



# NEWSLETTER

## Animal Behavior Society

Vol. 34, No. 3  
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A quarterly publication

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Maura Carew, *Associate Editor*

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### ALLEE STUDENT COMPETITION AWARD

The winner of the 1989 Allee competition for the best student paper presentation at the annual convention was Elizabeth M. Jakob, Univ California, Davis, for the paper entitled "Age-specific costs and benefits of group living in a pholcid spider." A total of 8 Allee papers were presented in competition at the Northern Kentucky meeting.

### FOURTH FOUNDERS' MEMORIAL AWARD

The 1989 ABS Founders' Memorial Award for the best poster paper at the national convention goes to Ann Hedrick and Susan E. Riechert, Univ Tennessee, for the poster entitled "Genetically-based differences in the foraging behavior of two spider populations." Posters by Christine R. Maher (Univ Calif, Davis) and by Stephan G. Reeb (Univ Toronto) received honorable mention.

### SIXTH ABS FILM FESTIVAL WINNERS

The winner of the 1989 Film Award (commercial) was "Queen of the Beasts," written and produced by Alan Root and filmed by Richard Matthews for Survival Anglia. The winner of the Jack Ward Competition (non-commercial) was "Social Behavior of the Red Jungle Fowl" by Nicholas and Elsie Collias.

### BALLOT ENCLOSED FOR ABS ELECTION

Biographic information is enclosed on the candidates for Second President-Elect, Secretary, and Member-at-Large, pages 7 and 8. Biographic information is also enclosed for candidates for U.S.E.C.C., page 8. Information concerning a proposed constitutional amendment can be found on the ballot. The proposed procedures for certifying applied animal behaviorists can be found directly after the Announcements, pages 5-7. **BALLOT IS ON PAGES 9 and 10.** **Note** that three sections of the ballot deal with issues on which the entire ABS membership is eligible to vote, whereas the fourth section (U.S.E.C.C.) is for U. S. members only.

### 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 SITE

The 1990 meeting will be at SUNY Binghamton, 10-15 June. Local host: Stim Wilcox, Dept Biol Sci, SUNY, Binghamton NY 13901. Phone: 607-798-2423.

### SEVENTH 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 07764 or call him at 201-571-3447. All materials will be viewed and returned quickly. The Seventh Film Festival will be held during the 1990 Annual Meeting of ABS at SUNY, Binghamton.

### ABS OFFICERS

**PRESIDENT:** Patrick Colgan, Biology Dept, Queen's Univ, Kingston, Ontario, Canada K7L 3N6.

**1st PRESIDENT-ELECT:** Charles Snowdon, Psychology Dept, Univ Wisconsin, Madison WI 53706.

**2nd PRESIDENT-ELECT:** H. Jane Brockmann, Dept Zool, Univ Florida, Gainesville FL 32611.

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

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

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

**PROGRAM OFFICER:** (1989-1992) Lynne Houck, Dept Biol, Univ Chicago, Chicago IL 60637.

**PARLIAMENTARIAN:** (1989-1992) George Waring, Dept Zool, Southern Illinois Univ, Carbondale IL 62901.

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

**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.

**MEMBER-AT-LARGE:** (1989-1992) Steven Austad, Dept Biol, Harvard Univ, Cambridge MA 02138.

### 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 third 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, Julia Chase (address below).

Completed applications must be postmarked by 15 November and sent to Julia Chase, Biol Dept, Barnard College, Columbia Univ, New York NY 10027. 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.)

**CANADIAN RESEARCH OPPORTUNITIES WITH RICHARDON'S GROUND SQUIRRELS AND BLACK-BILLED MAGPIES-** for researchers seeking study sites with animals of known histories. Research sites located 40 km from the Univ of Lethbridge, Alberta, Canada. Ground squirrels have been ear-tagged since 1986; maternal kinships known for 4 generations. This readily-trappable and easily-observable squirrel is ideal for studies of mate choice, mating success, social and spatial relationships, reproductive energetics, hibernation ecology, survival and

fecundity. Magpie chicks have been color banded since 1985; two permanent observation blinds; ongoing studies of nest-site selection and nesting success of magpies. Researchers planning non-invasive behavioral or ecological studies compatible with ongoing research will be considered. Limited research funds available; no salary support available. The Univ of Lethbridge is an undergraduate institution. Graduate students with affiliations at other institutions or postdoctoral fellows welcome. For further information contact: Gail R. Michener, Biol Sci, Univ Lethbridge, Alberta, Canada T1K 3M4. Phone: 403-329-2586 or 403-732-4630.

**RESEARCH ASSISTANTS NEEDED IN AUSTRALIA-** for a comparative field study of Bowerbirds. These birds are unique in that males build bowers, structures that are important only for attracting mates. Focus of this research is to determine why the bower-building habit evolved and to use this peculiar behavior to experimentally test models for the evolution of mate choice. Bowerbirds are active near bowers from mid-September to late December; assistants needed during this period. Field sites are located in northern Queensland, Australia. Initial work on this project began in 1980 with a study of the Satin Bowerbird. Since 1987, studies of 4 other species have begun. Field Assistants receive no salary and must pay for their own transportation to Australia.; food and housing provided at the field site. The field work is demanding and requires long hours of observation. Assistants are expected to be mature, congenial, in good health and have a strong interest in animal behavior. Credit can be arranged through the Univ of Maryland. If interested please contact: Dr. Gerald Borgia, Dept Zool, Univ of Maryland, College Park MD 20742 USA. Phone: 301-454-5757.

**GRADUATE STUDENT OPENING (Ph.D. or M.S.)-** for field work on chemical communication in mammals. Students interested in animal behavior, wildlife biology, or chemical ecology fit the bill. Contact: D. Müller-Schwarze, State Univ of New York, College of Environmental Science and Forestry, Syracuse NY 13210.

**VOLUNTEER FIELD ASSISTANT-** needed from 15 August until 10-15 October for ongoing research on the dispersal and mating behavior of eastern chipmunks in the Adirondack Mtns of upstate New York. Research involves trapping, ear tagging, dye marking, blood sampling and radio telemetry. Assistants should be enthusiastic about simple life in an isolated but beautiful environment, enjoy working outdoors under all weather conditions and be mechanically skillful. Work will teach skills in trapping, radio telemetry, blood sampling, behavioral observations and analysis. Room and board will be provided at the Biological Station. Resumés (including research experience) and one letter of recommendation should be sent ASAP to the following address: Sabine S. Loew, Cranberry Lake Biological Station, Cranberry Lake NY 12927. Phone: (315) 848-3444.

**DOCTORAL FELLOWSHIPS AT UNIV OF SOUTHWESTERN LOUISIANA-** The Dept of Biol has available two Board of Regents Doctoral Fellowships to begin in August 1990. Each Fellow will receive a renewable stipend of \$15,000/yr (12 mo), plus complete waiver of tuition and fees. Both fellowships may be used for studies in animal behavior. Presently, the following areas of research are emphasized: (1) amphibian territorial behavior, (2) pheromonal communication among salamanders, (3) nuclear DNA fingerprinting of salamanders for studies of kin recognition, (4) intra- and interspecific competition, and (5)

reproductive strategies of amphibians. For information and application materials, write: **Dr. Robert Jaeger**, Dept of Biol, Univ of Southwestern Louisiana, Lafayette LA 70504-2451. Applications from minorities are particularly encouraged.

### MEETINGS

**TENTH INTERNATIONAL SYMPOSIUM OF ODONATOLOGY**- 6-12 August 1989. Hosted by: Dept Biol Sci, East Tennessee State Univ, Johnson City TN 37614, USA. Contact: **Dan M. Johnson**, above address, for Registration, Abstract, Housing Reservation Forms, and information on travel grants. Phone: 615-929-4359. Deadline for receipt of abstracts and registration fees is 15 March 1989.

**INTERNATIONAL CONFERENCE ON HORMONES, BRAIN AND BEHAVIOR**- 18-22 August 1989 at the Univ Liège, Belgium under auspice of the European Society for Comparative Physiology and Biochemistry (ESCPB). The program will include about 40 invited lectures but also free communications in the form of posters or oral presentations. Contact: **Dr. Jacques Balthazart**, Laboratoire de Biochimie Générale et Comparée (BatL1), Université de Liège, Belgique. Telephone: 32-41-43 44 41; BITNET: U411301 @ BLIULG11).

**THE HUMAN BEHAVIOR AND EVOLUTION SOCIETY FIRST ANNUAL MEETING**- 25-27 August 1989, Northwestern Univ, Evanston, IL. The Society has been formed to promote the exchange of ideas and research findings among scientists who are using evolutionary theory to better understand human behavior. Representatives from all disciplines are welcome, including anthropology, artificial intelligence, biology, economics, ethology, law, philosophy, psychology, psychiatry, psychoanalysis and sociology. Studies of animal behavior are recognized as an important component of attempts to better understand human behavior.

Contact: **Laura Betzlg**, Ph.D. and **Paul Turke**, Ph.D.  
The University of Michigan  
1521 Rackham Bldg., Ann Arbor, MI 48109-1070  
Phone: 313-936-2526.

**SECOND INTERNATIONAL CONGRESS OF NEUROETHOLOGY**- 10-16 September 1989 at the Free University of Berlin (Federal Republic of Germany). For information, write to: **International Congress of Neuroethology**, c/o Professor Dr. R. Menzel, Koenigin Luise strasse 28-30, D-1000 Berlin 33, West Germany.

**THE SOCIÉTÉ QUÉBÉCOISE POUR L'ÉTUDE BIOLOGIQUE DU COMPORTEMENT**- will hold its annual meeting 27-29 October 1989 at the Université Laval, Ste-Foy, Québec. The meeting will include a special symposium on reproductive strategies. For information write to: **G. Gauthier**, Dépt. Biol, Université Laval, Ste-Foy, Qc, Canada, G1K 7P4.

**INTERNATIONAL SOCIETY FOR DEVELOPMENTAL PSYCHOBIOLOGY**- will hold its Annual Meeting Thursday-Sunday, 26-29 October 1989 at the Sir Francis Drake Hotel, 450 Powell St, San Francisco, CA. For additional information contact: **Michael Leon**, Conference Coordinator, ISDP, Dept Psychobiol, Univ Calif-Irvine, Irvine CA 92717.

**NORTHEAST REGIONAL ANIMAL BEHAVIOR MEETINGS**- will be held 10-12 November 1989 at Brown Univ, Providence RI. For more information contact: **Dr. Jonathan Waage**, Box G, Program in Ecology and Evolutionary Biology, Brown Univ, Providence RI 02912

**SEVENTH BIENNIAL CONFERENCE ON THE ECOLOGICAL AND EVOLUTIONARY ETHOLOGY OF FISHES**- 19-23 May 1990 in Flagstaff AZ hosted by the Dept Biol Sci and the Bilbey Research Center, Northern Arizona Univ, approximately 230 km north of Phoenix, the state capitol. Major airlines serve Phoenix, with commuter airlines and buses connecting to Flagstaff. AmTrak train service also to Flagstaff from east or west coasts of USA. Flagstaff rests at 2150 m elevation in Ponderosa pine forest along the base of the San Francisco Peaks (to 3862 m), where C. Hart Merriam developed his Life Zone concept one century ago (1890). Within easy driving distance are habitats ranging from Alpine Tundra to Sonoran Desert, encompassing the Colorado River and the Grand Canyon, Glen Canyon Dam and Lake Powell, and the red rock cliffs of Sedona. Aquatic habitats comprise large rivers and lakes, smaller rivers, permanent and intermittent streams, lakes and ponds, collapsed travertine spring mounds, and ephemeral pools.

Plans for the conference include two symposia (*please contact conference or symposium organizers if you wish to be involved*), contributed paper and poster sessions, discussion meetings and trips to local habitats or historical sites. A final announcement, with a Call for Papers and details of the meeting, will be sent in late Autumn 1989. **SYMPOSIA**: (Chief Organizer and Tentative Titles)-

1. Behavioral Genetics of Fishes (David Noakes, Dept Zool, Univ of Guelph)
2. Colors, Vision and Underwater Light (Cynthia Annette, Cooperative Fishery Unit and Dept Zool, Univ of Arkansas).

Contact: **Dr. W. Linn Montgomery**, Dept Biol Sci, Northern Arizona Univ, Flagstaff AZ 86011-5640 USA. Phone (602) 523-7505 or 523-2381.

**ASSOCIATION FOR BEHAVIOR ANALYSIS- 16th ANNUAL CONVENTION**- 27-31 May 1990, Opryland Hotel, Nashville TN. Submissions now being accepted for review! Deadline for receipt is 15 NOV 1989. For information contact: **ABA**, Western Michigan Univ, 258 Wood Hall, Kalamazoo MI 49008-5052. Phone: 616-387-4495.

**THE BEHAVIOR OF MOLLUSCS**- 3-7 June 1990 symposium and Film Festival at the 56th Meeting of the American Malacological Union at the Marine Biological Laboratory, Woods Hole MA. Papers are solicited on terrestrial, freshwater and marine molluscs of all classes. Subsections of the symposium include: Behavior related to Larval distribution, Feeding behavior, Social behavior, Reproductive tactics, Defensive behavior, Migrations, Biological rhythms, Ontogeny of behavior, and Integrative neurobiology and behavior. Contact: **Roger T. Hanlon**, President, American Malacological Union, Marine Biomedical Institute, Univ Texas Medical Branch, Galveston, TX 77550 USA. Phone: (409) 761-2133. FAX: 409 762-9382. BITNET: HANLON@UTMBEACH.

### ANNOUNCEMENTS

#### CENTENNIAL AWARDS FOR EXCELLENCE IN ZOO RESEARCH

To celebrate the National Zoological Park's Centennial, the **NATIONAL ZOO** and the **FRIENDS OF THE NATIONAL ZOO** are sponsoring a competition to promote and reward excellence in zoo research. Any research conducted at a zoological park or aquarium, supported by a zoo, or very clearly and specifically supportive of the mission of zoos is eligible.

## IEC TRAVEL AWARDS

Awards will be given for the most meritorious basic or applied unpublished research paper in the fields of behavior and ecology, molecular and population genetics, nutrition, physiology and endocrinology, animal exhibitry and management, education, conservation biology, and veterinary medicine and pathology.

Submissions must be in the form of a manuscript in the *Zoo Biology* format; manuscripts may be no more than 25 pages long, including tables, figures, and bibliography. Applicants must submit six copies of their manuscript with a one-page cover letter detailing the significance of the research. Staff and resident Research Associates of the National Zoo are ineligible to apply.

**DEADLINE FOR SUBMISSION OF MANUSCRIPTS IS 15 NOVEMBER 1989.** Awards will be announced in February 1990 and winners will be invited to receive their awards and present a talk on their research at a National Zoological Park symposium to be held on 27, 28 April 1990, just prior to the AAZPA Eastern Regional Meeting scheduled for 29 April to 2 May. We also intend to publish the award-winning papers.

*For further information and application materials, please write:*  
Centennial Awards  
National Zoological Park  
Washington, D. C. 20008

## INSTITUTIONAL ANIMAL RESOURCES

**SCOPE:** The National Institutes of Health's Division of Research Resources will award facility improvement grants in fiscal 1990 to modernize and expand institutions' animal research facilities to comply with animal welfare regulations. (April 28 *NIH Guide*)

**DEADLINES:** 7 August and 4 December.

**FUNDS:** An estimated \$11 million will be available for 35 to 40 grants. The maximum grant is \$700,000. Funds cover renovation and equipment, such as cages and cage washers, not new construction. Support is for one year.

**ELIGIBILITY:** Domestic public or private institutions, organizations or associations with one or more animal research projects supported by the Public Health Service. Institutions may submit only one campus-wide application.

**CONTACT:** Leslie Bullock, Laboratory Animal Sciences, Program, Animal Resources Program Br., Division of Research Resources, National Institutes of Health, 5333 Westbard Ave., Rm. 853, Bethesda MD 20892. Phone: 301-496-5175.

## ANIMAL CARE/USE PUBLICATION AVAILABLE

Free copies of a publication edited by Janis W. Driscoll based on the papers included in the animal care/use invited paper session presented at the 1988 ABS meeting will be available soon and may be requested from: the National Agricultural Library, Public Services Division, Beltsville MD 20705. The title is: "Animal Care and Use in Behavioral Research: Regulations, Issues and Applications."

The U.S. Ethological Conference Committee has awarded 21 young ethologists (selected from 60 applications, Ph.D. for less than 5 years) with NSF travel grants to attend the 1989 International Ethological Conference in Utrecht, the Netherlands, 9-17 August. The recipients are Eldridge Adams, Sue Boinski, Randall Breitwisch, Norman Carlin, Scott Carroll, Kim Derrickson, Peter Ducey, Susan Foster, Marc Hauser, Ann Hedrick, Maggie Hodge, Charles Janson, Patricia McConnell, Wayne Potts, Nancy Pratt, Linda Rayor, Scott Sakaluk, James Schwartz, Eric van den Berghe, James Whitehead and Marlene Zuk.

## CALL FOR PAPERS ON:

### **PERSON AND PROPERTY: THE PSYCHOLOGY OF POSSESSION & OWNERSHIP**

The relationships of people to things, and of people to one another in respect to things, are among the most important aspects of personal life, of social life, and of economic and political beliefs and behaviors. However, quantitative and qualitative empirical research on possession and ownership has been neglected by the social and behavioral sciences, and has been scattered and isolated within various sub-disciplines.

*The Journal of Social Behavior and Personality* is planning a special issue on property, ownership, and possession. Papers from a diversity of disciplinary perspectives are sought. Whether by review, by theoretical analysis, or by empirical research, papers should present issues and pose problems that might guide or provoke wider interest and study of the topic.

For details, contact:

Dr. Floyd Rudmin, Faculty of Law, Queen's Univ,  
Kingston, Ontario, Canada K7L 3N6. BITNET:  
RUDMINF@QUCDN

## SCAW CONFERENCES AND PUBLICATIONS

The Scientists Center for Animal Welfare (SCAW) has become increasingly active in sponsoring conferences and in the publication of books and audio tapes. For example, two conferences were recently sponsored by SCAW: "Canine Research Environment" and "Well-being of Nonhuman Primates in Research" (22 and 23 June, respectively). These announcements arrived too late for our May Newsletter, so I mention them here mainly to apprise our members that these events have in fact occurred and that they can subscribe to a quarterly SCAW Newsletter (\$35 per year, tax-deductible) to receive timely announcements. Three books are available through SCAW: *Science and Animals: Addressing Contemporary Issues* (\$25); *Effective Animal Care and Use Committees* (\$25); and *Field Research Guidelines* (\$5). ABS members have contributed to these books, and the SCAW Board of Trustees contains at least one ABS member. For more information, write to: SCAW, 4805 St. Elm Avenue, Bethesda, MD 20814.

**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 of Florida, Gainesville FL 32611. One copy will be placed with ABS Archives, the other will be used at ABS functions.

THANKS DUE- Dr. Philip Langer, School of Education, Univ Colo, Boulder CO has been very helpful to D. Chiszar and M. Carew during the preparation and mailing of this and previous Newsletters. (We pray he continues in his altruistic ways.)

## CERTIFICATION PROPOSAL

**EDITOR'S NOTE:** As promised at the 1989 Business Meeting, we shall present the full text of the proposed program for certification of applied animal behaviorists. Let me lay out a bit of background and context for you. The 1988 Executive Committee approved the concept of certification and charged the Committee on Issues in Applied Animal Behavior with the responsibility of drafting a proposal for certification procedures (see Minutes, August 1988 Newsletter). This charge was carried out and a proposal was submitted to the 1989 Executive Committee. After much discussion a modified draft was given to the Policy and Planning Committee which then made further modifications. Policy and Planning also decided that no Constitutional changes were needed to permit ABS to enact the final version of the certification proposal (i.e., only policy and/or bylaws changes need to be made). Nevertheless, the Committee on Issues in Applied Animal Behavior and the Policy and Planning Committee would like the membership to express its views on the acceptability of this certification proposal. Hence, the 1989 general election ballot contains a space for you to vote approval or disapproval of the following proposal. Finally, any comments or suggestions about the proposal can be addressed to Dr. Philip Lehner, Chair, Committee on Issues in Applied Animal Behavior, Dept of Zool, Colorado State Univ, Fort Collins CO 80523.

### PROPOSED ANIMAL BEHAVIOR SOCIETY PROGRAM FOR CERTIFICATION OF APPLIED ANIMAL BEHAVIORISTS

#### I. RATIONALE:

Animal behaviorists can be educated in a variety of disciplines including animal science, ethology, psychology, wildlife biology, behavioral ecology, and/or zoology. A professional applied animal behaviorist is a person with demonstrated expertise in:

- 1) the theoretical principles of animal behavior,
- 2) the process of conducting empirical research on the behavior of animals in either a laboratory or field setting,
- 3) the application of animal behavior principles to solutions of animal behavior problems, and
- 4) the dissemination of accurate information about animal behavior through teaching and/or research.

Certification of applied animal behaviorists is a means of demonstrating to the public, as well as to colleagues and peers, the training required to practice as a professional applied animal behaviorist. Certification constitutes recognition by the Animal Behavior Society that, to its best knowledge, the certificand meets the educational, experiential, and ethical standards required by the Society for professional applied animal behaviorists. Certification does not constitute a guarantee that the applicant meets a specific standard of competence or possesses specific knowledge.

#### II. OBJECTIVES

The objectives of the Animal Behavior Society's Certification Program are:

- 1) to recognize the professional training of applied animal behaviorists by establishing specific standards and criteria for certification,
- 2) to educate and inform potential public and private clients and employers about the education and experience of applied animal behaviorists and to assist these same groups in evaluating applied animal behaviorists,
- 3) to assist the public in identifying applied animal behaviorists by establishing and maintaining a procedure for critical peer evaluation based upon defined minimum education, experience and ethical requirements,
- 4) to create and maintain public confidence in the advice and opinions of applied animal behaviorists as well-educated and experienced professionals who have pledged to uphold the Code of Ethics of the Animal Behavior Society and to act in the best interest of the public, and
- 5) to provide public and private clients more positive access to professional advice in matters concerning applied animal behavior.

#### III. LEVELS OF PROFESSIONAL CERTIFICATION

- A. ASSOCIATE APPLIED ANIMAL BEHAVIORIST
- B. CERTIFIED APPLIED ANIMAL BEHAVIORIST

#### IV. REQUIREMENTS

##### A. ASSOCIATE APPLIED ANIMAL BEHAVIORIST

1. Education. Master's Degree in a biological or behavioral science with an emphasis on animal behavior, from an accredited college or university. The applicant's undergraduate and/or graduate coursework must include a minimum of 21 semester credits in behavioral science courses to include: 6 semester credits in ethology, animal behavior and/or comparative psychology, and 6 semester credits in animal learning, conditioning and/or animal psychology (e.g., experimental psychology).

2. Experience. Minimum of two years professional experience in applied animal behavior. The applicant must demonstrate the ability to perform independently and professionally in applied animal behavior. Examples include independent studies, data analyses, formulation and testing of hypotheses, and professional writing. Evidence of significant experience working interactively with a particular species (e.g., researcher, research assistant, or intern with a certified applied animal behaviorist) prior to working independently with the species in a clinical animal behavior setting (i.e., one involving the diagnosis and treatment of an animal's behavior).

3. Endorsement. A minimum of three letters of recommendation from Animal Behavior Society (regular) members affirming the applicant's professional experience in the areas listed above. Only two letters may come from the same institution.

##### B. CERTIFIED APPLIED ANIMAL BEHAVIORIST

1. Education and Experience. Doctoral degree in a biological or behavioral science with an emphasis on animal behavior, including five years of professional experience; OR a DVM (or VMD) plus two years in a university-approved residency in animal behavior, and three additional years of professional experience in applied animal behavior. Any of the

degrees must include the coursework required for a Associate Applied Animal Behaviorist. Also:

a. Demonstration of thorough knowledge of the literature, scientific principles, and principles of animal behavior .

b. Demonstration of original contributions or original interpretations of animal behavior information.

c. Evidence of significant experience working interactively with a particular species (e.g., researcher, research assistant, or intern with a Certified Applied Animal Behaviorist) prior to working independently with the species in a clinical animal behavior setting (one involving the diagnosis and treatment of an animal's behavior).

2. Endorsement. A minimum of three letters of recommendation from ABS (regular) members affirming the applicant's professional experience in the areas listed above. Only two letters may come from the same institution.

**EXCEPTIONS:** An applicant who does not qualify under the above criteria must submit a statement to the Board of Professional Certification explaining why and how the intent of the educational and experiential requirements is satisfied.

### C. RENEWAL

Certification may be renewed each year for five years following initial certification or recertification. Failure to pay the yearly renewal or recertification fee will result in decertification. Certification will be reinstated following receipt of the annual renewal fee within the 5 year certification period.

Certification expires at the end of 5 years, and a certificant must apply for recertification.

### D. RECERTIFICATION (every fifth year)

Applicants for Recertification must demonstrate continued professional activity and contributions in applied animal behavior (e.g., professional publications, attendance and paper presentations at professional meetings and conferences). Recertification must be completed by the end of the 5 year certification period.

## V. ETHICS:

Associate Applied Animal Behaviorists and Certified Applied Animal Behaviorists shall:

A. Conduct their activities in accordance with the Code of Ethics of the Animal Behavior Society, with the highest standards of professional conduct and personal honor, and in accordance with the laws of applicable jurisdictions.

B. Accept employment to perform professional services only in the areas of their own competence and consistent with the Code of Ethics of the Animal Behavior Society. They shall seek to refer clients or employers to other applied animal behaviorists when expertise of such professionals shall best serve the interests of the public and the client/employer. They shall cooperate fully with other professionals in the best interest of the animals, the public and the client/employer. They shall act in accordance with ABS/ASAB guidelines for the use of animals in research.

C. Refrain from advertising in a self-laudatory manner, beyond statements intended to inform prospective clients/employers of qualifications, or in a manner detrimental to fellow professionals. They shall follow ABS Policy for the use of the Society's name.

## VI. ADMINISTRATION:

Certification shall be administered by the Board of Professional Certification (BPC) consisting of six members including the First President-Elect of the Animal Behavior Society who serves as an *ex officio* member. The Chairperson and Board members are appointed by the President of the Animal Behavior Society with the approval of the ABS Executive Committee (see below)..

A. Board Member Requirements. Board members must be certified and be ABS members in good standing. (The certification requirement does not apply to the First President-Elect, who serves as an *ex officio* member.) They should represent an appropriate range of training in animal species, theoretical perspectives, and areas of applied animal behavior.

B. Appointment. The President of ABS, in consultation with the Chairperson of the Committee on Issues in Applied Animal Behavior and the Executive Committee, shall appoint members. Members appointed initially must be deemed certifiable.

C. Terms. Three year staggered terms such that no more than two terms expire each year.

D. Board Chairperson Responsibilities. The Board Chairperson will be responsible for:

1. Maintaining hardcopy and computer files on all applicants.
2. Maintaining a list of Associate Applied Animal Behaviorists and Certified Applied Animal Behaviorists.
3. Preparing application materials for review by the Board at its annual meeting.
4. Chairing, and providing agenda for, annual meeting of BPC.
5. Periodically advising applicants of status of their applications, including materials yet to be received.
6. Informing applicants of the results of the BPC's review.
7. Coordinating the process of review for censure and suspension or revocation of certification.
8. Advising Associate Applied Animal Behaviorists and Certified Applied Animal Behaviorists of yearly renewal and recertification requirements and deadlines.
9. Maintaining the Board's budget.
10. Providing a written and oral report on the status of the Certification Program to the ABS Executive Committee at the annual meeting.
11. Providing information on individual applications or the Certification Program to officers of the ABS at their request, including information for any appeal proceedings.
12. Forwarding all Certification Program equipment and records to the incoming Chairperson.

E. Meetings. The Board will meet annually to review and act on applications. The Board may meet more frequently at the request of a majority of the Board. For the first two years the Board will meet at the Annual Meeting of the ABS. Thereafter they may meet separately depending on the amount of business to be conducted and the Board's budget.

F. Financing. The ABS will provide startup expenses for the Certification Program for the first two years. The Certification Program will reimburse the ABS for that amount during the first two years of operation. Thereafter the Certification Program will be self-sustaining through fees collected. The Board's budget will be allocated by the ABS Treasurer.

G. Fee Structure (same for both levels of certification)  
ABS Members      Non-Members

<u>Initial Application:</u> (non-refundable, but also covers first re-application)	\$75	\$150
<u>Re-application:</u> (second and subsequent)	\$75	\$150
<u>Yearly Renewal:</u>	\$15	\$ 75
<u>Recertification:</u>	\$50	\$100

H. Application. All Initial, Renewal, and Recertification applicants will be required to submit the following materials whether they are seeking certification as an Associate Applied Animal Behaviorist or a Certified Applied Animal Behaviorist.

<u>Application Materials</u>	<u>Initial and Re-application</u>	<u>Yearly Renewal</u>	<u>Recertification</u>
Application Form	X		X
Degree Transcripts	X		
Current Resumé	X		X
Names, Addresses and Phone Numbers of five references	X		X
Fee	X	X	X

All completed Initial, Yearly Renewal, and Recertification applications will be sent to the Board Chairperson along with the fees (check payable to the Animal Behavior Society). The applications will be filed and maintained by the Chairperson (hardcopy and computer database), and the fees will be forwarded to the ABS Treasurer on a monthly basis.

I. Re-application. An applicant may reapply for certification following denial by the BPC. The re-application may be based on completing deficiencies specified by the BPC or on exceptions deemed appropriate by the applicant.

J. Denials and Appeals Procedure. A decision by the BPC to deny certification may be appealed to the ABS Executive Committee by March 1. The appeal must be in writing to the President of the Animal Behavior Society. The reason(s) for denial shall be provided in writing to the President of the ABS by the Chairperson of the BPC. The Executive Committee shall have the right to seek evidence from others. The decision of the ABS Executive Committee shall be delivered to the appellant in writing and shall be final.

K. Disciplinary Procedure. The BPC shall have the authority to censure a certificant, to suspend certification for a stated period, or to revoke certification on finding that an individual has willfully violated the ABS Code of Ethics or misrepresented the facts at the time of certification. Such a

finding may be reached by concluding that an allegation of improper deportment is true.

A charge of misconduct may be presented in writing to the Chairperson of the BPC. Anonymous allegations will not be entertained. After reviewing the case, the BPC may elect to pursue the issue and render a written decision informing the certificant, the individual who initiated the charge and the President of the ABS. Any such action by the BPC may be appealed to the ABS Executive Committee, whose decision will be final.

CANDIDATES FOR THE 1989 ELECTION OF OFFICERS

SECOND PRESIDENT-ELECT:

**Michael D. Beecher**

Birthdate: March 20, 1940

Education: B.A. 1963 Reed College

Ph.D. 1970 Boston Univ

Present Position: Professor, Animal Behavior Program, Dept of Psych, Univ of Washington, Seattle

Research Interests: Evolution and behavior; behavioral ecology and mechanisms of animal communication; kin recognition; animal sensory-perceptual systems.

ABS Activities: Editorial Board, *Animal Behaviour*, 1985-1988; Allee Competition Judge, 1986; Chair, Ethics Committee, 1987-90.

**Gall R. Michener**

Birthdate: February 25, 1946

Education: B.Sc. 1967 Univ of Adelaide, Australia

Ph.D. 1972 Univ of Saskatchewan, Canada

Present Position: Associate Professor, Biol Sci, Univ of Lethbridge, Alberta, Canada

Research Interests: Behavioral ecology and life history of birds and mammals; mating systems; sexual differences in behavior and ecology.

ABS Activities: Policy Committee 1979-81; Allee Competition Judge; Treasurer 1982-88; Editorial Board, *Animal Behaviour*, 1988-91.

SECRETARY:

**Janis W. Driscoll**

Birthdate: May 19, 1936

Education: BS 1962 Univ of Washington

Ph.D 1967 Univ of Washington

Present Position: Professor of Psychology, Univ of Colo at Denver, Denver CO

Research Interests: Social behavior of fishes, ethical treatment of animals.

ABS Activities: Animal Care Committee Chair, 1986-Present; Invited paper session organizer, "Animal Care/Use: Regulations, Practices and Improvements", 1988.

**David B. Miller**

Birthdate: September 21, 1948

Education: B.A. 1970 Univ of Florida  
M.S. 1972 Univ of Miami  
Ph.D 1973 Univ of MiamiPresent Position: Professor of Psychology, Univ of  
Conecticut, StorrsResearch Interests: Development of instinctive behavior;  
auditory communication; behavioral embryology;  
domestication; contextual effects on species-typical  
behavior.ABS and Related Activities: Allee Awards Judge, 1983;  
Policy and Planning Committee, 1982-1988 (Chair,  
1985-1988); Editorial Board, *Animal Behaviour*,  
1988-1989.**ARTHUR A. MYRBERG, JR.**

Birthdate: June 28, 1933

Education:

B.A.: 1954 Ripon College  
M.S. 1958 Univ of Illinois, Urbana  
Ph.D.: 1961 Univ of Calif Los Angeles  
Post-Doc: 1961-64 Max-Planck Institute,  
Seewiesen FDRPresent Position: Professor of Marine Science, School of  
Marine and Atmospheric Science, MiamiResearch Interests: Ethology and sensory biology of  
teleost fishes and sharks; social behavior and sound  
communication in vertebrates.ABS and Related Professional Activities:  
ABS Policy Committee 1970-1973; IEC participant  
since 1961 (except Australia).MEMBER-AT-LARGE:**Martin Daly**

Birthdate: November 15, 1944

Education: B.A. 1967 Univ of Toronto  
M.A. 1968 McGill Univ  
Ph.D. 1971 Univ of TorontoPresent Position: Professor of Psychology and Biology,  
McMaster UnivResearch Interests: Behavioral ecology and sociobiology of  
kangaroo rats and people; consequences of uncertain  
paternity; interpersonal conflict and violence.

ABS Activities: None

**SUSAN RIECHERT**

Birthdate: October 20, 1945

Education:

B.A.: 1967 Univ of Wisconsin, Madison  
M.A.: 1970 Univ of Wisconsin, Madison  
Ph.D. 1973 Univ of Wisconsin, Madison

Present Position:

Distinguished Professor of Zoology, Univ of  
TennesseeResearch Interests: Ecology and behavior of spiders,  
evolution of cooperative behavior in spiders, sexual  
selection, genetics, and mathematical models.ABS and Related Professional Activities:  
ABS Program Officer 1986-1989; President, American  
Arachnological Society 1983-1985; member of AAS  
Board of Directors; Sigma Xi National Lecturer 1985-  
1987.**Steve Rebach**

Birthdate: November 15, 1942

Education: B.S. 1963 City College of New York  
Ph.D. 1970 Univ of Rhode IslandPresent Position: Professor of Biol, Univ of Maryland  
Eastern Shore, Princess Anne, MDResearch Interests: Optimal foraging, biological rhythms,  
orientation and migration in marine decapod  
crustaceansABS Activities: Parliamentarian 1970-1983; Chairman,  
Committee on Organization and Bylaws, 1970-1983;  
Editor, *Animal Misbehaviour*, 1984-1987.**CHARLES SNOWDON**

Birthdate: August 8, 1941

Education:

B.S.: 1963 Oberlin College  
M.S.: 1964 Univ of Pennsylvania  
Ph.D.: 1968 Univ of PennsylvaniaPresent Position: Professor of Psychology and Zoology,  
Univ of Wisconsin, MadisonResearch Interests: Auditory and chemical communication;  
reproductive physiology; ontogeny of behavior;  
captive breeding of primates..ABS and Related Professional Activities:  
Editor 1985-1988; Editorial Advisory Board 1973-  
1978; Chair, Organizing Committee for IEC XX;  
First President-Elect ABS.CANDIDATES FOR 1989 ELECTION TO  
MEMBERSHIP ON U.S.E.C.C.(Only U.S. members of ABS may vote in this part of the  
election.) Two members are to be elected (see ballot for more  
information).**DANIEL ESTEP**

Birthdate: March 19, 1949

Education:

B.A.: 1971 Univ of Texas at Austin  
M.A.: 1973 Univ of Florida  
Ph.D.: 1975 Univ of FloridaPresent Position: Assoc. Professor of Psychology,  
University of Georgie, Athens, GA.Research Interests: Effects of the physical and social  
environment on the behavior of animals.ABS and Related Professional Activities:  
Education Committee 1983-1988, Chair 1985-88.

BALLOT: 1989 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 10 OCT 1989  
CANNOT BE COUNTED**

ACCORDING TO ABS POLICY THE ENVELOPE  
CONTAINING YOUR BALLOT  
MUST BEAR YOUR NAME

You may cast write-in votes. Notice that we are electing three officers of ABS (terms begin 16 June 1990), we are deciding to accept or reject one constitutional amendment, and we are deciding to accept or reject the instrument proposed by the Committee on Issues in Applied Animal Behavior for the Certification of Applied Animal Behaviorists. Also, two delegates for the U. S. Ethological Congress Committee will be elected (terms begin 1 September 1989). All ABS members (regular members, student members, spouse members, and active fellows) are eligible to vote on the three ABS officers, on the constitutional amendment and on the Certification instrument.. ONLY U.S. MEMBERS (regular, student, spouse and active fellows) may vote for USECC delegates. Results will be announced in the November 1989 ABS Newsletter. Please vote. The order of listing candidates may influence voting. Please avoid this bias and read the resumes of the candidates on pages 7 and 8 of this newsletter. This year the candidates are listed in alphabetical order.

ABS OFFICERS

Rank the candidates for each office by placing a 1 in the blank following your first choice, a 2 in the blank following your second choice, etc.

FOR SECOND PRESIDENT-ELECT:

Michael D. Beecher \_\_\_\_\_

Gail Michener \_\_\_\_\_

Write in \_\_\_\_\_

FOR SECRETARY:

Janis W. Driscoll \_\_\_\_\_

David B. Miller \_\_\_\_\_

Write in \_\_\_\_\_

FOR MEMBER-AT-LARGE:

Martin Daly \_\_\_\_\_

Steve Rebach \_\_\_\_\_

Write in \_\_\_\_\_



**SPECIAL FEATURE CONTINUED**  
**THE LISTING OF**  
**THE MOST INFLUENTIAL BOOKS IN ANIMAL**  
**BEHAVIOR - A SURVEY**

BY: Daniel Q. Estep, Former Chair  
 ABS Education Committee  
 Department of Psychology  
 Univ of Georgia, Athens, GA 30602

**BACKGROUND**

The Education Committee of the Animal Behavior Society has been compiling book lists in animal behavior for use by students and professionals. These include introductory books, laboratory exercises and recent theoretical books. To ensure that certain "classic" books had not been missed, opinions were solicited from the Fellows and Officers of the Animal Behavior Society concerning the most influential books in animal behavior. The objective was to produce lists of the most important books in animal behavior as viewed by these scientists. Following are the remaining topics and relevant book listings (see Newsletter, Vol. 34, 2, May 1989 for other details).

**"INTRODUCTORY UNDERGRADUATE TEXT(S)**  
**USED IN THE LAST FIVE YEARS"**

Responses = 19                      Books Listed = 18

- (8) Alcock, J. (1984) *Animal Behavior. An Evolutionary Approach*, 3rd Ed., Sunderland, MA: Sinauer Assoc Press.
- (3) Dewsbury, D. A. (1978) *Comparative Animal Behavior*. New York: McGraw-Hill.
- (3) Drickamer, L. C. & Vessey, S. H. (1986) *Animal Behavior. Concepts, Processes, and Methods*, 2nd Ed. Boston: Prindle, Weber & Schmidt.
- (3) Grier, J. W. (1984) *Biology of Animal Behavior*. St. Louis, MO: Times Mirror/Mosby.
- (3) Manning, A. (1979) *An Introduction to Animal Behaviour*, 3rd Ed. Menlo Park, CA: Addison-Wesley Publ.
- (1) Barash, D. P. (1982) *Sociobiology and Behavior*, 2nd Ed. New York: Elsevier Science Publ.
- (1) Barnett, S. A. (1981) *Modern Ethology. The Science of Animal Behavior*. New York: Oxford Univ Press.
- (1) Broom, D. (1981) *Biology of Behaviour*. New York: Cambridge Univ Press.

- (1) Craig, J. V. (1981) *Domestic Animal Behavior. Causes and Implications for Animal Care and Management*. Englewood Cliffs, NJ: Prentice-Hall.
  - (1) Eibl-Eibesfeldt, I. (1975) *Ethology. The Biology of Behavior*, 2nd Ed. New York: Holt, Rinehart & Winston (Trans. E. Klinghammer).
  - (1) Huntingford, F. A. (1984) *The Study of Animal Behaviour*. New York: Methuen, Inc.
  - (1) Klopfer, P. H. (1974) *An Introduction to Animal Behavior, Ethology's First Century*, 2nd Ed. Englewood Cliffs, NJ: Prentice-Hall
  - (1) Krebs, J. R. & Davies, N. B. (1981) *An Introduction to Behavioural Ecology*. Sunderland, MA: Sinauer Assoc, Inc.
  - (1) Marler, P. & Hamilton, W. J., III (1966) *Mechanisms of Animal Behavior*. New York: John Wiley & Sons.
  - (1) McFarland, D. (1985) *Animal Behavior, Psychobiology, Ethology and Evolution*. Menlo Park, CA: Benjamin/Cummings Publ.
  - (1) Slater, P. J. B. (1986) *An Introduction to Ethology*. New York: Cambridge Univ Press.
  - (1) Wallace, R. A. (1979) *Animal Behavior, Development, Ecology and Evolution*. Glenview, IL: Scott, Foresman Co.
  - (1) Wilson, E. O. (1975) *Sociobiology. The New Synthesis*. Cambridge, MA: Harvard Univ Press.
- "IF YOU COULD RECOMMEND JUST ONE BOOK TO A GRADUATE STUDENT WHAT WOULD IT BE?"**  
 Responses = 22                      Books Listed = 17
- (4) Hinde, R. A. (1970) *Animal Behaviour. A Synthesis of Ethology and Comparative Psychology*, 2nd Ed. New York: McGraw-Hill.
  - (2) Brown, J. L. (1975) *The Evolution of Behavior*. New York: W. W. Norton.
  - (2) Krebs, J. R. & Davies, N. B. (Eds.) (1984) *Behavioural Ecology. An Evolutionary Approach*, 2nd Ed. Sunderland, MA: Sinauer Assoc Press.
  - (2) Wilson, E. O. (1975) *Sociobiology. The New Synthesis*. Cambridge, MA: Harvard Univ Press.
  - (1) Barnett, S. A. (1981) *Modern Ethology. The Science of Animal Behavior*. New York: Oxford Univ Press.
  - (1) Dawkins, R. (1976) *The Selfish Gene*. New York: Oxford Univ Press.

- (1) Dewsbury, D. A. (Ed.) (1985) *Leaders in the Study of Animal Behavior. Autobiographical Perspectives.* Lewisburg, PA: Buckness Univ Press.
- (1) Eibl-Eibesfeldt, I. (1975) *Ethology. The Biology of Behavior, 2nd Ed.* New York: Holt, Rinehardt & Winston (Trans. E. Klinghammer).
- (1) Griffin, D. (1984) *Animal Thinking.* Cambridge, MA: Harvard Univ Press.
- (1) Klopfer, P. H. (1974) *An Introduction to Animal Behavior, Ethology's First Century, 2nd Ed.* Englewood Cliffs, NJ: Prentice-Hall.
- (1) McFarland, D. (1985) *Animal Behavior. Psychobiology, Ethology and Evolution.* Menlo Park, CA: Benjamin/Cummings Publ.
- (1) McFarland, D. (Ed.) (1981) *The Oxford Companion to Animal Behaviour.* New York: Oxford Univ Press.
- (1) Tinbergen, N. (1972) *The Animal in Its World. Explorations of an Ethologist, 1932-1972.* London: Allen & Unwin (2 vols).
- (1) Trivers, R. (1985) *Social Evolution.* Menlo Park, CA: Benjamin/Cummings Publ.
- (1) Von Frisch, K. (1967) *The Dance, Language and Orientation of Bees.* Cambridge, MA: Harvard Univ Press (Trans. L. E. Chadwick).
- (1) Wilson, E. O. (1980) *Sociobiology, Abridged Ed.* Cambridge, MA: Harvard Univ Press.
- (1) Wittenberger, J. F. (1981) *Animal Social Behavior.* Bostox: Duxbury Press.
- (2) Krebs, J. R. & Davies, N. B. (1981) *An Introduction to Behavioural Ecology.* Sunderland, MA: Sinauer Assoc Press.
- (2) Krebs, J. R. & Davies, N. B. (Eds.) (1984) *Behavioural Ecology. An Evolutionary Approach, 2nd Ed*
- (2) McFarland, D. (1985) *Animal Behavior. Psychobiology, Ethology and Evolution.* Menlo Park, CA: Benjamin/Cummings Publ.
- (1) Barash, D. F. (1982) *Sociobiology and Behavior, 2nd Ed.* New York: Elsevier Science Publ.
- (1) Clutton-Brock, T. H. & Harvey, F. H. (Eds.) (1978) *Readings in Sociobiology.* San Francisco: W. H. Freeman.
- (1) Daly, M. & Wilson, W. (1983) *Sex, Evolution, and Behavior, 2nd Ed.* Boston: Willard Grant Press.
- (1) Day, R. A. (1973) (1973) *How to Write and Publish A Scientific Paper.* Philadelphia, PA: ISI Press.
- (1) Dewsbury, D. A. (1978) *Comparative Animal Behavior.* New York: McGraw-Hill.
- (1) Grier, J. W. (1984) *Biology of Animal Behavior.* St. Louis, MO: Times Mirror/Mosby.
- (1) Halliday, T. R. & Slater, P. J. (Eds.) (1983) *Animal Behavior: Vol. I. Causes and Effects.* New York: W. H. Freeman.
- (1) Halliday, T. R. & Slater, P. J. (Eds.) (1983) *Animal Behavior: Vol. II. Communication.* New York: W. H. Freeman.
- (1) Halliday, T. R. & Slater, P. J. (Eds.) (1983) *Animal Behavior: Vol. III. Genes, Development and Learning.* New York: W. H. Freeman.
- (1) Hinde, R. A. (1970) *Animal Behaviour. A Synthesis of Ethology and Comparative Psychology, 2nd Ed.* New York: MCGraw-Hill.
- (1) Lehner, P. N. (1979) *Handbook of Ethological Methods.* New York: Garland STPN Press.
- (1) Toates, F. M. (1980) *Animal Behaviour, A Systems Approach.* New York: John Wiley & Sons.
- (1) Trivers, R. (1985) *Social Evolution.* Menlo Park, CA: Benjamin/Cummings Publ.
- (1) Wilson, E. O. (1975) *Sociobiology. The New Synthesis.* Cambridge, MA: Harvard Univ Press.
- (1) Wittenberger, J. F. (1981) *Animal Social Behavior.* Boston: Duxbury Press.

"INTRODUCTORY GRADUATE TEXT(S)  
USED IN THE LAST 5 YEARS"

Responses = 16 Books Listed = 22

- (4) Alcock, J. (1984). *Animal Behavior. An Evolutionary approach, 3rd Ed.* Sunderland, MA: Sinauer Assoc Press.
- (3) Drickamer, L. C. & Vessey, S. R. (1985) *Animal Behavior, Concepts, Processes, and Methods. 2nd Ed.* Boston: Prindle, Weber & Schmidt.
- (2) Brown, J. L. (1975) *The Evolution of Behavior.* New York: W. W. Norton.
- (2) Eibl-Eibesfeldt, I. (1975) *Ethology. The Biology of Behavior, 2nd Ed.* New York: Holt, Rinehart & Winston (Trans. E. Klinghammer).

"OTHER BOOKS YOU WOULD LIKE TO RECOMMEND?"

Responses = 6

Books Listed = 8

- (1) Burt, E. H., Jr. (1979) *The Behavioral Significance of Color*. New York: Garland STPM Press.
- (1) Burt, E. H., Jr. (1986) *An Analysis of Physical, Physiological and Optical Aspects of Avian Coloration with Emphasis on Wood-Warblers*. Washington, D.C.: American Ornithologists Union (Ornithological Monogr., Vol. 38).
- (1) Camhi, J. M. (1984) *Neuroethology. Nerve Cells and the Natural Behavior of Animals*. Sunderland, MA: Sinauer Assoc Press.
- (1) Dethier, V. G. (1962) *To Know A Fly*. San Francisco: Holden-Day, Inc.
- (1) Hodgson, E. S. & Mathewson, R. F. (Eds.) (1978) *Sensory Biology of Sharks, Skates and Rays*. Washington, D.C.: Navy Dept., Office of Naval Research.
- (1) Kummer, H. (1971) *Primate Societies. Group Techniques of Ecological Adaptation*. Arlington Heights, IL: A.H.M. Publ.
- (1) Lorenz, K. Z. (1952) *King Solomon's Ring. New Light on Animal Ways*. New York: Crowell Publ. (Trans. M. K. Wilson).
- (1) Strunk, W., Jr. & White, E. B. (1979) *The Elements of Style, 3rd Ed.* New York: MacMillan Publ.

**MINUTES**

MINUTES OF THE ANIMAL BEHAVIOR SOCIETY ANNUAL BUSINESS MEETING

-- 14 JUNE 1989 --

NORTHERN KENTUCKY UNIVERSITY,  
HIGHLAND HEIGHTS, KENTUCKY  
(Policy matters are marked #)

1. President Fentress called the meeting to order at 1000.
2. MOTION: to approve the minutes of the 1988 business meeting (Newsletter, Vol. 33, 1988). PASSED
3. The President introduced the local hosts, the officers and the officers-elect, the candidates for office, and the committee chairs.
4. Hosts Rambo and Uetz reported that 450 persons had registered for the meeting as of 12 June 1989. 1990 host Wilcox described preparations for the meeting to be held at SUNY Binghamton. 1988 host Jenni reported that the Missoula meeting had a positive cash balance after expenses of \$1,011 and a check for that amount was presented to President Fentress for the ABS treasury.

5. Secretary Chiszar read a summary of the major issues considered during the Executive Committee (EC) meeting, Sunday, 11 June 1989:

The meeting was called to order by President Fentress at 0830. Present were John Fentress (President), Patrick Colgan (First President-Elect), Charles Snowdon (Second President-Elect), Sidney Gauthreaux, Jr. (Past President), H. Jane Brockmann (next Second President-Elect), David Chiszar (Secretary), Robert Matthews (Treasurer), Susan Riechert (Program Officer), Lynne Houck (Program Officer-Elect), Edward Burt, Jr. (Parliamentarian), George Waring (Parliamentarian-Elect and Public Affairs Chair), Lee Drickamer (Editor), Jan Randall (Member-at-Large), George Barthalmus (Member-at-Large), Steven Austad (Member-at-Large-Elect), Janis Driscoll (Animal Care Chair), Jack Demerest (Film Chair), Donald Dewsbury (Historian), Ira Perelle (Membership Chair), Charles Blaich (Policy Chair), Michael Beecher (Ethics Chair), Philip Lehner (Issues in Applied Animal Behavior Chair), Jerry Hirsch (AAAS Representative), Donald Jenni (1988 host), Thomas Rambo and George Uetz (1989 hosts), and Stimson Wilcox (1990 host).

a. MOTION: to accept the minutes of the 1988 EC meeting. PASSED.

b. Host Rambo reported that all local arrangements were in readiness and that the 1989 meeting will at least break even. 450 persons had registered by the time of the EC meeting. Host Rambo suggested that free registrants (invited symposium participants) be reported to future hosts well in advance of the meeting so that break-even points can be calculated accurately. Host Rambo also urged that announcements be made in the Newsletter that poster presenters will be provided with no equipment beyond bulletin boards.

c. 1990 Host Wilcox reported on plans for the SUNY-Binghamton meeting, 11-16 June 1990.

d. First President-Elect Colgan reported that all was in readiness for the Founders' Award competition.

e. Second President-Elect Snowdon reported that all was in readiness for the Allee competition.

f. Treasurer Matthews reported that annual membership has remained more-or-less stable, with about 300 members dropping out each year and 300 new members joining. Since costs are increasing, it is necessary to increase revenue. Specific suggestions were acted upon (see below).

g. Past President Gauthreaux announced that the nominations committee has put forward the names of Zuleyma Halpin and David Crews as nominees for Chairperson of the Animal Behavior Division of ASZ.

h. Program Officer Riechert reported the size of the 1989 program and made suggestions for change in 1990 (see below).

i. Editor Drickamer reported that the acceptance rate of *Animal Behaviour* was 41% and that 2100 pages will be published this year.

j. Parliamentarian Burt reported that the original drawings of the ABS logo will go to Historian Dewsbury. A few items will be brought up under new business (see below).

k. Member-at-Large Randall reported that 43 completed applications were submitted for the ABS Grant competition. There will probably be some expansion of the reviewing committee but this appears to require no changes in bylaws or policy.

l. Membership Chair Perelle reported the publication and distribution of the new Directory.

m. Education Chair Williams reported by letter that the cost of a new brochure on "Graduate Programs in Animal Behavior" will be very high, about \$11,000. Career brochures are sometimes requested in bulk quantities and we need to think about recovering costs (see below).

n. Animal Care Chair Driscoll reported that papers presented at last year's symposium on animal care will be

available in printed form. The committee will probably be expanded to 8 members.

o. Issues in Applied Animal Behavior Chair Lehner reported that EC approved the concept of certification last year. A concrete proposal of certification procedures will be presented later (see below).

p. Awards Committee Chair Gauthreaux reported that bylaw and policy changes will be needed to move forward with the Quest, Exemplar and Distinguished Ethologist Awards (see below).

q. Other committee reports were presented briefly, mainly to indicate items for new business (see below).

**MOTION:** to accept reports of committees and officers. **PASSED.**

r. **MOTION:** to hold no election of Fellows this year. **PASSED.** (NOTE: 6 Fellows were elected last year.)

s. Second President-Elect Snowdon noted a section of policy that has become problematic for Allee competitors [Article 9, a, 1: "Any independent student research (including, but not limited to, the doctoral dissertation) which is unpublished at the time of submission for the competition is eligible."]

**MOTION:** to substitute "most of which is unpublished" for "which is unpublished." **PASSED.#**

t. **MOTION:** President Fentress should send a letter of thanks to 1988 host Jenni, acknowledging the check (\$1,011.00) be conveyed to the Society based on unspent funds from the Missoula meeting. **PASSED.**

u. **MOTION:** to present to the members at the 1989 business meeting a motion of dues increase (Regular Members, \$35; Students, \$20; Emeritus \$20; Spouse, \$15; Newsletter subscriber, \$8; ASZ Affiliate Members, \$32). **PASSED.**

v. Various publishers and advertisers request ABS membership lists, usually in the form of printed mailing labels. A nominal charge has been made to recover the costs associated with printing the labels.

**MOTION:** to charge \$75 per 1000 labels. **PASSED.**

w. Program Officer Reichert pointed out that very few 5-min papers are submitted for presentation at the annual meeting.

**MOTION:** to eliminate 5-min papers from the annual meeting. **PASSED.**

x. **MOTION:** to approve the continuation of the present Editorial Board with the understanding that an additional member with expertise in invertebrate behavior might be added. **PASSED.**

y. **MOTION:** to approve ASAB's proposed contract with Academic Press. **PASSED.**

z. **MOTION:** to specify "U.S." whenever dollar amounts are mentioned in Policy. **PASSED.#**

aa. **MOTION:** to delete section j of Article 7 from Policy ("The EC will use ratification of the Equal Rights Amendment by a State as a criterion in the determination of meeting sites for ABS Annual Meetings.") **PASSED.#**

bb. Several Bylaws changes will be proposed at the business meeting. In each of the next 8 motions the EC is voting on whether or not to bring the issue before the members at the business meeting.

**MOTION:** to specify (U.S.) whenever dollar amounts are mentioned in Bylaws. **PASSED.**

**MOTION:** to add a section to Article II, 9 of

Bylaws.

**Present:** Article II. Duties of the Officers

Section 9. Parliamentarian

a. shall serve as Parliamentarian at all Business and EC meetings.

b. serve as member (*ex officio*) of the Policy Committee.

c. serve as member (*ex officio*) of the Organization and Bylaws Committee.

**Proposed:** Article II. Duties of the Officers

Section 9. Parliamentarian

a. shall serve as Parliamentarian at all Business and EC meetings.

b. shall revise the Constitution, Bylaws, and Policy as directed by appropriate vote of the membership or EC.

c. serve as member (*ex officio*) of the Policy Committee.

d. serve as member (*ex officio*) and Chair of the Organization and Bylaws Committee **PASSED.**

**MOTION:** to add a sentence to the duties of the Past-President (Article II, 4, proposed e):

e. serve as Chairperson of the Career Awards Committee. **PASSED.**

**MOTION:** to change the title of Article IV, Section 14 from "Awards Committee" to "Career Awards Committee." **PASSED.**

**MOTION:** to revise Article IV, Section 14a to read: "shall recommend candidates to the EC for the Quest, Exemplar, and Distinguished Ethologist Awards (Article VI, Section 5)." **PASSED.**

**MOTION:** to revise Article IV, Section 14b to remove the Members-at-Large, replacing them with three senior members of the Society appointed by the President. [Hence, the Career Awards Committee will continue to consist of 7 persons: Past-President, 3 junior members (not more than 5 years past the Ph.D. at the time of appointment) and 3 senior members.] **PASSED.**

**MOTION:** to alter the language of Article IV, Section 14c to bring lines 1, 2, and 3) into conformity with the previous motion substituting senior members of ABS for Members-at-Large. **PASSED.**

**MOTION:** to delete Members-at-Large from Article II, Duties of Officers. **PASSED.**

cc. **MOTION:** to propose a Constitutional Amendment removing "Secretary *ex officio*" from Article 7a. (This action merely recognizes that the Secretary no longer serves on the Membership Committee, so the Constitution is merely being brought into line with the realities of the roles played by the Membership Committee and the Secretary, respectively). **PASSED.**

dd. **MOTION:** to increase money for Research Grants to a minimum of (U.S.) \$4,000. **FAILED.**

**MOTION:** to allocate for Research Grants (U.S.) \$3,000 from the ABS general fund plus additional income from voluntary "check off" contributions solicited on the dues notice. **PASSED.**

ee. Membership Chair Perelle will explore the preparation and distribution of a membership flyer.

ff. **MOTION:** To delete the last sentence from the first paragraph of Article 7d of Policy ("The Nomination Committee will recommend three names as potential Keynote Speakers." The rest of the paragraph describes the actual selection process, and the Nomination Committee has not participated in this process. The proposed change merely brings Policy into line with the contemporary roles of the officers mentioned in 7d) **PASSED.#**

gg. **MOTION:** to direct the Education Committee to publish and distribute a new edition of "Graduate Programs in Animal Behavior," but to keep the cost under (U.S.) \$9,000. **PASSED.**

**MOTION:** to direct the Education Committee to conduct and publish a new survey of jobs in animal behavior, but it can be dissociated from "Graduate Programs in Animal Behavior" at the discretion of the Education Committee. **PASSED.**

**MOTION:** to direct the Education Committee to recover costs associated with bulk orders of the careers brochure or to mail out single copies with permission to duplicate. **PASSED.**

hh. **MOTION:** to add to policy (10. Film Awards) a section "c" stating "the awards convey the privilege of using the award in promotional advertising for the winning film. **PASSED.#**

ii. **MOTION:** to put the report of the Issues in Applied Animal Behavior Committee before the EC (the report described procedures for the certification of applied animal behaviorists, see 1988 Minutes, 5t). A friendly amendment requested that the two levels of certification be called "Associate Applied Animal Behaviorist" and "Certified Applied Animal Behaviorist," respectively. The amendment was accepted. **PASSED.**

Lengthy discussion followed on June 11 and continued on June 14 and 15. Numerous changes were suggested for the certification proposal, and it was agreed that we would publish the final version in the Newsletter (August 1989 if possible) and ask for a vote of the membership. Accordingly, I will not write out all of the wording changes here. See the last **Announcement** in this Newsletter for the full text of the final version of the proposal.

jj. President Fentress reported on progress in obtaining a meeting site for 1991. Many sites have been explored and a definitive statement will probably be made in the November Newsletter.

kk. **MOTION:** to nominate C. Snowdon, S. Reichert, A. Myrberg and D. Estep as candidates for membership on U.S.E.C.C. **PASSED.**

ll. **MOTION:** to award a (U.S.) \$250 prize to winner of the Founders' Award. **FAILED.**

**MOTION:** to budget (U.S.) \$100 to Founders' judge (First President-Elect). **PASSED.**

mm. **MOTION:** to approve the Treasurer's proposed budget. **PASSED.**

nn. **MOTION:** to form an ad hoc committee to explore the possibility of creating an endowed fund for the Society. The committee might consist of three past presidents and two past treasurers. **PASSED.**

oo. **MOTION:** to delete from Policy (17c) the reference to 1982; the section will read "Revisions and mailings of the Graduate Programs in Animal Behavior publication should be done every five years." **PASSED.#**

6. Treasurer Matthews presented his report at the Business Meeting.

**MOTION:** to increase dues as stipulated in 5u. Amended to (U.S.) \$36 for Regular Members and (U.S.) \$18 for Students (dues for other categories of members remaining as stipulated in 5u).

**PASSED.**

7. Parliamentarian Burt presented the proposed Bylaws changes (see 5 bb).

**MOTION:** to specify (U.S.) whenever dollar amounts are mentioned in Bylaws. **PASSED.**

**MOTION:** to add a section to Article II, 9 of Bylaws clarifying the duties of the Parliamentarian (see 5 bb, second motion for exact wording). **PASSED.**

**MOTION:** to delete Members-at-Large from Article II, Duties of Officers. **PASSED.**

**MOTION:** to stipulate in Article II, 4 e that the Past President is Chair of the Career Awards Committee and to remove the Members-at-Large from the committee, replacing them with three senior members of the Society, appointed by the President (see 5 bb, motions 3-7). **PASSED.**

8. Editor Drickamer thanked all those who served as reviewers for *Animal Behaviour*, and he asked persons interested in serving to contact him.

9. Next Second President-Elect Brockmann discussed I.E.C. and U.S.E.C.C., advising the membership of the election of new members to U.S.E.C.C. (see ballot).

10. First President-Elect Colgan urged ABS members to encourage persons of underrepresented groups who are interested in animal behavior to join the Society.

11. Zuleyma Halpin asked about the "Elephant Emergency" [see Newsletter 1988, Vol. 33 (3); 1988 Minutes, item 9 and Newsletter, 1988, Vol. 33 (4)] and about inspection of field sites by ACCs [see special mailing that supplemented Newsletter 1989, Vol. 34 (1)]. President Fentress responded that EC is still considering the elephant problem and that we do not yet know how the field site inspection matter has worked out. Announcements will appear in the Newsletter as we learn more.

12. George Barlow encouraged ABS members to send articles to *Rev. Comportement Animal* as well as to other international journals.

13. President Fentress thanked the officers, committee chairs and members for their work during the past year.

1120 meeting adjourned.

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**

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