Skills--13, Biomedical--11, Behav. Tox./Pharmacol.--8, Ecology--7, M.S. but reservations about PH.D.--5, Education not training--5.

Would you encourage students to pursue advanced study in animal behavior? (1) Yes (see Qualifiers below)--74, NO--36, No Response--10. (2) Qualifiers: Students should be made aware of poor job market--34, Only most talented students should be encouraged--24, Study of anim. behav. should be for personal/intellectual rewards--23, Job market is too poor to encourage students--23, Students should be prepared to take jobs unrelated to anim. behav.--18, Must be broadly trained--17, None--17, Other--9.

Specific responses are included either because they make interesting or unusual points, or because they encapsulate frequently expressed views.

What kind of job or training ... for new graduates in anim. behav.? "Applied behav., behav. ecol.-emphasis on quant. skills; the critical requirement will be for persons with diversified backgrounds able to perform lab. and field tasks. As academic jobs become scarcer, versatility will be at a premium." "Linking behav. and physiol. to pursue biomed. research." "Very few jobs hold much potential for anim. behav. grads, and academic jobs will remain the only possibility for most people." "None. There are too few jobs in academia, none elsewhere." "In Mexico; the best opportunities are in teaching at the college level, and in envir./ecol. government jobs." "...behav. of domestic farm animals. There is a much greater awareness on the part of animal husbandry people that behav. is important to improve production." "...suggest neuroscience and computer software modelling." "...industry and government will be needing additional personnel in the field of behav. toxicol. since new drugs and chemicals will have to be screened for behav. effects." "The working conditions [in a government job] are better than in either of the universities at which I worked. I have as much freedom of research potential, and... far more leeway to speak and act on my beliefs now than I did at universities..." "...think in terms of education, rather than job training. As a univ. faculty member, I too often encounter the mentality of 'training' in its various guises. It can never be a productive philosophy in this context." "There is no training within the customary bounds of the field that holds any potential for future employment. If you intend to survive, you develop marketable skills, either before you enter grad. school or during and incidental to your grad. educ."

Would you encourage students today to pursue advanced study in anim. behav.? "M.S. definitely... only 'genius' Ph.D.'s in behav. would get top acad. jobs now." "Although there will always be acad. positions avail. for the very best graduates in anim. behav., broad training would allow some of the less successful ones to branch out into gov't. health-related jobs." "Yes, because the area provides many personal rewards for the right kind of person. It has nothing to do with job availability, and I would make that clear to any prospective student." "'Encourage' is too strong. I don't discourage, but point out the difficulties in employment." "...it is immoral to encourage any but the brightest and best motivated students to do grad. work. We [in anim. behav.] should be more careful that we do not encourage marginal students, simply because we need cheap labor or because our egos are inflated by having large numbers of students." "Yes. Good students in anim. behav. should be just as competitive as students in any other subdiscipline of biol. I encourage all of them to take courses so they can teach in the more general areas of physiol., anat., and general zool." No. Too many good people [are] out of work... until more jobs are avail. more anim. behav. grads will only make things worse." "Only if they're independently wealthy or don't like to eat."

COURSE ANNOUNCEMENTS AND INFORMATION AVAILABLE

DUKE UNIVERSITY MARINE LABORATORY: 1983 Summer Program in Marine Sciences. Three five-week terms (May 10 to August 19) for undergraduate and graduate students, as well as postbaccalaureates and postdocs. 2-6 semester hours per term. Tuition scholarships available for qualified applicants. Lectures, laboratories and field experience. Courses in Behavior and Ecology of Fishes*, Marine Biology, Developmental Biology, Biological Oceanography, Invertebrate Zoology, Barrier Island or Marine Ecology, Marine Animal Physiology, Comparative & Evolutionary Biochemistry, Benthic Algae, Primary Productivity, Tropical Seaweeds (field study in Caribbean), as well as Economics of Fisheries and Sociology of Science. Contact: Admissions, Duke University Marine Laboratory, Beaufort, NC 28516; phone 919-728-2111.

*Behavior and Ecology of Fishes-- 18 July - 19 August, 1983, Kenneth R. McKaye, Instructor. The course will involve extensive field work in the adjacent lakes, marshes, estuaries and coastal waters of North Carolina. The field projects will be designed to teach students methods for capturing and identifying fish, measuring fish abundance, stomach analysis, and tagging. These field exercises will be supplemented with in depth laboratory analysis of fish social behavior, aggression, parental care and feeding behavior, both freshwater and marine fishes (temperature and tropical) will be studied. Dr. Karel Liem will be participating with the fish biology group at the Marine Laboratory. The course is designed for advanced undergraduate, graduate and post-doctoral students. Tuition scholarships are available.

LAKE ITASCA, the University of Minnesota's Field Station will offer field research courses for graduate students, teachers and undergraduates during the summer of 1983. First term: 12 June - 16 July. Second term 17 July - 20 August. For late application information, contact the Program Director, Field Biology Program, 349 Bell Museum of Natural History, 10 Church Street S.E., University of Minnesota, Minneapolis, MN 55455; phone 612-373-1292.

SIERRA NEVADA FIELD STATIONS: The Univ. of California at Santa Barbara administers two field stations near the town of Mammoth Lakes and provide easy access to a wide variety of habitats from desert scrub to high alpine. The Sierra Nevada Research Lab. is at 2100m in a mixed sagebrush and riparian association and provides housing and full lab facilities. Valentine Camp is at 2400m in lush mixed forest and provides only housing. Applications and other information are available from:

Shirley Clark, Marine Sciences Institute,
University of California, Santa Barbara, CA 93106.

A NEW MARINE STUDIES PROGRAM will provide undergraduate biology students the opportunity to study coastal zones on both the Pacific and Atlantic oceans. The joint program has been established by the Univ. of Oregon Institute of Marine Biology in Charleston, OR, and the Northeastern Center for Marine Sciences and Marine Studies in Nahant, ME. The program, directed by Paul Rudy of the Univ. of Oregon, will initially consist of student exchanges between the two schools.

WEST QUODDY MARINE RESEARCH STATION, located near Lubec, ME, is designed for the study and preservation of wild-life and to accommodate scientific investigation. Research has been conducted on marine mammals, with emphasis on the behavior and acoustics of whales. Scientists may be able to arrange for use of the field station. Contact Dorothy R. Spero, WQMRS, Biology Dept., Princeton Univ., Princeton, NJ 08544.

THE RAPTOR REHABILITATION AND PROPAGATION PROJECT, INC., Washington Univ., Tyson Research Center is accepting applications for 3 summer and 5 fall non-salaried student internship positions for 1983. Interns will gain experience with rehabilitation of raptors and exposure to the intense educational program for the general public, they will assist with field and lab. research and work with the propagation program. Contact: Walter C. Crawford, Jr., Exec. Dir., RRRP Inc., Tyson Research Center, P.O. Box 193, Eureka, MO 63025 (314-938-6193).

CALLS FOR MANUSCRIPTS

AGGRESSIVE BEHAVIOR, the journal of the International Society for Research on Aggression, established in 1974, is published four times each year. The journal includes original research reports, scholarly reviews, theoretical articles and book reviews relevant to the study of agonistic behavior, conflict, and violence in human and non-human species. The readership cuts across traditional disciplinary lines.

PHOTOBIOLOGY: The Education Committee of ASP encourages the submission of articles on the diverse areas of Photobiology for publication in BioScience.

The National Association of Biology Teachers' Committee for Animal Behavior publishes a newsletter for high school, community college and university animal behavior teachers. Short articles describing field or lab studies for high school students and art work depicting animal behavior is requested. Send materials to: Laine Curley, 2731 N. Arlington Heights, Arlington Heights, IL 60005. For annual membership in CABT and a subscription to the CABT newsletter (three 8 page issues/yr.) send \$2.

OTHER SOCIETIES

ASZ: Persons who are interested in joining the American Society of Zoologists are urged to communicate their interest to a member of the Society or to contact the Business Office (Box 2739, California Lutheran College, Thousand Oaks, CA 91360, 805-492-3585) for an application form. Annual dues of \$35 for members and \$20 for student members pay for a subscription to the American Zoologist and are also used to support various activities of the Society.

THE CRUSTACEAN SOCIETY: Membership information is available from the Business Office, The Crustacean Society, 12-NHP-W323, Smithsonian Institution, Washington, D.C. 20560. The Secretary of the Society and Newsletter (The Ecdysiast) Editor is Dr. Paul A. Haefner, Jr., Dept. Biology, Rochester Institute of Technology, P.O. Box 9887, Rochester, NY 14623.

PUBLICATIONS AVAILABLE

RAPTOR MANAGEMENT INFORMATION SYSTEM: RMIS is a collection of published and unpublished papers, reports, and other works on raptor management and human impacts on raptors and their habitats. It currently consists of nearly 2,500 original papers, 160 keyword notecard decks comprised of 15,000 key paragraphs from the original papers, and a computer program to retrieve partially annotated bibliographies by species, by keyword, or by any combination of keyword and/or species. A geographical index is under development, and new papers are added as they are received. Originally designed to facilitate land-use planning and decision making by government agencies and industry, the RMIS has since grown into a powerful research and environmental assessment tool for scholars, students, consultants, as well as land managers and their staff biologists. For more information write Dr. Richard R. Olendorf, U.S. Bureau of Land Management, 2800 Cottage Way, Sacramento, CA 95825, phone 916-484-4701.

AOU CHECKLIST: The 6th Edition of the American Ornithologists' Union Check-list of North American Birds is scheduled for publication in summer 1983. Pre-publication price \$28.00 (post-publ. \$35.00). Order from AOU, P.O. Box 368, Lawrence, KS 66044. (Checks payable to AOU.)

1983 "CONSERVATION DIRECTORY" lists addresses and phone numbers of 12,000 individuals and 1800 national and international organizations involved in natural resource use and management, including federal and state agencies. Send check for \$9.00 + 1.55 shipping to National Wildlife Federation, 1412 16th St. NW, Washington, D.C. 20036.

CONTRIBUTED LABORATORY EXERCISES IN ANIMAL BEHAVIOR

The response to the request in the November 1982 issue of the ABS NEWSLETTER for abstracts of new laboratory exercises in animal behavior was disappointing, although four individuals did submit information detailed below. Another submittal form appears in this issue to encourage more submissions.

One additional piece of information of interest came from Patricia DeCoursey, Biology, University of South Carolina, Columbia, SC 29208, who has written an "in-house" animal behavior laboratory manual (LABORATORY STUDIES IN ANIMAL BEHAVIOR: An ecological approach) appropriate for undergraduates in a 2-3 hour lab course. Some of the exercises are highly seasonal (such as dependence on the South American electric fish) or require reasonably warm weather (beehive lab). All the labs are slanted toward behavioral ecology except for two human labs. The spiral bound manual is available to anyone from the University of South Carolina Bookstore or the Biology Department for \$5.00.

Title: PHEROMONAL TRAIL FOLLOWING IN TERMITES

Level: underclassmen, upperclassmen, and graduate students

Length: Anywhere from 3 - 20 min.

Subject(s): termites, Reticulitermes flavipes

Description: Termites follow chemicals deposited by conspecifics. The natural trail is highly volatile and effective for only a few minutes. The ink in many (but not all) ballpoint pens contains a chemical which is similar to that of the termites natural trail pheromone. One can draw a trail of almost any configuration (not too many sharp angles, please), place a termite on the trail, and the termite will run its course along the ink trail. Soon the termite will waiver off the trail, and finally will be totally unresponsive as the chemicals in the ink volatilize.

Requirements: termites, ballpoint pens, paper

Submitted by: Paul J. Weldon, Zoology, University of Tennessee, Knoxville, TN 37916

Title: DOMINANCE AND/OR TERRITORIAL BEHAVIOR IN THE CRAYFISH

Level: underclassmen

Length: A few minutes several times weekly for most of a semester

Subject(s): Crayfish, Orconectus obscurus, or whatever is available

Description: Students are instructed to observe crayfish to determine whether they demonstrate dominance and/or territorial behavior. As the crayfish is a solitary scavenger, the way is open to discuss the observation that crayfish are not like mammalian social species.

Requirements: An aquarium with several specimens, gravel, and places for hiding. No other special needs, but avoid burrowing species.

Submitted by: John A. Ross, Psychology, St. Lawrence University, Canton, NY 13617

Title: FOOD PREFERENCE IN THE CRAYFISH

Level: underclassmen

Length: 1-2 hours

Subject(s): Crayfish, Orconectus obscurus, but any will do

Description: The food (taste) preference of crayfish for clam or tuna meat and "juice" is examined. These mostly herbivorous scavengers do not show a preference but exhibit fleeing behavior. This opens the discussion of the topic "that a crayfish is not a lab rat."

Requirements: Aquarium for storing subjects, house boxes to study them, no skills except to think about what the crayfish are doing and why.

Submitted by: John A. Ross, Psychology, St. Lawrence University, Canton, NY 13617

Title: SOCIAL COHESION IN DOMESTIC BOVIDS

Level: underclassmen, upperclassmen, and graduate students

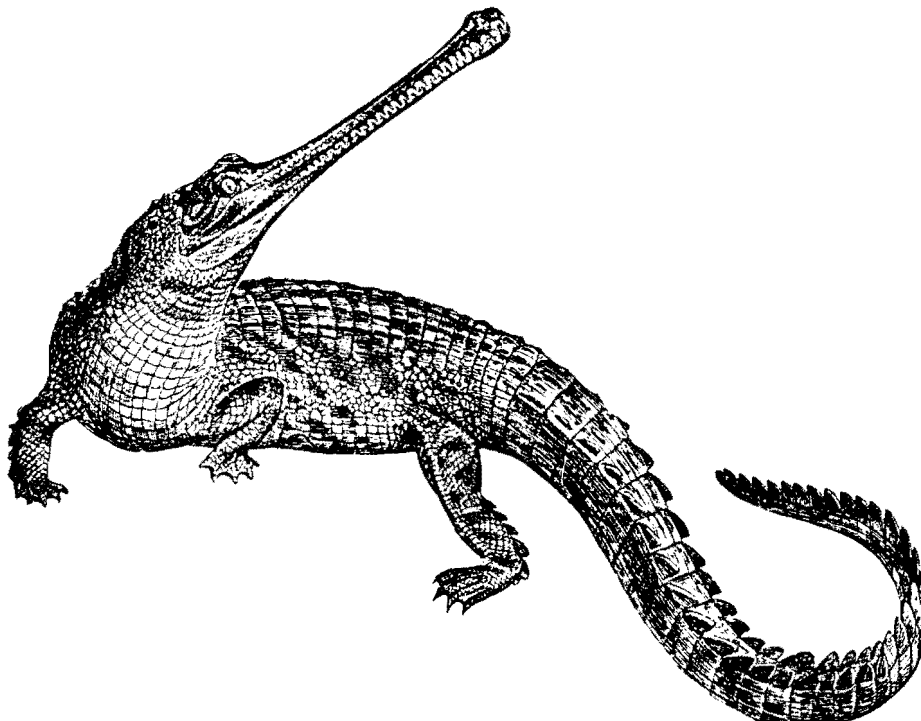
Length: 4 hours in the field

Subject(s): Ovibos taurus

Description: The goal of this study is to measure social cohesion among domestic cattle. The parameteres used are: relative orientation; relative position in the field; and simultaneity of behavior (lying down, standing, ruminating, grazing, etc.). Three observers each record one type of data every 5 minutes for 4 hours. The exercise is described in French but can be translated if there is sufficient demand.

Requirements: None

Submitted by: Jean Gingras
Department des Sciences Biologiques, Université du Quebec à Montreal,
B.P. 8888, Montreal, Quebec Canada H3C3P8



LABORATORY EXERCISES IN ANIMAL BEHAVIOR

Do you have a favorite lab in Animal Behavior that you would like to share with colleagues in the Animal Behavior Society? If so, please participate in a clearing house for Animal Behavior Lab Experiments by completing the following form, folding appropriately, and returning it to Wayne P. Aspey, Chairperson, ABS Film Committee.

When 10 replies have been obtained, a complete list will be published in the ABS NEWSLETTER; additional copies will also be available from Wayne Aspey. If you decide to participate and an individual requests a lab from you, please have the exercise written in ready-to-use form similar to those in the Price & Stokes' manual ANIMAL BEHAVIOR IN THE LABORATORY AND FIELD, including a complete, detailed list of directions, materials, and special considerations (i.e., animal care, maintenance, special solutions).

Your cooperation will be appreciated by all those who need new animal behavior labs.

Title: _____

Level of presentation: underclassmen upperclassmen graduate

Length of lab: _____

Experimental subject(s):
(Common and Genus species names) _____

Description of lab objectives (up to 50 words, continue on reverse if necessary):

Special equipment, skills, or habitat required:

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INFORMATION ON WILDLIFE PERMITS: The Association of Systematics Collections (ASC), with the assistance of the Federal Wildlife Permit Office and the Pet Industry Joint Advisory Council, has begun production of a reference series which will provide a source of permit information for those who routinely deal with wildlife and wildlife products. The series CONTROLLED WILDLIFE is divided into three volumes. The first, "Federal Permit Procedures," contains detailed summaries of the federal statutes and regulations that control the use of wildlife and wildlife products; samples of both foreign and domestic permits, with instructions for completing them properly; and addresses of important agencies, both foreign and domestic. Volume two, "Federally Controlled Species," lists the species that are controlled by the federal government and the laws that govern their use. "State Permit Procedures 1983," the third volume, contains information on state non-game wildlife laws and permit requirements, cooperative agreements between the federal government and individual states, and lists of species protected by each state. In addition, an Updating Service will be included to keep purchasers advised of changes in regulations and procedures. For further information write: CONTROLLED WILDLIFE, Association of Systematics Collections, Museum of Natural History, Univ. of Kansas, Lawrence, KS 66045.

AVIAN INCUBATION: Egg Temperature, Nest Humidity, and Behavioral Thermoregulation in a Hot Environment, by Gilbert S. Grant. viii + 75 pp., 35 text figure. 1982. Ornithological Monographs, No. 30. Price \$9.00 (\$7.00 to A.O.U. members). Order from Glen E. Woolfenden, Assistant to the Treasurer, A.O.U., Department of Biology, University of South Florida, Tampa, FL 33620. All orders must be prepaid and include a \$0.50 handling charge.

SLIDES OF WILDLIFE: The Western Education Center (National Audubon Soc.) is developing a collection of original slides of North American wildlife to provide a resource for Audubon chapters, their members, environmental education centers, schools and individuals. For a catalog listing slides available for purchase, a list of species needed to complete the collection, or an entry form for slides you wish to donate, write Thomas J. Ferranti, North American Birds, 376 Greenwood Beach Rd., Tiburon, CA 94920.

STEPS TOWARD BETTER SCIENTIFIC ILLUSTRATIONS by Arly Allen, 1982, 36 pp. Available from Allen Press, Inc., P.O. Box 368, Lawrence, KS 66044 (single copies \$3.00, \$2.00 ea. when 5 or more copies are ordered).

INSECT BEHAVIOR A Sourcebook of Laboratory and Field Exercises by J. R. Matthews and Robert W. Matthews. A collection of 34 behavioral lab. and field exercises using insects. 290 pp., \$20.00, Westview Press, 5500 Central Ave., Boulder, CO 80301

PIPING PLOVER INFORMATION NEEDED: In an effort to determine the current status and distribution of Piping Plovers, the World Wildlife Fund (Canada), Delta Waterfowl Research Station and Manitoba Dept. of Natural Resources are soliciting help in locating birds on breeding, migration, or wintering areas. Please support this project by reporting past or present sightings of Piping Plovers (include date, location, number of birds and color bands, if any). Send information to: Susan Haig, Delta Waterfowl Research Station, Portage la Prairie, Manitoba, Canada R1N 3A1.

"GRADUATE PROGRAMS IN ANIMAL BEHAVIOR: 1981-82" available from: Wayne Aspey, ABS, Dept. of Zoology, Ohio State Univ., Columbus, OH 43210. Send a 9 x 12" self-addressed envelope with \$1.00 postage (\$2.00 non U.S.).

ABS Members may request a copy of the ABS Constitution and Bylaws and/or current ABS Policy from the Secretary.

ABS NEWSLETTER: We have extra copies of the NEWSLETTER 1981-1982. ABS members may request an issue they have misplaced. Write to the NEWSLETTER Editor.

Two amendments to H.R. 1555 (Health Research Extension Act) are in the hopper. One amendment offered by Congressman Walgren (D.- Pa.) is a slightly modified version of the legislation he offered last year. Another amendment by Congressman Madigan (R.- Ill.) is a substitute to the Walgren bill and would authorize an 18 month study by the National Academy of Sciences to assess the current level of animal use in research financed by NIH as well as to analyze the use of alternative methods. Senator Dole's (R.- Kans.) bill (S657) "Improved Standards for Laboratory Animals Act," sets out to eliminate unnecessary duplication of animal experiments, among other things.

The Endangered Species Act of 1982 is, itself, in grave danger because of the administration's proposed severe cuts in the federal budget for endangered species. Write to your Senators and Congressperson to reinstate needed funding for the preservation of endangered species. -- from Edwin M. Banks,

ABS Public Affairs Committee.

OTHER NEWS

HUMAN HANDEDNESS: Ira B. Perelle, Professor of Psychology at Mercy College, has received word from Boris Lomov, Director of the Institute of Psychology, USSR Academy of Sciences, that the Institute will assist in an ongoing study of human handedness based at Mercy College. Dr. Perelle and Dr. Lee Ehrman, of SUNY at Purchase, have collected information on handedness from almost 10,000 individuals using a questionnaire. Results indicate that about 10% of the US population is left handed and the percentage is somewhat lower in other countries. Professor Lomov reports that a group of neuropsychologists at the USSR Institute of Psychology has been working on the problems associated with some lefthanders (such as dyslexia, cognitive deficit, etc.) for several years.

EARTHWATCH: Information on field research for volunteers and scientists is available from Clare Urion, 10 Juniper Rd., Box 127, Belmont, MA 02178 (617-489-3030).

PCR: FILMS AND VIDEO IN THE BEHAVIORAL SCIENCES: This catalog is available from Tom McKenna, PCR Managing Editor, Penn State Univ., Audio Visual Services, Special Services Building, University Park, PA 16802. Napoleon Chagnon, professor of anthropology at Northwestern Univ., is the new editor of this publication.

FUTURE ANIMAL BEHAVIOR SOCIETY ANNUAL MEETINGS:

1983 June 19-24, Bucknell University, Lewisburg, PA, host: Douglas Candland, Department of Psychology

1984 August 13-17, Eastern Washington Univ., Cheney, WA, host: Steven B. Christopher, Department of Psychology

1985 June, Raleigh-Durham, NC, final arrangements will be announced when available.

DEADLINES FOR NEWSLETTERS:

Animal Behavior Society: 10 July 1983 for August 1983 ABS NEWSLETTER.

ASZ Division of Animal Behavior: 1 Sept. 1983 for Fall (Oct.) DAB Newsletter.

Send materials to: Anna E. Ross (Editor of the DAB-ASZ and ABS NEWSLETTERS), Department of Zoology, Clemson University, Clemson, SC 29631 (phone: 803-656-2328).

Sidney A. Gauthreaux, Jr. (ABS and DAB-ASZ Secretary), Department of Zoology, Clemson University.

VOLUNTARY CONTRIBUTIONS: The Animal Behavior Society welcomes contributions from its members. Members may make the ABS a beneficiary of an estate or name the ABS in a will.

I. FEDERAL, STATE, AND LOCAL REGULATIONS.

Members, their students, and research associates have an obligation to become thoroughly familiar with, and comply with the provisions of the Animal Welfare Act (1970), the Endangered Species Act (1973), 62 Statute 686 (1948), and the Migratory Bird Treaty Act (1918), all subsequent amendments, rules, and regulations pursuant to these Acts, and other applicable federal, state, and local regulations to which the researcher may be subject. In the case of animals trapped in foreign countries, researchers have an obligation to become familiar with, and comply with the relevant regulations of those countries.

II. STANDARDS OF RELATED ORGANIZATIONS.

Members and their affiliates should attempt to become familiar with standards of organizations, other than the ABS, which relate to the care, treatment, and use of animals in behavioral research.

III. ABS GUIDELINES FOR ANIMAL CARE.

A. Choice of Animals.

1. Species. The species chosen for study should be well-suited to answer the questions posed. When the research involves the use of procedures which are likely to cause unavoidable pain or discomfort to the animal, and when alternate species can be used, the researcher should employ the species which in his/her opinion, is least likely to suffer.

2. Number of individuals. In the case of 1) laboratory experiments involving non-optimal conditions (e.g. pain or discomfort), or 2) field studies involving manipulations potentially detrimental to the population, the researcher should utilize the smallest number of animals necessary to accomplish the research goals.

3. Status of natural populations. If the taxon or population is endangered or threatened, individuals should not be collected except in cooperation with a serious conservation endeavor and in compliance with the Endangered Species Act (1973) and other pertinent legislation. The researcher is responsible for ascertaining the status of the taxon or population in question and should uphold not only the letter but also the spirit of those laws dealing with endangered species both in the U.S.A. and in the foreign countries where the animals originate.

B. Observation of Natural Populations.

Observation of free-living animals in their natural habitat may involve disruption, particularly if feeding, trapping, or marking is involved. While field studies may further scientific knowledge and advance awareness of human responsibility towards animal life, the investigator should always weigh any potential gain in knowledge against the adverse consequences of disruption for the animals used as subjects and also for other animals in the ecosystem.

C. Procurement of Animals.

Researchers should obtain animals only from reliable and legal sources. As much as possible, the researcher should ensure that those responsible for handling of the animals en route to the research facility provide adequate food, water, ventilation, and space, and do not impose undue stress. If animals are field-trapped this should be done legally and in a manner which is as painless and humane as possible.

D. Housing and Animal Care.

Unless contraindicated by research protocol, animals should be maintained and cared for in such a manner as to meet their species-typical and individual needs. Minimal standards are specified in Guide for the Care and Use of Laboratory Animals, DHEW Publications No. (NIH) 74-23.

Continued...

ANIMAL CARE GUIDELINES: "Guidelines for the Use of Animals in Research," ANIMAL BEHAVIOUR (1981, Vol. 29: 1-2). Reprints available from: Sidney A. Gauthreaux, Jr., ABS Secretary, Dept. of Zoology, Clemson Univ., Clemson, SC 29631 (send a self-addressed envelope).

E. Pain or Discomfort.

Since traumatic effects of experimental procedures are likely to vary from species to species, the researcher should attempt to ascertain how much his/her research species is likely to suffer as a result of the procedures employed. In general, researchers are urged to consider the use of alternative procedures before employing techniques which are likely to cause physical or psychological discomfort to the animal. In accordance with the existing animal welfare laws, pain or discomfort, even when unavoidable, should be minimized to the greatest extent possible under the requirements of the experimental design. Attention should be given to proper pre- and post-operative care in order to minimize preparatory stress and residual effects. Unless specifically contraindicated by the experimental design, procedures which are likely to cause pain or discomfort should be performed only on animals which have been adequately anesthetized.

F. Final Disposition of Animals.

Whenever practical or feasible, researchers should attempt to distribute their animals to colleagues for further study. However, if animals are distributed for use in additional experiments, care should be taken that the same animals are not used repeatedly in experiments which involve invasive surgical procedures or other treatments which are likely to be stressful or painful. Except as prohibited or prescribed by federal, state or local laws, researchers may release field-trapped animals if this is practical and feasible, and if it is critical to conservation efforts. However, the researcher should consider that releases into the wild may be injurious or detrimental to existing populations in the area, and releases should be made only after the researcher has determined that the negative impact is likely to be minimal. As a general guideline, field-trapped animals should be released only within the same area where they were trapped (unless conservation efforts dictate otherwise), and only when their ability to survive in nature has not been impaired, and when they do not constitute a health or ecological hazard to existing populations. If animals must be destroyed subsequent to the study, this should be done by euthanization in as humane and painless a way as possible, and death of the animals should be confirmed before bodies are discarded.

ANIMAL BEHAVIOR SOCIETY DIRECTION OF CORRESPONDENCE

** Dues, All Changes of Address, Membership Application, Membership Lists:

H. Jane Brockmann, Treasurer
 Dept. of Zoology, Bartram Hall
 Univ. of Florida, Gainesville, FL 32611.

** ANIMAL BEHAVIOUR: Manuscripts, Reviews, Editorial Policy:

Patrick Colgan, Editor
 Dept. of Biology, Queens Univ.
 Kingston Ontario K7L 3N6 Canada.

** ANIMAL BEHAVIOUR: Missing Issues, Duplicate or Defective Issues, Back Issues:

Journal Subscription Dept. (Attn. E. Lowe)
 Bailliere Tindall, 8 Trident Way, Brent Rd.
 Southall, Middlesex, England.

NEWSLETTER ANNOUNCEMENTS WELCOME: Items of interest to ABS members -- news of positions, meetings, publications, people, etc. Send items to Anna E. Ross, ABS NEWSLETTER.

ABS NEEDS MEMBERS: ENCOURAGE YOUR COLLEAGUES AND STUDENTS TO JOIN -- AND DON'T NEGLECT TO RENEW.

Copy the form in this NEWSLETTER and/or request additional membership forms from the Treasurer.

U.S. ETHOLOGICAL CONFERENCE COMMITTEE: ABS members will elect members of the USECC by ballot to appear in the August 1983 ABS NEWSLETTER. USECC members serve a six year term.

1983 MEETING OF THE ANIMAL BEHAVIOR SOCIETY WITH THE
AMERICAN SOCIETY OF ZOOLOGISTS, CRUSTACEAN SOCIETY,
INTERNATIONAL ASSOCIATION OF ASTACOLOGY, BIOLOGICAL SOCIETY OF WASHINGTON
AND AMERICAN MICROSCOPICAL SOCIETY

DECEMBER 27 - 30 PHILADELPHIA CENTRE HOTEL, PHILADELPHIA, PA.

SYMPOSIA SPONSORED BY THE ANIMAL BEHAVIOR SOCIETY
AND THE DIVISION OF ANIMAL BEHAVIOR, ASZ

PATERNAL BEHAVIOR (organized by Richard E. Brown for the Animal Behavior Society and the Division of Animal Behavior, ASZ)

Speakers and their subjects are: Robert L. Smith, Paternal behavior in archnids and insects; Mart R. Gross, Paternal care in fish; Rae Silver, Paternal care in birds; Don Dewsbury, Paternal behavior in rodents; James Malcolm, Paternal care in canids; Devra Kleiman, Paternal care in marmosets and taramins; David Taub, Male-infant interactions in old world baboons and macaques: a summary and re-evaluation; Curt Busse, Relationship between paternal care and infanticide; Michael E. Lamb, Paternal behavior in man; Richard E. Brown, Hormonal control of paternal behavior; Karl Wuensch, Effects of the presence of fathers on the development and behavior of offspring; Robert L. Trivers, The relationship between female choice and the evolution of male parental investment.

ECOLOGICAL ASPECTS OF SOCIAL EVOLUTION (organized by Daniel I. Rubenstein and Richard W. Wrangham)

The symposium will examine how ecological adaptation underlies and directs the course of social evolution. Its major theme will be that in order to understand social evolution, the strategies of females and males must be examined separately, each with respect to obtaining access to environmental resources and members of the opposite sex, and taking into account the consequences of intra-sexual competition. Naturalistic studies of single species, or closely related species, of mammals and birds will be compared to emphasize common principles and to draw attention to ways in which theoretical problems can be directed to empirical data.

OTHER SYMPOSIA AND SPECIAL PROGRAMS

(1) Microecological approaches to the study of natural communities, (2) Biogeography of the crustacea, (3) The biology of Fundulus Heteroclitus, (4) Comparative biology of Nemertean, (5) Advances in Crustacean Endocrinology, (6) Hydrothermal vents of the Eastern Pacific: An overview, (7) Mammalian mastication: An overview, (8) Animal energetics: Amphibians, reptiles and birds, (9) Mechanisms of calcification in biological systems, (10) Recognition and receptor display: Lectin cell surface receptors and probes, (11) Cell surface in development and cancer, (12) Advances in microscopy, (13) Biologists of the Colonial and Revolutionary War periods.

Workshop on Coral Reef Ecology. New evening Symposium Series sponsored by the ASZ Education Committee on Science as a Way of Knowing -- Evolutionary Biology.

CONTRIBUTED PAPERS -- ORAL AND POSTER PRESENTATIONS

Forms and instructions are now available. Deadline for submission is August 26.

Papers on the two Animal Behavior symposia topics are especially encouraged.

Abstracts will be published in the American Zoologist 23(4).

For information about the Philadelphia meeting, send this coupon to: Mary Wiley, American Society of Zoologists, Box 2739, California Lutheran College, Thousand Oaks, Ca. 91360. ASZ Members will receive these items with their April ASZ Newsletter.

Name and Address:

____ Brochure detailing Philadelphia Meeting plans.
____ Forms for contributing a paper (poster or oral presentation).

APPLICATION FOR MEMBERSHIP: ANIMAL BEHAVIOR SOCIETY

Name in full _____ Degrees _____

Mailing address _____

Institution _____ Position _____

_____ Member - \$27.00 (U.S.) Receive ANIMAL BEHAVIOUR and NEWSLETTER.

_____ Student Member - \$17.00 (U.S.) Receive ANIMAL BEHAVIOUR and NEWSLETTER.

_____ Spouse Member - \$9.00 (U.S.) Receive NEWSLETTER only.

_____ Non-Member Subscription (Library, etc.) - \$9.00 (U.S.) Receive NEWSLETTER only.

Membership for calendar year 19____. Date and place of birth _____

Specific area of interest _____

Member of these societies: _____ Ecol. Soc. Amer.; _____ Amer. Soc. Zool.; _____ A.I.B.S.;

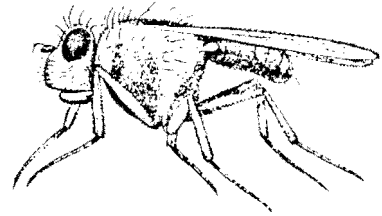
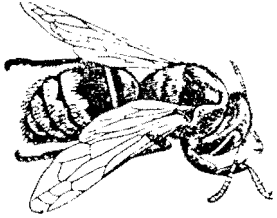
_____ Amer. Psych. Assoc.; _____ Wildlife Soc.; _____ Other(s) _____

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

(name) _____ (signature) _____

This application form should be sent with remittance (make checks payable to ANIMAL BEHAVIOR SOCIETY) to:

H. Jane Brockmann, ABS Treasurer
Dept. of Zoology, Bartram Hall
University of Florida
Gainesville, FL 32611



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