

# NEWSLETTER

## Animal Behavior Society

Vol. 32, No. 2  
May, 1987  
A quarterly publication

*Terry Christenson, ABS Secretary*  
*Jay Hansche, Associate Editor, ABS Newsletter*  
*Department of Psychology, Tulane University, New Orleans, LA 70118*

### ABS NOMINATIONS FOR 1987 ELECTION OF OFFICERS

The Nomination Committee presents the following slate of nominees for ABS offices which begin 14 August 1988:

#### Second President-Elect:

Charles Snowdon, Univ of Wisconsin  
R. Haven Wiley, Univ of North Carolina

#### Treasurer:

Robert Matthews, Univ of Georgia  
David Miller, Univ of Connecticut

#### Editor:

Lee Drickamer, Williams College  
Meredith West, Univ of North Carolina

#### Member-at-Large:

George Barthalmus, North Carolina State Univ  
Celia Moore, Univ of Massachusetts

Additional nominations for ABS offices may be made by letter to the Nominations Committee (c/o Jeanne Altmann, Dept Conservation Biology, Chicago Zoological Society, Brookfield IL 60513). Nominations must be signed by five or more ABS members in good standing (Constitution Article 8 Section 1); they must be received by 15 June 1987. The ballot and brief resumes of the candidates will appear in the August 1987 ABS Newsletter. In addition, on that ballot the U. S. members will be voting for USECC representatives. If you have suggestions concerning nominations for these representatives, contact Jane Brockmann, Dept of Zoology, Univ of Florida, Gainesville FL 32611.

### IN THIS NEWSLETTER

Call for applications for the first ABS Research Grant Award is on page 2 along with the Policy statement concerning the awards. On page 4 is the policy of the ABS Editor of Animal Behaviour concerning possible infractions of Society animal care guidelines. ABS/ASAB Guidelines for the Use of Animals in Research is on pages 7-8. Graduate Programs in Animal Behavior addendum form is on pages 9-12. This is for those who were not included in the 1985 edition, who have moved, and whose research interests have changed. ASZ New Orleans meetings announcement including symposium information is printed on pages 13-14. On page 15 is a request from the ABS Editor of Animal Behaviour for update information from those who have reviewed or wish to review for the journal.

### A PRESIDENTIAL OPINION

As my term as your President draws to a close, I would like to comment on the rapid broadening of the field of animal behavior. In the past year the first international meeting of behavioral ecology was held and a new society formed with talk of a new journal. The young International Society of Comparative Psychology has in fact just started a new journal. Our Society approved a standing committee on applied ethology but it is possible that our applied colleagues may also see the need for a new organization. An active international neuroethology society now exists. The International Society for Human Ethology often meets with us but has their own constitution, newsletter, and officers. Indeed, on the human and applied behavior fronts many things are happening with the formation of interest groups dealing with politics, law, bioethics, animal welfare, veterinary medicine, agriculture, anthropology, and religion.

As exciting and welcome as such developments are, they raise the specter of a fragmented field with too few aware of the integrity of nature and power of a science able to deal with and appreciate both proximate and ultimate factors- Tinbergen's famous four questions of causation (mechanism), function (adaptation), ontogeny, and evolution (phylogeny). If the history of the study of behavior teaches us anything it is that the isolation of a subfield on ideological or methodological grounds is a prescription for eventual intellectual bankruptcy-whether the split is lab or field, physiology or ecology, invertebrate or vertebrate, proximate or ultimate, modelling or experiment.

The strength of the ABS is that it was formed to provide an eclectic home for diverse students of animal behavior to meet, exchange ideas, and grow in breadth; a chance to interact with active researchers who do not all share the same taxonomic group, problem, research setting, method, or theoretical stance. The ABS is different and I hope all of you realize and value that difference. Our Society is not only strong, financially solvent, and active, but is moving forward on several fronts, as in the new awards for research, announced elsewhere in this Newsletter. Dues are still a bargain. Vote, volunteer, be active, attend meetings- it is you who will decide our future and keep us sharing a common language so that we can all appreciate our differences and share the excitement of new concepts, findings, and methods. ---Gordon Burghardt

### FAREWELL

Thank you for the opportunity of serving as your Secretary and doing these past few Newsletters. Thank you Frances Balding for your invaluable help. This 27 June the Society Secretarial duties shift to the capable hands of David Chiszar. All items for upcoming Newsletters should be sent to David at the Dept of Psychology, Univ of Colorado, Boulder CO 80309.

## 1987 ABS NATIONAL MEETING

The ABS and the International Society of Human Ethology will meet in Williams College, Williamstown MA, June 21 to 26. Keynote addresses: "The genetics and evolution of migration" by Hugh Dingle (Univ of California, Davis); "Hedonic aspects of vomeronasal stimulation" by Mimi Halpern (SUNY Health Service at Brooklyn).

Fellows lectures: "Mate choice in the polychromatic and biparental Midas cichlid (*Cichlasoma citrinellum*)" by George Barlow (Univ of California, Berkeley); "A marriage of theoretical and applied approaches" by Devra Kleiman (National Zoological Park, Smithsonian Institution).

Symposia: "Male roles" organized by Steve Stringham; "Animal Cognition", organized by Carolyn Ristau. Invited sessions: "Progress in acoustic communication research" organized by Steven Hopp; "Honoring Donald Griffin" organized by Ronald Larkin. Founders Award for best poster will be given in honor of W. C. Young. The host is Lee Drickamer, Dept of Biology, Williams College, Williamstown MA 01267.

### ABS FILM FESTIVAL

The 1987 ABS Film Festival will be held at Williams College, with the film "Condor" by Ed Harrison starting the Festival. It is a unique film with footage of the 1930's and 1940's, particularly appropriate today since the last two wild condors are about to be trapped for captive breeding.

The Semifinalists for the 4th Annual ABS Award (commercial class) are: Amate, the Fig Tree; Among the Wild Chimpanzees; Harp Seal; Kakapo, the Night Parrot; Kopjes, Islands in a Sea of Grass; Leopard, a Darkness in the Grass; River of Light; Roll-on-Manatee; Sea Snakes, Friend or Foe?; Song Dog; Together They Stand; Trumpeter Blues; Yndan al Fallah, Valley Beneath the Sea. Competing for the Jack Ward Award (non-commercial class) are: High Season of the Moose by Anton Bubenick and White Coat by Norman Lightfoot. All Semifinalist awards are made on the basis of four criteria: excellence of sound and photography, general organization and effectiveness, uniqueness of footage, and relevancy to animal behavior or conservation.

### 25th ABS ANNIVERSARY

To commemorate the 25th anniversary of the founding of the ABS the journal will carry a special logo on the cover of all six issues published in 1989. The Executive Committee has appointed an ad hoc committee to recommend a design at the 1987 Annual Meeting. If you have ideas, please send your sketches to Edward H. Burt Jr., Dept of Biological Sciences, Ohio Wesleyan Univ, Delaware OH 43015 before 15 June in order to be considered at the annual meeting.

### EDUCATIONAL/PROFESSIONAL TOUR OF CHINA

Are you interested in visiting China? The tour ABS is considering is organized by China-US Exchanges to bring together U. S. scientists with their counterparts in China. Itineraries are flexible but usually include seminars, round-table discussions, one-to-one meetings, tours of research facilities, and cultural stops, such as The Great Wall. Because the tours are primarily educational/professional, there are tax benefits. Tours last from 15-18 days, leaving from San Francisco, with total cost of about \$3000 per person. If interested, contact Daniel Q. Estep, Dept of Psychology, Univ of Georgia, Athens GA 30602.

## CALL FOR ABS RESEARCH GRANT APPLICATIONS

The first 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 range from \$500- \$1000 (US), and in most cases will cover research for one year only. For more details see the notice immediately below.

Grants will be awarded on the basis of an annual competition. Those interested must request an application from the ABS Research Grants Committee Chairperson, Gail Michener.

Completed applications must be postmarked by 15 November and sent to Gail Michener, Dept of Biological Sciences, Univ of Lethbridge, Lethbridge, Alberta, Canada T1K 3MX. Proposal reviews will be completed in February, and awardees notified by letter in early March.

### 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 and may award less than the entire amount of money allocated by the Executive Committee (Bylaws Art. IV, Sec 10b) if the proposals are deemed not to be of sufficient quality.

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 project. 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.

Announcement of the availability of grant awards, where the applications and guidelines can be obtained, and the application deadline will be published in the two issues of the Newsletter preceding the application deadline. An announcement of the awards (Recipients' names, Project titles and Amount of awards) will be published in the next available issue of the Newsletter following the awards. (Policy enacted at the 1986 EC Meeting.)

### WANT TO SERVE ON AN ABS COMMITTEE?

By glancing at the roster on page 6 you will note that a number of committee openings (in Animal Care, Ethics, Film, Issues in Applied Animal Behavior, Membership, Organization and Bylaws, Public Affairs, and Research) are about to be filled. If you are interested in serving on an ABS Committee, contact Sid Gauthreaux, Jr., Dept Zoology, Clemson Univ, Clemson SC 29631, (803) 656-3584.

## AWARDS

T. C. SCHNEIRLA CONFERENCE AWARD of \$250 will be given for the best essay addressing the topics of the next T. C. Schneirla Conference: "Scientific method for the study of the evolution of mind". The winning paper will also be presented at the fourth Conference at Wichita State University on 6-8 November 1987. Limit is 3000 words (excluding bibliography) and two illustrations. The deadline for submissions is 15 August 1987. Contact Peter Gold, 544 Capen Hall, SUNY at Buffalo, Buffalo NY 14260.

T.C. SCHNEIRLA AND CHARLES TOBACH AWARDS FOR RESEARCH IN COMPARATIVE PSYCHOLOGY for \$500 and \$250, respectively, for research in comparative psychology. The applicant should submit, in triplicate, the research plan (three double-spaced page limit), a budget justification, a resume, and two letters of recommendation by 1 June 1987. An applicant may receive only one award. Send application to Peter Gold, 544 Capen Hall, SUNY at Buffalo, Buffalo NY 14260.

ZOO KEEPERS AWARD- The American Association of Zoo Keepers grant for keeper-initiated zoo research by AAZK members. Two awards of up to \$500. Contact Frank Kohn Dept of Zoological Research, National Zoological Park, Washington, DC 20008.

EARTHWATCH GRANTS- The Center for Field Research invites proposals for field research in animal behavior. In 1987 and 1988, over 200 projects in the sciences and humanities throughout the world will be funded at \$5,000 to \$85,000. Funds are derived from contributions by participating volunteers. Contact Dede Robbins Leighton, Center for Field Research, Box 403, 680 Mt Auburn St, Watertown MA 02172.

## OPPORTUNITIES

RESEARCH TECHNICIAN needed for an 18 month laboratory study of the foraging behavior of American eels. Responsibilities include field collection, maintenance of aquaria, experiments on respirometry and growth in relation to mode of feeding, helping with data analysis. Begins 1 Sept 1987; salary \$14,000. Please send curriculum vitae and three letters of recommendation to Gene Helfman, Dept Zoology, Univ of Georgia, Athens GA 30602.

VOLUNTEERS needed for observations on corral-living rhesus monkeys. No experience necessary, but some background in animal behavior helpful. Excellent opportunity to gain experience in observational techniques and data management. Please send letter of inquiry, resume, and names of three references to Margaret R. Clarke, Delta Primate Center of Tulane Univ, Three Rivers Rd, Covington LA 70433.

THE UNIV OF CALIFORNIA RESEARCH EXPEDITIONS PROGRAM is recruiting for animal behavior expeditions to Africa, Australia, South America, and the Caribbean. Participants help fund the research by making a tax-deductible contribution which covers food and accommodations. Contact UREP, Univ of California, Berkeley CA 94720.

RESEARCH APPRENTICESHIPS for research on avian, marine mammal, estuarine, and forest ecology at the Manomet Bird Observatory. Available 1 May - 30 Nov; \$250 month and room provided. Contact MBO, PO Box 936, Manomet MA 02345.

## ANNOUNCEMENTS

NATIONAL SCIENCE FOUNDATION encourages grant applications for a number of special programs: Research Opportunities for Women (call 202/357-7734); Research Experiences for Undergraduates (202/357-9880); Research in Undergraduate Institutions (202/357-7456); Research Opportunities for Minority Scientists and Engineers (202/357-7350); and the Biological Centers Program (202/357-7652).

Target dates for proposals to the Psychobiology Program (202/357-7949) and Population Biology and Physiological Ecology Program (202/357-9728) are 16 June and 15 Dec for the former and 15 July and 15 Jan for the latter. Anyone writing a grant proposal should have the new edition (white cover) of the publication Grants for Research and Education in Science and Engineering (202/357-7861). For more information contact Fred Stollnitz, Psychobiology Program, NSF, Washington DC 20550.

1987 AIBS DISTINGUISHED SERVICE AWARD has been given to entomologist Perry L. Adkisson, currently Distinguished Professor of Entomology and Chancellor of the Texas A & M Univ System at College Station. The award is given in recognition of his years of service to agricultural science and enhancing the productive capacity of American agriculture.

NEW NATIONAL PARK IN BELIZE. Legislation is set to be signed shortly in Belize, Central America, creating a new national park, the Hol Chan Marine Reserve located on the Belize Barrier Reef near San Pedro. The Belize Barrier Reef, the second largest barrier reef in the world, is a complex of reefs, lagoons, and cays stretching for about 150 miles. The park is the result of a collaboration between the Belize Fisheries Department and Wildlife Conservation International of the New York Zoological Society.

FIELD RESEARCH AND CONSERVATION INTEREST GROUP is being organized to share information from conferences, symposia, and ongoing research among all individuals interested in field research and conservation. Could lead to a field-related bibliography, periodic literature update, quarterly newsletter, and directory of interested individuals. If you are interested, please send a self-addressed, stamped envelope to Gail E. Foreman, Dept of Zoology, Ohio State Univ, Columbus OH 43210.

A MOUSE STUDY. Mice colonize houses in cold weather, but do they in other seasons? A study is being conducted on seasonal effects of mice colonizing houses. If you wish to participate in a trap study, contact Ann Baker, Zoology Dept, Colorado State Univ, Fort Collins CO 80523.

WORLD WILDLIFE FUND- ELEPHANTS. The Selous Game Reserve in Tanzania is perhaps the most important woodland savanna reserve in Africa. It hosts the single largest contiguous elephant population in Africa. Recently, the 55,000-square-kilometer reserve was designated a World Heritage Site. Yet, the Reserve's elephants are losing ground to poaching. A recent World Wildlife Fund survey showed the elephant population had dropped from 80,000 in 1981 to 50,000 today.

As a result of the 1985 Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES), member countries established a new ivory export quota system. Key Asian ivory importing nations have agreed to accept only tusks accompanied by CITES documentation. The CITES Secretariat is coordinating these efforts.

---March 1987 AAZPA Newsletter

**GREAT APE FELLOWSHIPS.** The LSB Leakey Foundation and Wildlife Conservation International (WCI) of the New York Zoological Society have announced the recipients of the second annual International Fellowships for Great Ape Research and Conservation: Christophe Boesch of the Institute of Ethnology, Univ of Zurich, and John Michael Fay, a PhD candidate in Anthropology at Washington Univ, St. Louis MO. Boesch will explore the cooperative and food-sharing behavior of chimpanzees in Tai National Park, Ivory Coast, West Africa. Fay will conduct a comparative ecological study of western lowland gorillas in virgin and regrowth forests in the Central African Republic.

**CONSORTIUM OF AQUARIUMS, UNIVERSITIES AND ZOOS** is a fellowship created between zoo, university and aquarium professionals in Southern California in 1985. It has grown to a nation-wide network. It has just published the 1987 CAUZ directory listing 205 individuals according to their general as well as specific interests. It is an important tool in increasing the flow of information between zoo/aquarium professionals and the university community. Please submit information for the 1988 CAUZ Directory. Contact Donna FitzRoy Hardy, Dept Psychology, California State Univ, 18111 Nordhoff St, Northridge CA 91330.

**ZOO AND AQUARIUM PROJECTS FOR UNDER-GRADUATES** is an excellent resource for teaching the basics of observational research. Available through Kinko's Publishing Group or Donna FitzRoy Hardy, California State Univ, 18111 Nordhoff St, Northridge CA 91330.

**SCIENCE AS A WAY OF KNOWING** is an activity of ASZ. The topic for 1987 is Form and Function. The essay will be developed by John A. Moore, Ingrith Deyrup Olsen, and William V. Mayer. Suggestions for essay content and possible symposium speakers should be sent to William V. Mayer, 135 76th St, Boulder CO 80303.

**GRANTS-AT-A-GLANCE** is a publication of the Association For Women In Science listing information on over 350 unique grants, fellowships, scholarships, awards, and prizes to students and professionals in the life, physical, social sciences, and engineering. To order send \$8 (check payable to AWIS) to AWIS Publications, 2401 Virginia Ave, NW, Suite 303, Washington DC 20037.

**SYMBOLIC PLAY IN NON-HUMAN PRIMATES.** An inquiry into examples of symbolic play in species of non-human primates. All instances would be welcome. Contact J.V. Brown, Dept Psychology, Univ of Bielefeld, 48 Bielefeld, FRG.

## NOTICE TO AUTHORS SUBMITTING TO ANIMAL BEHAVIOUR

All manuscripts are reviewed by the Editor and the reviewers for possible violations of the ABS/ASAB Guidelines for the Care and Use of Animals in Research. Manuscripts suspected of possibly violating the guidelines are sent out to members of the ABS Animal Care Committee for independent review. The Editor's final decision is based on input from both the regular reviewers and the Committee members. If a manuscript is rejected on animal care grounds, the author(s) will be provided with an opportunity to appeal the rejection and submit a rebuttal. However, prudent authors should plan their research in accordance with the animal care guidelines, and they should provide in their manuscripts evidence and discussion that the phenomena they are studying are of real, biological importance under natural conditions, and they should discuss the ethical issues raised in their research and explicitly justify the methods and techniques used. Attention to these matters in advance will save considerable time and problems for authors, reviewers, and the editorial office.

## ABS DIRECTION OF CORRESPONDENCE

ABS NEWSLETTER & general correspondence to the Society until 27 June 1987:

Terry Christenson, Dept of Psychology  
Tulane University, New Orleans LA 70118

After 27 June 1987 contact:

David Chiszar, Dept Psychology  
Univ of Colorado, Boulder Co 80309

ANIMAL BEHAVIOUR--Manuscripts and editorial matters:

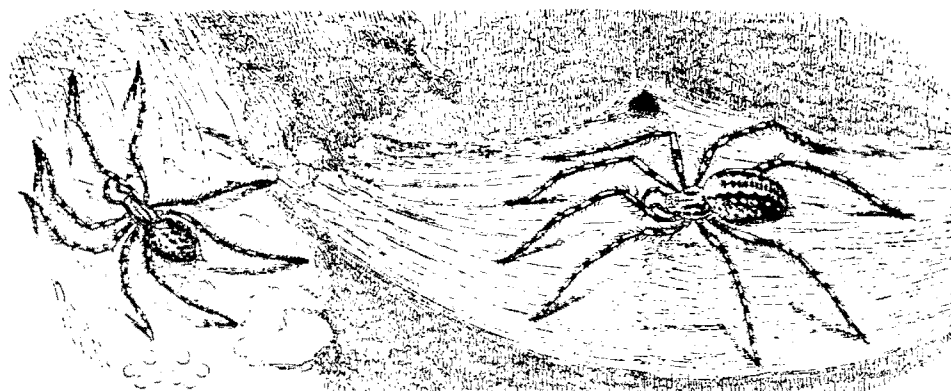
Charles Snowdon, Dept of Psychology,  
Univ of Wisconsin, Madison WI 53706

ANIMAL BEHAVIOUR--Missing issues; change of address:

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

## CONTRIBUTIONS TO NEWSLETTER WELCOME

We would be pleased to receive materials for the August ABS Newsletter by 1 July 1987 and the ASZ Fall Divisional Newsletter by 1 October. Send to David Chiszar, Dept of Psychology, Univ of Colorado, Boulder CO 80309.



## MEETINGS

1987 SIXTH BIENNIAL CONFERENCE ON THE ECOLOGICAL AND EVOLUTIONARY ETHOLOGY OF FISHES 17-20 May, Lamar Univ. Contact David L. Bechler, Dept of Biology, Box 10037, Lamar Univ, Beaumont TX 77710.

CONFERENCE ON LABORATORY ANIMALS 4-5 June, Chicago, "Animal pain" . Sponsored by the Scientists Center for Animal Welfare and Univ of Chicago. Contact F. Barbara Orlans, 4805 St Elmo Ave, Bethesda MD 20814.

XIXth ANNUAL MEETING OF THE INTERNATIONAL SOCIETY FOR THE HISTORY OF BEHAVIORAL AND SOCIAL SCIENCES 10-13 June, Bowdoin College. Write Alfred Fuchs, Bowdoin College, Brunswick ME 02181.

AMERICAN SOCIETY OF PRIMATOLOGISTS ANNUAL MEETING 13-16 June, Univ of Wisconsin, Madison, Wisconsin. Contact Joseph Kemnitz, Wisconsin Regional Primate Research Center, 1223 Capital Court, Madison WI 53715.

AMERICAN ARACHNOLOGICAL SOCIETY 16-20 June, Harvard. Contact Herb Levi, MCZ, Harvard Univ, Cambridge MA 02138.

11TH INTERNATIONAL HERPETOLOGICAL SYMPOSIUM ON CAPTIVE PROPAGATION AND HUSBANDRY 17-20 June, Chicago. Contact Richard Hahn, Zoological Consortium, 13019 Catocin Furnace Rd, Thurmont MD 21788.

AMERICAN SOCIETY OF ICHTHYOLOGISTS AND HERPETOLOGISTS 21-26 June, Albany, NY. Robert K. Johnson, Grice Marine Biological Laboratory, 205 Ft Johnson, Charleston SC 29412

SOCIETY FOR THE STUDY OF EVOLUTION-ANNUAL MEETING 21-26 June, Montana. Peter Brussard, Dept. Biology, Montana State Univ, Bozeman MT 59717

1987 ABS MEETINGS 21-26 June, Williams College, Williamstown MA 01267.

JEMEZ SPRINGS SYMPOSIUM 29 June -3 July. Contact Jay Feierman, Dept of Research and Education, Vista Sandia Hospital, 501 Alameda Blvd, NE, Albuquerque NM 87113.

ECOLOGICAL SOCIETY OF AMERICA-ANNUAL MEETING 9-13 Aug, Ohio State Univ. Contact Stephen J. Chaplin, Nature Conservancy, 1313 - 5th Street SE, Minneapolis MN 55414.

1987 XXTH INTERNATIONAL ETHOLOGICAL CONFERENCE 7-16 Aug, Madison. Contact Charles Snowdon, Dept of Psych, Univ of Wisconsin, Madison WI 53706.

BIO-ETHICS '87, AN INTERNATIONAL SYMPOSIUM ON BIO-ETHICS AND APPLIED ANIMAL ETHOLOGY 14-16 Aug, Montreal. Contact Tarjei Tennesen, Dept of Animal Science, NSAC, Truro, N.S. Canada B2N 5E3.

AMERICAN PSYCHOLOGICAL ASSOCIATION ANNUAL MEETING 28 Aug to 1 Sept, NY Hilton. Contact Convention Office, 1200- 17th Street NW, Washington DC 20036.

AAZPA ANNUAL CONFERENCE 20-24 Sept. Contact Jane Hartline, Washington Park Zoo, 4001 S.W. Canyon Road, Portland OR 97221.

THE SECOND INTERNATIONAL MUSKOX SYMPOSIUM 1-4 Oct, Saskatchewan. Program includes physiology and nutrition; health, disease and husbandry; systematics, evolution and archaeology; ecology and behavior; population dynamics; and a workshop on management of muskox populations. Contact Jan Rowell, Veterinary Anatomy, WCVU, Univ of Saskatchewan, Saskatoon, Saskatchewan, Canada S7N 0W0.

CONFERENCE ON LABORATORY ANIMALS 8-9 Oct, New York City- on national policies governing the use of animals in research, testing, wildlife research and education. Contact Lee Krulisch, SCAW, 4805 St Elmo Avenue, Bethesda MD 20814.

NEUROBIOLOGY OF LEARNING AND MEMORY CONFERENCE 14-17 Oct, Irvine. Contact Lynn Brown, Center for the Neurobiology of Learning and Memory, Univ of California, Irvine CA 92717.

TROPICAL RAINFORESTS: CONSERVATION AND DEVELOPMENT 23-26 Oct, Miami. Contact Doyle McKey, Dept of Biology, Univ of Miami, Coral Gables FL 33124.

4TH T.C. SCHNEIRLA CONFERENCE 6-8 Nov, Wichita. Contact Gary Greenberg, Dept Psychology, Wichita State Univ, Wichita KS 67208.

INTERNATIONAL SOCIETY FOR DEVELOPMENTAL PSYCHOBIOLOGY 12-15 Nov, New Orleans. Contact Jerry Rudy, Dept of Psychology, Univ of Colorado, Boulder CO 80309.

INTERNATIONAL CONFERENCE ON COMPARATIVE REPRODUCTION IN MAMMALS AND MAN 23-26 Nov, Kenya. Contact R. Eley, Institute of Primate Research, PO Box 24481, Karen, Nairobi, Kenya.

AAAS 1988 MEETING 11-16 Feb, Boston, MA.

SYMPOSIUM OF ASIAN PACIFIC MAMMALOGY 26-30 July, 1988, Kunming, Yunnan Province, People's Republic of China. Sponsored by the ASM and the Mammalogical Society of China. Focus will be on the mammalogy of eastern Asia and the Pacific basin. Contact Andrew T. Smith, Dept. of Zoology, Arizona State Univ, Tempe AZ 85287 or Wang Sung, 7 Zhongguancun Lu, Haidian, Beijing, People's Republic of China.

ANIMAL BEHAVIOR SOCIETY 8-13 Aug, Missoula. Contact Don Jenni, Dept Zool, Univ of Montana, Missoula MT 59812.

XXIVTH INTERNATIONAL CONGRESS OF PSYCHOLOGY, IVTH ISCP CONFERENCE 28 Aug- 3 Sept 1988, Sydney. Contact Secretary, XXIVth ICP, GPO Box 2609, Sydney, NSW 2001 Australia.

## SYMPOSIUM PROPOSALS WANTED

To organize a symposium or invited paper session for an ABS meeting, contact Susan Riechert, Dept of Zoology, Univ of Tennessee, Knoxville TN 37916; for ASZ meetings, contact Mary Adams-Wiley, PO Box 2739, California Lutheran College, Thousand Oaks CA 91360.

## ABS OFFICERS

(\* To assume office 27 June 1987)

PRESIDENT: Gordon Burghardt, Dept of Psych, Univ of Tennessee, Knoxville TN 37916  
1st PRESIDENT-ELECT: Sidney Gauthreaux, Jr., Dept of Zoology, Clemson Univ, Clemson SC 29631  
2nd PRESIDENT-ELECT: John Fentress, Depts Psych & Biol, Dalhousie Univ, Halifax, Nova Scotia, Canada B3H 4J1  
\*2nd PRESIDENT-ELECT: Patrick Colgan, Biology Dept, Queen's Univ, Kingston, Ontario, K7L 3N6 Canada  
PAST PRESIDENT: Jeanne Altmann, Dept Conservation Biology, Chicago Zoological Park, Brookfield IL 60513  
SECRETARY: (1984-87) Terry Christenson, Dept of Psychology, Tulane Univ, New Orleans LA 70118  
\*SECRETARY: (1987-90) David Chiszar, Dept of Psychology, Univ of Colorado, Boulder CO 80309  
TREASURER: (1985-88) H. Jane Brockmann, Dept of Zoology, Univ of Florida, Gainesville FL 32611  
PROGRAM OFFICER: (1986-89) Susan Riechert, Dept Zoology, Univ of Tennessee, Knoxville TN 37916  
PARLIAMENTARIAN: (1986-89) Edward H. Burt, Jr., Dept Zool, Ohio Wesleyan Univ, Delaware OH 43015  
EDITOR: (1985-88) Charles Snowdon, Dept Psychology, Univ of Wisconsin, Madison WI 53706  
MEMBER-AT-LARGE: (1984-87) Joan S. Lockard, Dept Neur. Surgery, Univ Washington, Seattle WA 98195  
MEMBER-AT-LARGE: (1985-88) Gail Michener, Dept Biol Sci Univ of Lethbridge, Lethbridge Alberta, Canada T1K 3M4  
MEMBER-AT-LARGE (1986-89) Jan Randall, Biology Dept, Central Missouri State Univ, Warrensburg MO 64093  
\*MEMBER-AT-LARGE: (1987-90) Julia Chase, Biology Dept, Barnard College, Columbia Univ, New York NY 10027

## ABS COMMITTEE MEMBERSHIP

(Year term expires in parentheses)

### ANIMAL CARE:

CHAIR, Janis Driscoll (1988)  
Benjamin Beck (1988)  
Judith Gibber (1987)  
Jennifer Mather (1989)  
Thomas Rambo (1989)  
Victoria Voith (1988)

### EDUCATION:

CHAIR, Daniel Estep (1988)  
Jeanne Altmann (ex officio)  
Penny Bernstein (1989)  
John Fentress (ex officio)  
Michael Johnson (1989)  
Robert Matthews (1988)  
Donna Schroeder (1988)  
Lawrence Williams (1988)

### ETHICS:

CHAIR, Michael Beecher (1987)  
Donald Dewsbury (1987)  
Bennet Galef (1987)  
John Vandenberg (1987)  
Meredith West (1987)

### FILM:

CHAIR, Patricia DeCoursey (1987)  
Stevan L. Hopp (1988)  
Ronald Langley (1987)

Jay Labov (1989)  
Debra Forthman Quick (1989)  
Anna E. Ross (1988)

### ISSUES IN APPLIED ANIMAL BEHAVIOR

CHAIR, Peter Borchelt (1987)  
Martin Daly (1987)  
Neil Greenberg (1987)  
Philip Lehner (1987)  
Edward Price (1987)

### MEMBERSHIP:

CHAIR, Ira Perelle (1988)  
Millicent Ficken (1987)  
Adrienne Massey (1988)  
Helmut Mueller (1988)  
Keith Waddington (1987)  
Stim Wilcox (1989)

### NOMINATIONS:

Jeanne Altmann  
Colin Beer  
Devra Kleiman

### ORGANIZATION AND BYLAWS:

CHAIR, Edward Burt, Jr. (ex officio)  
Elizabeth Mallory (1987)  
Patrick McArthur (1988)  
Patricia Schwagmeyer (1989)

### POLICY AND PLANNING

CHAIR, David Miller (1988)  
Jeanne Altmann (ex officio)  
Charles F. Blaich (1988)  
Edward Burt, Jr. (ex officio)  
David Duvall (1989)  
John Fentress (ex officio)  
James Shapiro (1989)  
C.N. Slobodchikoff (1989)  
John T. Williams (1988)

### PUBLIC AFFAIRS:

CHAIR, George Waring (1989)  
Peter W. Bergstrom (1988)  
Chris Evans (1987)  
Dorothy M. Fragaszy (1988)  
Michael Renner (1989)  
Fred Stollnitz (1989)

### RESEARCH:

CHAIR, Joan Lockard (1987)  
Andrew Blaustein (1987)  
Warren Holmes (1989)  
Martha McClintock (1988)  
Gail Michener (1988)  
Janet Randall (1989)

## WANT TO SERVE ON AN ABS COMMITTEE?

By glancing at the roster above you will note that a number of committee openings are about to be filled. If you are interested in serving on an ABS Committee, contact Sid Gauthreaux, Jr., Dept Zoology, Clemson Univ, Clemson SC 29631, (803) 656-3584.

## ABS/ASAB GUIDELINES FOR THE USE OF ANIMALS IN RESEARCH (1986)

The use of animals in research raises important ethical issues. Studies in laboratory settings necessarily involve keeping animals in cages. Manipulative procedures and surgery may be necessary to achieve the aims of the research. Observation of free-living animals in their natural habitats may involve disruption, particularly if feeding, capture, or marking is involved. While the furthering of scientific knowledge is a proper aim, and may itself advance an awareness of human responsibility towards animal life, the investigator should always weigh any potential gain in knowledge against the adverse consequences for the animals used as subjects, and also for other animals in the case of field studies.

In order to help their members make what are sometimes difficult ethical judgements, the Association for the Study of Animal Behaviour and the Animal Behavior Society have formed Ethical and Animal care committees respectively. These committees jointly produced the following guidelines for the use of all those who are planning and conducting studies of animal behaviour. These guidelines will be used by the Editors of Animal Behaviour. Submitted papers that appear to violate the spirit of the guidelines will be referred to one of the committees, and the evaluation of the committee will be used by the editor in deciding whether to accept the manuscript.

### 1. LEGISLATION.

Investigators must abide by the spirit as well as the letter of relevant legislation. For those who reside in Great Britain, references to laws designed to protect animals are given in the Universities' Federation for Animal Welfare Handbook (UFAW 1978). In the U.S.A., both Federal and State legislation may apply: guidance can be obtained from the Code of Federal Regulations (CFR), Title 9, and from the Department of Health and Human Services Publication No. (NIH) 85-23 (1985). In Canada, guidance can be obtained from the Canadian Council on Animal Care publications Guide to the Care and Use of Experimental Animals, vols. 1 and 2 (1980-1984). Workers elsewhere should acquaint themselves with local requirements.

### 2. CHOICE OF SPECIES.

The species chosen for study should be well-suited to answer the questions posed. When research involves the use of procedures that are likely to cause unavoidable pain or discomfort to the animal, and when alternate species can be used, the researcher should employ the species which in the opinion of the researcher and other qualified colleagues is least likely to suffer. Choosing an appropriate subject usually requires knowledge of a species' natural history as well as its complexity. Knowledge of an animal's previous experience, such as whether or not it has spent a lifetime in captivity, can be of profound importance. Although not usually appropriate in studies of behaviour, alternatives to animal experiments may sometimes be possible (Smyth 1978).

### 3. NUMBER OF INDIVIDUALS.

In laboratory studies or field studies involving manipulations potentially detrimental to the animal or the population, the researcher should use the smallest number of animals necessary and sufficient to accomplish the research goals. The number of animals used in an experiment can often be dramatically reduced by good experimental design and the use of statistical tests which enable several factors to be examined at one time. Still (1982) and Hunt (1980) discuss ways of reducing the number of animals used in experiments through alternative designs. Useful reference works are Cox (1958) and Cochran & Cox (1966).

## 4. PAIN OR DISCOMFORT.

If procedures used in research involve pain or discomfort, the investigator must consider whether the knowledge that may be gained justifies the stress and pain inflicted on the animals. In general, researchers are urged to consider the use of alternative procedures before employing techniques that are likely to cause physical or psychological discomfort to the animal. Pain or discomfort, even when unavoidable, should be minimized to the greatest extent possible under the requirements of the experimental design. Attention should be given to proper pre- and post-operative care in order to minimize preparatory stress and residual effects. Unless specifically contraindicated by the experimental design, procedures that are likely to cause pain or discomfort should be performed only on animals that have been adequately anesthetized. Investigators are encouraged to discuss with colleagues both the scientific value of their research proposals and also possible ethical considerations. Colleagues who are in a different discipline are specially likely to be helpful since they may have perspectives which differ from those of the investigator.

The following more specific points may be of use:

#### a. Fieldwork.

Observation of free-living animals in their natural habitats may involve disruption, particularly if feeding, capture, or marking is involved. While field studies may further scientific knowledge and advance an awareness of human responsibility towards animal life, investigators should always weigh any potential gain in knowledge against the adverse consequences of disruption for the animals used as subjects and also for other animals and plants in the ecosystem. Two useful sources of information are the books edited by Stonehouse (1980) and Am-laner & Macdonald (1980).

#### b. Aggression, Predation, and Intraspecific Killing.

The fact that the agent causing harm may be another non-human animal does not free the experimenter from the normal obligations to experimental animals. Huntingford (1984) discusses the ethical issues involved and recommends that, wherever possible, field studies of natural encounters should be used in preference to staged encounters. Where staged encounters are necessary, the use of models or alternative experimental designs should be considered, the number of subjects should be kept to the minimum needed to accomplish the experimental goals, and the experiments made as short as possible.

#### c. Aversive Stimulation and Deprivation.

These procedures may cause pain and distress to animals. To minimize possible suffering of the animal, the investigator should ascertain that there is no alternative way of motivating the animal, and that the levels of deprivation or aversive stimulation used are no higher than necessary to achieve the goals of the experiment. Alternatives to deprivation include the use of highly preferred foods and other rewards which may motivate even satiated animals. Use of minimal levels requires a knowledge of the technical literature in the relevant area: quantitative studies of aversive stimulation are reviewed by Church (1971); the behaviour of satiated animals is considered by Morgan (1974). Further comments on reducing distress due to motivational procedures are to be found in Lea (1979) and Moran (1975).

#### d. Social Deprivation, Isolation, and Crowding.

Experimental designs which require keeping animals in over-crowded conditions, or which involve social deprivation or isolation, may be extremely stressful to the animals involved. Since the degree of stress varies considerably with the species, and with the age, sex, reproductive condition, and social status of the individuals, the biology of the animals concerned and their

previous social experience should be considered, and stressful situations should be avoided as much as possible.

e. Deleterious Conditions.

Studies aimed at inducing deleterious conditions in animals are sometimes performed in order to gain scientific knowledge of value to human problems. However, the humane treatment of research animals in such experiments should still be considered by the investigator. Animal models should be suitable to the problem investigated. Where feasible, studies inducing a deleterious condition in animals should also address the possible treatment, prevention, or alleviation of the condition. Furthermore, if the goals of the research allow it, the investigator should consider using naturally-occurring instances of such conditions in free-living or domesticated populations, as an alternative to inducing the deleterious conditions.

5. ENDANGERED SPECIES.

Members of endangered or locally rare species should not be collected or manipulated in the wild except as part of a serious attempt at conservation. Information on threatened species can be obtained from the International Union for the Conservation of Nature, Species Conservation Monitoring Unit, 219C Huntingdon Road, Cambridge CB3 0DL, England. In the U.S.A., rules and regulations pertaining to the Endangered Species Act of 1973 may be found in CFR, Title 50. Lists of endangered species can be obtained by writing to the Office for Endangered Species, U.S. Department of Interior, Fish and Wildlife Service, Washington, D.C. 20240, or the Committee on the Status of Endangered Wildlife in Canada, Canadian Wildlife Service, Environment Canada, Ontario, K1A 0E7. Investigators working in other countries should familiarize themselves with local information on threatened and endangered species.

6. PROCUREMENT OF ANIMALS.

Animals should be obtained only from reliable sources. For workers in the U.K., advice may be obtained from the Laboratory Animal Breeders' Association, Charles River (UK) Ltd., Manston Research Centre, Manston Road, Margate, Kent, CT9 4LP. In the U.S.A., information on licensed animal dealers can be obtained from the local office of the U.S. Department of Agriculture (USDA). So far as is possible, the investigator should ensure that those responsible for handling the animals in route to the research facilities provide adequate food, water, ventilation and space, and do not impose undue stress. If animals are captured or killed in the wild this should be done in as painless and humane a manner as possible.

7. HOUSING AND ANIMAL CARE.

The experimenter's responsibilities extend also to the conditions under which the animals are kept when not in use. Caging conditions and husbandry practices must meet at the very least minimal recommended requirements. Guidance can be obtained from the UFAW Handbook (1978), from DHHR Publication No. (NIH) 78-23 (1985), and from the CCAC Guide to the Care and Use of Experimental Animals (1980-1984).

Although these publications provide general guidelines that can be applied to wild animals, special attention may be required to enhance the comfort and safety of wild species. Normal maintenance should incorporate, as much as possible, aspects of the natural living conditions deemed important to the welfare and survival of the animals. Consideration should be given to providing features such as natural materials, refuges, perches, and dust and water baths. Frequency of cage cleaning should represent a compromise between the level of cleanliness necessary to prevent diseases, and the amount of stress imposed by frequent handling and exposure to unfamiliar surroundings, odors, and bedding.

8. FINAL DISPOSITION OF ANIMALS.

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

These guidelines supplement but do not supercede the legal requirements in the country and/or state or province in which the work is carried out. They should not be considered an imposition upon the scientific freedom of individual researchers, but rather as helping to provide an ethical framework to which each investigator may respond in making decisions related to animal welfare.

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ADDENDUM TO 1985 GRADUATE PROGRAMS  
IN ANIMAL BEHAVIOR

During 1987 the Education Committee of the Animal Behavior Society will produce an addendum to the 1985 Edition of Graduate Programs in Animal Behavior. This addendum will provide additional new listings not published in 1985 and will provide changes in published listings that have occurred since 1985.

FOR THOSE LISTED in GPAB 1985 THAT HAVE EXPERIENCED CHANGES OR NEED CORRECTIONS IN INSTITUTIONAL AFFILIATION, RESEARCH AREA OR ORGANISM OF INTEREST. The easiest way to handle such changes is to photocopy your listing from the book and neatly print the changes in red pencil on the photocopy at the place the change is to be made. Mail the photocopy to: Dr. D. Q. Estep, Department of Psychology, University of Georgia, Athens, GA 30602. If the changes are extensive or complicated, simply fill out the enclosed blank form and indicate on the top of the form that this is a change, not a new listing.

FOR THOSE NOT LISTED in GPAB 1985 THAT WISH TO BE LISTED. Fill out the attached form. In small departments, one person (the chairperson, graduate coordinator or knowledgeable faculty member) may be able to provide all the requested information, in larger departments individual responses may be more appropriate. Don't forget to provide information on each faculty member interested in animal behavior and don't assume that your colleagues will be providing information about you. We would rather have redundant information than no information at all. If you already have submitted information to the Education Committee for a new listing since the 1985 GPAB was published, you need not submit new information. We have retained all new listings and corrections submitted to us since 1985.

Instructions for the form:

Most of the form should be self-explanatory, but some items require further explanation. The top portion of the form requests information about your department/program, and is relatively straightforward. The bottom portion requests information about you. For the item labelled "General Research Area" please write in the terms BEST describing your research areas choosing up to 5 from the attached list of Subject Areas in Animal Behavior. For "Specific Research Specialties", indicate your specific research interests in as much detail as you wish using any phrases you wish. Under "Organisms Studied" first list the common names of up to 5 species or groups that you work with. Then indicate the classification of each (class, order, superfamily or family) by selecting taxa from the attached Animal Group Listing. Please refer to the attached example as a model for formatting your responses.

Because your responses will be entered into a computer for sorting and printing, errors or misspellings will result in lost or non-retrievable information. It is therefore VERY IMPORTANT that you check your responses for accuracy and legibility. Please type or neatly print them.

Please DUPLICATE THIS FORM for colleagues in your own or other departments at your institution who actively advise students in animal behavior, but who may not be ABS members or who do not receive the newsletter, and who were not included in GPAB 1985.

Fold and tape the completed form(s) and send to the address printed on the back of the form by July 1, 1987. That address is: Dr. Daniel Q. Estep, Department of Psychology, University of Georgia, Athens, GA 30602. Your cooperation in this effort will help to make this directory as complete as possible and therefore of maximal usefulness. The Education Committee greatly appreciates your cooperation in this important task.

SUBJECT AREAS IN ANIMAL BEHAVIOR

This subject listing is based on the categories adopted by ANIMAL BEHAVIOR ABSTRACTS. Certain modifications have been incorporated and the listing is presented alphabetically.

APPLIED ETHOLOGY: - Companion Animals - Domestic Animals - Wildlife - Other: _____	DEVELOPMENT/ONTOGENY  DRUG STUDIES  ENDOCRINE/HORMONAL MECHANISMS	NEURAL MECHANISMS - Brain Lesions - Brain Stimulation - Neurophysiological Correlates - Other: _____
BEHAVIORAL ECOLOGY - Foraging - Habitat Selection - Orientation/Navigation/ Migration/Homing - Predator/Prey Interactions - Territoriality - Other: _____	EVOLUTION/SURVIVAL VALUE  FEEDING/INGESTION  HUMAN ETHOLOGY  LEARNING: - Avoidance - Complex - Discrimination - Habituation/Extinction - Memory - Reinforcement (positive) - Other: _____	PLAY  SELF-MAINTENANCE  SENSORY-MECHANISMS: - Audition - Chemical - Vision - Other: _____
BEHAVIORAL GENETICS	LOCOMOTION  METHODOLOGY: - Data Collection/Analysis - Theoretical Models - Other: _____	SLEEP  SOCIAL BEHAVIOR - Aggression - Dominance - Parental/Filial - Sex and Reproduction - Social Spacing - Other: _____
BIOLOGICAL RHYTHMS	MOTIVATION/EMOTION	MISCELLANEOUS/OTHER: - _____
COMMUNICATION: - Acoustic - Chemical - Visual - Other: _____		
DESCRIPTIVE STUDIES/ NATURAL HISTORY		

ANIMAL GROUP LISTING

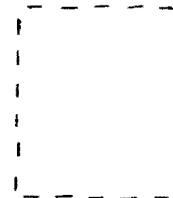
This listing of animal taxa follows the phylum classification used in BIOLOGICAL ABSTRACTS. In the case of the larger groups, Class, Order, and (where appropriate) Superfamily and Family names are also listed, in alphabetical order. Please classify your animal group using this listing.

Protozoa	- Insecta	- Aves	- Chiroptera
Porifera	- Coleoptera	- Anseriformes	- Edentata
Cnidaria	- Diptera	- Apodiformes	- Insectivora
Ctenophora	- Heteroptera	- Apterygiformes	- Lagomorpha
Platyhelminthes	- Homoptera	- Caprimulgiformes	- Leporidae
- Cestoda	- Hymenoptera	- Charadriiformes	- Ochotonidae
- Trematoda	- Isoptera	- Ciconiiformes	- Marsupialia
- Turbellaria	- Lepidoptera	- Columbiformes	- Monotremata
Acanthocephala	- Odonata	- Coraciiformes	- Perissodactyla
Aschelminthes	- Orthoptera	- Cuculiformes	- Equidae
- Nematoda	- Other: _____	- Falconiformes	- Rhinocerotidae
- Rotifera	Chelicerata	- Galliformes	- Tapiridae
Ectoprocta	- Arachnida	- Gaviiformes	- Pholidota
Brachiopoda	- Acarina	- Gruiformes	- Pinnipedia
Mollusca	- Other: _____	- Musophagiformes	- Primates
- Cephalopoda	Echinodermata	- Passeriformes	- Callithricidae
- Gastropoda	- Asteroidea	- Pelecaniformes	- Cebidae
- Pelecypoda	- Crinoidea	- Piciformes	- Cercopithecidae
Sipunculoidea	- Echinoidea	- Podicipediformes	- Hominidae
Annelida	- Holothuroidea	- Procellariiformes	- Indridae
- Hirudinea	- Ophiuroidea	- Rheiformes	- Lemuridae
- Oligochaeta	Chordata	- Sphenisciformes	- Lorisidae
- Polychaeta	- Pisces	- Strigiformes	- Pongidae
Echiuroidea	- Agnatha	- Struthioniformes	- Tarsiidae
Linguatulida	- Chondrichthyes	- Tinamiformes	- Tupaiidae
Tardigrada	- Osteichthyes	- Trogoniformes	- Proboscidea
Arthropoda	Amphibia	- Mammalia	- Rodentia
- Crustacea	- Amphibia	- Artiodactyla	- Castoridae
- Myriapoda	- Apoda	- Bovidae	- Caviidae
	- Caudata	- Camelidae	- Cricetidae
	- Salientia	- Cervidae	- Dasyproctidae
	Reptilia	- Giraffidae	- Dipodidae
	- Chelonia	- Hippopotamidae	- Heteromyidae
	- Crocodylia	- Suidae	- Muridae
	- Sauria	- Tayassuidae	- Sciuridae
	- Serpentes	- Carnivora	- Other: _____
		- Canidae	- Sirenia
		- Felidae	
		- Hyaenidae	
		- Mustelidae	
		- Procyonidae	
		- Ursidae	
		- Viverridae	
		- Cetacea	



SAMPLE FILLED-IN QUESTIONNAIRE

1. UNIVERSITY OF GEORGIA
  2. PSYCHOLOGY
  3. ATHENS, GA 30602
  4. DR. R. K. THOMAS 404/542/2174
  5. 185  
M.S., PH.D.
  6. DR. L. J. PEACOCK
  7. DANIEL Q. ESTEP PH.D. UNIV. OF FLORIDA 1975
  8. ASSOCIATE PROFESSOR 404/542-2174
  9. SEX AND REPRODUCTION: EVOLUTION/SURVIVAL VALUE; SOCIAL BEHAVIOR/DOMINANCE;  
ENDOCRINE/HORMONAL MECHANISMS; APPLIED ETHOLOGY
  10. FUNCTIONS OF COPULATORY PATTERNS; SOCIAL INFLUENCES ON SEXUAL BEHAVIOR; HORMONAL  
INFLUENCES ON FEEDING, HOARDING, AND SEXUAL BEHAVIOR
  11. MACAQUES MAMMALIA: PRIMATES: CERCOPIITHECIDAE  
RODENTS MAMMALIA: RODENTIA: CRICETIDAE, MURIDAE, SCIURIDAE
- 



Dr. Daniel Q. Estep  
Department of Psychology  
University of Georgia  
Athens, GA 30602 U.S.A.

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FOLD

1987 MEETING OF THE ANIMAL BEHAVIOR SOCIETY WITH THE

AMERICAN SOCIETY OF ZOOLOGISTS, AMERICAN MICROSCOPICAL SOCIETY  
THE CRUSTACEAN SOCIETY, INTERNATIONAL ASSOCIATION OF ASTACOLOGY,  
AND SOCIETY OF SYSTEMATIC ZOOLOGY

DECEMBER 27 - 30 HYATT REGENCY HOTEL, NEW ORLEANS, LOUISIANA

SYMPOSIA SPONSORED BY ABS/DAB

KIN RECOGNITION IN ANIMALS: EMPIRICAL EVIDENCE AND CONCEPTUAL ISSUES (organized by Andrew R. Blaustein and Richard H. Porter). All day December 29. Tentative program includes:

- BEAUCHAMP, G., The Role of the Major Histocompatibility Complex in Olfactory Discrimination.  
BEECHER, M., Types of Kin Recognition in Birds.  
BERNSTEIN, I., The Influence of Kinship on the Social Behavior of Non-Human Primates.  
BLAUSTEIN, A., Kin Recognition Behavior in Anuran Amphibian Larvae: Correlations with Ecology and Life History.  
BREED, M. D., The Honey Bee: Kin Recognition in Multiple Contexts.  
DEWSBURY, D., Kin Recognition and Reproductive Behavior.  
FLETCHER, D., Mechanisms of Kin Recognition: A Critical Review.  
GAMBOA, G., Recognition of Nestmate and Non-Nestmate Kin in Social Wasps (*Polistes fuscatus*).  
GREENBERG, L., A Review of Kin Recognition in Sweat Bees.  
LENINGTON, S., The Effect of the T-Complex on Behavior in Wild House Mice.  
PORTER, R., The Ontogeny of Sibling Recognition in rodents: Superfamily Muroidea.  
SCHWAGMEYER, P., Ground Squirrel Kin Recognition Abilities: Social and Life History Correlates.

ADAPTIVE SEX RATIOS AND SEX RATIO THEORIES (organized by Nancy Burley and Patricia A. Gowaty). All day December 30. Tentative program includes:

- BULL, J., Environmental Sex Determination in Reptiles.  
BURLEY, N., Sex Ratios and the Evolution of Mating Systems.  
CONDON, M., Facultative Variation in Plants.  
GOWATY, P. A., Facultative Sex Ratio Variation in Birds--Rare or Rarely Observed?  
HRDY, S. B. and M. SMALL, Factors Affecting the Production and Survival of Sons and Daughters Among Macaques and Other Primates.  
MICHENER, G. R., Female-Biased Adult Sex Ratios in Ground-Dwelling Squirrels.  
SCHULTZ, J. R., Seasonal Sex Ratios--Adaptations or Artifacts.  
TAYLOR, P. D., Inclusive Fitness Models of Sex Allocation.  
TRIVERS, R. L., Sex-Ratio Theory and Female Heterogamety.  
WERREN, J. H., Genetic Conflict and Sex Ratio Evolution.

SYMPOSIUM SPONSORED BY DIVISION OF COMPARATIVE PHYSIOLOGY AND BIOCHEMISTRY (ASZ),  
AND CO-SPONSORED BY ABS/DAB

BEHAVIORAL NEUROMODULATORS: CELLULAR COMPARATIVE AND EVOLUTIONARY PATTERNS (organized by Charles M. Lent and Winsor Watson, III). All day December 27. Tentative topics include:

- CALABRESE, R., Peptides and Leeches.  
GILLETTE, R., Feeding Modulation by Predatory Nudibranchs.  
LENT, C., Amines and Leech Feeding.

HARRIS-WARRICK, R., Amines in Lobster.  
MAYERI, E., Egg Laying Hormone in Aplysia.  
MICHAELIS, S., Protists and Peptide Pheromones.  
O'SHEA, M., Insect Amines and Peptides.  
PRIOR, D., Snail Feeding and Peptides.  
SPENCER, A. N., Amines in Coelenterates.  
SOMBATI, S., Octopamine and Insect Motor Programs.  
WATSON, W. J., III, Peptides in Limulus and Nudibranchs.  
WEEKS, J., Hormones and Insect Behaviors.

SYMPOSIUM SPONSORED BY DIVISION OF INVERTEBRATE ZOOLOGY (ASZ),  
AND CO-SPONSORED BY ABS/DAB

ADAPTIVE COLORATION IN INVERTEBRATES (organized by Mary K. Wicksten). All day  
December 28. Tentative topics include:

WICKSTEN, M., Introduction.  
BEHRENS, D., Adaptive Coloration in Opisthobranch Mollusks.  
BYRON, E., Photoprotection by Pigmentation in Zooplankton.  
CHAI, P., The Relationships Between Visual Characteristics of Butterflies, and  
the Responses of a Specialized Avian Predator.  
GROBER, M., Brittle-star Bioluminescence Functions as an Aposematic Signal to  
Deter Crustacean Predators.  
HANLON, R., Morphological, Neural, Behavioral and Ecological Considerations  
in Adaptive Coloration of Cephalopods.  
KINGSOLVER, J., Evolution of Wing Pigment Patterns in Pierine Butterflies:  
When Are Correlations Among Characters Adaptive?  
SCHMIDT, J., Predators, Environment, and Color: Adaptive Strategies of  
Exposed, Slow-moving, Edible Caterpillars.  
THURMAN, C., Changes in the Physiological Coloration of Texas Fiddler Crabs  
(Uca).  
WATT, W., The Evolution of Animal Coloration--Adaptive Aspects from  
Bioenergetics to Demography.  
ZMARZLY, D., Host Mimicry Among Pontonine Shrimp.

Animal Behavior Division sponsored contributed oral papers are scheduled for all  
day on December 28. Posters may be viewed the morning of December 27.

Abstract and Transmittal Forms and instructions are now available. Deadline for  
submission is August 10. Abstracts will be published in the American Zoologist  
27(4).

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For the following informational items about the New Orleans meeting, send this  
coupon to Mary Adams-Wiley, American Society of Zoologists, Box 2739 California  
Lutheran University, Thousand Oaks, Ca. 91360. ABS members must request these  
materials. They will not be automatically sent to them otherwise.

Name and Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ Brochure detailing New  
Orleans Meeting Plans  
Housing & Registration Forms  
(Available in October)  
Forms to contribute a paper  
(poster/oral presentation)



REVIEWERS FOR ANIMAL BEHAVIOUR

The Editor is grateful for the efforts of several hundred people who have reviewed manuscripts during the past year. To maintain an efficient system, the reviewer files for 1987-88 are being updated. If you fall into one or more of the following categories, please fill out this form and send to the Editor, Charles Snowdon, Dept of Psychology, Univ of Wisconsin, Madison WI 53706.

- \_\_\_\_\_ 1. Have never reviewed for Animal Behaviour
- \_\_\_\_\_ 2. Will have a change of address (note below)
- \_\_\_\_\_ 3. Have changed range of research interests
- \_\_\_\_\_ 4. Will have periods of 4 weeks or more during 1987-88 when manuscripts cannot be reviewed

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone: \_\_\_\_\_

Topics and taxa you are competent to review:

\_\_\_\_\_  
\_\_\_\_\_

Dates when not available for review: \_\_\_\_\_

APPLICATION FOR MEMBERSHIP: ANIMAL BEHAVIOR SOCIETY

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

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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:

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

Terry Christenson  
Dept of Psychology  
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