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NEWSLETTER

Animal Behavior Society

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A quarterly publication

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Maura Carew, Associate Editor*

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ABS ELECTION RESULTS

A total of 194 members voted (7.4% of the membership) compared to 12.0% in 1987 and 10.2% in 1986. The three constitutional amendments passed. The first of these provides for annual election of Fellows. The second eliminates the requirement that ABS elections be coordinated with those of the Division of Animal Behavior (ASZ). The third clarifies the duties of Members-at-Large. Four ABS officers were elected; they will take office June 17, 1989.

Second President-Elect:	H. Jane Brockmann
Program Officer:	Lynne Houck
Parliamentarian:	George Waring
Member-at-Large:	Steven Austad.

THE SIXTH ABS FILM FESTIVAL: CALL FOR FILMS

ABS encourages members and nonmembers to submit videos or films for consideration at the next film festival. Send films or videos to Jack Demarest, Dept Psych, Monmouth College, West Long Branch, NJ 07740. Phone: 201-571-3684. All films will be viewed and returned immediately. The 6th Film Festival will be held during the 1989 Annual Meeting of ABS at the University of Northern Kentucky, 11-17 June.

(EDITOR'S NOTE: The previous chair of the Film Committee resigned from this position, and Jack Demarest accepted the appointment on 31 Oct 1988. This is why the address of the Film Committee Chair has changed between the last Newsletter and this one.)

ANIMAL BEHAVIOR SOCIETY DIRECTION OF CORRESPONDENCE

ABS NEWSLETTER & general correspondence to the society:
David Chiszar, Dept of Psych, Campus Box 345,
Univ of Colorado, Boulder CO 80309

ANIMAL BEHAVIOUR--Manuscripts and editorial matters:
Lee Drickamer, Dept of Zoology
Southern Illinois Univ
Carbondale, IL 62901

ANIMAL BEHAVIOUR--Missing, defective, or back issues;
change of address:
Robert Matthews, Dept of Entomology
Univ of Georgia, Athens GA 30602

NEWSLETTER

Contributions for the ABS Newsletter are welcome. Deadline for receipt of materials for the February issue is 15 Jan. Send to D. Chiszar, address above.

ABS ANNUAL MEETING SITES

The 1989 meeting will be at Northern Kentucky Univ, 11-17 June; (Hosts: Tom Rambo and George Uetz; see page XX) the

1990 meeting will be at SUNY Binghamton, 10-15 June (Host: R. Stimson Wilcox). Sites are desired for the 1991 and 1992 meetings.. Contact President Fentress if you wish to submit a bid to host either of these meetings.

ABS OFFICERS

PRESIDENT: John Fentress, Dept Psych and Biol, Dalhousie Univ, Halifax, Nova Scotia, Canada B3H 4J1

1st PRESIDENT-ELECT: Patrick Colgan, Biology Dept., Queen's Univ, Kingston, Ontario, Canada K7L 3N6

2nd PRESIDENT-ELECT: Charles Snowdon, Psychology Dept., Univ Wisconsin, Madison WI 53706

PAST-PRESIDENT: Sydney Gauthreaux Jr., Dept Zool, Clemson Univ, Clemson, SC 29631

SECRETARY: (1987-1990) David Chiszar, Dept Psych, Campus Box 345, Univ Colorado, Boulder CO 80309

TREASURER: (1988-1991) Robert Matthews, Dept Entomolgy, Univ Georgia, Athens, GA 30602

PROGRAM OFFICER: (1986-1989) Susan Riechert, Dept Zool, Univ Tennessee, Knoxville, TN 37916

PARLIAMENTARIAN: (1986-1989) Edward Burt, Jr., Dept Zool, Ohio Wesleyan Univ, Delaware, Ohio 43015

EDITOR: (1988-1991) Lee Drickamer, Dept Zool, Southern Illinois Univ, Carbondale, IL 62901

MEMBER-AT-LARGE: (1986-1989) Jan Randall, Biol Dept, San Francisco State Univ, San Francisco CA 94132

MEMBER-AT-LARGE: (1987-1990) Julia Chase, Biol Dept, Barnard College Columbia Univ, New York, NY 10027

MEMBER-AT-LARGE: (1988-1991) George Barthalmus, Dept Zool, North Carolina State Univ, Raleigh, NC 27650

OPPORTUNITIES

EDITOR'S NOTE. Opportunities and announcements are published as soon as possible (i.e., in the next issue of the Newsletter). It sometimes happens, however, that a position is filled between the time we receive the advertisement and the time of the next quarterly issue of the Newsletter (i.e., a period of 2-3

months). Accordingly, we apologize for inconveniences this may cause, and we recommend that interested persons precede their formal responses to advertisements with a phone call to ascertain that the position is still available. (If an ad appears in the Newsletter, the editors have received no indication that the position has been filled as of press time.)

GRANTS: Proposals are being accepted by the American Greyhound Council for the development of a device to train racing greyhounds. The American Greyhound Council is a non-profit organization whose purpose is "to provide for the betterment of the welfare of racing greyhounds and the greyhound industry." The proposal should outline your approach to the development of a training device, provide a timeline for completion of the project, and include a budget and resumes or vitas of individuals who will be undertaking the research. Proposals should be submitted by 31 Dec to Gary Guccione, Secretary, American Greyhound Council, c/o National Greyhound Association, P. O. Box 543, Abilene, KS 67410-0543. For more information call Peggy Mackinnon: 303-623-7772.

EDITOR'S NOTE: Extensions beyond the 31 Dec deadline can be requested from Ms. Mackinnon. She will, however, need to know by 31 Dec whether or not you intend to submit a proposal. So, do call her if you have an interest in developing an artificial training lure that can be used in the shaping of greyhound racing behavior.

TRAVEL GRANTS TO ATTEND THE XXIst INTERNATIONAL ETHOLOGICAL CONFERENCE, UTRECHT, THE NETHERLANDS, 9-17 August 1989. The U.S. Ethological Conference Committee has applied to N.S.F. for an International Travel Grant to support travel to the IEC by young scientists. We have been notified that N.S.F. intends to fund this grant. We anticipate that we will be able to make 20-25 individual awards to support transportation costs for young U.S. scientists -- defined as those who received their Ph.D. degree between 1984 and 1988 or who will complete their Ph.D. during 1989. To apply for a travel award, please submit the following items to Dr. Jane Brockmann, USECC Secretary, Department of Zoology, University of Florida, Gainesville, FL 326711 : (a) seven (7) copies of a 1-2 page curriculum vitae, (b) 7 copies of the abstract you will be submitting for consideration to the IEC program and (c) one or two letters of recommendation. For those who have not completed their Ph.D., it is desirable that the major professor include an assurance that the degree will be completed during 1989. Deadline for applications is 9 January 1989. The application will be reviewed by members of the USECC and applicants will be notified by 1 March 1989.

RESEARCH ASSISTANT POSITION- Part-time (24 hrs/wk) now available at the Univ Texas M.D. Anderson Science Park Chimpanzee Breeding Facility. Duties include collecting behavioral data, computer entry of data and completing preliminary data summary and analysis. Bachelor's degree in relevant field required. Annual salary - \$10,591. Contact: Lydia Elliott or Dr. Mollie Bloomsmith, UTMDACC, Science Park, Veterinary Resources Dept, Rt. 2, Box 151-B1, Bastrop, TX 78602. Phone: 512-321-3991. The Univ Texas M.D. Anderson Cancer Center is an equal opportunity/affirmative action employer.

FIELD RESEARCH VOLUNTEER POSITIONS- (approx. 20) at the Southwestern Research Station, American Museum of Natural History, Portal, AZ, spring/summer/fall 1989. Program offers students in the biol sciences outstanding opportunities to become involved with scientists doing field research. Food and lodging at the Station are provided to Volunteers in exchange for 4 hrs/day routine work chores, leaving other time free for research activities. Faculty knowing of promising undergraduate

or graduate students should alert them to this possibility for professional experience. For application forms, contact: **Dr. Wade C. Sherbrooke**, Resident Director, Southwestern Research Station of the American Museum of Natural History, Portal, AZ 85632. Phone: 602-558-2396.

FACULTY POSITIONS- The Dept Biol Sci, Univ Cincinnati is expanding its research and teaching and announces the availability of 3 tenure track positions at the Asst Prof level for the 1989-90 academic year in the following areas: (1) **MOLECULAR EVOLUTIONARY BIOLOGIST:** Conduct research using molecular techniques to address questions in evolutionary biology. (2) **EVOLUTIONARY ECOLOGIST:** Conduct research directed toward understanding species interactions (e.g. coevolution; host/parasite; plant/pollinator; predator/prey). Preference will be given to those using mathematical and/or molecular/biochemical approaches in their research. (3) **POPULATION BIOLOGIST:** Conduct research using quantitative approaches and field experimentation in the study of plant or animal populations. The Ph.D. is required; postdoctoral experience is preferred. Successful candidates expected to develop vigorous, externally funded research programs, train graduate students, and teach courses at the undergraduate and graduate levels. Univ has enrollment of approximately 36,000 students; dept currently has 29 full time faculty in the Biol Sci and a graduate enrollment of 65 students, approximately 60% of which are pursuing the Ph.D. degree. Applicants should submit a description of their research interests and future research plans, a current curriculum vita, indicate the position for which they are applying, and provide 3 letters of reference to: **Dr. J. Roble Vestal**, Evolution Search Committees, Dept Biol Sci, Univ Cincinnati, Cincinnati, OH 45221-0006 by 1 Dec 1988. Univ Cincinnati is an equal opportunity/affirmative action employer.

FIELD ASSISTANTS- at Hastings Reservation near Monterey, CA from late March 1989-late July 1989, to help with ongoing long-term studies of behavioral ecology of Acorn Woodpeckers and Western Bluebirds. Duties include censusing and banding birds, radio telemetry, and infinite numbers of behavioral watches. Experience with birds desirable, but enthusiasm for observing a must. All positions include stipend and free housing. Contact: **Mark Stanback/Walt Koenig**, Hastings Reservation, Star Route Box 80, Carmel Valley, CA 93924. Phone: 408-659-2664, 408-659-2908, or 408-659-3649.

FIELD ASSISTANTS NEEDED- North Dakota and Minnesota, 1 April-15 Aug 1989 for study of Mallard behavior and nesting ecology. Salary \$1100-1300/Mo. Duties include making quantitative behavioral observations, nest searching, and capturing, marking, and radio-tracking hens and young. Ability to identify waterfowl, make careful detailed observations, work well with others, read color markers, and spend long hours in the field using binoculars and scopes essential; experience in behavior and waterfowl research preferred. Send SF-171 (Personal Qualifications Statement) plus a copy of college transcripts to: Personnel, Northern Prairie Wildlife Research Center, P.O.Box 2096, Jamestown, ND 58402, before 31 Dec 1988.

SUMMER FELLOWSHIP- in field biology, predoctoral students; stipend \$2000. Fellows pay modest fees for room/board and lab space. A candidate's work should have a component for which a summer at the lab would be especially profitable. The 40 ha lab located on glacial terrain on western shore of deep West Okoboji Lake. Many small lakes, wetlands, prairies, streams and woodlands nearby. Potential applicants should contact the director and/or send an application including a cover letter, vita, 1 to 2 page synopsis of proposed project, and 2 letters of support, including one from the research advisor. Specific reasons why the station is particularly suitable are critical to the application. Contact: **Richard V. Bovbjerg**, Director, Dept

Biol, Univ Iowa, Iowa City, IA 52242. Applications will be accepted to 1 April 1989.

FIELD STUDIES for GRAD STUDENTS- Avian Behaviour Laboratory, Manitoba, Canada, involving waterfowl behavior, particularly the mechanisms mediating attachments in 200 mallard ducks and approx 100 Giant Canada Geese residing at field station. Rent-free living accommodations for a maximum of two students in a modified caboose/observatory located on the grounds of the Field Station 12 miles south of Univ that is insulated, paneled, heated, hot and cold running water, shower, refrigerator, kitchen area, bedroom, study area, and outhouse; some cooking and eating utensils can be provided; a vehicle required to transport student(s) to/from campus. Students desiring these accommodations must be neat in personal habits, physically fit, non-smokers, mature, able to tolerate cold weather, independent, and be prepared to remain alone for a few days at a time. Students will look after/supervise Field Station and participate in research conducted there; must also meet requirements of Faculty of Grad Studies at Univ Manitoba and be accepted into Grad Program in Psych. (Mere acceptance into grad program does not automatically qualify one for rent-free living accommodations. One has to be interested in working with waterfowl, desire at least a master's degree and want to work with Dr. Shapiro, Avian Behaviour Laboratory Director.) Contact: **Dr. L. James Shapiro**, Director, Avian Behaviour Laboratory, Dept Psych, Univ Manitoba, Winnipeg, Manitoba, Canada R3T 2N2. For info and application forms to the Graduate Program at Univ, write: **Dr. Warren Eaton**, Assoc. Head, Graduate Programme, Dept Psych, univ address as above.

ASSISTANTS/FIELD STUDY- Avian Mating Systems- 1 March-15 Aug 1989, Mountain Lake Biol Station in Virginia (some flex in starting date). Activities include mist-netting, blood sampling, hand-rearing of nestlings, radio telemetry, nest-watching, data entry and analysis. Room, board, transportation allowance, and small stipend provided. Successful applicants need to be energetic, intelligent, resistant to cold and damp, cheerful when tired. Work is rewarding if you are interested in animal behavior and like to be outdoors. Preference for 2 types of applicants: (1) the inexperienced person who thinks he/she might be interested in career in biol but has had little opportunity to do research, and (2) the person with lots of field experience who is still interested in learning more. Write: **Ellen D. Ketterson and Val Nolan, Jr.**, Dept Biol, Indiana Univ, Bloomington, IN 47405. Phone: 812-335-6837. Include summary of your background, objectives in applying for position, names, addresses, phone numbers of people who might evaluate your work or potential.

FIELD RESEARCH ASSISTANTS- April-Aug 1989. Research in Apalachicola National Forest near Tallahassee FL conducted into reproductive behavior of barking treefrog (*Hyla gratiosa*) involves marking males and females, censusing ponds for marked individuals, radio-tracking males. Room/board provided. Anyone available for at least 2 months of the study encouraged to apply. Send names of 2 references and letter describing interests, goals, and summary of relevant coursework and research experience to: **Klit Murphy**, Section of Neurobiol and Behav, Cornell Univ, Ithaca NY 14853. Phone: 607-255-2255.

M.S. GRADUATE ASSISTANTSHIP- WATERFOWL RESEARCH- available 1 Jan 1989 or later (renewable over 3 yrs); full stipend (\$9271/Yr); for M.S. candidate to investigate influence of age and body condition on habitat use and movements of female canvasbacks wintering in Louisiana. Applicants with interests in animal behavior and quantitative ecology, experience with microcomputers and radiotelemetry desired. Successful applicant must meet requirements for admission to grad study in School of Forestry, Wildlife, and Fisheries, Louisiana State Univ, Baton

Rouge. Send resume, GRE scores, copies of college transcripts, names and phone numbers of 3 references to: **Dr. Alan D. Afton**, Louisiana Cooperative Fish and Wildlife Research Unit, 310A Forestry, Wildlife, and Fisheries Bldg, LSU, Baton Rouge, LA 70803. Phone: 504-388-4212.

VOLUNTEER FIELD ASSISTANTS- March-June 1989, June-August 1989 for field research on behavioral ecology of Purple Martins. First phase (Mar-June) will take place at Univ Oklahoma Biol Station, Lake Texoma, OK. Second phase (June-Aug) of study will take place in lower Sonoran desert, near Tucson, AZ, where martins breed in cavities in large saguaro cacti. Applicants welcome to apply for one or both phases of research. Some funds available for room/board costs; no salary. Send resume to: **Bridget J. Stutchbury**, Dept Biol, Yale Univ, New Haven, CT 06511.

FIELD RESEARCH ASSISTANTS- 1 March-20 June 1989 to assist with long-term ecological/behavioral study of blackbirds at Columbia NWR in eastern Washington. Will be responsible for monitoring breeding behavior of individual birds, trapping and banding, helping with behavioral experiments and radio-tracking, taking blood samples. Ongoing experiments are related to site selection, territoriality, vocalizations. Modern living in nearby town. Salary will more than cover living expenses. People with field experience given preference. Send resume and a letter of recommendation to: **Les Beletsky**, Dept Zool NJ-15, Univ Washington, Seattle, WA 98195. Phone: 206-543-1812.

FIELD ASSISTANTS NEEDED- from 10-20 May (arrival flexible) until approx 15 July 1989 for continuing long-term research on coloniality and social behavior of cliff swallows. Study site near Ogallala, NE, about 200 miles northeast of Denver. Research focuses on social foraging, ectoparasitism, life histories, and alternative reproductive tactics. Duties include banding, recording data, assisting with tape-playbacks of calls, observing color-marked birds at nests. Previous field experience desirable but not necessary. Only nonsmokers should inquire. Contact: **Charles R. Brown**, Dept Biol, Yale Univ, New Haven, CT 06511. (Mailing address until 31 March 1989: Burke Museum, DB-10, Univ Washington, Seattle, WA 98195. Phone: 206-545-0546 or 206-367-8797.)

POSTDOCTORAL RESEARCH POSITION- available immediately in Psych lab with general emphasis on animal cognition. Primary focus has been on numerical and logical abilities of animals. Most (but not all) experiments have involved rat subjects. We will consider broadening the scope of our approach both in terms of species and methodology to accommodate the talents and training of person we hire. Pay scale within NSERC federal guidelines. Possibility exists for supplementing income by undergraduate teaching. Contact: **Hank Davis**, Dept Psych, Univ Guelph, Ontario, Canada N1G 2W1 for details as soon as possible. Phone: 519-824-4120, Ext 3504.

VOLUNTEER FIELD ASSISTANTS- needed on small independent project to assist Univ Kansas Ph.D. student with behavioral ecology study of white-tailed prairie dogs in northern central Colorado from March-Aug (or any portion of at least one month). Applicants for March/April must be able to cross-country ski and provide own equipment. Research involves behavioral observations, trapping, ear tagging, dye marking, blood sampling, and vegetation sampling. Room and board provided. To apply send letter of application, resume, and 2 letters of recommendation to **Lynn Cooke**, Dept Systematics and Ecol, Univ Kansas, Lawrence, KS 66045.

RESEARCH ASSISTANTSHIPS: SNAKE/REPTILE ECOLOGY (one, possibly 2 positions)- for a 2-year, state-funded grant on the evolution of life-history characteristics of snakes.

Responsibilities include collecting snakes in Arizona, Texas, Louisiana, and Missouri, helping maintain snakes in captivity, data analysis and interpretation. Students would be encouraged to develop their Master's thesis from this research, but other projects are also available. Stipend - \$6500/Yr, with a full out-of-state tuition waiver. Positions are available as early as January 1989, but could start as late as summer 1989. University operates the Turtle Cove Biol Research Station, a 3-story field station located in an extensive Louisiana marsh that provides laboratory and full living quarters (air conditioning, showers, washer/dryer, full kitchen), and easy access to a variety of interesting habitats and research projects. Dept Biol has 22 faculty members with wide range of teaching and research interests. Facilities include mainframe and microcomputers, two SEM's, darkroom, moderate-sized museum, and complete assortment of field equipment; an excellent opportunity for graduate student research. Contact: **Richard A. Selgel**, Dept Biol Sci, Southeastern Louisiana Univ, P. O. Box 814, Hammond, LA 70402. Phone: 504-549-2162/3740.

FORENSIC ZOOLOGY DISCUSSION GROUP- invites submissions to their newsletter. Topics can include observations on collection, protection and presentation of evidence, the role of the forensic laboratory, veterinary forensic medicine, and requests for assistance in a project. Contact: **M. J. Chapman Associates**, Vet Surgeons, 351 Kennington Road, London, UK SE11 4QE.

EQUINE BEHAVIOUR STUDY CIRCLE- begun in 1976, has an international membership of veterinarians, breeders, researchers and amateur horsemen. Topics covered in the journal (*Equine Behaviour*) and newsletter include: traffic shyness, misbehaviors, breeding behavior disorders in the stallion, motor transport problems, how horses avoid poisonous grasses, tonic immobility, riding therapy for autistic/epileptic children, etc. Contact: **Dr. Moyra Williams**, EBSC Chairman, Leyland Farm, Gawcott, Bucks, UK MK18 4HS or **Ms. Jane Lucas**, EBSC Treasurer, Flat 2, 169 Sumatra Road, West Hempstead, London, UK NW6 1PE.

ANNOUNCEMENTS

CALL FOR WORKSHOPS: ASSOCIATION FOR BIOLOGY LABORATORY EDUCATION (ABLE)

Each year, at its annual meeting, ABLE presents 12-15 reliable innovative hands-on workshops suitable for undergraduate biology laboratory courses. Workshops cover diverse disciplines and levels within biology, ranging from exercises aimed at non-majors to ones appropriate for advanced, specialized upper division courses. Workshops that successfully apply new ideas, materials, or approaches, or that use non-traditional organisms in a classroom setting are especially sought. The 1989 meeting will be at Univ New Brunswick, 12-16 June. If interested in presenting a workshop, contact: **Angelique Gloss**, Dept Biol, Univ New Brunswick, Bag Service 45111, Fredericton, NB, E3B 6E1 Canada; phone: 506-453-4589; or **Jon Glase**, Section Neurobiol and Behav, 1130 Comstock Hall, Cornell Univ, Ithaca, NY 14853; phone: 607-255-3007. Deadline date is 15 Dec 1988.

THE EDUCATION, FILM AND ANIMAL CARE COMMITTEES- are organizing a paper session/workshop for the 1990 ABS Meeting on the humane use of animals in teaching. We are interested in presentations illustrating techniques for reducing the use of live animals (e.g., films, videotapes or computer simulations) and techniques for using live animals more humanely. If you have developed a

technique or project and are interested in presenting it at the 1990 ABS Meeting, please contact **Larry Williams**, Dept Comp Med, Primate Research Lab, College of Medicine, Univ South Alabama, Mobile, AL 36688, **Jack Demarest**, Dept Psych, Monmouth College, West Long Branch, NJ 07740 (Phone: 201-571-3684); or **Janis Driscoll**, Dept Psych, Univ Colorado at Denver, Denver, CO 80204.

MATING SUCCESS OF HOUSE MICE- is a laboratory exercise seeking an anthology or laboratory exercise manual. Should anyone wish to include this exercise in a book they are writing or editing, please contact **Ann Eileen Miller Baker** (AEBAKER@CSUGREEN.BITNET), Biol Dept, CSU, Fort Collins CO 80523. Phone: 303-491-5307.

ANIMAL MISBEHAVIOUR CONTRIBUTIONS SOUGHT- for an edition of *Anim Misbehav* for the 1989 ABS Conference. I would like to encourage everyone with an anecdote, song, article or prose to contribute. Let's make this *Anim Misbehav* great for the 25th Anniversary of ABS. Send to: **Ronald G. Langley**, Univ Colo, Dept Biol, 1200 Larimer, Denver CO 80204. BITNET address: RLANGLEY@CUDENVER.

DAVIS UNIVERSAL FEEDERS WANTED- for purchase, rent or loan. Feeders are no longer available through Davis Scientific Instruments, Inc. Primary interest in 100 unit size, but would consider other sizes as well. Contact: **Dr. Alan Kamil**, Dept Psych, Univ Massachusetts, Amherst, MA 01003. Phone: 413-545-0255, or **Henry Kono**, Middlesex House (3rd Floor), Univ Massachusetts, Amherst, MA 01003. Phone: 413-545-0255.

POTENTIAL ALLEE AWARD COMPETITION PARTICIPANTS- This year for the first time Allee participants must submit their manuscripts WITH their Abstract forms and other registration materials. This will require more advanced planning than has been needed in previous years. We hope you will not be deterred from participating. In addition to the Cash Award from the Animal Behavior Society and the book awards from Univ Chicago Press and Sinauer Assoc, we hope to have book awards from additional publishers. If you have any questions about the Allee Award process contact: **Charles T. Snowdon**, Second President-Elect, Dept Psych, Univ Wisconsin, 1202 West Johnson St., Madison WI 53706. Phone: 608-262-3974. Bitnet: SNOWDON@WISCMACC.

A LETTER from J.T. SPENCE to DAVE CHISZAR:

"One way or another you have probably learned that a new organization, the American Psychological Society, has been formed to represent the interests of academic and research-oriented psychology. The impetus for founding APS came from an ad hoc group of science-minded APA members working for APA reorganization who were ready to form a new society in the likely event that the reorganization plan sent to the APA membership failed. It did, and we did. APS, however, seeks to attract not only current APA members but also academic research people who never joined or dropped out of APA in disillusionment over its drift into being an organization primarily of professional, health care psychologists.

"I am writing to you in your capacity as Secretary of the Animal Behavior Society to solicit the interest of your officers in joining APS as an affiliate. I am enclosing a brochure and a column about APS and would be glad to supply any additional information that I can. APA's Division 6 (Physiological) has voted to affiliate, you might be interested to hear. In addition, would you be willing to send me a Directory of your Society and allow APS to send a letter to your members asking them to join? (No endorsement on your part necessarily implied.) We are launching a recruiting drive for individual members aimed at academic departments of psychology. However, some potential members have other affiliations and in any event, double coverage shouldn't hurt. If you have a newsletter and would like to print an item about APS, that would be great.

"If you have any questions, please feel free to write me or to call me at 512-471-4308.

"Sincerely yours,
Janet T. Spence, President, APS

Dept Psych, Univ Texas at Austin, P.O.Box 1553, Austin TX 78712."

EDITOR'S NOTE: The sentence regarding ABS becoming an affiliate of APS is, of course, a matter for the ABS Executive Committee to consider at its next meeting. I include the full text of Dr. Spence's letter to apprise the membership that the invitation has been offered, and to inform ABS members that--as individuals--they should feel free to correspond with Dr. Spence if they wish to join APS. I have elected to publish Dr. Spence's letter in lieu of sending her our membership directory. Hence, ABS members will not receive a separate mailing from APS (as far as I know). Newsletter space does not permit publication of the brochure and column mentioned in Dr. Spence's letter, but I'm certain she will mail these items to any ABS members requesting them.

PHOTOGRAPHS NEEDED- showing persons and events at annual ABS meetings, especially early ones. Send prints (2 copies if possible) to Donald Dewsbury, ABS Historian, Dept Psych, Univ Florida, Gainesville FL 32611. One copy will be placed with ABS Archives, the other will be used in a special exhibit at the 25th anniversary meeting.

THE ELEPHANT EMERGENCY- At the 1988 ABS Business Meeting in Missoula, the membership was made aware of the declining African elephant population. Lynette A. Hart has provided the following update:

Several recent articles have sounded an alarm concerning the growing elephant emergency in East Africa, particularly in recent issues of *Swara* of the East African Wildlife Society [Vol. 11, Nos. 2 (Mar/Apr), 3 (May/Jun), 4 (Jul/Aug), 1988]. Elephant populations in Kenya, Tanzania, and Uganda are sharply declining, and the percentage of loss is often greatest in some of the largest parks where historically elephants flourished, such as Tsavo and Murchison Falls National Parks. The Serengeti over the past six years has declined from 3,000 to 500 elephants, and even the remote Selous appears to have lost half its elephants since 1972. Detailed documentation can be found in the UNEP/GEMS/WWF African Elephant Database Project--Final Report Phase One of June 1987.

During the past few years poaching squads have adopted serious weapons and escalated their killing rate. With

decreasing availability of large tusks, the price of ivory shoots up higher, fueling this new type of gold rush. Although the United States continues to be a major market for ivory, most people have little awareness of the current elephant crisis. Informing the public about this problem can help reduce our consumption of ivory. As noted in a recent issue of *Audubon*, many people do not know that ivory comes from elephants. Spreading the word can make ivory products unacceptable to individuals concerned for elephants and can motivate people to put their energies toward elephants.

Recent articles in the *Animal Keepers' Forum* (August, September, October 1988) have reported on hearings held by two House subcommittees on methods of protecting elephants. In June, hearings were held by the House Subcommittee on Natural Resources, Agriculture, Research, and Environment and the Subcommittee on Fisheries and Wildlife Conservation and the Environment. Pending legislative proposals called for stronger controls on the trade in African elephant ivory, including a total ban on elephant products coming into the United States. The U. S. Fish and Wildlife Service opposed such a ban at this time, fearing it could undermine the efforts of African nations to control poaching and illegal trade. However, the USFWS committed \$50,000 to be used for elephant conservation in Africa. The World Wildlife Fund also pledged to match up to \$4 million in Federal funds for elephant conservation.

In August the House Subcommittee on Fisheries and Wildlife Conservation and the Environment held a mark-up of H.R. 2999, the African Elephant Conservation Act. An amendment would allow continued importation from nations that effectively protect their elephants. The USFWS would evaluate whether those nations meet the conservation criteria set forth in the bill.

Whether corrective action can proceed quickly enough is the question. With the present offtake of ivory, the elephant will soon approach extinction, "at which time they will become completely insignificant as a cultural heritage, an aesthetic treasure, or an economic resource.... It should go down on record that the future of the African elephant rests primarily not with the killers of elephants but with the consumers of their ivory" (Buying ivory kills elephants. *Swara* 11(4):6-7, 1988).

ADDENDUM: Recently the U.S. Congress revitalized and passed a strengthened Endangered Species Act. A feature of the long-debated compromise bill may benefit the dwindling population of African elephants, as G. Byrne summarizes in *Science* 242:190 (14 Oct 1988): "Congress authorized \$25 million over the next 5 years to review the elephant conservation programs of ivory-producing African nations and to bar ivory imports from nations whose programs are inadequate. The bill bars U.S. imports from nations without a native elephant population, and requires American importers to obtain a license from the Interior Department."

Although the revised ESA authorizes funding, it is well to remember that the Department of the Interior may not initiate a request and Congress may not actually appropriate funds for elephant programs without continued pressure from citizens and interest groups. -- Report submitted by Geo. H. Waring, Chair, Public Affairs Committee.

TWENTY-FIFTH ANNIVERSARY MEETINGS - ANIMAL BEHAVIOR SOCIETY
11-17 JUNE 1989
NORTHERN KENTUCKY UNIVERSITY, HIGHLAND HEIGHTS, KENTUCKY

Northern Kentucky University and the University of Cincinnati take pleasure in inviting you to attend the Twenty-Fifth Anniversary Meetings of the Animal Behavior Society. Greater Cincinnati combines the traditions of old river communities, the culture and opportunities of a major urban area, and the beauty and adventure of Kentucky, Ohio, and Indiana. In this invitation we are joined by Thomas More College, the Cincinnati Nature Center, the Cincinnati Zoo and Botanical Garden, and the Cincinnati Museum of Natural History.

June is an ideal time to visit Northern Kentucky and Cincinnati. Evenings are cool without being cold; days, warm and sunny. Occasionally there are spring rains so it is wise to have an umbrella. Cultural opportunities in the area include open air concerts, both popular and classical, at Riverbend across the Ohio River from Northern Kentucky University; outstanding art museums; and Cincinnati Summer Opera. Local activities of biological interest include our internationally acclaimed Cincinnati Zoo, Cincinnati Museum of Natural History, Big Bone Lick State Park, and Cincinnati Nature Center, a pioneer in environmental and agricultural education. Within easy driving are the bluegrass region of Kentucky, Red River Gorge, and Hueston Woods and Shawnee State Parks. Come and enjoy outstanding meetings in an outstanding area.

HOST UNIVERSITIES

Northern Kentucky University, the newest of Kentucky's eight state universities, was founded in 1968. The first building on the new campus in Highland Heights was completed for fall semester 1972; the first bachelor's degrees were awarded in May 1973. Since then the campus and the curriculum have continually expanded, and now the award-winning campus serves over 9,000 students. Full university status was gained in 1976.

The University of Cincinnati, founded in 1819 as a municipal university, joined the state system of higher education in 1977. It is home to 19 colleges and professional schools, has over 35,000 students, and approximately 1700 full-time faculty. The Department of Biological Sciences, offering M.S. and Ph.D. degrees, includes a variety of subdiscipline areas for specialization, including behavior, ecology, and evolutionary biology.

TRAVEL ARRANGEMENTS

The main campus of Northern Kentucky University is on 300 acres of rolling countryside along U.S. Highway 27 in Highland Heights, seven miles southeast of Cincinnati near the junction of highways I-275 and I-471. Highways I-71, I-74, and I-75 serve the region from the north, and I-71 and I-75 enter it from the south. Highway I-275 is a beltway around the metropolitan area; I-471 connects the University directly to downtown Cincinnati.

The Northern Kentucky and Cincinnati area is centrally located and accessible from all parts of the U.S. It is a major airline "hub" for Delta Airlines. Eight other airlines have daily flights in and out of the Greater Cincinnati International Airport, which happens to be located in Northern Kentucky. Cincinnati has good bus connections (Croswell, Greyhound, and Trailways) and is a stop on the Amtrak line between Chicago and Washington, D.C.

Air Transportation: Delta Airlines is the officially designated air carrier for the 1989 ABS Meetings. Special reduced rates have been negotiated on Delta by Kim Collings of Travel House Travel Agency: a minimum of 5% off the least expensive fares, and 40% off the regular tourist fares. Travel House has a special toll-free number for the meetings:

1-800-233-7790 (if outside the U.S., call 513-871-1668).

When calling, mention you are attending the ABS Meetings. Even if you cannot use the designated airline, Kim Collings can help you obtain the best rates on other airlines. It is to your advantage to make travel arrangements as soon as possible.

Shuttle service: Shuttle van service will meet airline arrivals arranged through Travel House and any others whose arrival times are reported to Travel House. There will be a nominal charge -- lower than taxis or limos -- for this service (based on the number of people arriving on each flight), payable to the van or bus driver. If you are arriving by bus, please inform Kim Collings at Travel House, and she will see that shuttle service is arranged for you. If you are to be lodged at Drawbridge Inn, use the Hotel's free van service from the airport.

Car Rentals: Travel House will handle car rentals for ABS participants who wish to rent cars. Special rates are available for conference participants; or you may wish to use personal cards that convey car rental discounts. To arrange for a rental car, call the special Travel House number, 1-800-233-7790.

FACILITIES

Opened in 1982, Northern's residence halls resemble a park lodge, and are no more than a 5-minute walk to any campus building. All buildings are constructed without architectural barriers for access by the disabled and all have the latest life/fire safety equipment. Because Northern is primarily a commuter school, the number of dorm rooms is somewhat limited. Currently 176 rooms (352 beds) are available for the conference. An additional 80 rooms (160 beds) are available at Thomas More College, a 15-minute drive away on I-275. Shuttle service will be provided between the two campuses. Conferees are encouraged to share rooms. Rooms will be assigned on a first-come, first-served basis, as paid reservations are received. Once all rooms are filled, registrants will be notified of the need to make other arrangements. Arrangements have been made for special rates at Drawbridge Inn, Ft. Mitchell, KY, to house any overflow and for those wishing motel accommodations. Shuttles will also be run from campus to Drawbridge Inn.

Dormitory room rates will be \$18.00 for a single room and \$9.50 per person double occupancy. Linens are not provided with the rooms. A linen package can be rented for a one-time charge of \$10.00. The package includes sheets, pillowcase, towels, washcloths, and a blanket; extra blankets can be rented for \$4.00 each.

Ample free parking will be available on campus. Please let us know if you require parking in a space for handicapped. Camping is not permitted on the NKU campus. Campsites are available at A. J. Jolly Park, about 12 miles south of campus on Route 27. Further information on campgrounds will be sent on request.

Recreational facilities are available, including: soccer fields and running track; tennis courts; and intramural fields for football and softball. The new Albright Health Center, offers an indoor swimming pool, track, specialty courts, and other indoor sports and conditioning programs. Conferees will be able to buy passes for the Albright Center that will entitle them to use the facilities and to check out equipment. Cost of the passes is \$2.00 per day or \$10.00 per week.

MEALS

On-campus meals, catered by Seiler's Catering, will be served in the University Center. Costs will be: Breakfast -- \$3.90, Lunch - \$4.85, and Dinner -- \$7.25. Buffet menus will be varied and should satisfy a variety of tastes.

SPECIAL EVENTS

Sunday, 11 June, Evening Picnic. This will be held on the lawn of the NKU President's home and will feature regional specialties. A team of draft horses, provided by Long Branch Farm, the educational farm of Cincinnati Nature Center, will be available to take picnickers on hayride tours of the campus. Cost of the picnic will be \$9.00

Thursday, 15 June, Banquet/Barbecue. Conferees will be bussed from the dorms to the Cincinnati Zoo where a barbecue meal will be served. After the banquet formalities there will be time to explore the zoo exhibits. The cost of \$12.50 will include transportation. Admission to the zoo is provided as a professional courtesy.

[**SPECIAL BULLETIN:** We have just heard that a "Jazzoo Concert" is being planned for later in the evening at the zoo. Featured at this concert will be a major big band jazz group. The cost of tickets for this concert has not been firmly established, but will be less than \$10.00. If you are interested in attending the concert, indicate this on the registration form.]

Friday, 16 June, Dinner Cruise. Conferees will be bussed from the dorms to the shores of the Ohio River where they will board the paddle-wheeler "Becky Thatcher" for a three-hour river cruise. Buffet dinner will be served on the boat as we pass the lights and sights of the Ohio and Kentucky shores. The cost of \$27.00 includes transportation, cruise, and meal. A cash bar will be available.

OPTIONAL ACTIVITIES

NOTE: Prices for these trips are based on the formation of minimum groups (to cover the costs of transportation). We are therefore asking for only a \$10.00 deposit per person with registration. Please indicate your interest on the registration form. Subsequent correspondence will provide final prices for each; prices may be lower if there is considerable interest. Deposits will be refunded if groups do not "make up" for a particular date.

Kentucky Horse Park Field Trips.

Sunday, 11 June. Saturday, 17 June. 9:00 a.m. - 4:30 p.m.
Approximate prices: Adult - \$17. 7-12 Yrs - \$15. 6 & under - \$13.
Included in the fee: transportation, admission fee for the horse park.
Not included: meal(s), rental of riding horses, and carriage rides.

We'll travel by bus to the park, which is an unique state park devoted entirely to horses and equine history. The Horse Park has a museum on evolution and biology of horses, and on horses in war, sport, and agriculture. There are living educational displays throughout the park, carriage and wagon rides, and demonstrations of the performance abilities of different breeds.

King's Island Trips.

Sunday, 11 June. Saturday, 17 June. 9:00 a.m. - 4:30 p.m.
Approximate prices: Adult - \$22. 6-10 Yrs - \$18. 3-5 Yrs - \$15.
Included in the fee for this trip: Transportation to King's Island, admission to the park.
Not included: refreshments, lunch.

A famous and popular amusement park located just northeast of Cincinnati, King's Island is noted for its creatively designed (and thrilling!) rides, including several diabolical roller coasters. It is also known for its wild animal park, featuring animals at liberty in large enclosures, viewed from a monorail passing through the habitat. King's Island, the Cincinnati Zoo, and the University of Cincinnati are partners in a captive breeding program that utilizes embryo transplant to aid reproduction of rare antelopes and wild felids like the cheetah.

Red River Gorge Field Trip.

Saturday, 17 June. 8:00 a.m. - 5:30 p.m.
Fee: \$12.00, includes transportation and a box lunch.

After the meetings, stretch your legs and see some of the most beautiful scenery in Kentucky. On this trip to the Red River Gorge/Natural Bridge State Park area at the edge of the Appalachian Plateau, you will hike to soaring sandstone arches, or along sparkling creeks. Field trips will be led by folks familiar with the area's natural history, and with the tremendous (and ongoing) efforts to save it from being inundated by a lake. You will identify rare ferns and early summer wildflowers and, in general, put yourself back in touch with the natural world. We will plan hikes for all levels of physical ability.

For more information:

If you have any questions or special requests, do not hesitate to contact co-host Tom Rambo, Department of Biological Sciences, Northern Kentucky University, Highland Heights, KY 41076. Phone: 606-572-5305.

Housing

Housing is limited. There are 176 double rooms available on the Northern Kentucky University campus, with 80 additional rooms on the campus of Thomas More College, a 15-minute drive away. Shuttles will be run to and from Thomas More College. *You are encouraged to share rooms.* Rooms will be assigned on a first come, first served basis, as paid reservations are received. If rooms are filled, you will be sent information about motels.

Single Room: \$18.00 per night

Circle nights requested: June 10 11 12 13 14 15 16 17
_____ (No. of nights) x _____ (No. of rooms) x \$18.00 = \$ _____

Double Room: \$11.50 per night per person. Name of Roommate: _____

_____ Please assign me a roommate. I prefer: ___ Smoking ___ Non-smoking ___ No preference

Circle nights requested: June 10 11 12 13 14 15 16 17
_____ (No. of nights) x _____ (No. of people) x \$11.50 = \$ _____

Linens: Linens are not provided with the rooms. A linen package can be rented for a one-time charge of \$10.00, regardless of how many nights you stay. The package includes sheets, pillowcase, towels, washcloths, and a blanket. Extra blankets can also be rented for \$4.00 apiece.

_____ (No. of linen packages) x \$10.00 = \$ _____

Housing Subtotal: \$ _____

_____ If you prefer to stay in a motel, check here to request information on motels.

T-Shirts (sizes S, M, L, XL)

Size of T-shirt supplied with registration: _____

Additional T-shirts: _____ S _____ M _____ L _____ XL

Total additional T-shirts _____ x \$6.00 = \$ _____

Optional Activities

King's Island trip (6/11) _____ deposits x \$10.00 = \$ _____

Kentucky Horse Park tour (6/11) _____ deposits x \$10.00 = \$ _____

King's Island trip (6/17) _____ deposits x \$10.00 = \$ _____

Kentucky Horse Park tour (6/17) _____ deposits x \$10.00 = \$ _____

Red River Gorge trip (6/17) _____ deposits x \$10.00 = \$ _____

Total Optional Activities: \$ _____

_____ Check here if you are interested in purchasing tickets for the "Jazzoo" concert following the banquet.
How many tickets do you want? _____ You will be informed of the program as soon as it is announced.

Summary

Registration subtotal: \$ _____

Housing subtotal: \$ _____

Food subtotal: \$ _____

Additional T-shirts: \$ _____

Optional activities: \$ _____

GRAND TOTAL: \$ _____

Make checks payable to "1989 ABS Meetings". Entire payment must accompany registration form. Refunds, less \$25.00 administration fee, will be made if we receive written notification of your change of plans by 1 May 1989. *NO refunds will be issued after 1 May 1989*, except in cases of severe personal emergency.

Mail to: 1989 Animal Behavior Society Meetings
c/o Dr. Thomas C. Rambo
Department of Biological Sciences
Northern Kentucky University
Highland Heights, KY 41076

**1989 ANNUAL MEETING OF THE ANIMAL BEHAVIOR
SOCIETY
11 - 17 JUNE 1989, NORTHERN KENTUCKY
UNIVERSITY
HIGHLAND HEIGHTS, KY**

CALL FOR PAPERS: A Transmittal Form and Abstract Preparation Form for contributed papers are included here. There are three types of contributed papers: 20 min (15 min for presentation and 5 min for discussion), 5 min papers and poster papers. ABS members may present or sponsor only one contributed paper at an Annual Meeting. When a member co-authors 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. It is expected that the research reported at an Annual Meeting complies 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, Susan E. Riechert, Zoology Dept, Univ of Tennessee, Knoxville, TN 37996-0810.

DEADLINE FOR RECEIPT OF ABSTRACTS -- 15 FEB 1989 -- FIRM! ONLY SUBMISSIONS ON THE PROPER FORM WILL BE ACCEPTED. NOTE ALSO THAT IN ACCORDANCE WITH THE PRACTICES OF OTHER SOCIETIES, ABS NOW REQUIRES THAT INDIVIDUALS PREREGISTER AT THE TIME OF SUBMITTING AN ABSTRACT. The registration forms are included in this issue of the Newsletter and should be sent directly to the local host, Dr. Thomas C. Rambo, Northern Kentucky Univ, Highland Heights, KY 41076.

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 the poster paper sessions in Kentucky. 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 the award, please check the appropriate box on the transmittal form. ALL members of ABS presenting poster papers are eligible for the award. Details of the competition and some suggestions for what makes a good poster paper 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 1989 Annual Meeting. Any independent student research that is unpublished at the time of submission for the competition is eligible for this cash award so 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. All papers must

be single authored. 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 1989**. 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 the *Animal Behaviour* format. Note that a 1 page update can be submitted between 15 February and 1 June.

INVITED PAPER SESSIONS: The deadline for submission of proposals for both invited paper sessions and symposia is 1 Nov 1989. Contact the Program Officer for additional information.

ADVANCED WARNING: At the request of many who have attended the past several ABS Meetings, it is the intention of the Program Office to enforce the original rule regarding 20 min contributed papers. Namely, 15 min are for the paper presentation and 5 min are for discussion. PLEASE PLAN ACCORDINGLY FOR THE 1989 MEETING! We were quite successful with this rule for the last three years and hope to keep it this way since the program is getting longer and more complex each year.

ABSTRACT PREPARATION:

1. Abstracts will be photographed just as you submit them; you must follow the suggested format.
2. Abstracts should be typed in a 3" x 7" space, such as provided on the transmittal form. Letters should not touch the lines. Single space all typing, leaving no top or left margins.
3. 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 very wary of abstracts printed by dot matrix printers - they often do not reproduce well.
4. Your abstract should be organized as follows:
 - a. Title - use CAP's; check to make 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. On page 12 we provide examples of a title and byline. DO NOT type your Abstract on page 12! Newsprint provides an inappropriate photographic background. Use plain bond.

SEND **TWO** COPIES OF THE ABSTRACT AND ONE COPY OF THE TRANSMITTAL FORM TO THE PROGRAM OFFICER.

DEADLINE FOR ALL ABSTRACTS IS 15 FEBRUARY 1989 !!!

Ex. of title lines (follow this format):

DISPERSAL PATTERNS IN THE DWARF MONGOOSE (*Helogale parvula*)
Jon P. Rood, Smithsonian Conservation and Research Center, Front Royal, Virginia

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. 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, then, IS advantageous.**

Animal Group:

Humans	Carnivores	Crustaceans	Arachnids
Ungulates	Rodents	Amphibia	Insects
Other Mammals	Marine Mammals	Reptiles	Other Invertebrates
Non-human Primates	Birds	Fishes	Molluscs

Subject:

Applied ethology	Genetics	Social Behavior
Behavioral ecology	Learning	Agonistic
Biological rhythms	Methodology	Altruism/kinship
Communication	Natural History	Courtship/mating
Development	Orientation/navigation	Dominance
Physiology/neuroethology	Theory	Mate choice
Predator/prey	Self maintenance	Intrasexual competition
		Parent-offspring relations
		Play behavior
		Territoriality

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

I would prefer to have my presentation in a session arranged by:

subject _____

taxonomic group _____

ANY SPECIAL REQUESTS THAT THE PROGRAM OFFICER WILL TRY TO ACCOMMODATE? _____

MEETINGS

AMERICAN SOCIETY OF ZOOLOGISTS- 27-30 Dec 1988, Hilton Square Hotel, San Francisco, CA. The Division of Animal Behavior will have its business meeting at 4:15 p.m., Weds, 28 Dec, followed by a social at 5:30 p.m. Two symposia are co-sponsored by ABS. The first is "Recent Developments in the Study of Animal Migration," arranged by H. Dingle and S. A. Gauthreaux, Jr., and meeting 29 Dec (a.m. and p.m.). Scheduled talks include: Introduction (H. Dingle); Recent developments in the study of animal orientation and navigation (K. P. Able); Geomagnetic sensitivity in marine animals: Possible magneto receptors and migration strategies (J. L. Kirschink); Migratory movements and atmospheric transport: The dynamics of spatial patterns in eolian migrants (S. A. Gauthreaux, Jr.); Intra-specific patterns of migratory behavior in marine animals (T. P. Quinn & R. D. Brodeur); Bioenergetic analysis of the adaptive significance of migratory behavior (J. J. Dodson & J. M. Miller); Physiological mechanisms of migration (M. A. Rankin); the evolutionary genetics of animal migration (H. Dingle); Migratory polymorphisms among the Insecta (D. A. Roff & D. J. Fairbairn); Theoretical aspects of migration: A review of models, predictions and pertinent observations (N. C. Stenseth); Animal migrations: Endangered phenomena (L. P. Brower); Summary and Discussion (S. A. Gauthreaux, Jr.).

The second co-sponsored symposium is "Parasites and Sexual Selection - Theory and Data", arranged by G. Hausfater and R. Thornhill, and meeting 27 Dec a.m. and p.m. Scheduled talks include: Introduction (G. Hausfater); Mate selection in relation to parasites in satin bowerbirds (G. Borgia); Parasite infection in relation to mating success in birds-of-paradise (S. Pruett-Jones); The red queen visits the sage grouse lek (M. Boyce, L. Johnson & M. Spurrier); Relationships between parasite load, mating success and phenotypic cues in male sage grouse (R. Gibson); Parasites and mate attraction in *Anolis* lizards (R. Trivers); Mate choice in relation to parasite infection in gray treefrogs (G. Hausfater, C. Gerhardt & G. Klump); Mate choice in relation to parasites in trinidad guppies (H. McMinn); Sexual selection for heritable resistance to parasites: population genetical considerations (W. D. Hamilton); Parasites and mate choice in red jungle fowl (M. Zuk, R. Thornhill, D. Ligon & K. Johnson); Mate choice and the heritability of resistance to parasites in pheasants (N. Hilgarth, W. D. Hamilton & A. Grofen); Parasitism and mating success in *Drosophila testacea* (J. Jaenike); Parasite virulence in relation to mating system structure in humans (B. Low); Summing up (R. Thornhill & A. Pomiankowski). Specific discussants have been assigned to each of the talks, but space does not permit listing each of these separately. Most presenters are serving as discussants on papers other than their own. The following are also serving as discussants: C. Kennedy, A. Lyles, W. Potts, & R. Tinsley.

THE WILSON ORNITHOLOGICAL SOCIETY will hold its 101st annual meeting at Saint Mary's College, Notre Dame, Indiana, 25-28 May 1989.

ASSOCIATION FOR BEHAVIOR ANALYSIS, 15th Annual Convention 24-28 May 1989, Hyatt-Regency Hotel, Milwaukee, WI. Submissions are now being accepted for review; deadline for receipt is 7 Dec 1988. For information, contact ABA, Western Michigan Univ, 258 Wood Hall, Kalamazoo, MI 49008-5052. Phone: 616-387-4494.

INTERNATIONAL ETHOLOGICAL CONFERENCE in UTRECHT, THE NETHERLANDS, 9-17 August 1989. The International Ethological Conference meets in alternate years and this coming summer the 21st meeting will be held in Utrecht, The Netherlands. This is the only international conference of animal behaviorists which is dedicated to the integration and synthesis of all aspects of animal behavior. The Madison IEC conference in 1987 had 536 participants from 38 countries, the 1985 meeting in Toulouse, France was attended by 907 animal behaviorists from 43 countries and similar attendance is expected in 1989. This conference is open to all those who wish to attend, including students. To receive further information, please write the conference organizers: XXIst International Ethological Conference, c/o QLT Convention Services, Keizersgracht 792, 1017 EC Amsterdam, The Netherlands. A call for papers and registration and housing information will be sent at the end of October.

ECOLOGY AND CONSERVATION OF NEOTROPICAL MIGRANT LANDBIRDS- a Symposium focusing on breeding, wintering, migration ecology, and population trends of North American migrant landbirds, 7-9 Dec 1989, Manomet, MA. Purpose is to update knowledge on basic ecology and conservation of migrant landbirds since the 1977 Smithsonian symposium. Both invited and contributed papers will be presented. Contact JOHN M. HAGAN, P.O. Box 936, Manomet Bird Observatory, Manomet, MA 02345. Phone: 508-224-6521.

ECOLOGICAL AND EVOLUTIONARY ETHOLOGY OF FISHES, SEVENTH CONFERENCE- May 1990. Hosted by: Dept Biol Sciences and the Bilby Research Center of Northern Arizona Univ, Flagstaff AZ. Historically the conference has been held in odd-numbered years. The decision to postpone the next conference by one year derives from (1) widespread limits on travel funds to attend conferences and (2) desire by many who attend the EEEF meetings to attend the International Ethological Congress held in the same, odd-numbered years. A more detailed announcement will be sent in early Fall 1988 to those receiving this mailing. Individuals or organizations wishing to be placed on the list should send their name and mailing address to the address below. As usual, symposia will be a central component of the conference. A symposium on behavioral genetics has been tentatively scheduled. Suggestions for additional topics of symposia will be welcomed, particularly from those willing to organize the symposia. Send all correspondences to: EEEF Conference. Attn: Anthony Mazeroll, Dept of Biol Sciences, Northern Arizona Univ, Flagstaff AZ 86011.

APPLICATION FOR MEMBERSHIP: ANIMAL BEHAVIOR SOCIETY

Name in full _____ Degrees _____

Address _____

_____ Phone _____

Position _____ Institution _____

- _____ Member- \$32 (U.S.) Receive Animal Behaviour and Newsletter
- _____ Student Member- \$18 Receive Animal Behaviour and Newsletter
- _____ Spouse Member- \$14 Receive Newsletter

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

Name _____ Signature _____

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

Mastercard # _____ or VISA # _____

Card Holder's Signature _____) to:

Send the application to: Robert Matthews, ABS Treasurer, Dept of Entomology, Univ of Georgia, Athens, GA 30602

David Chiszar
Dept of Psychology
Campus Box 345
University of Colorado
Boulder, Colorado 80303

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