



NEWSLETTER

Animal Behavior Society

Steve Reback

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A quarterly publication

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Maura Carew, Associate Editor

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AUGUST NEWSLETTER LATE

Because the annual meeting occurred in August and because this Newsletter could not be prepared until after the meeting, we are of necessity running behind our usual schedule. The main implication is that we are calling for the return of the ABS General Election Ballots by 31 Oct (rather than by 10 Oct, as in 1987).

ALLEE STUDENT COMPETITION AWARD

The winner of the 1988 Allee competition for the best student paper presentation at the annual convention was Patricia B. McConnell, Univ Wisconsin, for the paper entitled "Acoustic structure and receiver response in mammalian signal systems." There were two persons receiving honorable mention: Margaret A. Hodge, Univ Cincinnati, and Guy A. Hoelzer, Univ Arizona. A total of 19 Allee papers were presented in competition at the Missoula meeting.

THIRD FOUNDERS' MEMORIAL AWARD

The third ABS Founders' Memorial Award, given this year in the name of Frank Beach, for the best poster paper at the national convention was presented by Mandy B. Medvin, Duke University, for the poster entitled "Color change and visual signaling in the green anole (*A. carolinensis*)."

NEW FELLOWS OF THE SOCIETY

Six new Fellows were elected by the Executive Committee at the Missoula meeting: Jeanne Altmann, Colin Beer, Lincoln Brower, Patricia de Coursey, Millicent Ficken, and Frank Pitelka.

FIFTH ABS FILM FESTIVAL WINNERS

The winner of the 1988 Film Award (Commercial) was "The Secret Leopard", produced by Richard Matthews, Zebra Films, and distributed by Primetime Entertainment, Inc. Semifinalists were "To Be A Butterfly", produced by Oxford Scientific Films, Ltd; "The Rain Came", produced by Simon Trevor; "A Family of Chimps" produced by Filmmakers Library; and "Grizzlies", produced by National Geographic Society. The winner of the Jack Ward Competition (non-commercial) was "Raising Crane", produced by David Erickson, Ootek Productions.

BALLOT ENCLOSED FOR ABS ELECTION

Biographic information is enclosed (page 7) on the candidates for Second President-Elect, Program Officer, Parliamentarian, and Member-at-Large. Also information concerning

constitutional amendments can be found on page 8. BALLOT IS ON PAGE 8. PLEASE VOTE.

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 Bob Kull, Department of Biology, USAF Academy, Colorado Springs, Co 80840 or call him at 719-472-2828. 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.

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 November issue is 15 Oct. Send to D. Chiszar, address above.

ABS ANNUAL MEETING SITES

The 1989 meeting will be at Northern Kentucky Univ, 11-17 June; the 1990 meeting will be at SUNY Binghamton. Sites are desired for the 1991 and 1992 meetings (see Minutes, items 4 and 5 dd). 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 Mathews, 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 Franacisco State Univ, San Franacisco 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

ABS RESEARCH GRANTS

The objective of the grants is to provide financial support for the biological study of animal behavior in the broadest sense, including studies at all levels of organization using descriptive and/or experimental methods under natural and/or controlled conditions. The Chairperson will attempt to maintain a diversity of research interests and experiences on the Research Grants Committee when appointing new members.

Only members of the ABS may apply. Current members of the Executive Committee or the Research Grant Committee are ineligible. Grant awards may not exceed \$1000 (U.S.), and no individual may receive more than one award per year. Awards will not fund salaries, stipends, tuition, single items of equipment exceeding \$500 (U.S.), or indirect costs. The committee may recommend funding at a level less than the amount requested.

The following priorities will be used as guidelines by the Committee in awarding grants: 1. Graduate students, recent doctoral recipients, and postdoctoral fellows will receive priority over senior, established researchers. 2. Small projects, entire budget. a) Seed money for long-range funding by major funding source. b) Succinct projects not expected to result in long-term projects. 3. Primary funding with supplemental support expected from other source(s). 4. Equipment, with the expectation that it will be used in future projects. 5. Supplemental funding for a larger project.

CALL FOR ABS RESEARCH GRANT APPLICATIONS

The second Animal Behavior Society Research Grants Competition has just begun. It is open to all ABS members

seeking limited funds for research in any area of animal behavior. Awards will average about \$500 (U.S.), and in most cases will cover research for one year only.

Grants will be awarded on the basis of an annual competition. Those interested must request an application from the ABS Research Grants Committee Chairperson, Janet Randall (address below).

Completed applications must be postmarked by 15 November and sent to Janet Randall, Dept of Biol, San Francisco State Univ, San Francisco, CA 94132. Proposal reviews will be completed in February, and awardees notified by letter in early April.

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.)

POSTDOCTORAL POSITION. Available immediately until 1991. Research program in the endocrine mechanisms of pheromonal communication producing estrous synchrony, suppression and enhancement among female rats. Ph.D. in psychology, biology, or physiology is required. Experience with endocrine studies would be an asset. Send curriculum vitae, three letters of reference and a brief statement of research interest to M. K. McClintock, Department of Behavioral Sciences, The University of Chicago, 5730 South Woodlawn Avenue, Chicago, IL 60637.

FIELD ASSISTANT, a volunteer is needed from 1 October - 31 Jan. to assist in a field study of the mating systems of teal near Cuzco, Peru. Activities include mist-netting, marking, censusing, and behavioral observations. Familiarity with Spanish is helpful. Volunteer is expected to be enthusiastic, and able to endure long hours in the field. Volunteer may participate for any period of at least a month long. Room and board will be provided; transportation to Cuzco will not be provided. Send letter of interest, CV and phone numbers of 2 references to MARK H. HART, J. H. Bell Museum of Nat. History, 10 Church St. SE, Minneapolis, MN 55455 (612-624-0057).

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.

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.

M.S. GRADUATE ASSISTANTSHIP - WATERFOWL RESEARCH. Full stipend (\$8705/yr) available 1 September 1988 (renewable over 3 years) for a M.S. candidate to investigate the 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, and experience with microcomputers and radiotelemetry are desired. The successful applicant must meet requirements for admission to graduate study in the School of Forestry, Wildlife and Fisheries, Louisiana State University at Baton Rouge. Send Resume, GRE scores, copies of college transcripts, and 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, (504) 388-4212.

POSTDOCTORAL POSITION AVAILABLE IN NEUROLOGY AND BEHAVIOR. Behavioral neuroscientists from the departments of Zoology and Psychology University of Texas at Austin have obtained an NIMH Training Grant beginning in September, 1988, that focuses on the neurobiological bases of species-typical behaviors in vertebrates. Special emphasis is on the integration of physiological, developmental, ecological, and evolutionary determinants of behavior. Training faculty include E. Bigler, F. H. Bronson, J. J. Bull, D. Crews, M. Domjan, M. Ryan, D. Thiessen, T. Schallert, and W. Wilczynski. Interested individuals should contact prospective faculty sponsor and send curriculum vitae, list of references, and statement of research interests to David Crews, Department of Zoology, University of Texas at Austin, Austin, TX 78712. Deadline for

applications Jan. 1, 1989. *Equal Opportunity/ Affirmative Action Employer.*

CANADIAN RESEARCH OPPORTUNITIES WITH BLACK-BILLED MAGPIES AND RICHARDSON'S GROUND SQUIRRELS available for suitable graduate or post-doctoral research projects. Research sites located 40 km from Lethbridge, Alberta. Magpie chicks have been colour banded since 1985; two permanent observation blinds; ongoing studies of nest-site selection and nesting success of magpies. Ground squirrels have been ear-tagged since 1986; maternal kinships known; ongoing studies of mating behaviour and reproductive success of squirrels. Candidates planning non-invasive behavioural or ecological research compatible with ongoing studies will be considered. Limited research funds available; no salary available. For further information contact Gail R. Michener, Biological Sciences, University of Lethbridge, Alberta, Canada T1K 3M4 (403-329-2568 or 403-732-4630) before 25 November or after 15 January.

GRADUATE AND POST-GRADUATE RESEARCH GRANTS The Edund Niles Huyck Preserve and Biological Research Station announces the 1989-90 competition for research grants (max = \$3,500) for biological research for investigations that utilize the resources of the preserve. The 2000 acre Preserve is located in a hanging valley on the Helderberg Plateau, in the towns of Rensselaerville and Berne, 30 mile southwest of Albany, N.Y. Habitats include northeast hardwood-hemlock forests, conifer plantations, old fields, permanent and intermitant streams, 10 and 100 acre lakes and a 150 foot waterfall. Facilities include a wet and dry lab, small library, and six houses/cabins for researchers. Deadline - February 1, 1989. Application material may be obtained from Dr. Richard L. Wyman, Director and Resident Biologist, E. N. Huyck Preserve and Biological Research Station, P.O. Box 188, Rensselaerville, NY 12147 (518-797-3440).

DIRECTOR to ESTABLISH A DEPT OF CONSERVATION/ RESEARCH at Lincoln Park Zoo in Chicago, a nationally known urban zoo which supports conservation and non-invasive research projects in cooperation with area hospitals, universities, and other cultural institutions. The new Conservation/Research Dept will build upon the zoo's previous work in the reproduction, behavior and nutrition of captive animals and endangered species and will support both in house and field projects. Applicant must possess a Ph.D. in a biological science, an M.D. or a D.V.M. and have 3 yrs experience in overall program development and supervision or equivalent. Applications must include curriculum vita, description of research and career goals, abstract of your 3 most significant publications, statement of conservation philosophy, and names and addresses of three references. Salary will be commensurate with education and experience. Address inquiries to: Dr. Lester E. Fisher, Director, Lincoln Park Zoological Gardens, 2200 North Cannon Drive, Chicago, IL 60614.

FIELD RESEARCH ASSISTANTS. Four field assistants needed for studies on breeding biology of polyandrous birds (phalaropes and spotted sandpipers). Excellent opportunity to learn behavioral and field endocrinological techniques. Two field sites, one in northern Minnesota, the other in Saskatchewan. Research extends from early May to mid-July.

Comfortable housing provided but conditions are isolated and physically taxing at times. Salary \$650-\$750 depending on experience. Send resume, statement of career goals, times when available, and names/phone numbers of 3 references to: Dr. Lewis W. Oring, Dept Biol, Univ North Dakota, Grand Forks, ND 58202. Respond ASAP but no later than 1 January.

ANNOUNCEMENTS

REVIEWERS FOR ANIMAL BEHAVIOUR. The continuing success of *ANIMAL BEHAVIOUR* is dependent upon having a significant pool of reviewers who are willing to provide critical, fair, and informed reviews of manuscripts and who will process and return reviews promptly. With the change in Editors for North America, we are now computerizing the entire reviewer file. To aid us in that process and to facilitate sending manuscripts to the most appropriate reviewers, I would like your cooperation in updating the reviewer files. PLEASE complete and return this form to me regardless of whether you have reviewed for *ANIMAL BEHAVIOUR* in the past or not. Those who have not reviewed before, but are interested in doing so are encouraged to send in the form.

PLEASE FILL OUT THE FORM TODAY AND SEND IT IN!!! THANKS!!

NAME _____
ADDRESS _____

TELEPHONE: _____
OFFICE _____
HOME _____

I AM INTERESTED IN AND AM COMPETENT TO REVIEW THE FOLLOWING AREAS:

I AM MOST FAMILIAR WITH THE FOLLOWING ANIMAL TAXA (USE WHATEVER LEVEL YOU FEEL APPROPRIATE):

RETURN COMPLETED FORM TO:

Lee C. Drickamer
Department of Zoology
Southern Illinois University
Carbondale, IL 62901

EVENT software allows inexpensive recording of behavioral observation data, including: recording up to 32 behaviors, 1/10 sec time resolution, interactive entry of labels and observation period length, and three data summary formats (compatible with commercial spreadsheets and statistical packages). Available for IBM and compatibles, Commodore 64, and MacIntosh Plus/SE. For more information and prices, contact: James Ha,

3200 Azalea Apt. R-2, Ft. Collins, Co 80526. (303) 491-5875.

BITNET. I am compiling a directory of BITNET users with interests in Animal Behavior. BITNET is a world-wide electronic mailing system, with connections in over 2000 academic and government institutions. Connections are also available to the regional networks at many smaller institutions. If you would like more information on BITNET, please contact me. If you are a BITNET user and agree to dissemination of your BITNET address, please send your address to me. I will provide copies of the directory to all participants. James Ha, Biology Dept, Colorado State Univ, Fort Collins CO 80523, 303-491-5875, BITNET: Jcha@csugreen.edu.

AFAAR. A new organization has formed at the University of California, Berkeley. The Association For Animals and Animal Research (AFAAR) emphasizes the benefits enjoyed by people and by animals as a result of animal research. It is hoped that similar organizations will be established at other research institutions and that the Berkeley group can form an alliance with them. For more information write to AFAAR, Dept of Physiology-Anatomy, University of California, Berkeley, CA 94720.

THE JOURNAL OF COMPARATIVE PSYCHOLOGY. Published by the American Psychological Association, has recently undergone several changes. The focus of the journal is on the behavior of different species (including humans) as it relates to evolution, cognition, ecology, adaptation, and development. Distinctions between field studies and laboratory-based research are no longer made, nor are distinctions between papers based on a single study as opposed to those reporting multiple experiments. Scientific merit will be the deciding factor in all cases. Review articles and theoretical papers will also be considered for publication on an occasional basis. Send manuscripts in Quadruplicate to the editor-elect, Gordon G. Gallup, Jr., Department of Psychology, State University of New York at Albany, Albany, New York. 12222.

A NEW SURVEY OF TACTICAL DECEPTION. An initial attempt to explore the possible presence of tactical deception among primates has established that it is widespread among monkeys and apes, and illustrated that it can take a considerable range of forms (see *New Scientist*, 116, No. 1589, 54-57, 1987; *The Behavioral & Brain Sciences*, 11, 233-273, 1988). Perhaps more importantly, the active interests in the topic among many behavioral scientists, and especially the critiques in the BBS Open Peer Commentary, have focussed interest on two big issues which remain to be tackled, given the tantalizing hints at answers in the initial corpus of data:

1. Ontogeny and status of behaviors. Can learning by reinforcement account for all cases, or is more complex planning by the agent required? Do animals understand the nature of deception (ie. have second-order intentional knowledge) or merely that certain acts achieve certain goals?
2. Taxonomic distribution. Is the apparent total absence of tactical deception in certain taxa (see Table in BBS paper) real, or an artificial sampling? Are there degrees in complexity in, or understanding of, tactical deception which vary systematically between taxa?

At present, it seems that lemurs, gibbons, and callitrichids never deceive, and perhaps only chimpanzees really understand deception - is this so? And at present we have made no systematic attempt to collect data for non-primate mammals and birds, but already know of a few cases in felids, canids and birds.

The exercise has convinced us that, though case-history and experimental approaches should be followed, good science can be achieved by pooling and analysis of well-recorded observations. To this end, we now request that workers with unpublished observational data of tactical deception send them to us; as before, contributors will be acknowledged individually in any ensuing publication, and will receive a copy of the complete updated catalogue of records submitted.

The general meaning of tactical deception will be well understood by anyone who has read either of the above articles but it will now be defined as: "Acts from the normal repertoire of the agent, deployed such that another individual is likely to misinterpret what the acts signify, to the advantage of the agent." Particularly for those taxa where no examples exist so far, we would be grateful for well described basic records of the behavior. However, records can be made very much more useful if they are augmented by good contextual and control data. Even greater value of records will be achieved if contributors read the above papers and can respond to any of the following:

1. How did you know that an individual was deceived?
2. Was the tactic used more than once? if so, please give each record fully (if feasible: if it was used many times, please give first in full and summarize the frequency and pattern of use thereafter).
3. Were there any indications in the behavior of the target (or any duped animal) that it recognized that it had been manipulated or deceived?
4. In particular, was there any indication of tactics of counter-deception being deployed?
5. Were there any signs in the agent's behavior to suggest that it was being deceiving? More generally, was the behavior, when deployed deceptively, different in any way from the normal version?
6. Was there any evidence of "mind reading" or "second-order intentionality" (see the BBS Target Article & Peer Comment of Bennett) on the part of the primate agent?
7. Is it possible, from your knowledge of the animals, that the tactic was learned by trial and error or by reinforcement of an original coincidence? If so please describe how this might have occurred.
8. Do you have any other evidence relevant to the possible origin or ontogeny of the tactic? For instance, were there opportunities for imitation or observation, facilitating circumstances, precursors to the full-blown tactical deception, etc.? Can any possibilities be ruled out?
9. Do you regard the behavior as fitting into one of the 13 categories we used in the BBS article and, if so, which one?
10. How many hours of detailed observation experience of the species did you possess at the time of the observation? (Please estimate, even if only approximately.)

We expect that the best quality data does not yet exist, and that workers with these questions in mind will be the ones to collect it.

Please do not delay responding if you think you have interesting data: we already know informally of many crucial records which the observers really meant to send in! We are planning the next analysis to include all records submitted by the end of 1988. R W Byrne & A Whiten, Scottish Primate Research Group, Psychological Laboratory, St. Andrews, Fife KY16 9JU, Scotland

ABS COMMITTEES: The Animal Behavior Society functions through the active participation of its membership. The society's committees provide an opportunity for members to contribute in a variety of ways. If you would like to be considered for committee membership please indicate your committee preference(s), and forward to John Fentress, Department of Psychology, Dalhousie University, Halifax, Nova Scotia, CANADA B3H 4J1.

RESOLUTION ADOPTED AT THE MISSOULA BUSINESS MEETING (see Minutes). CONSERVATION OF BIOLOGICAL DIVERSITY:

WHEREAS biological diversity is indispensable to the natural functioning of ecosystems, provides raw materials, products and ideas for human civilization, and provides aesthetic pleasure, emotional well being, and spiritual enlightenment, and

WHEREAS the Earth's biological diversity is now being reduced at a rate without precedent in human history and this rate is certain to greatly increase over the next several decades, and

WHEREAS the deterioration of the biological diversity of the planet is a significant concern of scientists and a serious problem for humanity, and

WHEREAS scientific understanding of the components of biological diversity is inadequate for its conservation and sustainable utilization,

THEREFORE BE IT RESOLVED that the Animal Behavior Society asks the Congress of the United States to approve legislation that will make the conservation of biological diversity a national goal and a national priority, require biological diversity to be a paramount consideration in Federal land-use planning, and support efforts to understand biological diversity by creation of a National Center for Biological Diversity, a National Scientific Advisory Committee on Biological Diversity, and increased financial support for basic scientific research in organismal biology, ecology, and behavior.

GUIDELINES FOR THE USE OF ANIMALS IN EDUCATION, adopted by the Executive Committee of the Missoula meeting (see Minutes):

Members of the Animal Behavior Society believe in the intrinsic value of nonhuman animals and in the importance of understanding them. It is therefore appropriate that the Animal Behavior Society has been active in encouraging its members to consider ethical and moral issues in their use of animals in research. It is also appropriate that the Society provide guidance for its members and others in the use of animals for educational purposes.

It is especially important that educators consider ethical and moral aspects of animal use. Many students are concerned about animal welfare and are often alienated from biological and

behavioral sciences because of what they perceive as callous and cruel treatment of animals. In addition, the next generation of scientists must be trained to consider animal welfare in planning and conducting their research if they are to function in a society which is increasingly concerned with the ethical treatment of animals.

The Animal Behavior Society believes that educators and students should follow ethical and moral principles in studying the behavior of animals in the laboratory and field. There is no completely satisfactory substitute for actual experience in gaining insight into behavior and its variability. We believe it is possible to provide such experience while maintaining the highest possible ethical standards. The following Guidelines are provided as a framework for educators. They are not meant to be the final word nor to restrict the freedom of educators to teach their students in the ways they think best. It is understood that ethical and moral considerations may lead to different solutions in specific situations and cases.

1. The ABS/ASAB Guidelines for the Use of Animals in Research (*Anim. Behav.*, 1986, **34**, 315-318) also apply to the use of animals for educational purposes. (Copies of the Guidelines can be obtained from the Chair of the ABS Animal Care Committee and are published annually in the ABS Newsletter.)

2. Educators should be aware of and follow their institution's requirements for review of procedures by an institutional animal care and use committee. Educators are encouraged to seek such review.

3. Students using animals in the laboratory or in field projects should be trained to handle and care for them properly and to recognize indicators of pain or stress. Student responsibilities in caring for animals must be clearly defined and explained and mechanisms for dealing with emergencies provided. Students should not use animals without supervision for the welfare of all animals used by their students.

4. Students using animals should receive instruction in the ethics of animal use and the value of animal life. They should be encouraged to discuss animal care/use issues. In required courses, students who have ethical reservations about using live animals should be provided with options for completing course work. In optional or elective courses, information on required animal use should be available to students prior to registration.

5. Where first-hand experience with animals is not necessary, educators might consider whether a single classroom demonstration will fulfill educational objectives as effectively as having each student work with an animal. Considerations should also be given to the use of alternative techniques for demonstrating concepts, such as videotapes, films or computer simulation. (See ABS film list or contact your local media center.) Educators might consider whether observation of animals in natural or semi-natural settings can be substituted for laboratory exercises requiring animals.

6. Surgery and other invasive techniques which could cause pain or distress in animals should be restricted to appropriate contexts involving the training of advanced students. Such students should be instructed in proper surgical technique, the use of anesthesia and analgesia, and post-operative care. Again, instructors are ultimately responsible for the welfare of the animals.

7. When students conduct independent or laboratory projects outside of the usual classroom setting, educators are

urged to require written proposals. Such proposals could include a description of how animals would be used, what precautions would be taken to ensure their welfare and why the use of animals is justified for the project. (An excellent example of such a proposal is provided by Ellen R. Rese, 1987, Guidelines for the humane care and use of animals: Proposals for student projects. Humane Innovations and Alternatives in Animal Experimentation, 1, 14-18.)

MEETINGS

SECOND INTERNATIONAL CONFERENCE ON BEHAVIOURAL ECOLOGY - 6-10 Oct 1988, Simon Fraser Univ, Vancouver, Canada. Contact: Conferences Services, Continuing Studies, Simon Fraser Univ, Burnaby, B.C., Canada V5A 1S6. (Phone 604-291-3649).

NE DIVISION ABS/SOCIETE QUEBECOISE POUR L'ETUDE BIOLOGIQUE DE COMPORTEMENT. Joint annual meeting, 4-6 Nov 1988. MacDonald College of McGill Univ, 21,111 Lakeshore road, Ste-Anne-de-Bellevue, Quebec, H9X 1C0. Keynote speaker, Dr. Robert Ricklefs. In addition a special symposium, "Behavioral strategies for coping with winter" will be held. A refereed conference proceedings is planned on this theme. For information and/or to be placed on the mailing list contact: F. Whoriskey - or -R.D. Titman, Dept Renewable Resources, MacDonald College.

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 May 24-28, Hyatt-Regency Hotel, Milwaukee, Wisconsin. Submissions are now being accepted for review; deadline for receipt is December 7, 1988. For information, contact ABA, Western Michigan Univ, 258 Wood Hall, Kalamazoo, MI 49008-5052. Telephone: 616-387-4494.

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.

CANDIDATES FOR THE 1988 ELECTION OF OFFICERS

SECOND PRESIDENT-ELECT:

✓ **Terry Christenson**

Birthdate: May 25, 1947

Education: BA 1969 Univ of Michigan
PhD 1974 Univ of Cal, Berkeley

Present Position: Associate Professor of Psychology and
Biology, Tulane Univ, New Orleans LA

Research Interests: comparative field studies of spider
reproduction: mate defense, male priority patterns,
mate choice, competition

ABS Activities: Editorial Board, Animal Behavior;
Secretary 1984-87; Program officer 1980-83; Member
Education Committee 1980-81; Host 1979 annual
meeting

H. Jane Brockmann

Birthdate: February 25, 1947

Education: BS 1967 Tufts Univ
MS. 1972 Univ of Wisconsin
PhD 1976 Univ of Wisconsin

Present Position: Associate Professor, Department of
Zoology, Univ of Florida

Research Interests: evolution of behavior, behavioral
ecology; sex allocation and life history patterns;
sexual selection and alternative strategies; solitary and
social insects

ABS Activities: Policy Committee 1979-81; Allee
Competition Judge; Treasurer 1982-88; Editorial Board
1988-91

PROGRAM OFFICER:

Donald H. Owings

Birthdate: December 7, 1943

Education: BA 1965 Univ of Texas at Austin
Ph.D 1972 Univ of Washington

Present Position: Professor of Psychology, Univ of Calif
at Davis

Research Interests: Communication; antipredator behavior;
development of communicative abilities; ground
squirrel behavior

ABS Activities: Founder's Award Judge 1986

✓ **Lynne Houck**

Birthdate: October 23, 1949

Education: BA 1971 Univ of Cal, Berkeley
MA 1975 Univ of Cal, Berkeley
Ph.D 1977 Univ of Cal, Berkeley

Present Position: Research Associate (Assistant Professor)
Department of Biology, Univ of Chicago

Research Interests: Behavioral determinants of reproductive
success; sexual selection; chemical communication in
Plethodontid Salamanders

ABS and Related Activities: Allee Awards Committee;
Member Board of Directors ASIH; and ASIH
Nominations Committee; Editorial Board, *Journal of
Herpetology*

PARLIAMENTARIAN:

✓ **George Waring**

Birthdate: July 15, 1939

Education: BA 1962 Colorado State Univ
MA 1964 Univ of Colorado
Ph.D 1966 Colorado State Univ

Present Position: Professor of Zoology, Southern Illinois
Univ Research Interests: Behavioral development;
social organization; communication; and applied
ethology in wildlife, domesticated animals and pest
species

ABS Activities: Business Affairs Committee for the
establishment of ABS. Chair, Public Affairs
Committee; member of the committee on Issues in
Applied Animal Behavior, ad hoc logo committee, and
Animal Behavior editorial board. Chair, Organization
and Bylaws Committee, American Veterinary Society
of Animal Behavior.

David B. Miller

Birthdate: September 21, 1948

Education: BA 1970 Univ of Florida
MS 1972 Univ of Miami
Ph.D 1973 Univ of Miami

Present Position: Professor of Psychology, Univ of
Connecticut, Storrs

Research Interests: Development of instinctive behavior;
auditory communication; behavioral embryology;
effects of domestication; and contextual effects on
species-typical behavior

ABS Activities: Allee Award Judge 1983; Policy and
Planning Committee 1982-88 (Chair 1985-88);
Editorial Board of Animal Behavior 1988-89

✓ MEMBER-AT-LARGE:

Robert R. Provine

Birthdate: May 11, 1943

Education: BS 1965 Oklahoma State Univ
Ph.D 1971 Washington Univ (St. Louis)

Present Position: Professor of Psychology, Univ of
Maryland Baltimore County

Research Interests: Behavioral neuroembryology;
ontogeny and phylogeny of avian flight;
neuroethology; human ethology

ABS Activities: Symposium Moderator and Session
chairman at annual meetings

Steven Austad

Birthdate: July 28, 1946

Education: BA 1969 Univ of California, LA
MS 1976 Cal State Univ, Northridge
Ph.D 1981 Purdue Univ

Present Position: Assistant Prof Biol, Harvard Univ

Research Interests: Life history and reproductive tactics
in spiders, birds, and mammals. Sexual selection and
allocation of resources to reproduction.

ABS Activities: Founder's Award Judge

BALLOT
1988 GENERAL ELECTION OF THE ANIMAL BEHAVIOR
SOCIETY

Please fill out ballot, detach entire page, and mail it in an envelope bearing your name to:
 David Chiszar, Secretary ABS
 Dept. of Psychology, Campus box 345
 University of Colorado
 Boulder, Co 80309

Ballots postmarked after 31 Oct 1988 cannot count.

According to ABS policy the envelope containing your ballot must also bear your name. You may cast write-in votes. Notice that we are electing four officers of ABS (terms to begin 17 June 1989) and we are deciding to accept or reject three constitutional amendments. All ABS members are eligible to vote. Results will be announced in the November 1988 ABS Newsletter. Please vote (12% of the membership voted in the last general election). The order of listing candidates may influence voting, please avoid this bias and read the resumes of the candidates on page 8 of this Newsletter. This year the candidates are listed in reverse alphabetical order.

ABS Officers

Rank the candidate for each office by placing a 1 in the blank next to your first choice and a 2 in the blank following your second choice.

For Second President-Elect:
 Terry Christenson _____ 1
 H. Jane Brockmann _____ 2
 Write in _____

For Program Officer:
 Donald Owings _____ 2
 Lynne Houck _____ 1
 Write in _____

For Parliamentarian:
 George Waring _____ 1
 David Miller _____ 2
 Write in _____

For Member-at-Large:
 Robert Provine _____ 1
 Steven Austad _____ 2
 Write in _____

CONSTITUTIONAL AMENDMENTS

There are three constitutional amendments hereby submitted to the membership by mail. For a constitutional amendment to be approved, at least two-thirds of those returning mailed ballots must vote for the amendment.

Article 8 Section 3a. Last year we clarified procedures for the nomination and election of Fellows by passing a constitutional amendment and by introducing Policy changes. The present proposal arose through continuing discussion of the election of Fellows, and the principal reason for this change is to simplify procedures by allowing the election of Fellows to occur as a regular annual agenda. Term during this meeting of the Executive Committee. (See minutes, 5n for additional information).

Present Article 8 Section 3a

a. Election of Fellows shall be conducted in alternate years by mail ballot of the Executive Committee.

Suggested Article 8 Section 3a

a. Election of Fellows shall be conducted annually by secret ballot of the Executive Committee.

Article 8 Section 1 Because ABS and the Division of Animal Behavior (ASZ) now have separate officers, there is no need to co-ordinate our elections. Accordingly, the ABS Constitution should be changed to eliminate wording that makes such co-ordination mandatory.

Present Article 8 Section 1 (second paragraph)

Officers are to be elected jointly with the Division fo /animal Behavior of the American Society of Zoologists.

Suggested Article 8 Section 1.

would simply eliminate this paragraph.

Article 5 The duties of the Member-at-Large ahve grown during the past several years, and many of these duties have been specified in the constitution and Bylaws. Accordingly, the present constitutional amendmenhas been proposed to stipulat these duties more clearly than they are stated in the current version of Article 5.

Present Article 5 (second paragraph)

Members-at-Large serve in an advisory capacity to the Officers and may be called on to chair ad hoc committees or may be appointed as liaison persons with other societies.

Suggested Article 5.

Members-at-Large serve in an advisory capacity to the Officers and perform the function and responsibilties stated in the constitutional Bylaws, Article III.

CONSTITUTIONAL AMENDMENTS

Place a check next to your choice

Article 8, Section 3a.
 For the proposed change _____ ✓
 against the proposed change _____

Article 8, Section 1.
 For the proposed change _____ ✓
 against the proposed change _____

Article 5.
 For the proposed change _____ ✓
 against the proposed change _____

MINUTES

MINUTES OF THE ANIMAL BEHAVIOR SOCIETY ANNUAL BUSINESS MEETING -- 10 AUGUST 1988 -- UNIVERSITY OF MONTANA, MISSOULA, MONTANA (Policy matters are marked #)

1. President Gauthreaux called the meeting to order at 0830.
 2. MOTION: to approve the minutes of the 1987 business meeting. PASSED.
 3. The President introduced the local host, the officers and the officers elect, and the committee chairs.
 4. Host Jenni noted that pre-registration at the meeting was 460. 1989 Host Rambo gave a brief presentation of the plans for the meeting to be held at Northern Kentucky University, 11-17 June. The 1990 meeting will be at SUNY Binghamton. Sites are desired for 1991 and 1992; contact the president if you wish to submit a bid.
 5. Secretary Chiszar introduced the nominees for ABS offices and read a summary of the major issues considered during the Executive Committee (EC) meeting, Sunday, Aug 7, 1988. The meeting was called to order by President Gauthreaux at 0930. Present were Sidney Gauthreaux (President), John Fentress (First President-elect), Patrick Colgan (Second President-elect), Charles Snowdon (Editor and Next Second President-elect), David Chiszar (Secretary), H. Jane Brockmann (Treasurer), Robert Matthews (Treasurer-elect), Susan Reichert (Program officer), Edward Burrill (Parliamentarian), Lee Drickamer (Editor-elect), Gail Michener (Member-at-Large), Janet Randell (Member-at-Large), Julia Chase (Member-at-Large), George Barthalmus (Member-at-Large-Select), Janis Driscoll (Animal Care Chair), Lawrence Williams (Education Committee), Robert Kull (Film Committee Chair), Martin Schien (Historian), Ira Perelle (Membership Chair), David Miller (Policy Chair), George Waring (Public Affairs Chair), Michael Beecher (Ethics Chair), Philip Lehner (Issues In Applied Animal Behavior Chair), Edward Barrows (AIBS Delegate), Don Jenni (Host), and Tom Rambo (Host).
 - a. MOTION: to accept the minutes of the 1987 EC meeting. PASSED.
 - b. Host Jenni reported that 460 people pre-registered and that all local arrangements were in readiness.
 - c. 1989 Host Rambo reported on preparations for the meeting at University of Northern Kentucky. Dates will be 11-17 June, 1989. George Uetz, University of Cincinnati will serve as Co-host.
 - d. Treasurer Brockmann noted that last year's beginning balance was \$128,588, revenues were \$82,221, and expenses were \$84,485. The ending balance was \$126,324.
 - e. Editor Snowdon noted that more than 400 manuscripts will probably be received by 30 April 1989. The acceptance target is 40-41%; and starting in January 1987 the journal will be published monthly (2 volumes/year with no increases in total pages per year). The tremendous help of Laura Dronzek was acknowledged.
 - f. Program officer Riechert reported on the size of the program (319 papers) and indicated that several issues deriving from this will be brought up under new business.
 - g. Member-at-Large Michener reported on the 1987-1988 research grant competition (see Newsletter, May, 1988, Vol. 33, No.2, pg.4).
- MOTION: To accept the report of the EC members. PASSED.
- h. Committee reports were presented briefly, mainly to indicate items for new business (see below).
- MOTION: To accept reports of committees. PASSED.

i. MOTION: To continue to use the ABS logo that was accepted last year in recognition of the 25th anniversary of the society. In future use (i.e., after 1988), however, the dates will be omitted.

j. MOTION: To amend the 1968 agreement between ABS and the Archives of the History of American Psychology (at the University of Akron) regarding the disposition of the records of the American Editor of Animal Behaviour. Two changes are to be made: "The records upon arrival are to be sealed", and "records are to be opened and inventoried at the discretion of the staff of the Archives, 30 years after the date of accession." PASSED.

k. MOTION: To send a letter of appreciation to Laura Dronzek for her service as editorial assistant to Editor Snowdon. PASSED.

1. During the fall (1987) a constitutional amendment was approved adding the American Society of Zoologist Liaison to the constitution's list of standing committees (see Newsletter, Aug 1987, Vol. 32, No. 3). This constitutional change may necessitate an additional constitutional change and will require a number of additions, deletions and changes to the Bylaws and some changes in policy. These are presented below.

MOTION: To approve the following Bylaws change to Article IV which is to be presented at the 1988 Business meeting. Section 13. American Society of Zoologist Liaison:

a. Following the nomination of two candidates by the nominating committee of the Animal Behavior Society, one candidate shall be elected Chairperson of the Division of Animal Behavior, American Society of Zoologists, by members of the Division; the President of the Animal Behavior Society shall then appoint the elected person ASZ Liaison for three years. b. Shall represent the Division of Animal Behavior to the Executive Committee of the Animal Behavior Society, but shall not be a voting member of the Executive Committee. c. Shall make every effort to coordinate Division programs and activities with those of the Animal Behavior Society whenever such coordination and cooperation are in the best interest of the field of animal behavior, and therefore of both the Animal Behavior Society and the American Society of Zoologists. PASSED.

MOTION: Having provided for the coordination of the two societies through the ASZ liaison, duties of the ABS officers to the ASZ - Division of Animal Behavior must be removed from Article II. The following deletions are proposed (deletions are underlined). Section 1. President: c. Serve as Chairperson of the Division of Animal Behavior of the American Society of Zoologists. d. Represent the Division on the Executive Committee of ASZ or designate a representative who is a member of the American Society of Zoologist, if the First President-Elect is unable to serve. Section 2. First President-Elect: b. Serve as Chairperson-Elect of the Division (ASZ) and assume the duties of the Chairperson in the latter's absence or inability to serve. Section 5. Secretary: e. Serve as secretary of the Division (ASZ). Section 6. Treasurer: g. Serve as Treasurer of the Division (ASZ). Section 7. Program Officer: d. Serve as Program Officer of the Division (ASZ) and coordinate Section-Division programs. Section 8. Editor: Serve as Editor or Editors of the Journal(s), filling the same functions for the Divisions. PASSED.

MOTION: To delete item 14f from policy. "The Executive Committee must approve all symposia proposed for the Division of Animal Behavior, American Society of Zoologists. The individual who votes on DAB symposia prior to the ABS Executive Committee receiving the proposals for approval shall be that person who will be the Executive Officer (Division Chairperson) of the Division of Animal Behavior at the time the symposium occurs." FAILED. #

MOTION: To replace 14f in policy with the following wording, "The ABS Executive Committee must approve all symposia proposed for co-sponsorship by the ABS and the Division of Animal Behavior, ASZ. PASSED. #

m. The second constitutional amendment passed last fall created an Awards Committee for the purpose of recognizing outstanding animal behaviorists. The EC passed policy guidelines, as recommended by the Policy and Planning Committee. From these guidelines the Committee on Organization and Bylaws has drawn up new Bylaws.

MOTION: To add the following to Article IV, which is to be presented at the 1988 Business meeting. Section 14. Awards Committee: a. Shall recommend candidates for the Quest, Exemplar, and Distinguished Animal Behaviorist Awards to the Executive Committee. b. Shall consist of seven persons including the Past-President, who Chairs the committee, three members-at-large, and three junior members of the Society appointed for staggered terms for three years such that at least one term expires each year. c. Shall be divided into three subcommittees; (1) Quest subcommittee, consisting of the Past-President, newly elected Member-at-Large, and newest appointee, shall provide nominations for the Quest Award. (2) Exemplar subcommittee, Past-President, second Member-at Large, and second year appointee, shall provide nominations for the Exemplar Award. (3) Distinguished Animal Behaviorist subcommittee, consisting of the Past-President, senior Member-at-Large, and senior appointee, shall provide nominations for the Distinguished Animal Behaviorist Award. **PASSED.**

MOTION: To add the following to Article IV which is to be presented at the 1988 Business meeting. Section 5. Career Awards. a. Quest Award recognizes the outstanding promise and contributions of a young animal behaviorist no more than 5 years past the Ph.D. or equivalent degree. b. Exemplar Award recognizes the outstanding contributions of an active animal behaviorist no more than 20 years past the Ph.D. or equivalent degree. c. Distinguished Animal Behaviorist Award recognizes an outstanding career in animal behavior. **PASSED.**

n. Last year the EC approved a policy on election of Fellows developed by the Policy Committee. Timing of the election of Fellows needs to be included under the duties of the President listed in the Bylaws.

MOTION: To add the following to the Bylaws, Article II, Section 1, to be presented at the 1988 Business meeting. c. The President will hold an election of new Fellows if and only if the Past-President did not hold such an election. **FAILED.**

MOTION: To propose a constitutional amendment rewording Article 8, Section 3a to read as follows, "Election of Fellows shall be conducted annually by secret ballot of the Executive Committee." **PASSED.**

o. Because the third constitutional amendment passed last fall eliminates (as candidates for Fellows) EC members, members-elect, and former members who are less than two years off the EC, the Committee on Organization and Bylaws suggests that policy statement 5b be amended as follows.

MOTION: The President will obtain from the Treasurer a list of ineligible persons as determined by the constitution, Article 3 and Article 8, Section 3 c and d. **PASSED.**

p. Article 5, Section 1 of Bylaws stipulates that nominations for U.S. delegates to USECC be chosen by the EC, which includes a number of Canadian representatives who choose their own delegates by a different process. To clarify the selection of U.S. delegate nominees, the Committee on Organization and Bylaws recommends that the Bylaws be changed.

MOTION: To propose at the 1988 Business meeting to change Article V, Section 1 to the following, "a. Members of the Executive Committee who currently reside inside the United States shall nominate two candidates." (Each U.S. member of the Executive Committee shall present two names, ranked 1 and 2. The two persons ranking highest shall be nominated). **PASSED.**

q. **MOTION:** To propose a constitutional amendment (Article 8, Section 1) deleting the sentence "Officers are to be elected jointly with the Division of Animal Behavior of the American Society of Zoologists." **PASSED.**

r. **MOTION:** To propose a constitutional amendment (Article 5) rephrasing duties of Members-at-Large as follows: "Members-at-Large serve in an advisory capacity to the officers and perform the functions and responsibilities stated in the Constitution and Bylaws, Article III." **PASSED.**

s. Inasmuch as Article III of Bylaws is the only Article without a name, it is proposed that the 1988 Business meeting consider the name "Article III. Duties of the Executive Committee." This requires that Section 1 be altered to read "Section 1. Duties of the Executive Committee Officers." **PASSED.**

t. **MOTION:** To charge the Committee on Issues in Applied Animal Behavior to develop procedures for the certification of professional animal behaviorists, to be acted on by the EC next year (1989). **PASSED.**

u. Some ABS legal or financial documents use the term "Directors of the Animal Behavior Society, Inc." Treasurer Brockmann indicated that this means: President, Past-President, Secretary, Treasurer, Program Officer and Parliamentarian.

v. Treasurer Brockmann pointed out that the audit indicated that we need a statement about how the ABS research grant program contributes to the Society's educational objectives. The Members-at-Large will work with the Treasurer to develop such a statement.

w. Editor Snowdon has used an IBM PC owned by ABS and none of the officers have a need for that machine. Dr. Snowdon would be able to use the machine in his research.

MOTION: To sell the IBM PC to Dr. Snowdon for \$999, the money to go to the Society's general fund. **PASSED.**

MOTION: The \$999 should go to the research grant program. **FAILED.**

x. The size of the program at the annual meeting has been steadily growing during recent years, raising several issues:

MOTION: Program officers should accept papers in the order of receipt until three concurrent sessions are full in each of the five days; additional papers can be put on a waiting list pending cancellations, they can be assigned to five-minute slots, or they can be assigned to poster sessions. **FAILED.**

The failure of this motion was explicitly taken to mean that we shall go to four concurrent sessions if necessary.

MOTION: All participants must send their manuscripts to the program office at the time abstracts and transmittal forms are submitted. **PASSED.**

MOTION: To approve the symposium proposal for the 1989 meeting by Donald Dewsbury; "Evolution and the History of the Study of Animal Behavior -- A Symposium Commemorating the 25th Anniversary of the Founding of the Animal Behavior Society." **PASSED.**

y. The Education Committee proposed several new tasks for itself.

MOTION: To revise the Brochure on Graduate Programs in Animal Behavior and to do so regularly, once every five years with an addendum produced at 2 1/2-3 year intervals. **PASSED.**

MOTION: To conduct a survey on jobs in animal behavior, to be published in the Newsletter (the last such survey was published in 1983). Amended as follows: to present the results of the survey not only in the Newsletter, but also in a brochure, similar to the one describing careers in animal behavior. **PASSED.**

z. George Waring will look into the possibility of a charitable contribution to the ABS research grant fund by the Midwest Regional ABS.

aa. MOTION: To allocate \$3000 from the ABS treasury for a research grant competition in 1988-1989. PASSED.

bb. MOTION: To print an updated membership directory in a format that can be bulk mailed without envelopes. All members of ABS will receive a single free copy; additional copies can be purchased at a price to be set after printing costs are known. PASSED.

cc. The Animal Care Committee prepared a draft of guidelines for the use of animals in teaching as a supplement to the guidelines for the use of animals in research.

MOTION: To accept this draft to be printed in the Newsletter and added to Policy. TABLED, pending the addition of a statement about when it is appropriate to use invasive techniques. #

dd. An item of concern to the Policy and Planning Committee has been the disposition of surplus funds arising from annual meetings.

MOTION: To add the following to Policy: "a. ABS favors an arrangement in which the disposition of surplus funds is decided by the host, and in which the host is solely responsible for all losses. b. Surplus funds cannot be used by the host for personal purposes or gain. c. Those surplus funds donated to ABS shall go into the ABS general fund to be used at the discretion of the Executive Committee. d. A section should be added to the Host's Handbook describing what the Executive Committee considers appropriate disbursement of surplus funds; with examples of how hosts have handled disbursement in the past. e. Each invitation to host the annual meeting must be accompanied by an estimation of costs for member's participation. f. If the estimated cost to host a meeting changes, the host should notify the President of ABS. g. The host shall in a timely fashion make a financial report to the Executive Committee." PASSED. #

ee. Animal Behaviour will incorporate an ethical statement regarding multiple publication of data into the instructions for authors.

ff. Editor Huntingford pointed out that the current contract with Academic Press will expire in 1990. Although ASAB and ABS are satisfied with the performance of Academic Press, ASAB is in the process of exploring options regarding other publishers. ASAB will inform ABS of any offers it has received in time for the June 1989 ABS Business meeting. ABS officers will then communicate the results of our deliberations to ASAB in time for its July meeting.

MOTION: To facilitate these transactions between ASAB and ABS, the respective Editors' offices will form the chief link of communication. PASSED.

gg. The Animal Care Committee presented to the EC a new version of its guidelines for the use of animals in teaching.

MOTION: To accept these guidelines. PASSED. #

MOTION: To publish them in a future issue of the Newsletter. PASSED.

MOTION: To add to Policy that we now have ACC-generated guidelines for the use of animals in teaching. PASSED. #

hh. MOTION: The Film Committee proposed that the winner of the Jack Ward Competition should receive \$250 and a plaque (Currently the winner receives \$250 and a certificate). PASSED.

ii. MOTION: To approve the Treasurer's proposed budget. PASSED.

jj. MOTION: Winners of ABS research grants should inform the program officer of this fact upon submitting an abstract for presentation at an ABS meeting; moderators of paper sessions will be instructed to introduce the speaker by

mentioning that an ABS grant contributed to the project. PASSED.

kk. MOTION: To charge the Ethics Committee with the responsibility of preparing a code of ethics. PASSED.

ll. Committee Chair appointments were moved by First President-Elect Fentress.

MOTION: Membership Committee - Ira Perelle

MOTION: Educator Committee - Larry Williams

mm. Last item of business was for the President to conduct a ballot for the election of Fellows (see announcements on page 1, this Newsletter).

1900 meeting adjourned.

6. Treasurer Brockmann presented a brief statement of the Society's financial condition (see item 5d). A complete report will be published in a future issue of the Newsletter.

7. Editor Snowdon described the rate of submission to Animal Behaviour and the rate of acceptance (see item 5e).

8. H. Jane Brockmann, as a member of USECC, reported that an NSF award will facilitate travel to IEC by young investigators. See Announcements, this Newsletter.

9. George Waring presented two proposed resolutions to the membership: "Conservation of Biological Diversities" PASSED; "The Elephant Emergency" was tabled.

10. Parliamentarian Burt presented the proposed Bylaws changes concerning ABS-ASZ liaison.

MOTION: To add a section (13) to Bylaws Article IV, Duties of the Committees, stipulating the duties of the ABS-ASZ liaison (exact wording appears in 5l, first motion). PASSED.

MOTION: To delete from Bylaws Article II, Duties of the Officers, the duties of ABS officers to ASZ (exact wording appears in item 5l, second motion). PASSED.

Parliamentarian Burt presented the proposed Bylaws changes concerning the Quest, Exemplar, and Distinguished Animal Behaviorist Awards.

MOTION: To add a section (14) to Bylaws Article IV, Duties of the Committees, stipulating the duties of the Awards Committee (re: Quest, Exemplar, and Distinguished Animal Behaviorist Awards: exact wording appears in item 5m, first motion); and, to add a section (5) to Bylaws Article VI, Awards, describing the criteria for the Quest, Exemplar, and Distinguished Animal Behaviorist Awards (exact wording appears in item 5m, second motion). PASSED.

Parliamentarian Burt presented the proposed Bylaws change regarding nomination of USECC candidate.

MOTION: To change Article V, Section 1a, to the following, "Members of the Executive Committee who currently reside inside the United States shall nominate two candidates. (Each U.S. member of the Executive Committee shall present two names, ranked 1 and 2. The two persons ranking highest shall be nominated.)" PASSED.

Parliamentarian Burt described the constitutional changes to be placed on the August ballot. (see ballot this Newsletter).

11. Upon inviting new business, President Gauthreaux entertained three motions from the floor.

MOTION: To restrict the ABS annual meeting to no more than three concurrent sessions. FAILED.

MOTION: To thank H. Jane Brockmann for her service as ABS treasurer. PASSED by acclamation.

MOTION: To thank Jed Burt, Chuck Snowdon and Gail Michener for their work as Parliamentarian, Editor and Member-at-Large, respectively. PASSED by acclamation.

0951 meeting adjourned.

GRADUATE PROGRAMS IN ANIMAL BEHAVIOR IN
NORTH AMERICA

UPDATE

This information supplements the graduate programs booklet (162 pp.) published in 1985 by the ABS Education Committee. The present list was compiled by Lawrence Williams and Daniel Estep (Education Committee) based on data provided by ABS members. Material is organized in the same format that was used in the 1985 booklet. We will publish the entire update in sections as space permits in subsequent Newsletters. In 1990, the Education Committee will publish a new edition of the graduate programs booklet. Listings in this issue begin with the state of Ohio, Bowling Green State University.

OHIO

Bowling Green State University

Biological Sciences

Bowling Green, OH 43403

CHAIRMAN: R.D. Nobel 419-372-2332

DEGREES: MS, PhD ENROLLMENT: 6

CONTACT: Graduate Advisor, Dept of
Biological Sciences

Stephen H. Vessey Prof
Penn State PhD 1965 419-372-2434

Aggression

Social spacing

Sex and Reproduction

Behavior and population dynamics of rodents

Dominance and reproductive success in primates

Rodents (Mammalia:Rodentia:Muridae)

Macaques(Mammalia:Primates:Cercopithecidae)

Mark H. Gromko Assoc Prof
Indiana University PhD 1978
419-372-8206

Behavioral Genetics

Social Behavior - Sex and Reproduction

Evolution/Survival Value

Genetic basis of courtship, receptivity and

reproductive success in *Drosophila*

melanogaster. Sperm competition and the

evolution of mating systems

Fruit fly (Insecta:Diptera:Drosophilidae)

John Rotenberry Assoc Prof
Oregon State Univ PhD 1978
419-372-2691

Behavioral Ecology - Foraging

Behavioral Ecology - Habitat Selection

Methodology - Data Collection/Analysis

Foraging ecology and habitat selection of

passerine birds, particularly in

desert environments; pollination ecology,

foraging behavior of insects that visit flowers Sage Sparrows

(Aves:Passeri formes:

Emberizidae:Amphispiza)

Brewer's Sparrows (Avas:Passeriformes:

Emberizidae:Spizella)

Bumble Bees (Insecta:Hymenoptera:Apidae:

Bombus)

Ohio University

Zoological and Biomedical Sciences

Athens, OH 45701-2979

CHAIRMAN: Frederick Hagerman

614-594-5816

DEGREES: MS, PhD ENROLLMENT: 10

CONTACT: Louise Edds, Graduate
Committee Chairman

Walter J. Costello Asst. Prof
Boston Univ PhD 1978

614-594-6401

Development/ontogeny

Neural mech

Evolution/survival value

neural bases of behavior; escape mechanisms

Clawed lobster (Crustaceae:Decapoda:Nephropsidae)

Fruit fly (Insecta:Diptera:Drosophilidae)

Donald B. Miles Asst. Prof.
Univ. of Pennsylvania PhD 1985

614-593-2317

Behavioral ecology

Locomotion

Ecological morphology

foraging ecology, habitat selection, community ecology,

morphological

correlates of locomotion in lizards

Passerline birds (Aves:Passeriformes)

Common tree lizard (Reptilia:Sauria:Iguanidae)

Longtailed Brush Lizard (Reptilia:Sauria:Iguanidae)

Scott M. Moody Asst. Prof.
Univ. of Michigan PhD 1980

614-594-6401

Behav ecol

Locomotion

Communication

arboreal locomotion; epigamic display and signals;

epidermal glands and species recognition

Lizards (Reptilia:Sauria:Agamidae)

Lizards (Reptilia:Sauria:Iguanidae)

Lizards (Reptilia:Sauria:Chamaeleontidae)

E.H. Peterson Asst. Prof.
Univ. of California PhD 1976

614-594-5816

Neural mech - other (motor control)

Sensory mech - vision

Other - functional morphology

neural control of neck movements; sensory-motor

transformations; vestibular sensory mechanisms

Red-eared slider (Reptilia:Chelonia:Emydidae)

Jerome S. Rovner Prof.

Univ. of Maryland PhD 1966
614-593-2992
Behav ecol
Social behavior
Communication
chemical/acoustic/visual communication
Spiders (Chelicerata:Arachnida:Araneae)

OREGON

Portland State University
Biology
Portland, OR 97207
CHAIRMAN: Richard Peterson
503-229-3851
DEGREES: MS, MA, PhD
ENROLLMENT: 10
CONTACT:

Joan Whittier Asst. Prof.
Univ. of Texas, Austin PhD 1986
503-229-3191
Endocrine/hormonal mech.
Neural mechanisms/neurophysiological correlates
Social behavior: sex/reproduction
interactions between hormones and behavior in nonmammalian
vertebrates;
reproductive behavior and environmental physiological control
mechanisms
Red-sided garter snake (Chordata:Reptilia:Serpentes)
Pacific treefrog (Chordata:Amphibia:Salientia)
Northwest salamander (Chordata:Amphibia:Salientia)

Richard Forbes Prof.
Univ. of Minnesota PhD 1964
503-229-3851
Natural history
Behavioral ecology
Social behavior
ecological life histories of terrestrial vertebrates, especially
small
mammals
Mammals (Mammalia:Rodentia:Sciuridae)
Amphibians (Amphibia:Aura:Ranidae)
Amphibians (Amphibia:Caudata:Ambystomidae)
Birds
Reptiles

Larry I. Crawshaw Prof.
Univ. of California, Santa Barbara PhD 1970
503-229-4209
Neural mechanisms
Neurophysiological correlates
Temperature regulation
the behavioral and physiological mechanisms of temperature
regulation and
thermal ecology of vertebrates
Interested in all vertebrate species

Randy Zelik Asst. Prof.

Univ. of California, Los Angeles PhD 1984
503-229-3086
Learning/habituation
Sensory mechanisms/audition
Communication/acoustic
novelty detection & habituation behavior in weakly electric
fish;
correlates with neural mechanisms
acoustic behavior & auditory system physiology in anuran
amphibians
Carapo knife fish (Pisces:Osteichthyes:Gymnotiformes)
Tree frog (Amphibia:Anura:Leptodactylidae)
Toads (Amphibia:Anura:Bufonidae)

PENNSYLVANIA

Bucknell University
Animal Behavior, Psychology
Lewisberg, PA 17837
CHAIRMAN: Douglas Candland (Anim. Behav.)
717-524-1200
DEGREES: MA, MS ENROLLMENT: 6
CONTACT: D. Candland (Anim. Behav.)

Warren G. Abrahamson Prof.
Harvard Univ. PhD 1973 717-524-1155
Behav Ecol
Other-Insect Behavior
insect gall-maker effects on plants and
gall-maker natural enemies
Goldenrod Ball Gall-maker (Insecta:
Diptera:Tephritidae)
Gall Wasps (Insecta:Hymenoptera:Eurytomidae)
Gall Beetle (Insecta:Coleoptera:Mordellidae)

Nancy G. Caine Assoc. Prof
Univ. of Calif., Davis PhD 1980
717-524-1200
Social Behav
Behav Ecol
Development/Ontogeny
vigilance and anti-predator adaptations in
primates; peer relationships; social organization
Tamarins (Mammalia:Primates:Callitrichidae)

Douglas K. Candland Prof.
Princeton Univ. PhD 1959 717-524-1200
Other-Primate Soc Organ/Perception
Other-Threatened Species
Social Behav
social perception among *Macaca fuscata* and *Papio hamadryas*
Japanese Monkey (Mammalia:Primates:Cercopithecidae)
Hamadryas Baboon (Mammalia:Primates:Cercopithecidae)
Squirrel Monkey(Mammalia:Primates:Cebidae)

David J.C. Fletcher Assoc. Prof.
Univ. of Natal PhD 1966 717-524-1339
Evol of Social Behav
Behav Ecol
Regulation of Reproduction in eusocial Hymenoptera
Communication, especially pheromonal mechanisms

Apiculture

Roger M. Tarpay Prof.
Princeton Univ PhD 1967 717-524-1200
Learning
Other-Economics
Other-Concept Formation
effects of signaling reward on learning; demand functions
Rats (Mammalia:Rodentia:Cricetidae)
Hamsters (Mammalia:Rodentia:Cricetidae)
Pigeons (Aves:Columbiformes:Columbidae)

Villanova University

Psychology
Villanova, PA 19085
CHAIRMAN: Gerald Long 215-645-4722
DEGREES: MS ENROLLMENT: 7
CONTACT: Chair, Graduate Advisory
Committee

Michael F. Brown Asst. Prof.
Univ. of California, Berkeley PhD 1985
215-645-4748
Learning - complex
Learning - memory
memory coding and representation, cognition, spatial memory
in rats, visual
memory for compound stimuli in pigeons, flavor aversion
learning
Pigeons (Aves:Columbiformes:Columbidae)
Norway rats (Mammalia:Rodentia:Muridae)

Byron Ward Prof.
Tulane Univ. PhD 1968 215-645-4756
Endocrine/hormonal mechanisms
Social behavior - sex and reproduction
Drug studies
modulation of fetal hormonal environment by maternal drug
exposure,
subsequent effects on behaviors that show gender-related
variation
Rats (Mammalia:Rodentia:Muridae)

Ingeborg L. Ward Prof.
Tulane Univ. PhD 1967 215-645-4743
Development/ontogeny
Social Behavior/sex and reproduction
Endocrine/hormonal mechanism
sexual behavior differentiation - prenatal hormonal and
prepubertal social
factors underlying sexually dimorphic behaviors
Rats (Mammalia:Rodentia:Muridae)

TENNESSEE

Memphis State University

Psychology
Memphis, TN 38152
CHAIRMAN: Frank Leeming
901-454-2145

DEGREES: MS, PhD ENROLLMENT: 8

CONTACT: Department Chairman or
Jeannette P. Ward

Jeanette P. Ward Prof.
Vanderbilt Univ. PhD 1969 901-454-2375
Misc/other lateralized behavior
Sensory mechanisms vision
Learning: discrimination
lateralized behavior of primates and its neural basis
Humans (Mammalia:Primates:Hominidae)
Lesser bushbaby (Mammalia:Primates:Lorisidae)
Greater bushbaby (Mammalia:Primates:Lorisidae)
Lemurs (several species) (Mammalia:Primates:Lemuridae)
Domestic cat (Mammalia:Carnivora:Felidae)

TEXAS

Rice University

Biology
Houston, TX 77005
CHAIRMAN: Raymon Glanz
713-527-4919
DEGREES: MS, PhD, BA, BS
ENROLLMENT: 2
CONTACT: Joan Strassmann

Joan Strassmann Assoc. Prof.
Univ. of Texas, Austin PhD 1979
713-527-4922
Evolution
Social behavior
Behavioral sociology
evolution of social behavior in wasps
Paper wasps (Insecta:Hymenoptera:Vespidae)

Texas A & M University

Veterinary Anatomy
College Station, TX 77843
CHAIRMAN: Gerald Bratton
409-845-2828
DEGREES: MS, PhD ENROLLMENT:
CONTACT: Gerald Bratton

W.R. Klemm Prof.
Univ. of Notre Dame PhD 1963
409-845-4201
Neural mech
Communication
Drug studies
neuropharmacology; neurophysiology
Cattle (Mammalia:Artiodactyla:Bovidae)
Rats (Mammalia:Rodentia:Muridae)
Mice (Mammalia:Rodentia:Muridae)

Texas A & M University

Small Animal Medicine and Surgery
College Station, TX 77843
CHAIRMAN: John August 409-845-2351

DEGREES: MS ENROLLMENT:
CONTACT: John August

Bonnie Beaver Prof.
Univ. of Minnesota DVM 1968
409-845-3195
Applied ethol
Social behav
Other-Eliminative behav
companion animals, domestic animals; aggression; dominance,
social spacing;
abnormal behavior patterns; activity patterns
Dogs (Mammalia:Carnivora:Canidae)
Cats (Mammalia:Carnivora:Felidae)
Horses (Mammalia:Perissodactyla:Equidae)
Cattle (Mammalia:Artiodactyla:Bovidae)
Baboons

Texas Tech University

Animal Science
Lubbock, TX 79409
CHAIRMAN: J. McCroskey 806-742-2513
DEGREES: MS, PhD ENROLLMENT: 1
CONTACT: John McGlone

John J. McGlone Research Scientist
Univ. of Illinois PhD 1981
806-742-2513
Applied ethol-domestic animals
Communication-chemical
Social behav-aggression
physiological mechanisms controlling pig aggression;
pheromones; applied ethology
Domestic pig (Mammalia:Artiodactyla:Suidae)

University of Texas, Arlington

Psychology, Biology
Arlington, TX 76019
CHAIRMAN: Verne C. Cox (Psych)
817-273-3237
Edmund D. Brodie, Jr. (Bio) 817-273-2871
DEGREES: MS, PhD ENROLLMENT: 16
CONTACT: James N. Bowen (Psychology)
Graduate Advisor (Biology)

James Kopp Assoc. Prof.
Univ. of Michigan PhD 1967
817-273-3237
Learning
Learning-reinforcement
Other-Choice behavior
operant conditioning-concurrent schedules of reinforcement
(positive)
Rat (Mammalia:Rodentia:Muridae)
Squirrel Monkey (Mammalia:Primates:Tapaiidae)

Daniel R. Formanowicz Asst. Prof.
State Univ. of New York, Albany PhD 1982
817-273-2520
Predator/prey interact.

Foraging
Social behavior
arthropod predator/prey interactions including search behavior,
diet choice,
predation risk, and antipredator behavior; social aspects of
foraging
Centipedes (Chilopoda:Scolopendridae)
Scorpions (Arachnida:Buthidae)
Aquatic insects (Coleoptera:Pytiscidae)
Turtles (Reptilia:Testudines)
Frogs (Amphibia:Anura)
Shrews (Mammalia:Insectivora:Soricidae)

Edmund D. Brodie, Jr. Prof.
Oregon State Univ. PhD 1969
817-273-2871
Predator/prey interactions
Avoidance learning
Evolution/survival value
antipredator adaptations of amphibians and reptiles including
mimicy,
toxins, crypsis and aggressive behaviors
Salamander (Chordata:Amphibia:Caudata)
Snake (Chordata:Reptilia:Serpentes)
Lizard (Chordata:Reptilia:Sauria)
Frog (Chordata:Amphibia:Anura)
Insects (Arthropoda:Insecta)

James V. Robinson Assoc. Prof.
Utah State Univ. PhD 1979 817-273-2419
Behavioral ecology-habitat selection
Behavioral ecology-predator/prey interact
Behavioral ecology-territoriality
predator avoidance strategies in odonates
Damsel flies (Insecta:Odonata:Coenagrionidae)
Dragon flies (Insecta:Odonata:Libellulidae)
Dragon flies (Insecta:Odonata:Aeschnidae)

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NOTE to the Membership: Robert Matthews ABS Education
Committee, will eventually receive the database containing the
entire supplement to the Graduate Programs booklet. He will
make this information available to prospective graduate
students who write to him for the 1985 version.

APPLICATION FOR MEMBERSHIP: ANIMAL BEHAVIOR SOCIETY

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Position _____ Institution _____

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- _____ 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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