



# ANIMAL BEHAVIOR SOCIETY NEWSLETTER

A quarterly publication

Janis W. Driscoll, ABS Secretary

August, 1990  
Vol. 35, No. 3

## ALLEE STUDENT COMPETITION AWARD

The winner of the 1990 Allee competition for the best student paper presentation at the annual meeting was **Geoffrey Hill**, Univ. of Michigan, for a paper entitled "Adaptive female mate choice in the house finch". Runner-up was **Susan Lingle**, Univ. of Calgary, for a paper entitled "Effects of hybridization on the escape behaviour of deer".

## FOUNDER'S MEMORIAL AWARD

The 1990 Founders' Memorial Award for the best poster paper at the annual meeting was won by **Peter Narins**, UCLA, for the presentation entitled "Does a tree frog protect himself from his own call?". An Honorable Mention was awarded to **Scott R. Smedley and Thomas Eisner**, Cornell Univ. for their presentation "Fluid pumping and sodium sequestration by a puddling moth".

**ABS FILM FESTIVAL** The winner of the 1990 ABS award for commercial films was "**The Bee Team**" produced by Alistair Fothergill with photography by Simon King. An Honorable Mention was awarded to the film "**Creatures of the Mangrove**" produced by Phil Agland. The Jack Ward competition for noncommercial films was won by "**Wildlife in the Midlands**" produced by Robert Horton.

## NEW FELLOWS ELECTED

Congratulations to the following persons who were elected Fellows of the Animal

Behavior Society at the 1990 annual meeting.

**John Alcock, Terry E. Christenson, Sarah Blaffer Hrdy**

## DISTINGUISHED ETHOLOGIST

The first ABS Distinguished Ethologist Award has been offered to **John Paul Scott**.

\*\*\*\*\*

## VOTE FOR ABS OFFICERS ON PP 3-4

\*\*\*\*\*

## ANIMAL BEHAVIOR SOCIETY DIRECTION OF CORRESPONDENCE

**ABS NEWSLETTER** and general correspondence concerning the Society: Janis Driscoll, Dept. of Psych., Campus Box 173, Univ. of Colorado at Denver, P.O. Box 173364, Denver, CO 80217-3364. Deadlines are the 15th of the month preceding each newsletter.

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

**CHANGE OF ADDRESS, MISSING OR DEFECTIVE ISSUES OF ANIMAL BEHAVIOUR**: Robert W. Matthews, Dept. of Entomology, Univ. of Georgia, Athens, GA 30602.

\*\*\*\*\*

## ABS OFFICERS

**President**: Charles T. Snowdon, Dept. of Psych., Univ. Wisconsin, Madison, WI 53706, USA

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

**ABS Officers** continued)

**2nd President-elect:** Gail Michener, Dept. of Biol. Sci., Univ. Lethbridge, Alberta, T1K 3M4, Canada

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

**Secretary:** Janis W. Driscoll, Dept. of Psych., Univ. Colorado at Denver, Denver, CO 80217-3364, USA

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

**Program Officer:** Lynne Houck, Dept. of Biol., Univ. Chicago, Chicago, IL 60637, USA

**Parliamentarian:** George Waring, Dept. of Zool., Southern Illinois Univ., Carbondale, IL 62901, USA

**Editor:** Lee Drickamer, Dept. of Zool., Southern Illinois Univ., Carbondale, IL 62901, USA

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

Steven Austad, Dept. of Biol., Harvard Univ., Cambridge, MA 02138, USA

Martin Daly, Dept. of Psych., McMaster Univ., Hamilton, Ontario, L8S 4K1, Canada

**Historian:** Donald Dewsbury, Dept. of Psych., Univ. Florida, Gainesville, FL 32611, USA

**COMMITTEE CHAIRS**

**Animal Care:** Joy Mench, Dept. Poultry Sci., Univ. of Maryland, College Park, MD 20742, USA

**Career Awards:** Patrick Colgan

**Education:** Larry Williams, Primate Res.

Lab., Coll. of Med., Univ. of South Alabama, Mobile, AL 36688, USA

**Ethics:** Edward H. Burt, Dept. Zool., Ohio Wesleyan Univ., Delaware, OH 43015, USA

**Film:** Jack Demarest, Monmouth College, West Long Branch, NJ 07764, USA

**Issues in Applied Animal Behavior:** Benjamin H. Hart, Dept. Physiol., School of Vet. Med., Univ. of California, Davis, CA 95616, USA

**Membership:** Ira Perelle, Rt. 1, East Branch Road, Patterson, NY 12563, USA

**Nominations:** Patrick Colgan

**Organization and Bylaws:** George Waring

**Policy and Planning:** Charles Blaich, Dept. Psych., Eastern Illinois Univ., Charleston, IL 61920, USA

**Public Affairs:** George Barlow, Dept. Integrative Biol., Univ. of California, Berkeley, CA 94720, USA

**Research Grants:** George Barthalamus

**ABS MEETINGS**

THE 1991 ANIMAL BEHAVIOR SOCIETY ANNUAL MEETING will be held at the Univ. of North Carolina at Wilmington in early June. Local host: John Williams, Dept. of Psych., Univ. North Carolina, Wilmington, NC 28403-3297. Phone: 919-395-3371.

THE 1992 ANIMAL BEHAVIOR SOCIETY ANNUAL MEETING will be held at Queen's University, Kingston, Ontario, Canada. Local host: Patrick Colgan.

**THANKS TO RALSTON-PURINA**

The Animal Behavior Society thanks the Ralston-Purina company for their financial support of the Human-Animal Bond invited paper session which was presented at the 1990 annual meeting.

## CANDIDATES FOR OFFICES

### 2nd PRESIDENT-ELECT

#### **H. Carl Gerhardt**

Birthdate: May 23, 1945

Education: BS, 1966 Univ. of Georgia

MA, 1968, Univ. of Texas

PhD, 1970, Univ. of Texas

Present position: Professor, Division of Biol. Sci., Univ. of Missouri

Research interests: Animal communication; role of acoustic signalling in mate choice and speciation; neuroethology of sound pattern recognition and sound localization.

ABS and related activities: Editorial Boards: Anim. Behav., Bioacoustics; Secretary, Int. Soc. for Neuroethology; NSF Advisory Panel, 1989-present.

#### **Zuleyma T. Halpin**

Birthdate: March 9, 1945

Education: BA, 1967, St. Louis Univ.

MA, 1970, Univ. of Cal., Berkeley

PhD, 1976, Univ. of Cal, Berkeley

Present position: Assoc. Professor, Dept. of Biol., Univ. of Missouri-St. Louis

Research interests: Role of chemical communication in vertebrate social behavior; kin recognition; ontogeny of social behavior, behavioral ecology of dispersal.

ABS and related activities: ABS Animal Care Committee (Chair) 1979-85; Organizer and host for Midwest Regional Animal Behavior Meeting, 1983; ABS-ASZ Ad hoc Liaison committee; ABS Allee award judge; Chair of the Div. of Anim. Beh., ASZ; Program officer of DAB-ASZ; DAB-ASZ Symposium organizer; ASZ Equal Opportunities Committee member; DAB-ASZ Best Student Paper award judge.

## EDITOR

#### **David B. Miller**

Birthdate: Sept. 21, 1948

Education: BA, 1970, Univ. of Florida

MS, 1972, Univ. of Miami

PhD, 1973, Univ. of Miami

Present position: Professor, Dept. of Psych., Univ. of Connecticut

Research interests: Auditory communication in birds; development of species-typical behavior; effects of domestication.

ABS and related activities: Allee Award judge, 1983; Policy and Planning Committee, 1982-88 (Chair, 1985-88); Editorial Boards: Anim. Behav.; J. Comp. Psych.

#### **Meredith J. West**

Birthdate: Oct. 31, 1946

Education: BS, 1968, Tufts Univ.

PhD, 1975, Cornell Univ.

Present position: Professor, Indiana Univ.

Research interests: Ecological variation in species-typical behavior; communication; ontogeny of play and exploratory behavior; parent-offspring and mating systems.

ABS and related activities: Public Affairs Committee, 1989-present; Ethics Committee, 1987-89

## TREASURER

#### **Jennifer A. Mather**

Birthdate: Oct. 13, 1943

Education: BS, 1964, Univ. of Brit. Col.

MS, 1972, Florida State Univ.

PhD, 1978, Brandeis Univ.

Present position: Assoc. Professor, Dept. of Psych., Univ. of Lethbridge

Research interests: Sociobiology of cephalopods; spatial memory and navigation in cephalopods and humans; movement and movement control (esp. eye movements).

ABS and related activities: Animal Care Committee, 1984-89; NSERC Univ. Research Fellow, 1980-90.

**Robert W. Matthews**

Birthdate: February 17, 1942.  
Education: BS, 1963, Michigan St. Univ.  
MS, 1965, Michigan State Univ.  
PhD, 1969, Harvard Univ.  
Present position: Sandy Beaver Professor  
of Entomology, Dept. of Entomology, Univ.  
of Georgia  
Research interests: Insect behavior;  
evolution of social insects; reproductive  
competition in wasps.  
ABS and related activities: ABS Treasurer,  
1988-present; Education Committee  
1982-present (Chair, 1982-85)

**MEMBER-AT-LARGE**

**Dorothy Fragaszy**

Birthdate: July 18, 1950  
Education: BS, 1972, Duke Univ.  
PhD, 1978, Univ. of California, Davis  
Present position: Assoc. Professor,  
Dept. of Psych., Univ. of Georgia  
Research interests: Primate behavior  
ABS and related activities: Pub Affairs  
Committee, 1987-88; Film Committee,  
1989-92.

*copy to file 9/7/95*

**Bennett G. Galef**

Birthdate: May 23, 1941  
Education: BA, 1962, Princeton Univ.  
MA, 1964, Univ. of Pennsylvania  
PhD, 1968, Univ. of Pennsylvania  
Present Position: Professor, Dept. of  
Psych, Assoc. Member, Dept. of Biol.,  
McMaster Univ.  
Research interests: Social learning, feeding  
and foraging, development.  
ABS and related activities: Editorial  
Boards: Anim. Behav., Devel. Psychobiol.,  
Lrng. & Motiv., Appetite, J. Comp Psych.,  
Canad, J. Psych., ABS ad hoc Ethics  
Committee 1985-88.

**INSTRUCTIONS: FILL OUT THE  
BALLOT BELOW, DETACH IT, AND  
MAIL IT IN AN ENVELOPE BEARING  
YOUR NAME TO JANIS DRISCOLL,  
ABS SECRETARY, CAMPUS BOX 173,  
UNIV. OF COLO. AT DENVER, P.O.  
BOX 173364, DENVER, CO  
80217-3364. (According to ABS  
Policy, the envelope must bear your name.)**

Ballots postmarked after Oct. 10, 1990  
cannot be counted.

\*\*\*\*\*

**BALLOT**

All ABS members (regular, student and active fellows) are eligible to vote. Rank the candidates by putting a 1 in the blank next to your first choice, a 2 in the blank next to your second choice, etc. You may cast write-in votes. Information about the candidates can be found above and on the preceding page.

**2nd PRESIDENT ELECT**

H. Carl Gerhardt \_\_\_\_\_  
Zuleyma T. Halpin \_\_\_\_\_  
Write-in \_\_\_\_\_

**TREASURER**

Jennifer A. Mather \_\_\_\_\_  
Robert W. Matthews \_\_\_\_\_  
Write-in \_\_\_\_\_

**EDITOR**

David B. Miller \_\_\_\_\_  
Meredith J. West \_\_\_\_\_  
Write-in \_\_\_\_\_

**MEMBER-AT-LARGE**

Dorothy Fragaszy \_\_\_\_\_  
Bennett G. Galef \_\_\_\_\_  
Write-in \_\_\_\_\_

## ANNOUNCEMENTS

### 1990 ABS RESEARCH AWARDS

The Research Grants committee reviewed 40 proposals, awarding a total of \$3029 to the following individuals:

**Edmund D. Brodie III**, Univ. of Chicago, "An experimental field investigation of relative mimetic advantages among coral banded snakes in Costa Rica".

**James F. Hare**, Univ. of Alberta, "Proximate mechanisms of kin recognition in the Columbian ground squirrel".

**Scott Johnson**, Univ. of Calgary, "Testing alternative models of polygyny using house wrens".

**Susan Barbara Meek**, Queen's Univ., "Parental investment and the maintenance of monogamy in Eastern Bluebirds".

**Eric T. Schultz**, Univ. of Cal., Santa Barbara, "The adaptive significance of brood sex ratio variation in the dwarf surfperch".

**William E. Wagner**, Univ. of Texas, "The function of frequency alteration in Blanchard's Cricket Frog: bluffing or honest signalling".

George Barthalamus will chair the 1991 Research Grants committee. Forms will be available in September. Please note that the Executive Committee has restricted eligibility for these grants to graduate students and persons who have held the PhD. for 12 months or less at the time of application (see Minutes).

### ALLEE AWARD 1991 COMPETITION

The W.C. Allee Award will be presented for the outstanding student paper at the 1991 annual meeting. Any independent student research that is largely unpublished at the time of submission is eligible for this cash and book award, as long as the student has not competed before and has not had the

final defense of the doctoral dissertation prior to the preceding ABS annual meeting (viz. 8 June, 1990).

Each paper must have a single author. To compete, candidates must submit a manuscript at the same time as the Transmittal and Abstract forms. The manuscript must not exceed 7 pages of double-spaced typewritten text; it may include no more than 4 tables and figures and should be completed in the Animal Behaviour format. A one page update can be submitted by 15 May 1991. This is an advance notice; further details will be available in the November Newsletter.

### NSF COMPETITION

NSF has announced a special competition for research projects aimed at elucidating principals underlying the conservation and restoration of biological diversity. Deadline for proposals is Sept. 9, 1990. Contact Fred Stollnitz, 202-357-7949 (BITNET: STOLLNI@NSF) for information

### BOARD OF PROFESSIONAL CERTIFICATION

The following individuals have been appointed to the Board of Professional Certification which will carry out certification of applied animal behaviorists:

**H. Jane Brockmann** (exofficio, 1 yr. term)

**John C. Wright** (Chair, 4 yr. term)

**Philip N. Lehner** (3 yr. term)

**Peter L. Borchelt** (3 yr. term)

**Katherine A. Houpt** (2 yr. term)

**Daniel Q. Estep** (1 yr. term)

### PROFESSIONAL CERTIFICATION

Application forms for ABS certification of applied animal behaviorists are available. The certificate program is set up to recognize the professional training of applied animal behaviorists by establishing

specific standards and criteria for certification. Those studying companion animal behavior, farm animal behavior, behavior of animals in zoos, and others who apply animal behavior principles to solutions of animal behavior problems may wish to inquire. For an application form and pamphlet describing the objectives, requirements, and two levels of professional certification, write to John C. Wright, Chair, Board of Professional Certification, Dept. of Psych., Mercer Univ., Macon, GA 31207.

### **NEW MEMBERSHIP DIRECTORY**

The Membership Committee will publish a new Directory next year. If your information in the current directory is incorrect,, notify Ira Perelle, Chair of the Membership Committee or Bob Matthews, Treasurer (addresses given earlier).

If you would like to have an addition copy of the current Membership Directory, send a stamped envelope, at least 7 x 9 inches , to Ira Perelle.

### **INTERNATIONAL ETHOLOGICAL CONFERENCE JAPAN, 22-29 AUGUST, 1991**

The U.S. Ethological Conference Committee has applied for a grant for partial support of travel for young scientists to attend the 22nd IEC meeting in Kyoto, Japan.. Because of reviewing schedules, we will not know whether money will be available until Fall, 1990. The USECC will use funds if awarded to support young US scientists( persons who received their PhD. degree between 1986 and 1990 or who will complete their PhD. during 1991).

To apply for an award, please submit the following items to Dr. Patricia Adair Gowaty, USECC Representative, Dept. of Biol. Sci., Clemson University, Clemson, SC 29634-1903. (1) Seven (7) copies of a 1-2

page curriculum vitae; (2) Seven (7) copies of the abstract you will be submitting for consideration to the IEC program; and (3) One or two letters of recommendation. For those who have not completed the PhD., the major professor should include an assurance that the degree will be completed during 1991. Deadline for applications is January 15, 1991. We hope to notify all applicants by April 1, 1991.

We also want to notify all potential attendees of the Japan IEC that the National Science Foundation Japan Program has grant opportunities designed to build relations between US and Japanese research communities. These appear to be well-funded and include funds for long-term research stays in Japan; funds to study Japanese language; funds for survey teams to report on the state of the art in specific disciplines; and more. Information about the NSF's Japan Program can be obtained by contacting the Program Staff as follows: Japan Program, Room 1214, Div. of International Programs, National Science, Foundation, Washington, DC 20550.

\* \* \* \* \*

### **ABS CODE OF ETHICS**

Comment is invited on the following Code of Ethics which is under consideration. Please send your comments to the Chair of the Ethics committee, Edward H. Burt (address given earlier).

#### **Code of Ethics**

All members of ABS:

1. Will conduct their professional affairs in an ethical manner as prescribed in this Code, will endeavor to protect the discipline of animal behavior from misunderstanding and misrepresentation, and will cooperate with one another to assure the rapid and accurate interchange and dissemination of knowledge about animal behavior.
2. Will use their knowledge, skills, and training to assist in achieving the harmonious interaction of the human

species with other organisms.

3. Will not represent themselves as spokespersons for the Society or imply Society endorsement except with prior approval of the Executive Committee.

4. Will avoid and discourage the dissemination of false, biased, exaggerated, or otherwise unwarranted statements and data concerning animal behavior.

5. Will offer professional advice only on those subjects in which they are qualified by virtue of professional training and experience.

6. Will not request or accept inappropriate favor from students, employees, or colleagues.

7. Shall inform a prospective or current employer, colleague, student, or client of any professional or personal conflicts of interest that may impair their objectivity.

8. Shall neither seek employment, grants, or gain, nor attempt to injure the reputation or opportunities for education or employment of students or colleagues by false, biased, or undocumented claims or accusations, or by any other malicious action.

9. Will not harass or discriminate against students, employees, or colleagues on the basis of gender, creed, religion, race, color, sexual orientation, economic status, national origin, organizational affiliation, lifestyle, or other such characteristics.

10. Shall carry out their work in accord with the Society's Policy, including the Animal Care Guidelines, and the Guidelines for Certified Applied Animal Behaviorists.

11. Shall be obligated, when they have substantial evidence of a breach of this Code by another member, to bring such conduct to the attention of the Chair of the Ethics Committee or any member of the Executive Committee.

## **PRESIDENT'S MESSAGE**

**by Chuck Snowdon**

As many of you are aware, the funding of animal behavior research in the United States is at its lowest level in years. Funding levels are also being reduced in Canada. NSF, NIH and NIMH are funding only the top 10-15% of approved grants, a rate that is less than half that of previous years.

The funding crisis is due to several problems: the budget deficit and imposition of Gramm-Rudman cuts, the significant transfer of funds to "big science" projects (\$1.5 billion for the Hubble Space telescope that doesn't focus, \$8 billion for a super collider in Texas, \$3 billion for the human genome project) and the shift of priorities from behavioral research to other biological areas.

The ABS Executive Committee intends to devote considerable time and energy to improving the image of animal behavior research and promoting its significance to policy makers, funding agencies and the general public. We need to enlist your help to be successful. This fall, every US congressional seat and 1/3 of the Senators are up for election. Each of us can try to educate the candidates running for office in our own districts about the significance of "little science" in general and of animal behavior in particular. We should meet candidates at public forums or write directly to candidates asking them to consider the significance of our field. Below are several suggestions concerning the significance of our work that were generated at the recent ABS meetings. These should help you make your points with candidates. If you have any additional ideas, please let me know.

In future Newsletters, I will focus on how we can communicate to the public at

large about the significance of our work, but our most important audience in the next few months are the candidates for Congress. If we want to have an active Animal Behavior Society and Animal Behavior Science in the future, we need to take steps today to preserve the diversity we represent. Thanks very much for your help.

### **SIGNIFICANCE OF ANIMAL BEHAVIOR RESEARCH** (from the ABS meeting, June, 1990 as compiled by Chuck Snowdon)

Animal behavior is the bridge between molecular and physiological aspects of biology and the ecological. Without us, the molecular and ecological aspects of biology would drift further apart. Behavior is the link between organisms and environment (or between the nervous system and the ecosystem). Behavior is THE most important property of animal life. It plays an absolutely critical role in biological adaptations. Behavior is how humans define their own lives. Behavior is that part of an animal by which it interacts with its environment. Behavior is as much a part of an animal as its coat, wings, etc.. The beauty of an animal includes its behavioral attributes.

For the same reasons that we study the universe and subatomic particles, there is intrinsic interest in the study of animals. In view of the amount of time that television devotes to animal films and the amount of money that people spend on nature books, there is a lot more public interest in animal behavior than in neutrons or gluons. If human curiosity drives research, then animal behavior should be near the top of our priorities.

(Following is a list of ideas on the

importance of the study of animal behavior.)

#### A. Animal Behavior and the Environment, Conservation and Resource Management

1. Emphasize that behavior of animals may give our first clues or early warning signs of environmental degradation. If we wait to see if numbers of animal populations are declining, it may be too late to take measures to save the environment. Studies of natural behaviors in the field are vital to provide baseline data.

2. Salmon and fisheries research: The keys to rational management of salmon fishing in national and international waters are behavioral ones. Where do the fish go; how do species and populations mix; how deep do they swim, etc.? Behavior is the key to successful fishing and fish conservation. This is true for non-salmon as well. A wide variety of issues in behavioral ecology (e.g, marine mammal predation on fish) will drive fisheries management, restoration and conservation. Attempts to resettle rivers with salmon are linked to questions of imprinting and homing.

3. Conservation of endangered species requires that we know enough about natural behavior (migratory patterns, home range size, interactions with other groups, foraging demands, reproductive behavior, communication, etc.) in order to develop effective reserves and effective protection measures. Relocation or reintroduction of animals (such as the golden lion tamarin) is not possible without detailed knowledge of a species' natural history. With the increasing importance of environmental programs, human intervention (management of populations of rare species both in captivity and in the natural habitat) becomes increasingly important. Many of the world's leading conservationists have a background in animal behavior or behavioral ecology.

4. An understanding of foraging behavior in animals can lead to understanding of forest reconstitution. Animals serve as seed dispersers and are often essential for regrowth of tree species.

5. In applied entomology, animal behavior describes variables involved in insect reproduction and host plant location, allowing us to develop non-toxic pheromones for insect pest management which avoid toxic pesticides. Knowledge of honeybee foraging behavior can be applied to understanding mechanisms of pollination. Understanding of swarming behavior leads to understanding of how new hives are formed.

#### B. Animal Behavior and Neurobiology

1. Physiological and neuroethological experiments can provide important frameworks for hypothesizing neural mechanisms, especially concerning perceptual and sensory mechanisms. The behavioral data allow neurophysiologists to narrow the scope of their physiological studies and pick species that can serve as model systems for less common, endangered species.

2. Behavioral research tells neuroscientists what they need to explain, and gives them the behavioral techniques necessary to develop sophisticated animal models.

3. "When the biochemists discover evolution, real progress will be made" (Tom Eisner). Numerous biogenic compounds are synthesized by a wide diversity of animals as means for modulating their own activity and that of other animals or plants. Many compounds are of immense biomedical value, so for human benefit reasons, it is important to preserve and explore animal diversity.

#### C. Animal Behavior and Human Society

1. Problems in human society are often related to the interaction of environment and behavior (e.g., socioeconomic conditions and family structure may affect

male violence). The field of socioecology and animal behavior deal with the issue of environment-behavioral interactions, both at evolutionary and proximate levels. For example, applied ethology conceives of psychological well-being as a product of living conditions. Increasingly, social scientists are turning to animal behavior as a framework in which to interpret human society and understand possible causes of societal problems.

2. Stress the importance of research on cooperation versus competition in understanding and alleviating human problems.

3. The methodology applied to study animal behavior has had tremendous impact in psychology and the social sciences. For example, Piaget's mind was shaped by the study of snails. Experimental design, observation techniques, attention to nonverbal communication, for example, were often developed in animal behavior studies before application to humans. The link is often indirect, but one wonders where behavioral study of humans would be today without the influence of animal research.

4. The comparative study of behavior over a wide range of species can provide insights into influences affecting human behavior. (For example, if we want to have human fathers be more involved in infant care, it is helpful to know the conditions in which paternal care appears in other species.) Understanding the mechanisms and properties of communication is critical for coherent social functioning. The richness of developmental processes in behavior, including multiple sources and the consequences of experience are significant in understanding human development.

#### D. Animal Behavior and Animal Welfare

1. Animal welfare without knowledge is impossible. Ours is the only Society to look

at the behavior and well-being of animals in lab and field. The Animal Behavior Society is one of the few professional societies to make significant efforts on behalf of animal welfare as opposed to reaction, retrenchment, and posturing.

2. Further developments in animal welfare will require input from animal behavior specialists. Improved conditions for farm animals, breeding of endangered species, proper care of companion animals, all require behavioral data.

(If this article has stimulated other ideas, please send them to C. Snowdon, address given earlier.)

\* \* \* \* \*

### **OPPORTUNITIES**

Editor's Note: Opportunities and announcements are published in the next Newsletter after they are received. There can sometimes be a delay of several months before publication. The Editor apologizes for any inconvenience caused by such delays, and recommends that persons interested in announced opportunities check to see if they are still available before making application.

THE LOUISIANA COOPERATIVE FISH AND WILDLIFE RESEARCH UNIT is looking for three field research assistants, needed from October 15 through February 28 for studies of winter ecology of Northern Pintails and Canvasbacks in Louisiana. Salary is \$600 per month plus free room and board. Send resume and names and phone numbers of two references to: Alan D. Afton, Louisiana Cooperative Fish and Wildlife Research Unit, Louisiana State Univ., Baton Rouge, LA 70803 (504-388-4212).

CANADIAN RESEARCH OPPORTUNITY WITH RICHARDSON'S GROUND SQUIRRELS for

researchers seeking study site with animals of known histories. Research site located 40km from the University of Lethbridge, Alberta, Canada. Ground squirrels have been ear-tagged since 1986; maternal kinships known for 5 generations. Researchers planning non-invasive behavioral or ecological studies compatible with ongoing research will be considered. Limited research funds available; no salary support available. The University of Lethbridge is an undergraduate institution. Graduate students with affiliations at other institutions or postdoctoral fellows welcome. For further information contact Gail R. Michener, Dept. of Biol. Sciences, University of Lethbridge, Alberta, Canada T1K 3M4 (403-329-2568 or 403-732-4630).

CHAIR, DEPT. OF ENTOMOLOGY & APPLIED ECOLOGY. Applications are invited for Professor and Chair, Dept. of Entomology and Applied Ecology, University of Delaware. For information, contact Dr. John Dohns, Search Committee Chair, Entomology and Applied Ecology, University of Delaware, Newark, DE 19717-1303.

THE NATIONAL ZOOLOGICAL PARK is offering RESEARCH FELLOWSHIPS for scientists to complete a major piece of work in their speciality, and to gain experience in research opportunities specific to zoological parks. Each award is for a maximum of 3 years; stipends to be commensurate with professional level and experience. For application, procedures and information, contact Devra G. Kleiman, Asst. Director for Research, National Zoological Park, Washington, DC 20008. Application deadline is 15 Oct. 1990.

RESEARCH ASSISTANTSHIP: Reproductive ecology of snakes. A half-time assistantship is available at the Univ. of Texas at Tyler, studying the reproductive

ecology of snakes under Dr. Neil Ford. The assistantship is for \$5100 for 9 months, starting in Fall, 1990. For information contact Dr. Ford, Dept. of Biol., Univ. of Texas at Tyler, Tyler, TX 75701.

DEPT. OF PSYCH., CORNELL UNIVERSITY is offering a post-doctoral position in the area of social recognition processes, especially individual and kin recognition by chemical cues. For information, contact Dr. Robert Johnson, Dept. of Psych., Cornell Univ., Ithaca, NY 14853-7601.

\*\*\*\*\*

### TREASURER'S NOTE

by Bob Matthews

As reported at the annual business meeting, member contributions this year specifically earmarked for the Research Awards totaled more than \$3300. This generosity means that the Research Award will be more than doubled over that of last year, from \$3000 in 1989-90 to \$6300 approved by the Executive Committee for fiscal 1990-91.

Dues for 1991 will continue at the current rate. The Executive Committee has approved sending the 1991 dues notices earlier, beginning in July this year. Watch for them; many of you may have received them by the time you read this. I would like to remind everyone that the ABS Policy states that annual dues must be paid by December 1; dues received after that date are assessed a \$5 late fee. Those who are able to prepay for up to three years are encouraged to do so; this saves the Society \$\$\$ in mailings and labor and guarantees against possible dues increases. Also, I hope that all who can will check the contribution box on the 1991 dues notice so that the Society can maintain and hopefully increase the level of research support in future years. Remember, every little bit helps! Of course, voluntary contributions to the ABS may be made at any time and the ABS can be made the beneficiary of an

estate or named in a will.

\*\*\*\*\*

## MINUTES OF THE ABS ANNUAL BUSINESS MEETING 13 JUNE 1990 STATE UNIVERSITY OF NEW YORK AT BINGHAMTON

Note: Policy matters are marked \*.

1. President Colgan called the meeting to order at 1110.
2. MOTION: to approve the minutes of the 1989 business meeting (Newsletter, Vol. 34, No. 3, 1989). PASSED.
3. The President introduced the local hosts, the host for the 1991 meeting, the officers and the officers-elect, the candidates for office, and the committee chairs.
4. Hosts Wilcox, Clark and Smotherman reported that 460 persons had registered for the meeting as of 10 June 1990 and that approximately 330 papers (oral plus posters) were scheduled to be presented. 1991 Host Williams described preparations for the meeting to be held at the University of North Carolina at Wilmington. 1992 Host Colgan described preparations for the meeting to be held at Queen's University, Kingston, Ontario. 1989 Hosts Rambo and Uetz reported that the Highland Heights (Kentucky) meeting had a positive cash balance after expenses of US\$2445, and a check for that amount has been presented to ABS Treasurer Matthews.
5. A straw vote was requested by President Colgan (see rr below) on the question of starting the 1991 program on a Sunday (the Exec. Committee would meet on Saturday). Strong support was expressed. This information will be taken into consideration during the planning of the 1991 and subsequent meetings.
6. First President-elect Snowdon asked for ideas about how to promote the value and popularity of animal behavior knowledge

and research. ABS members are invited to correspond with him on these matters.

7. Secretary Chiszar read a summary of the major issues considered during the Executive Committee (EC) meeting, Sunday, 10 June 1990 as follows: The meeting was called to order by President Colgan at 0830. Present were Patrick Colgan (President), Charles Snowdon (First President-elect), H. Jane Brockmann (Second President-elect), John Fentress (Past President), Gail Michener (next Second President-elect), David Chiszar (Secretary), Janis Driscoll (Secretary-elect and Animal Care Chair), Robert Matthews (Treasurer), Lynne Houck (Program Officer), George Waring (Parliamentarian), Lee Drickamer (Editor), Patricia Gowaty (Assoc. Editor), Julia Chase (Member-at-large), George Barthalamus (Member-at-large), Steven Austad (Member-at-large), Jack Demarest (Film Chair), Ira Perelle (Membership Chair), David Duvall (Acting Policy Chair), Philip Lehner (Issues in Applied Animal Behavior Chair), John Wright (member, Issues in Applied Animal Behavior Committee), Larry Williams (Education), Irene Pepperberg (Acting Public Affairs Chair), and Stimson Wilcox (1990 Host).

a. MOTION: to accept the minutes of the 1989 EC meeting (Newsletter, Vol. 34, No. 3, 1989). PASSED.

b. Host Wilcox introduced co-hosts Anne Clark and William Smotherman. He then reported that 460 persons had registered by the time of the EC meeting. Host Wilcox made a series of suggestions for future meetings: a Sunday start might work out better than a Monday start with respect to air travel arrangements (the EC would then meet on Saturday), the ABS might consider obtaining liability insurance to cover personal injuries at the annual meeting (a local firm quoted an approximate price of US\$2500 for a one-week policy), the EC should give some thought to allowing persons to register for single days of the annual meeting at a reduced cost relative to the registration fee for the full week, perhaps someone (eg Program Officer) should oversee meeting dates to prevent the

ABS annual meeting from overlapping other society meetings, the Friday evening picnic is tricky to schedule because so many meeting participants are gone by then, and the Program Officer should automatically send the guide for local hosts to future hosts as soon as these persons are named.

c. President Colgan reported that the Endowment Committee has not yet been appointed and that further discussion of the matter would occur under new business. Nomination of new ABS Fellows will be entertained later in the meeting. Finally, the annual meeting sites for 1991 (University of North Carolina at Wilmington) and 1992 (Queen's University, Kingston, Ontario) were announced.

d. First President-elect Snowdon reported that all was in readiness for the Founder's Award competition. The new Guide to "Graduate Programs in Animal Behavior" has been proofread and will soon be ready for distribution.

e. Second President-elect Brockmann reported that all was in readiness for the Allee competition. Two papers were cancelled, leaving 13 in the competition.

f. Past President Fentress reported on the work of the Nominations Committee (see Newsletter, Vol. 35, No. 2), the Education Committee, the Policy and Planning Committee, and the Awards Committee (see new business).

g. Treasurer Matthews reported that 1989 hosts Rambo and Uetz forwarded a check for US\$2445, that the current ABS financial situation is strong, and that no dues increase will be proposed this year.

h. Program Officer Houck reported on the size of the 1990 program (approximately 330 papers, including oral and poster presentations). She encouraged symposium organizers to send proposals to the EC as early as possible.

i. Editor Drickamer reported that the acceptance rate of *Animal Behaviour* was 40% and will go to 42%. He wants to see an increase in submission rate for regular articles. The average decision time for articles submitted to *Animal Behaviour* during the past year was 48 days.

j. Parliamentarian Waring announced several Policy and Bylaws changes that will be proposed under new business.

k. Members-at-large Chase, Barthalamus and Austad reported on the 1989 ABS Research Grant competition, and discussed plans for the 1990 competition. Particularly stressed was the desirability of getting more proposals for laboratory studies focussing on causal mechanisms.

l. Film Chair Demarest reported that the 1990 film festival was in readiness.

m. Second President-elect Brockmann transmitted a request from Historian Dewsbury that EC members should send archival materials to him. "If you are unsure whether or not Historian Dewsbury would be interested in any items you have, send them and he will be happy to decide."

n. Issues in Applied Animal Behavior Chair Lehner introduced John Wright, a member of the Committee, who described some items of new business relating to certification of applied animal behaviorists (see below).

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

p. MOTION: to accept reports of officers, committees and delegates. PASSED.

q. MOTION: to decline to print "positions wanted" in the Newsletter ("positions available" will continue to be printed in the Opportunities column).

r. MOTION: to approve the continuation of the present Editorial Board of *Animal Behaviour*. PASSED.

s. Animal Care Chair Driscoll noted that Gail Michener's term on that Committee was unspecified with respect to ending date. MOTION: to extend Gail Michener's ACC term to 1991. PASSED.

t. MOTION: Treasurer Matthews' mailing list shall be revised to include E-mail addresses (requested from members on the Dues Notice), and these E-mail addresses will appear in the new Membership Directory, scheduled for printing in July, 1991. PASSED.

u. MOTION: to print an Address Correction Request on all mailings of the Society and to include a list of "lost members" in the Newsletter (ie, encouraging them to communicate current addresses to the Treasurer). PASSED.

v. Membership Chair Perelle encouraged the EC to consider whether or not it wished to increase the membership of the Society. MOTION: to encourage membership Chair Perelle to solicit new members from other professional societies, using a budget of US\$700, and targeting three or four specific societies (of his choice) during the next year. PASSED.

w. MOTION: to charge the Public Affairs Committee and First President-elect Snowdon to construct a specific program to advocate ABS activities and to inform the public and funding agencies about them. PASSED.

x. Following a lengthy discussion of ethical issues, the Code of Ethics was referred to the Policy Committee for further study.

y. MOTION: the EC shall assume responsibility for certifying the initial members of the Board of Professional Certification (see Newsletter, 1989, vol. 34, No. 3, pp.5-7). PASSED. \*

z. MOTION: the Board of Professional Certification shall be a subcommittee of the Issues in Applied Animal Behavior Committee. PASSED. \*

aa. MOTION: the instrument for certification of applied animal behaviorists (Newsletter, 1989, Vol. 34, No. 3, pp.5-7) shall be entered into ABS Policy. PASSED. \*

bb. MOTION; the Chair of the Issues of Applied Animal Behavior Committee shall be Chair of the Board of Professional Certification. FAILED. \*

cc. MOTION: to form an AdHoc Committee (C. Snowdon, L. Drickamer & R. Matthews) to explore the possibility of purchasing a share of *Animal Behaviour*. This committee will report to the EC next year at the annual meeting. PASSED.

dd. MOTION: to approve a budget of up to

for the Education Committee. PASSED.

ee. MOTION: for 1991 the Treasurer shall be authorized to increase the amount of money available for ABS Research Grants by using funds earmarked for that purpose and funds contributed for that purpose. PASSED.

ff. MOTION: ABS Research Grants will be made to graduate students and to persons who have had their PhDs for twelve months or less at the time the application is due. PASSED. \*

gg. MOTION: the Secretary shall publish an announcement regarding the Quest, Exemplar and Distinguished Ethologist awards in the November and February issues of the Newsletter. ABS members will be invited to make nominations, to be received by March 1. PASSED. \*

hh. Several Bylaws changes will be proposed at the business meeting. In each of the next three motions, the EC is voting on whether or not to bring the issue before the members at the business meeting. Motions 1 and 2 clarify the role of the Members-at-large with respect to the Career Awards Committee. Motion 3 clarifies the relation between the Board of Professional Certification and the Committee on Issues in Applied Animal Behavior.

MOTION: to add a paragraph (c) to Article III, Sec. 2 of Bylaws (Duties of the Members-at-large): c. serve on the Career Awards Committee. PASSED.

MOTION: to revise Article IV, Sec. 14 (Duties of the Career Awards Committee), paragraph b.

PRESENT b: shall consist of seven persons including the Past President, who chairs the committee, three junior members (not more than years past the PhD. at the time of appointment) appointed for staggered terms of three years each such that at least one term expires each year, and three senior members appointed for staggered terms of three years each such that at least one term expires each year.

PROPOSED b: shall consist of seven persons including the Past President, who chairs the committee, three junior members (not more

than five years past the PhD at the time of appointment), appointed for staggered terms of three years each such that at least one term expires each year, and three senior members (the Members-at-large) appointed for staggered terms of three years each such that at least one term expires each year. PASSED.

MOTION: to add two paragraphs (c and d) to Article IV, Sec. 12 (Duties of the Committee on Issues in Applied Animal Behavior): c. shall charge the Board of Professional Certification (BPC) appointed by the President with approval of the EC, to conduct the Program for Certification of Applied Animal Behaviorists.

d. the Chairperson and other committee members not part of the BPC shall review annually the Program for Certification of Applied Animal Behaviorists, audit the records of and provide advice to the BPC, and submit an annual report to the EC. PASSED.

ii. MOTION: to bestow a plaque rather than a medallion to winners of the Quest, Exemplar, and Distinguished Ethologist Awards. PASSED.

jj. MOTION: to direct the Historian to provide a current list of Fellows with brief biographies and data. PASSED.

kk. MOTION: the Secretaries of ASAB and ABS will exchange obituaries of their respective members (recently deceased). The ABS Secretary will publish ASAB obituaries at his/her discretion upon consultation with the ABS President. PASSED. \*

ll. MOTION: ABS will publish a necrology; the treasurer will provide the necessary information to the Secretary. PASSED. \*

mm. MOTION: the Secretary shall collect ABS guidelines and related matters (including the host guide), and shall pass them on to appropriate officers. PASSED. \*

nn. MOTION: to move paragraph 21d of Policy to 22e and to add a clause to the paragraph.

PRESENT 21d: the ABS does not allow commercial advertisement outside of the exhibit area, and commercial advertisers pay an exhibitor's fee which is established by the local host.

PROPOSED 22e: at the Society annual meeting, the ABS does not allow commercial advertisement outside of the exhibit area, and commercial advertisers pay an exhibitor's fee which is established by the local host. PASSED.

\*

oo. MOTION: to approve a budget of US\$600 for the film committee. PASSED. pp. MOTION: ABS research proposals and reviews shall be sent to the ABS Historian. They will be available for statistical studies, but no details on content may be revealed for 30 years following their receipt. PASSED.

qq. Program Officer Houck will do legal research relating to the Society's proposed Code of Ethics and to the question of insurance status, organizational affiliation, or other such characteristics. PASSED.

MOTION to amend by omitting Paragraph 2 of the Code. FAILED.

The question was moved on the Motion (uu as amended). PASSED.

vv. MOTION: to charge the Ethics Committee to develop and draft due process mechanisms appropriate for enforcing the Code of Ethics. PASSED.

ww. MOTION: to publish the Code of Ethics in the Newsletter and to invite the membership to comment on the Code to the Ethics Committee. PASSED.

xx. MOTION: until the due process mechanisms related to the Code of Ethics are in place, the ABS Secretary shall publish the resulting *Federal Register* statement in the Newsletter when NSF, NIH, or other federal agencies censure or debar an ABS member. PASSED.

yy. the AAUP has asked ABS to endorse its statement on Academic Freedom and Tenure. MOTION: the ABS Secretary shall write to AAUP indicating that the ABS would be pleased to endorse a gender-neutral version of the statement. PASSED.

zz. MOTION: to appoint the following persons as committee chairs: I. Perelle (Membership), J. Mench (Animal Care), B. Hart (Applied Animal Behavior), D. Dunham (Endowments), and E. Burt (Ethics). PASSED.

aaa. Historian Dewsbury has developed a set of guidelines for deposition of materials into the Society Archives.

MOTION: to enter these guidelines into ABS Policy, item 20, as Sec. c. PASSED.

These guidelines will be published in the Newsletter when space is available.

bbb. MOTION: to offer the first Distinguished Ethologist award to J.P. Scott. PASSED.

ccc. MOTION: to approve the textbook workshop proposed by J. Williams and to approve the symposium proposal (Evolution of Behavior Phenotypes) by S. Foster. PASSED.

ddd. Nominations were made for ABS Fellows, the results to be announced at the banquet.

8. Treasurer Matthews presented his report, calling for no dues increase. He announced the ABS Research Grant winners in the 1990 competition. MOTION: to accept the Treasurer's report. PASSED.

9. Parliamentarian Waring presented the proposed Bylaws changes. MOTION: to add a paragraph (c) to Article III, Sec. 2 as shown in hh (Motion 1) and to revise Article IV, Sec. 14, paragraph b as shown in hh (Motion 2). PASSED. MOTION: to add two paragraphs (c and d) to Article IV, Sec. 12, as shown in hh (Motion 3). PASSED.

10. Lee Drickamer reported on the upcoming Japan meeting of IEC, emphasizing that in his experience, prices for food and lodging in Japan are not as high as many people believe them to be.

11. James Ha reported on the E-mail network. He encouraged ABS members to participate. He also discussed electronic junk mail, its sources, and how to deal with it.

12. John Williams asked members to fill out his textbook survey.

13. Charles Snowdon discussed the substance of Item w and asked members to provide him with their suggestions.

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

Meeting adjourned at 1205.

**APPLICATION FOR MEMBERSHIP: ANIMAL BEHAVIOR SOCIETY**

Name in full \_\_\_\_\_ Degrees \_\_\_\_\_

Address \_\_\_\_\_

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

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

- \_\_\_\_\_ Member - \$36 (US), Receive Animal Behaviour and Newsletter
- \_\_\_\_\_ Student Member - \$18, Receive Animal Behaviour and Newsletter
- \_\_\_\_\_ Spouse Member - \$15, Receive Newsletter

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

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

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

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

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

**SEND THE APPLICATION TO: ROBERT W. MATTHEWS, ABS TREASURER  
DEPT. OF ENTOMOLOGY, UNIV. OF GEORGIA  
ATHENS, GA 30602**

\*\*\*\*\*

J. Driscoll, Secretary  
Animal Behavior Society  
2550 W. 43rd Avenue  
Denver, CO 80211-1732

BULK RATE  
U.S. POSTAGE  
PAID  
DENVER, CO  
PERMIT NO. 4096

ADDRESS CORRECTION REQUESTED