



NEWSLETTER

Animal Behavior Society

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Stephen M. Shuster, Secretary

A quarterly
publication

Jennifer K. Learned, Editorial Assistant
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Flagstaff, AZ 86011-5640 USA

CANDIDATES FOR 2000 ELECTION OF OFFICERS

The following persons have been nominated as candidates for ABS offices. The election ballot will appear in the November 2000 Newsletter and terms will begin following the annual meeting in 2001.

Second President-elect:

Bennett G. Galef, McMaster University
Robert E. Johnston, Cornell University

Parliamentarian

James H. Benedix, Jr., DePauw University
Linden E. Higgins, Univ. of Massachusetts,
Amherst

Junior Program Officer

Daniel A. Cristol, College of William and Mary
Philip K. Stoddard, Florida International
University

Senior Program Officer

James C. Ha, University of Washington
Michelle Pellissier Scott, Univ. of New Hampshire

Member-at-Large

Molly Morris, Ohio University
Trish Schwagmeyer, University of Oklahoma

Additional nominations may be made by letter to the 1999-2000 Nominating Committee Chair, Meredith West, Department of Psychology, Indiana University, Bloomington, IN 47405, USA. Nominations must be signed by five or more ABS members in good standing (ABS Constitution, Article 8, Section 2) and must be received by October 1, 2000.

Note: Ballots may be cast by email after 1 November 2000. See the November ABS Newsletter for details (posted first at <http://www.animalbehavior.org/ABS/Newsletters/Directory/dir.htm>.)

2001 MEMBERSHIP RENEWALS

Renewal / Status forms for 2001 will be mailed to all active and lapsed members in early September. If you prefer not to wait, you may use the Application/Renewal form on the back of this newsletter or download a form from the ABS web site: <http://www.animalbehavior.org/ABS/Members/>

You can renew online at the ABS website at: <http://www.animalbehavior.org/ABS/Members/>

IMPORTANT NOTICE ABOUT JOURNAL SUBSCRIPTIONS

Due to difficulties in obtaining journal back issues and the increased workloads in both our office and the publisher's caused by the chronic high percentage of late renewals, subscription policy has changed.

Effective immediately, we will no longer order back issues for members who join or renew in mid-year. Instead, journal subscriptions will begin when dues are received and will continue for a 12 month period. Members will receive notice that their subscription is about to expire two months in advance. **If dues are not received by the due date, members will NOT receive the journals they have missed.**

In order to synchronize ABS Membership with journal subscriptions, the same policy will now effect ABS Membership terms. For example, a new membership or late renewal received in October 2000, will initiate ABS Membership and Journal subscription for November 2000-October 2001.

We have set up an auto-renew feature to allow members to have dues automatically deducted from their credit card upon the due date and will make every effort to highlight the importance of on-time renewal.

Steve Ramey, Society Manager

**W. C. ALLEE
BEST STUDENT PAPER 2000**

There were 12 participants in the 2000 Warder Clyde Allee Student Paper Session at Morehouse College. As always, the session was well attended and all the participants gave first-rate presentations. The judges (Michael Beecher, Molly Morris, Ron Rutowski and Bridget Stutchbury) wished they could have given out more than the three allotted awards. The Allee Award Recipient was **Deborah L. Duffy** of Johns Hopkins University, for her paper, "Song Predicts Cell-mediated and Humoral Immunity in European Starlings". She received \$250 from ABS plus \$600 in book awards from the sponsoring publishers (listed below). **Gita Kolluru** of University of California - Riverside and **Lisa Parr** of Emory University received Allee Honorable Mentions and \$425 each in book certificates. Kolluru's paper was entitled "The Conflict Between Natural and Sexual Selection Influences the Mating Signal of the Field Cricket, *Teleogryllus oceanicus*"; Parr's paper was entitled, "Matching-to-Meaning: Emotional Awareness in Chimpanzees". Book awards were generously provided by Academic Press, Oxford University Press, Princeton University Press, Sinauer Associates and the University of Chicago Press.

**THE JOHN PAUL SCOTT FOUNDERS'
POSTER COMPETITION 2000**

The annual award for best poster was named this year in honor of John Paul Scott, who died on March 26. Scott was one of the founders of the Animal Behavior Society. Ten posters entered the competition and the John Paul Scott Founders' Poster Award 2000 went to **Heather E. Heying**, University of Michigan for, "Parental Care and Sexual Selection in Madagascan Poison Frogs". Honorable Mention went to **Kathryn E. Gardner** and **Robin L. Foster** from the University of Puget Sound for "Specialization in Thermoregulation in Bumble Bees". Patricia Adair Gowaty, University of Georgia chaired the committee of competition judges, who included Frans de Waal, Living Links Center, Emory University; Verner P. Bingman and Robert Huber, both faculty at the J. P. Scott Center for Neuroscience, Mind, and Behavior, at Bowling Green University.

NOTICE!

Issues of the ABS Newsletter are published *first* on the ABS Webpage. Hardcopies of the Newsletter are delivered by mail and may take weeks to arrive. To get ABS news *fast*, point your browser to: <http://www.animalbehavior.org/ABS/Newsletters/Directory/dir.htm>

DIRECTION OF CORRESPONDENCE

ABS Newsletter and general correspondence concerning the Society: Stephen M. Shuster, Department of Biological Sciences, Northern Arizona University, Flagstaff, AZ 86011-5640, USA. stephen.shuster@nau.edu. Deadlines are the 15th of the month preceding each Newsletter. However, the next deadline is **1 October 2000**. Articles submitted by members of the Society and judged by the Secretary to be appropriate are occasionally published in the ABS newsletter. The publication of such material does not imply ABS endorsement of the opinions expressed by contributors.

Animal Behavior Society Web Site:
<http://www.animalbehavior.org/>

Animal Behaviour, manuscripts and editorial matters: Animal Behavior Editorial Office, Indiana University, 2611 East 10th St., Office 170, Bloomington, IN 47408-2603, USA. Email: aboffice@indiana.edu, Phone (812) 856-5541. Fax (812) 856-5542.

Change of Address, missing or defective issues: Animal Behavior Society, Indiana University, 2611 East 10th St., Office 170, Bloomington, IN 47408-2603, USA. Email: aboffice@indiana.edu, Phone (812) 856-5541. Fax (812) 856-5542.

ABS OFFICERS

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NEW INVESTIGATOR AWARD

Greg Grether, University of California, Los Angeles, was awarded the New Investigator Award for 2000 for his important work on natural and sexual selection. This award will be presented at the 2001 ABS meeting in Corvallis, OR.

DISTINGUISHED ANIMAL BEHAVIORIST

Nicholas Collias received the 2000 Distinguished Animal Behaviorist Award for his seminal contributions to the field of animal behavior. He has explored behavior at all levels, and has made substantial contributions to the profession through his teaching and writing, as well as through his service contributions to the Animal Behavior Society and other organizations associated with the study of animal behavior.

EXEMPLAR AWARD

Marc Bekoff, University of Colorado, was awarded The Exemplar Award for 2000 for his ongoing work in behavioral ecology and social biology including social behavior and social organization, evolution and development, communication, and antipredatory behavior. This award will be presented at the 2001 ABS meeting in Corvallis, OR.

2000 WILLIAM C. BROWN ANIMAL BEHAVIOR TEACHING AWARD

Presentation of the William C. Brown Animal Behavior Teaching Award was made to **Gail C. Michener** of the University of Lethbridge, on August 9, 2000 at the annual meeting of the Animal Behavior Society at Morehouse College, Atlanta, GA. The award, made possible by the generosity of McGraw-Hill Publishers, consists of a plaque honoring the recipient plus \$1000, half a personal award to the awardee and half a grant to be used by the awardee to further advance the effective teaching of animal behavior at the awardee's institution. Dr. Michener was recognized for sustained and distinguished contributions in teaching animal behavior to undergraduates.

NEW ABS FELLOWS

Congratulations to the newly elected Fellows of the Animal Behavior Society. The new Fellows are **Trish Schwagmeyer**, University of Oklahoma, and **Robert Gibson**, University of California, Los Angeles. The complete list of ABS Fellows is available at <http://www.animalbehavior.org/ABS/Members/>

2000 ABS FILM COMPETITION

The 17th annual Film Festival was held at this year's meetings at Morehouse College. The winner of the ABS Film Award for the best commercial film was: "The Tale of the Tides: The Hyaena and the Mudskipper," producers and photographers: Mark Deeble and Victoria Stone, a Survival Anglia and National Geographic production, 1998. The entry for the Jack Ward Memorial Film Competition (non-commercial category) was awarded a semifinalist certificate. This video, Field Work in Meru '99 or In the Name of the Naked Mole Rat, was produced by Rosie Koch. We also wish to acknowledge the efforts of this year's judges: Daniel Albrecht, Sacred Heart University; MarthaLeah Chaiken, Hofstra University; Todd Freeberg, Purdue University; Neil Mercado, Penn State, Abington College; Chair Renee Robinette, University of Washington; Kim Sawrey, UNC-North Carolina; George Waring, Southern Illinois University.

This year the new film catalog will be posted on the ABS web site. You can help us identify good quality, "tried and true" films covering any topic that would be relevant to the field of animal behavior. We are asking members to submit the names of films or videos that they find useful in their teaching or research. Please include the following information

about each film/video: title, year, length in minutes, color or b&w, format (16mm, 1/2"VHS, etc), source, and a short (several sentences) synopsis. These titles will be added to the film catalog. Please contact anyone on the film committee.

CALL FOR APPLICATIONS ABS Student Research Grants

The ABS Research Grants Committee announces the 2001 competition for funds in support of student research. Only student members of ABS (who must be an active member on the application deadline) enrolled in graduate programs are eligible to apply. Recipients of past research awards are ineligible. A total of \$15,000 (US) will be available to support ten students at a level of no more than \$1000 each and an additional ten students for up to \$500 each.

The DEADLINE for receipt of completed applications is **January 24, 2001**. Late applications will not be accepted. Applications will be reviewed by two or three referees and applicants will be notified of the results by April 1, 2001. The preferred method for receiving and submitting applications is through <http://www.animalbehavior.org/ABS/Grants>. Information regarding the submission of special files (e.g. figures) is available on that site. For those preferring to submit their application directly electronically or as an electronic attachment contact Dr. James Ha at jcha@u.washington.edu.

CALL FOR APPLICATIONS Developing Nations Research Grant

The Animal Behavior Society announces the fourth annual Developing Nations Research Grant (DNRG) program. Two grants of up to \$700 (US) will be awarded to provide financial support for scientific studies of animal behavior conducted by students or more established members of the Animal Behavior Society (ABS). Only current members of the Animal Behavior Society (i.e. must be an active member on the application deadline) residing in developing nations are eligible (the following are **not** considered developing nations: United States, Canada, Israel, Japan, Australia, New Zealand, Iceland, Norway, Sweden, Finland, Denmark, Germany, The Netherlands, Belgium, Luxembourg, France, United Kingdom, Ireland, Switzerland, Austria, Italy, Spain, and Portugal). Active student members of the ABS may apply separately for the Student Research Grants Competition, but no one may receive more than one Developing Nations or Student Research Grant in a lifetime. Student DNRG applicants must be enrolled at an institution in a developing nation.

The DEADLINE for receipt of completed applications is 10 JANUARY 2001. All applications must be submitted in English. Applications will be reviewed by two or three referees and funded projects will be announced by 1 APRIL 2001. The preferred method for acquiring application materials is through <http://www.animalbehavior.org/ABS/Grants/>. Paper versions can be downloaded from this WWW address, or are available upon request from the address below. Applications can be submitted via e-mail to sadamo@is.dal.ca or in paper form to: Shelley Adamo, Department of Psychology, Dalhousie Univ., Halifax, NS B3H 4J1, Canada. Questions about the competition should be directed to Dr. Adamo at these addresses.

2001 WARDER CLYDE ALLEE COMPETITION

The Warder Clyde Allee Competition for Best Student Paper will take place at the 2001 Annual Meeting at Oregon State University, Corvallis, OR, 16-20 June 2001. All eligible students are encouraged to participate.

Eligibility requirements: Any independent student research (including, but not limited to, the doctoral dissertation) most of which is unpublished at the time of submission for the session is eligible. The work presented may be part of a larger collaborative effort, but the student should have the principal responsibility for the conceptualization and design of the research, collection and analysis of data and interpretation of results. Only single-authored papers are eligible. Entrants cannot have completed defense of the doctoral dissertation before the preceding ABS annual meeting (August 2000) and an individual can enter the Allee Competition only once per lifetime.

To enter: Students must indicate their desire to be considered for the competition by checking the appropriate box on the abstract submittal form for the annual meeting, submit a written version of their paper which includes their addresses, telephone numbers and e-mail addresses, fill out a signed and dated form indicating that they meet all eligibility requirements (to be supplied to entrants after receipt of their written papers), present a spoken version during the 2001 Annual Meeting, attend both the Allee welcoming dinner on the evening before the competition day, and attend the banquet during the Annual Meeting. The spoken portion of the competition is limited to 18 students. If more than 18 students enter, the Allee Judges will select the best 18 submitted papers for the spoken paper session and further eligibility. Four (4) copies of a written version of no more than 7 double-spaced text pages and no

more than a total of 4 tables and/or figures (this limit does not include abstract, references or acknowledgments) must be received by Dr. Anne B. Clark, ABS Allee Competition Chair, Department of Biological Sciences and Center for Developmental Psychobiology Binghamton University (SUNY), PO Box 6000, Binghamton, NY, 13902-6000 USA by the due date for submission of abstracts for the annual meeting. THOSE INTERESTED IN THE COMPETITION SHOULD BE SURE TO CHECK THE DEADLINE DATE FOR ABSTRACT SUBMISSIONS FOR PAPERS AT THE ANNUAL MEETING. If significant new results arise after submission, students may submit a one page addendum to their papers up to 30 days before the first day of the Annual Meeting. Questions should be addressed to Anne Clark (e-mail: E-mail: aclark@binghamton.edu).

ABS AUTHORS

If you have written or edited a book pertinent to animal behavior which was published in 2000 or will have a book coming out in 2001, please send the citation and a brief synopsis of its contents to Dr. Linda Rayor, Chair, ABS Public Affairs Committee Department of Entomology, Cornell University, Ithaca, NY 14853, lsr1@cornell.edu.

ABSnet
**THE ELECTRONIC MAIL NETWORK OF
THE ANIMAL BEHAVIOR SOCIETY**

ABSnet provides a fast electronic forum for animal behaviorists, and others interested in the study of animal behavior, in a digest or newsletter form. ABSnet provides job announcements, requests-for-information, computer-related news (eg. virus and bug alerts), appropriate software and hardware reviews, and news of Society activities and business. ABSnet is not an interactive, listserv-type discussion group but rather a moderated forum for the exchange of information of interest to animal behaviorists. The digest or newsletter does not replace the official Society hardcopy newsletter sent to all Society members via regular mail. Questions? Let me know! James C. Ha , University of Washington jcha@u.washington.edu.

TO SUBSCRIBE TO ABSnet: Send an email message to: cisab@gila.cisab.indiana.edu. Leave the subject blank. In the body of the message, place the words: subscribe absnet

ARTICLES

WRITING A SUCCESSFUL NSF ANIMAL BEHAVIOR PROPOSAL

John A. Byers

NSF Animal Behavior Program Officer

Penny Kukuk

Former NSF Animal Behavior Program Officer

In the fiscal year 2000, the Animal Behavior Program at NSF has a budget that permits about 17% of proposals to be funded. Funding rates in the future may improve a bit, but it is likely that competition will remain keen. Based on our experiences serving as Program Officers (POs, = Program Directors) for the Animal Behavior Program at NSF, we wrote this essay to describe the process by which proposals are reviewed and evaluated for funding, and to describe the characteristics of successful proposals.

The Review Process

When proposals come to the BIO Directorate, they first go to a room where POs from the Division of Integrative Biology and Neuroscience (home of the Animal Behavior Program), the Division of Environmental Biology (home of the Population Biology and Ecology Programs), and the Division of Molecular and Cellular Biosciences look at them and assign them to programs. Each proposal must be seen by three POs who must agree on its assignment. The assignment is based on the content of the proposals. With just a few exceptions, proposals are assigned to the program suggested by the PI on the cover sheet. At this time and shortly thereafter, POs make arrangements with each other to co-review some proposals. A co-reviewed proposal goes through the review process in each Program, but one Program retains primary responsibility for tracking the proposal and for communicating with the PI.

After a proposal is assigned to a program, the PO sends it out for mail review, typically to about six reviewers. The PO then chooses a panel of 12-15 scientists that comprises the expertise needed to review the proposals. The PO assigns each proposal to three panelists: a primary reviewer, a secondary reviewer, and a reader, and sends proposal copies to them. The panelists usually receive copies of the proposals to which they are assigned about 4-6 weeks before the panel meeting at the NSF. During a panel meeting, each proposal is discussed. First, the primary reviewer presents the basic thrust of the proposal, summarizes the mail reviews, and gives his or her own evaluation. The secondary reviewer then adds and elaborates as appropriate, and the reader does likewise. The primary reviewer then suggests a category assignment (currently in the Animal

Behavior Program, these are Outstanding, Fund if Funds Available, Not Ready, Decline). Discussion among the assigned reviewers and sometimes other panelists may change a proposal's assignment up or down. The primary reviewer then writes a draft panel summary. It is reviewed by the other two assigned reviewers and the final version is signed by all three.

At the NSF, panel recommendations are advisory to the PO. The PO reads each proposal, reads the reviews and the panel summary, and consults notes made during panel discussion. Panel reviews and mail reviews almost always concur. The PO then makes a decision to fund or to decline, and if to fund, at what amount. Although the panel recommendations are advisory, the PO has chosen the panel and thus is likely to take their recommendations seriously. It is improbable that a PO will decide to fund a proposal that was ranked as Decline or Not Ready. A proposal has some chance of being funded if it is ranked as Fund if Funds Available, and a better chance if it is ranked as Outstanding.

Characteristics of a Successful Proposal

Successful proposals usually share several characteristics. First, and most importantly, successful proposals start with a clearly stated question that is important within the field of Animal Behavior, and which also clearly connects in some way to the rest of biology. A proposal that asks a significant question but has flawed methods usually is ranked more highly than a proposal with perfect methods that asks a mundane or trivial question. A proposal that seeks to develop an understanding of a particular system may be elegant in experimental design and reductionist logic, but if it does not state the larger significance of the work, it is unlikely to be rated highly. This part of proposal writing is unquestionably the most difficult and the part that requires the most creativity. The statement of the research question is the main selling point of the proposal and is the great dividing point that separates most proposals into fundable versus not fundable categories. One of the most common mistakes PIs make is to propose research that is centered on an issue that is important to a particular species rather than a question of general interest over a wide array of animal groups. It is important, however, that the study system (species and context) be appropriate to answer the central research question. This should be well documented in the proposal.

The second characteristic of successful proposals is the clear presentation of hypotheses that will answer the research question. These hypotheses provide reviewers with the information they need to decide whether the actual research proposed would indeed

address the central question. Reviewers will also be able to ascertain from your hypotheses whether or not you are planning to interpret your results correctly. It also helps to have a short explanation somewhere in the proposal that clearly spells out what interpretations you would make given alternative outcomes from your proposed work. The second major dividing point occurs here. If the PI states that support of hypothesis 1 will mean that the answer to the research question is "yes," but reviewers see that an equally plausible interpretation is "no," the proposal likely will be declined.

A subsidiary, but important, point of evaluation is the consideration of specific methods. Reviewers should be able to see, without significant effort, what data will be collected to test which hypotheses. How the data will be collected, and the anticipated sample sizes, should be clear. Reviewers should never have to search to find which data will be collected to test which hypotheses. Some proposals that state good questions but which have flawed methods are funded, especially when the flaws can be fixed in response to reviews.

Be sure to review the literature thoroughly and fairly, giving credit where credit is due. Present enough preliminary data to convince reviewers that you know what you are doing and that you are capable of doing the work well. This is especially important if you are proposing to use a technique that you have not used before. Don't shoot yourself in the foot by submitting a proposal that does not conform to font size and margin rules, or that contains grammatical or spelling errors. These things color a reviewer's perception of your abilities.

The proposal must be well organized. It is helpful to have clear subheadings in the introduction and methods and for them to appear in the same order in both sections. It is helpful if you include a section describing how you would statistically analyze and interpret possible results.

Use the Fastlane system to suggest reviewers and to request that some persons not be used as reviewers. The Program Officer appreciates and uses these suggestions.

Be persistent. Most funded proposals represent the second, or third, or fourth revision of previously rejected attempts. In your revised proposal, write a reply to the previous reviews, in which you explain how you have changed (or why you have not changed) your proposal in response to criticisms. Make it clear that you have thought about and responded to the comments of reviewers and panelists.

NOTICE!

For additional information on funding sources see
<http://www.animalbehavior.org/ABS/Future/>

MEETINGS

**ANIMAL BEHAVIOR SOCIETY
ANNUAL MEETINGS**

2001: 16-20 July at Oregon State University,
Corvallis, OR.

2002: July 13-18 at Indiana University,
Bloomington, IN.

Watch the ABS website for details.

**THE XXVII INTERNATIONAL
ETHOLOGICAL CONGRESS
At Tuebingen**

On behalf of the International Council of Ethologists and the Ethologische Gesellschaft e.V. we cordially invite you to attend and participate in the 27th International Ethological Conference to be held on August 22-29, 2001, in Tuebingen, Germany. The conference venue will be at the "Hoersaalzentrum", next door to the Institutes of Natural Sciences including the Biology Center. Modern lecture halls of different sizes are available.

Tuebingen is one of the prettiest cities in southwestern Germany, in the state of Baden-Wuerttemberg. This community of about 85,000 is located 40 km south of Stuttgart, the state capital. It has been a college town since 1477, when the University of Tuebingen was founded, and has produced such luminaries as the astronomer Johannes Kepler and the philosopher Georg Hegel. Steep, winding streets rise up from the banks of the river Neckar to the "Am Markt", the square that is at the center of the old quarter. The town has numerous half-timbered buildings; one of them, the Kornhaus, now contains exhibits on the city's history and artifacts on printing and publishing. Among its sights are the city hall and the 15th-century Stiftskirche; the choir, noted for its late-Gothic vaulting and ornate tracery, was probably built around 1470. The castle Hohentuebingen, above the city, has an outer gate built 1606; the present building dates from the early 16th century and rests on a site of a castle dating from the 11th century.

It is our intention to bring together the various branches of ethology and related disciplines to enhance communication between conference participants. Therefore, the conference is open to all

ethologists and scientists working in related fields. Main topics will be represented by six plenary sessions (twelve plenary speakers) and by corresponding sessions with contributed spoken and poster papers. Of course there will be ample room for other and more general topics. Symposia and roundtable discussions on hot topics will supplement the program.

For registration and further information please visit:
<http://homepages.uni-tuebingen.de/ethology01>.

In order to facilitate communication among participants and organizers of the meeting and the sending of information, the organizers call on all potential participants to use electronic mail, whenever feasible. The e-mail address for all queries and requests is: ethology01@uni-tuebingen.de

To lower the work load of the participants and organizers, future circulars will also be sent by electronic mail to those participants who request this option.

Postal Address for Correspondence: XXVII IEC Raimund Apfelbach, Universitaet Tuebingen, Zoologisches Institut / Tierphysiologie, Auf der Morgenstelle 28, D-72076 Tuebingen Germany, Phone: ++49-7071-2972624, Fax: ++49-7071-294634. If you would like to organize a Symposium or a Workshop send your proposed title to: XXVII International Ethological Conference, Raimund Apfelbach, Chairman, c/o University of Tuebingen, Dept. of Zoology / Animal Physiology, Auf der Morgenstelle 28, 72076 Tuebingen, Germany, Phone: 0049-7071-2972624, FAX: 0049-7071-294634

A WORKSHOP IN ETHOLOGY AND CONSERVATION will be held at the International School of Ethology in Erice, Sicily, 4-7 November, 2000. Ethology and ecology interact with economics, politics and sociology to affect conservation of biodiversity and wildlife management. By bringing together researchers with widely different backgrounds, we will compare European and North American policies and approaches to problems in wildlife conservation. Established researchers will demonstrate how knowledge of animal behaviour can be used in different areas of research and policy-making in conservation biology and wildlife management. Topics will include predation, migration, feeding behaviour, mating systems, social organization, population dynamics and modeling, population genetics, habitat fragmentation, hunting, and "non-consumptive" uses of wildlife. Lectures will be followed by plenary discussions and debates, with ample opportunity for informal discussions. Speakers

include Marco Apollonio, Emilio Baldaccini, Joel Berger, Isabelle Côté, André Desrochers, Steve Dobson, Marco Festa-Bianchet, Jean-Michel Gaillard, Morris Gosling, Jack Hogg, Norman Owen-Smith, David Shackleton and Rosie Woodroffe. Persons wishing to attend the Workshop should write to: Prof. Danilo Mainardi, Dipartimento Scienze Ambientali, Università di Venezia, Campo della Celestia 2737/B, Castello, 30122 Venice, Italy, e-mail: mainardi@unive.it. There is no formal application form. Applicants should include a full Curriculum Vitae with their letter of application. We particularly welcome applications from graduate students, postdoctoral fellows and persons working in conservation and wildlife management for governments and for NGOs. Deadline for applications is 15 September 2000. The cost will be approximately US\$ 500, including lectures, room, board, field trip and transport to and from the Palermo airport. A 50% discount is available for full-time students. More detailed information, including timetable of lectures, will be sent to successful applicants with the letter of acceptance.

THE NINTH INTERNATIONAL CONFERENCE ON HUMAN-ANIMAL INTERACTIONS will take place in Rio de Janeiro, Brazil, on 13–15 September 2001, hosted by ARCA Brasil and AFIRAC-France on behalf of IAHAIO, the International Association of Human-Animal Interaction Organizations. This is the first such conference to take place in South America and presentations are expected to examine all aspects of our relationships with animals including: historical, cultural, cross-cultural, demographic, public health, veterinary, therapeutic, psychological, sociological and ethological. Plenary talks by acknowledged experts from around the world will be "state of the art" messages from various fields but all related to the main topic of the conference. Satellite meetings will be scheduled on the two days prior to the main conference. The goals of the conference are 1) to assess our relationships with animals for the 21st century, putting cultural differences and regional aspects into a global perspective; 2) to bring together scientists and practitioners from around the world interested in all aspects of human-animal interactions; 3) to present research and programs about the benefits of interactions with animals to human wellbeing and in therapeutic interventions; 4) to present research and programs about relationships with companion animals and solutions to issues associated with their keeping or issues associated with stray animals, and 5) to encourage and assist policy makers at the international, national and regional level to better recognize the need to integrate animals in society. Target audiences: Researchers and

practitioners in all areas of human-animal relations; Human and animal health and welfare specialists; Policy makers, advisers and educators involved with human and/or animal health and welfare; the media. The program committee will consider scholarly contributions in one of two categories: oral contributed papers (15 minute talks) and posters — with program time reserved for viewing and discussion with the authors. Both presentation formats are of equal value. In addition, limited space will be available for seminars/workshops on specific topics. Space will also be allocated to approved sponsors and exhibitors.

Abstracts are due no later than 1 March 2001. To receive further conference information in due course, including the call for papers and the registration package, send Title, name, address (include country), telephone, fax number & e-mail address, Occupation/Profession to 9TH International Conference on Human-Animal Interactions, Conference Secretariat: AFIRAC, 32 rue de Trévis, 75009 Paris, France, Tel. +33 1 56 03 12 00, Fax: +33 1 56 03 13 60, email: rio2001@i-et-e.fr

TASP - CALL FOR PAPERS - The Association for the Study of Play (TASP) will meet at the Hampton Inn, San Diego, California, February 21-25, 2001, in conjunction with the Society for Cross-Cultural Research (SCCR). Contact: L. Diane Parham, TASP Program Chair, Department of Occupational Science, University of Southern California, 1540 Alcazar Street, CHP 133, Los Angeles, CA 90089, phone: 323-442-2879, fax: 323-442- 1540, e-mail: Lparham@hsc.usc.edu.

TASP is a multidisciplinary organization, whose purposes are to promote the study of play, to support and cooperate with other organizations having similar purposes, and to organize meetings and publications that facilitate the sharing and dissemination of information related to the study of play. Its broad focus includes anthropology, education, psychology, sociology, history, folklore, ethology, communication, the arts and humanities, playground design, kinesiology, health sciences, philosophy, and cultural studies.

SCCR is a multidisciplinary association of behavioral scientists, whose purpose is to support and encourage interdisciplinary, comparative research that has as its objective the establishment of scientifically derived generalizations about human behavior. Its membership encompasses the anthropological, psychological, and social sciences.

OPPORTUNITIES

The Secretary reminds you that a time lag exists between my receipt of advertisements and the publication of the Newsletter. Positions listed here may already be filled. Please contact those offering opportunities before applying.

ANIMAL BEHAVIOR- UNIVERSITY OF PENNSYLVANIA - The Department of Psychology at the University of Pennsylvania hopes to hire a tenure track Assistant Professor in the area of animal behavior. We are particularly interested in individuals addressing fundamental issues in the evolution of social behavior, behavioral ecology, cognition, or communication in natural populations of animals. The successful applicant must show evidence of a vigorous research program, promise of leadership in his or her field, undergraduate and graduate education. Teaching will include contributions to Penn's undergraduate programs in Psychology and the Biological Basis of Behavior. Please provide a CV including a statement of research interests, a description of teaching interests and experience, up to three recent publications, and three letters of reference to Animal Behavior Search, Department of Psychology, 3815 Walnut St., Philadelphia, PA 19104. Applications will begin to be reviewed on October 1. The University of Pennsylvania is an Equal Opportunity/Affirmative Action employer.

The University of Pennsylvania has a lively urban campus just across the Schuylkill River from the center of Philadelphia, and the resources of this city contribute greatly to the University's character. Philadelphia is rich in cultural attractions, has many pleasant, affordable residential areas, and is served by an excellent public transportation system that allows easy travel to New York, Boston, Washington, and many other destinations.

The Department of Psychology is strongly committed to research in animal behavior. Current faculty include John Crawford (animal communication and neuroethology); Lori Flanagan-Cato (behavioral neuroendocrinology); Harvey Grill (neural control of ingestive behavior); Laura Peoples (neurobiology of drug addiction), Robert Rescorla (elementary learning processes, particularly Pavlovian conditioning and instrumental learning); and Robert Seyfarth (animal communication and cognition). Psychology faculty also interact closely with colleagues in the Department of Biology, where there is an active ecology and evolution graduate program. Faculty include Dorothy Cheney (animal communication and cognition); Art Dunham (lizard behavior and

ecology), Daniel Janzen (tropical animal-plant interactions), Peter Petraitis (marine ecology, theoretical ecology), and Paul Sniewgowski (population and evolutionary genetics). Other colleagues in Biology include Ted Abel (molecular basis of learning and memory); and Marc Schmidt (neural basis of song learning in birds). Prospective graduate students may apply for admission to either Psychology or Biology. At the undergraduate level, Psychology and Biology are two of Penn's most popular majors. A third, interdisciplinary major, the Biological Basis of Behavior, also attracts a large number of students. Although the University is located in an urban area, several sites within 30-90 minutes of campus offer superb research opportunities for the field ethologist. These include the Tyler Arboretum and Ridley Creek State Park (3,300 acres), French Creek State Park, Hawk Mountain Sanctuary, and the extensive woodlands, grasslands, and barrens managed by the Natural Lands Trust. The city of Philadelphia also includes Fairmont Park, one of the largest urban parks in the world, and the John Heinz National Wildlife Refuge, the only such refuge in the United States dedicated specifically to urban education. For further details about the Psychology Department, the University of Pennsylvania, and related sites within the University, visit: <http://www.psych.upenn.edu>.

ANIMAL BEHAVIORIST, UNIVERSITY OF CALIFORNIA, DAVIS -- The Division of Biological Sciences, University of California, Davis invites applications and nominations for a position in the Section of Evolution and Ecology at the tenure-track ASSISTANT PROFESSOR level. Candidates must have a Ph.D. (or equivalent) in the biological sciences or related fields, and are expected to have a strong record of empirical research in animal behavior, within the context of evolution or ecology. Special consideration will be given to research programs in which approaches, techniques and insights from animal behavior are applied to problems in ecology or evolutionary biology. Teaching responsibilities may include an undergraduate course in introductory biology, evolution, or ecology, and specialized courses in animal behavior.

Applicants should send (1) a curriculum vitae, (2) copies of no more than five published and in-press papers, (3) a description of current and projected research, and (4) a summary of teaching interests and experience, and have three letters of recommendation sent to: Judy Stamps, Chair, Animal Behavior Search Committee, Section of Evolution and Ecology, University of California, One Shields Avenue, Davis, CA 95616-8755. Closing Date: Open until filled, but all application materials, including letters of

recommendation, must be received before September 15, 2000 to assure full consideration. *The University of California is an Equal Opportunity/Affirmative Action Employer with a strong institutional commitment to the development of a climate that supports equality of opportunity and respect for differences.*

SENIOR SCIENTIST - The Humane Society of the U. S. seeks a Sr. Scientist for its Wildlife & Habitat Protection section. Responsibilities include influencing policy on urban wildlife management and endangered species, providing scientific consultation and promoting use of humane techniques for solving conflicts w/ wildlife. Qualifications include Ph.D. in wildlife biology/zoology, exp. in wildlife and habitat protection, w/knowledge of related laws & policies, good communication skills incl. public speaking and writing for diverse audiences, and experience influencing government policy. Salary high \$30k's plus excellent benefits. Send cover letter w/ resume to The HSUS, Attn: HR/SS, 700 Professional Drive, Gaithersburg, MD 20879; Fax: (301) 548-7767; e-mail: hsushr@hsus.org.

STUDENT SCHOLARSHIPS AVAILABLE FOR BAT CONSERVATION RESEARCH

Bat Conservation International hereby announces the availability of student research scholarships. Approximately 15 grants ranging from \$500 to \$2,500 will be made in 2001. Grants will go to research that best helps document roosting and feeding habitat requirements of bats, their ecological or economic roles, or their conservation needs. Students enrolled in any college or university worldwide are eligible to apply. Projects must have bat conservation relevance. The application deadline for 2001 scholarships is 15 December 2000.

Application information and forms are available at: <http://www.batcon.org/schol/schol.html> or write to Bat Conservation International, Student Scholarship Program, P.O. Box 162603, Austin, TX 78716 or email: aengland@batcon.org

HEALTH AND HUMAN SERVICES - Division: Public Health - Animal Services; Position Title: Animal Behaviorist; Class Code: 10598; Primary Tasks: Assess the behavior/temperament of sheltered animals and makes recommendations for appropriate placement/euthanasia and classification; Train shelter staff and volunteers on animal behavior, animal handling; Coordinate training sessions/classes with community dog obedience trainers for adopted animals when appropriate; Prepare informational materials for public dissemination regarding animal behavior issues; Develop and / or modify in-house

procedures. Additional Information: Prefer experience working in an animal shelter/kennel environment; knowledge of the causes of aggressive behavior in dogs and cats and knowledge of the risk factors for animal bites. Minimum Qualifications: Bachelor of Science degree in Animal Behavior and five years experience in dog and cat behavior OR a Master's degree in Animal Behavior or Certification in Animal Behavior and three years of dog and cat behavior. Salary commensurate with experience; position open until filled; Location: 1156 Cesar Chavez, Townlake Animal Center; Position Number(s): 111105; Submit application/resume to: Marsha Wehmeyer 2100 E. St. Elmo Austin, TX 78744 512-707-3261 office 512-707-5403 FAX; marsha.wehmeyer@ci.austin.tx.us

RESEARCH EXPERIENCE FOR UNDERGRADUATES IN NEUROBIOLOGY AND BEHAVIOR

- Applications are now being accepted for the Northern Arizona University REU Program in Neurobiology and Behavior, Summer 2001. Since 1992, this NSF-sponsored program has provided hands-on research experience in faculty research laboratories for undergraduates from backgrounds that are under-represented among professional scientists. We intend for this experience to increase the likelihood that students attend graduate school in science and pursue scientific careers, particularly in the behavioral sciences. Application materials and information are available at <http://jan.ucc.nau.edu/~shuster>, or by contacting Stephen M. Shuster, Department of Biological Sciences, Northern Arizona University, Flagstaff, AZ 86011-5640, USA. Email: stephen.shuster@nau.edu

FIELD ASSISTANTS NEEDED FOR RADIOTRACKING TASMANIAN DEVILS:

Enthusiastic volunteer field assistants are needed from early November to mid-December 2000 and from mid-February to late March 2001 for a study of mating strategies in Tasmanian devils. The study is located at Freycinet National Park on the east coast of Tasmania, Australia, a peninsula with mostly open, dry eucalypt forest. Assistants are required to arrange travel to the field site; food and lodging will be provided at the site. Assistants will primarily be radiotracking at night from fixed towers (involves camping on hilltops) or from a vehicle. The 2000 trip will also involve finding dens by radiolocation during the day (involving off-track bushwalking). Assistants will need to have a high level of physical fitness; experience in off-track bushwalking including good bush navigation skills; willingness and ability to function at night and in all weather conditions; and own bushwalking equipment (e.g. tent, stove). The 2001 trip, in particular, will be demanding as we will

be attempting to keep constant track of a large number of adult males and females during the mating season. Please contact Dr. Menna Jones (Division of Botany and Zoology, Australian National University, Canberra) by email menna.jones@anu.edu.au.

VOLUNTEER FIELD ASSISTANTS needed for long-term research on the behavioral ecology of Utah prairie dogs. Topics of research include multiple paternity, alarm calling, infanticide, communal nursing, levels of inbreeding, demography, and population dynamics. Study colony is in Bryce Canyon National Park, Utah. Field season starts 05 March and ends 10 July. Academic credit is possible, and several previous field assistants have applied research towards either senior thesis or Master's degree. Please contact John L. Hoogland, The University of Maryland, Appalachian Laboratory, Frostburg, Maryland. Telephone: 301-689-7130 (work) or 301-689-8076 (home). FAX: 301-689-7200; E-mail: hoogland@al.umces.edu

ANNOUNCEMENTS

CALL FOR PUBLICATION OF NEW METHODOLOGIES IN THE STUDY OF ANIMAL BEHAVIOR The Animal Behavior Society recognizes that there are many exciting new techniques (e.g., bioinformatics, brain imaging, voice-activated data gathering, robotics) that can potentially broadly affect our field. To facilitate the disbursement of this information we have decided to expand the publication of new methodologies that can be used in any aspect of the study of behavior. I urge all members to share their expertise by publishing a description of cutting-edge techniques in one of two forms: (1) As a paper in *Animal Behaviour*. These contributions would be reviewed (as all are) and, as such, would most likely be accepted if they included a 'novel database' or a truly outstanding new application. We hope to publish 1 to 2 such manuscripts per year. (2) As an announcement in a new section of this newsletter. These contributions would be reviewed by the *Animal Behaviour* executive editor (currently me). The format of the latter contributions would be very short (0.5 to 1 page) communications. At present, we will leave the exact specifications of these manuscripts up to the authors. The rapid advance of computer technology has provided a staggering number of techniques that could well be the backbone of behavioral studies in the future. The need for rapid disbursement of this information was identified as an important goal in a recent summit on the future of the Animal Behavior Society. We are optimistic that our membership will take up this challenge. Manuscripts for *Animal Behaviour* are to be sent to the editorial office (see

any issue of *Animal Behaviour* for details). Articles for the newsletter can be sent to Jeffrey R. Lucas, Executive Editor, *Animal Behaviour* Department of Biological Sciences Purdue University West Lafayette, IN 47907-1392 or e-mailed to behavior@bilbo.bio.purdue.edu.

JEFF LUCAS THANKS JEFF GALEF, ET AL.

I would like to take this opportunity to thank B.G. (a.k.a. Jeff) Galef for his outstanding work over the past 3 years as executive editor of *Animal Behaviour*. I would also like to let the society know that Jeff's actions as executive editor have helped us in a variety of ways, and probably much of what he accomplished is unknown to the society at large. Our journal has benefited broadly from Jeff's fair mindedness and determination. In addition to what is expected of an executive editor, Jeff negotiated to replace the old red-on-blue front page with a much more appealing cover, worked hard to ensure that our manuscripts are treated equally with those of our British counterparts (ASAB), and reduced the submit-to-publish interval. Jeff was also a central figure in renegotiating our contract with ASAB and Academic Press. The results of these negotiations eventually put ABS in the best fiscal position we have ever enjoyed. While Jeff was not alone in these efforts, we owe him a great debt for the pivotal role he played. In short, we are a better society not only for having a quality editor overseeing our manuscripts, but for Jeff's progressive leadership throughout his tenure as executive editor. My job as the new executive editor will be infinitely easier as a result of his accomplishments. Thanks Jeff!

Finally, I would like to thank the incoming and continuing Action Editors (Carol Berman, Luc-Alain Giraldeau, Mike Greenfield, Ann Hedrick, Dan Leger, Laureen Ratcliffe, Judy Stamps, and George Uetz) and Book Review Editor (Patti Loesche) for agreeing to fill this critical role in our society. I'm sure that *Animal Behaviour* will continue its high standards with their efforts.

ANIMAL BEHAVIOR MEDIA LIBRARY: The Education Committee of the Animal Behavior Society has established a Media Library for use in teaching animal behavior. We are now soliciting submission of high-quality photographs, line drawings, and data graphs illustrating important principles in animal behavior for use in teaching about animal behavior, and for which the submitter can grant copyright to ABS. To submit an image for the library, send the following: 1. Publication-quality photograph, line drawing, or data graph, or a digital file in some standard format (i.e., GIF or JPEG); 2. A statement saying that you are the owner of the image, and that you grant its copyright to ABS; 3. A descriptive

caption, identifying the relevant species, principle, and appropriate teaching use(s) of the image; 4. Reference to one published source (e.g., article or book) providing more information about the topic addressed in the image; 5. How to give credit to the person(s) who provided the materials. To submit materials electronically, contact Penny Bernstein for instructions, via pbernstein@stark.kent.edu. Materials may also be submitted by regular mail to: Penny L. Bernstein Chair, ABS Education Committee, 8910 Indian Hill Circle Canal Fulton, Ohio 44614 USA

ABS EDUCATION COMMITTEE: CURRICULUM ANNOUNCEMENT

A new middle/high school animal behavior curriculum: [Behavior Matters](#)

The Brookfield Zoo and Northwestern University have recently completed writing a 6-week animal behavior curriculum for use in grades 7-9. Behavior Matters focuses on what animal behavior is all about, how to study behavior, and why studying behavior is important. The curriculum engages students in the scientific practice of observation. They begin by carefully observing the behavior of various familiar animals (dogs and cats; themselves). Through the use of software (*Animal Landlord*) developed at Northwestern University by Dr. Brian Smith, students compare and contrast behavior of a variety of species all engaged in the same type of activity (foraging). A videotape produced by Brookfield Zoo allows students to practice basic observation methods before visiting the zoo, and introduces them to researchers in the field who discuss their work and its relevance to conservation. At the zoo, students collect behavioral data for a research question that they have formulated themselves. A final project helps students apply their understanding of behavior to conservation.

Behavior Matters is a new animal behavior curriculum for use in middle and high school classes. It was developed by a team of researchers, zoo educators, and teachers in association with Brookfield Zoo and the Center for Learning Technologies in Urban Schools (LeTUS) at Northwestern University. Development was funded by Brookfield Zoo, the NSF-supported LeTUS, and an NSF Post-Doctoral Fellowship in Science, Mathematics, Engineering and Technology Education. The curriculum will be available beginning this fall.

Behavior Matters is designed to be used specifically in conjunction with a field trip to Brookfield Zoo (though it can be adapted for use at any zoo), and is only available through attendance of a workshop at the zoo (at a cost of \$80), or a LeTUS workshop. All workshops include the complete curriculum binder,

Brookfield Zoo-produced videotape on observation methods, and software on CD-ROM (currently Mac only) produced by Northwestern University. Ultimately, we hope to make the software, videotape, and curriculum more generally applicable and available. A summary of the development and goals of the curriculum will be presented at the ABS meeting in August, and a workshop will be held at the NABT (National Association of Biology Teachers) conference in October.

During the past year, over 300 students in the Chicagoland area have used draft versions of Behavior Matters, and it has been well received. As the interest in and demand for animal behavior curricular materials at the grade-school level increases, the demand for programs such as this is sure to increase, as well. For more information, please contact Dr. Sue Margulis, Department of Conservation Biology, Brookfield Zoo, sumargul@brookfieldzoo.org

CONSERVATION REVIEWERS NEEDED In anticipation of increasing involvement in conservation research by animal behaviorists, the Conservation Committee of ABS is collecting the names of members who are willing to review conservation-oriented manuscripts submitted to our journal *Animal Behaviour*. We encourage those with a strong interest and at least minimal understanding of conservation biology, to send the following information to Corey Lane Fincher (fincher@unm.edu). Name, mailing address, email address, taxon of interest, area of animal expertise, and area of conservation expertise or interest.

ABS CONSERVATION WEB PAGE The ABS Conservation Committee web page (click on the conservation icon at www.animalbehavior.org/abs) is a resource for those interested in applying their animal behavior expertise to conservation problems. The web page has case studies, select literature references, a preliminary list of funding sources, and pertinent internet links. To make suggestions or submissions (we especially need photos and more funding sources), please contact the committee chair, Rich Buchholz (byrb@olemiss.edu).

ETHOLOGISTS FOR THE ETHICAL TREATMENT OF ANIMALS (EETA) MISSION STATEMENT - Marc Bekoff and Jane Goodall would like to form a group to be called "Ethologists for the Ethical Treatment of Animals" (EETA). The purpose of EETA is to develop and to maintain the highest of ethical standards in comparative ethological research that is conducted in the field and in the laboratory. Furthermore, we wish to use the

latest developments from research in cognitive ethology and on animal sentience to inform discussion and debate about the practical implications of available data and for the ongoing development of policy. If you are interested, please contact Marc Bekoff at Marc.Bekoff@Colorado.edu or at EPO Biology, University of Colorado, Boulder, Colorado 80309-0334 USA.

SENATORS PLAN TO DOUBLE NATIONAL SCIENCE FOUNDATION BUDGET

The chair and ranking member of the Senate committee that controls funding for the National Science Foundation (NSF) are urging fellow senators to double NSF's budget over the next five years. They are rallying support for the effort by asking their colleagues to sign a letter that will, in turn, be sent to Senate Majority Leader Trent Lott (R-MS) and Minority Leader Tom Daschle (D-SD). A show of support — in the form of calls and letters to various senators — from the Earth and space science communities for this effort will hopefully ease the hurdles facing the VA-HUD and independent agencies appropriations bill, (which funds NSF), before it is signed into law. The entire text of the letters (as well as background information on the bill) can be found at: <http://content.sciencewise.com/swsciencepolicy/agu8700.htm> and <http://content.sciencewise.com/swsciencepolicy/agu062900.htm>, respectively. From: Sciencewise Alert, August 2000.

ANIMAL BEHAVIOR SOCIETY GRADUATE PROGRAM BULLETIN

The Guide to Graduate Programs in Animal Behavior is undergoing a major revision this year, beginning with a request for program updates in late 2000. Additionally, we will add undergraduate and associated programs to the listings and re-title the work as the Guide to Programs in Animal Behavior in North America.

The current version remains available online at: <http://www.animalbehavior.org/ABS/Education/> Hardcopies may be ordered via the ABS Office (see Direction of Correspondence). The online version is being upgraded to a fully searchable database and the printed version is now reformatted to include additional indexes.

Results of ABS Public Affairs Committee Survey on Outreach Efforts by ABS Members in 1999

Designed and Compiled by Todd Blackledge, Linda Rayor, Jill Mateo, Marta Hersek, & Linden Higgins.

The ABS Outreach Survey was designed to assess the voluntary outreach efforts of the animal behavior community. Because animal behavior is often particularly accessible and appealing to non-scientists, animal behavior serves as an important gateway for people of all ages to become involved and interested in the sciences. For this reason, we hypothesized that outreach efforts in animal behavior and related sciences are particularly influential in drawing people toward the sciences. Our hypothesis was that as a group of scientists and educators, members of the Animal Behavior Society make an exceptional contribution through outreach activities.

In order to evaluate the potential impact of voluntary outreach efforts by ABS members we designed the ABS Outreach Survey to estimate how many people are reached on an annual basis, what is the range of outreach efforts, and to get an idea of the recipients of the outreach. Our more intangible goal was to use the information obtained from the survey to help increase recognition of the Animal Behavior Society by funding agencies, particularly the National Science Foundation which is currently enhancing levels of funding for both behavioral research and outreach activities. The ABS Outreach Survey was conducted from June - December 1999.

The ABS Outreach Survey posted on the ABS web site (<http://www.animalbehavior.org/ABS/Polls>) was open to all ABS members. Participation in the Survey was requested at the 1999 Annual meeting (where a computer with the survey and password were set up), on the ABS web page, and twice on the ABSnet. Participation dramatically increased when it was announced that one randomly drawn participant would receive a free 1-year membership in ABS. In total, 285 ABS members participated in the survey.

Midway through the survey, we modified two questions because of the term *biology* had been used rather than *science*, *psychology*, *anthropology*, or *another related field*. Of the 285 respondents, 95 responded after these changes were made.

**RESULTS OF THE SURVEY:
WHO RESPONDED: PERCENTAGE DOING
OUTREACH:**

Faculty:	157
Postdoctoral:	34
Graduate student:	65
Professional (Zoo, etc.):	8
Veterinary:	3
Teacher:	0
Other:	19
TOTAL	285

255 (89.5%) did outreach presentations

30 (10.5%) did not give presentations*

* Of the 30 non-presenters, many worked with H.S. or undergraduate assistants (55%) and/ or science curriculum development (25%)

Audiences Impacted By ABS Members*, **:

Kindergarten/ pre-school	18%
Elementary/ middle school	55%
High school	44%
Teachers/ educators	48%
Zoo, Science Center	37%
Natural History/	53%
Environmental Organization	
General public	62%

*Not mutually exclusive categories, 255 respondents.

** There was no apparent trend in who made presentations to the different audiences, with the exception that faculty gave somewhat more presentations overall.

Figure 1:

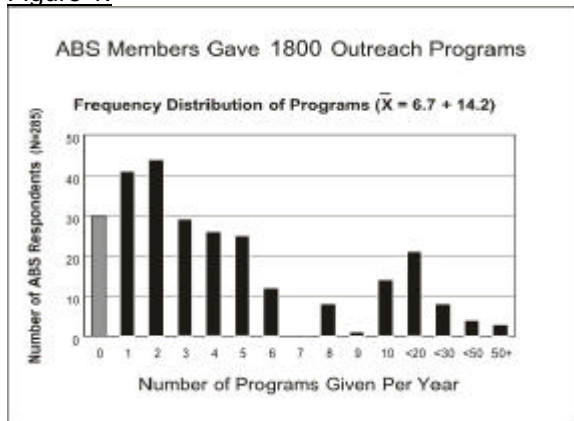
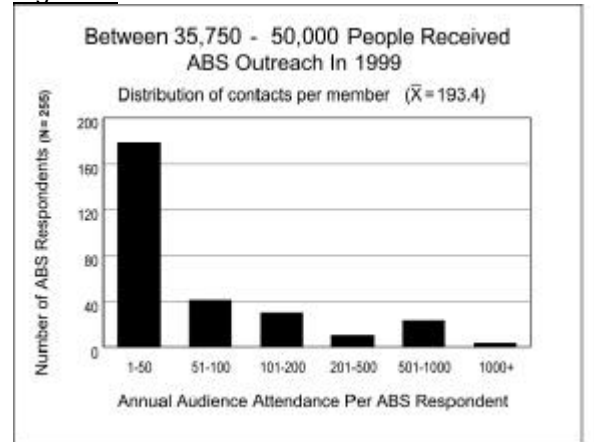


Figure 2:



Topics of Outreach Presentations*, **, *:**

Own Research Area	82%
General Animal Behavior	66%
Conservation/ Biodiversity	44%
Local Natural History	38%
Philosophy of Science	33%
Evolution	33%
General Biology	24%
Psychology	7%**
Anthropology	3%**
Veterinary	1%**
Subject Not listed	15%**
Judges/ Advisors for Science Fairs or similar programs	27%*

* Categories were not mutually exclusive, based on percentage of presenters (N=255),

** Subsample N=95

*** Live Animals were included in 44% of the outreach presentations.

ABS Members Invest Heavily In Training High School and Undergraduate Students To Do Research &/ or Outreach:

- 212/262 (81%) had one or more student assistants
- Mean ± SD = 4.9 ± 8.3 student assistants
- Range 0 - 75 student assistants per ABS member

ABS Members Are Consulted Frequently By The Media For Their Scientific Expertise (N=285):

- Newspapers - 40%
- Popular magazines - 27%
- Television - 26%
- Radio - 22%
- Books - 12%
- Cinema - 5%

Involvement in Science-Based Curriculum Development (N = 285)

- Specialty course - 46%
- Introductory Course for Majors - 35%
- Graduate Level Course - 33%
- Introductory Course for Non-majors - 26%
- Web based learning - 14%
- High School/ Elementary - 10%
-

Sources of Funding for Professional Research:

- Home Institution - 63%
- NSF - 25%
- Other - 21%
- Other Scientific societies - 18%
- Dept. Nat. Res./Fish & Wildlife - 14%
- >NIH - 11%
- Conservation Society - 11%
- ABS - 6%
-

The Range of ABS Members Outreach Efforts Are Diverse.

An Incomplete List of Some of the Formal & Informal Programs ABS Members Are Involved In:

- Project Discovery - NSF program to train teachers in math & science.
- Expand Your Horizons - Workshops to encourage careers in science for middle school girls.
- ASPCA Education Division - Teacher workshops, career day, magazine.
- Developing and implementing animal behavior curricula to encourage inner city students to make behavioral observations and graduate High School.
- Training undergraduates to give scientific presentations at schools.
- Adventures in Science.
- Partners in Science.
- Awesome - Advocates for Women in Science.
- Central Arizona Long Term Ecological Research Explorers Program - partners researchers with elementary school children.
- Workshops or scientific mentors for school teachers.
- Training docents for Museum, Zoo, or Aquariums.

- Scientific mentors for elementary school, middle school, or high school students.
- SW Center for Education & Natural Environment programs for H.S. students.
- Pet Assisted Therapy programs, workshops.
- Syndicated Radio Show Calling All Pets.
- California Wolf Center - public programs.
- Project Nestboxes - outreach on the value of building nestboxes for birds.
- Involvement in 4-H, science fairs, or related programs.
- Science Online - Answer elementary school students questions online.
- Showing field sites, laboratories, and teaching research techniques.
- Talks to the general public about science.
- Writing popular science articles.
- Many people: No real concerted [outreach] effort, *I just say YES when asked!*.
-

Note: NSF has some funding for *Informal Science Education* through Supplements to Active Research Awards (see <http://www.ehr.nsf.gov/EHR/ESIE/resawrd/ise-supl.htm>). In addition, funding for other sorts of scientific curriculum development are available through NSF.

Summary

ABS members are making a substantial investment in providing extensive voluntary outreach opportunities to their communities. Conservatively, well over 36,000 people benefited from our efforts in the last year. The range of outreach efforts is incredibly diverse. The influence of sharing our love for science is felt at all grade-levels and by a responsive general public. We are training large numbers of students in the processes of scientific research, as well as in the culture of scientific outreach. ABS members are influencing media coverage of science. The informal scientific outreach contributions of ABS members are helping to improve the appreciation, understanding, and support for animal behavior and science within this country.

ABS Public Affairs Committee, Todd Blackledge and Linda Rayor

MINUTES

THE ANIMAL BEHAVIOR SOCIETY ANNUAL BUSINESS MEETING

5-9 AUGUST 2000

MOREHOUSE COLLEGE, ATLANTA, GEORGIA, USA

1. The meeting was called to order at 9:25 on 7 August 2000 by President Andy Sih.
2. A motion to approve the minutes of the 1999 Business Meeting as seconded and approved.
3. President Sih announced that the 2001 ABS meeting will be held 16-20 July at Oregon State University at Corvallis, Oregon, with Lynne Houck and Andy Blaustein as co-hosts.
4. He also announced that the 2002 ABS meeting will be held 13-18 July at Indiana University, Bloomington Indiana, with Meredith West and Emilia Martins as co-hosts.
5. President Sih thanked the local hosts, officers and chairs at Morehouse College.
6. He announced that the society is in good shape, and thanked Steve Ramey and Shan Duncan for their efforts at the Central Office, which continues to help the Society function efficiently.
7. President Sih then reported on the ABS Summit at Bloomington, IN, in May 2000: Actions were undertaken there to promote interdisciplinary connections, work on increasing funding opportunities and on getting that information to the membership. Actions were also taken to enhance the awareness of scientists and the general public about animal behavior. The minutes of the Summit and a summary of the proposed actions are available on the ABS web site.
8. New officers of the society and committee chairs were introduced.
9. Nomination Committee Chair, Meredith West announced the candidates for the 2000 ABS election. They are: 2nd President Elect – Jeff Galef and Bob Johnston; Member at Large – Molly Morris and Trish Schwagmeyer; Parliamentarian – Jim Benedix and Linden Higgins; Senior Program Officer (2 year term) – Jim Ha and Michelle Scott; Junior Program Officer (4 year term – 2 years as junior followed by 2 years as senior) – Dan Cristol and Philip Stoddard.
10. Education Committee Chair Penny Bernstein announced Gail Michener as the recipient of the W.C. Brown Teaching Award.
11. Acting Secretary Kim Sullivan read the motions approved at the first Executive Committee Meeting.
12. Treasurer Marlene Zuk announced that the Society is in good financial shape due to higher than expected profits from the journal; most libraries subscribe to both print and electronic forms of the journal. Our expectation is that higher than expected profits will not continue and that a substantial portion of this “windfall” income should be invested to build up the financial reserves of the Society.
13. Treasurer Zuk also announced the establishment of the W. D. Hamilton Memorial Fund at New College, Oxford.
14. Executive Editor Jeff Lucas announced that the Journal is in good shape because of the excellent performance by the Central Office. The transition to a new editor went smoothly. Academic Press will start a new referencing system to allow readers of the electronic version of the journal to click on the reference number in the text and get the paper being referenced. This will involve changing how references are formatted. ISI statistics have increased over the past year. Page allocation is unchanged. Mean delay from submission to publication is 113 days. An acceptance rate of 38% has been mandated by ASAB. The 50th anniversary of the ASAB version of the journal is approaching. A banner will be added to the cover for that issue. Institutional subscription rates will rise from 485 lbs to 520 lbs.
15. Editor Lucas introduced the new Editorial Board: Action Editors Carol Berman, Luc-Alain Giraldeau, Mike Greenfield, Ann Hedrick, Dan Leger, Laureen Ratcliffe, Judy Stamps, and George Uetz and Book Review Editor Patti Loesche.
16. Parliamentarian Kim Sullivan announced that all of the proposed Bylaws changes were approved. Several are contingent on approval of Constitutional changes as described in Items #12-13 of the first Executive Committee Meeting minutes.
17. Public Affairs Committee Chair Linda Rayor reported on the outreach survey. A total of 285 members responded. Respondents identified a wide range of outreach activities in which they participated including presentations to groups of all ages and backgrounds.
18. President Sih asked for new business, there were no responses, and the meeting was adjourned at 10:35.

2000 ABS EXECUTIVE MEETING

5 AUGUST 2000

Officers present: Andy Sih, Jim Ha, Marlene Zuk, Mike Beecher, Emilia Martins, Jeff Galef, Michelle Pellissier Scott, Kim Sullivan, Patty Gowaty.

Officers-elect present: Jeff Lucas, Steve Nowicki, Joanne Olivia-Purdy,

Chairs and Liaisons present: Penny Bernstein, Linda Rayor, Martha Chaiken, Jim Benedix, Ira Perrelle, Steve Zawistowski, Neil Mercado, Debra Forthman, Dan Estep, Zulyma Tang-Martinez, Ellen Davis

Others present: Shan Duncan, (Webmaster), Steve Ramey (Managing Editor, *Animal Behaviour*), Larry Blumer (local host, Morehouse College).

1. The meeting was called to order by President Sih at 9:00.
2. A motion to approve the minutes of the 1999 EC meeting was made, seconded and approved.
3. A request was heard from the Central Office for Committee Chairs and Officers to consider the office resource impact, particularly in terms of office staff time, when proposing additional projects. Jeff Galef recommended promoting Steve Ramey to Society Manager and creating a separate position of Journal Manager to assure that someone in the Central Office could focus exclusively on Journal issues.
4. A motion was made for ABS to create a new position of Society Manager, which will be filled by Steve Ramey, with the Managing Editor position changed to include only journal functions; a job search will be conducted for these positions; job descriptions will be prepared by Meredith West in consultation with Jeff Lucas. The motion was seconded and approved.
5. A request was heard for the Policy Committee to develop a Policy on the Central Office especially dealing with setting priorities for the office and how to deal with conflicts.
6. A request was heard for the Policy Chair to be included in EC discussions throughout the year that concern Policy changes.
7. A request was also heard for the Policy Committee to develop a mechanism to record motions made and approved throughout the year by the EC.
8. President Sih moved that the First President Elect shall attempt to arrange for a report for a suitable journal (for example *Trends*) on some aspect of the annual ABS meeting. The motion was seconded and approved. It was noted that this motion represents a Bylaws change and needs to be approved at the annual business meeting.
9. A motion to approve Dave Pfennig as chair of Division of Animal Behavior and as SICB liaison was seconded and approved.
10. A motion to approve Dan Wiegmann as the new Junior Program Officer was seconded and approved.
11. A motion to send the following changes to the ABS Bylaws to the business meeting was seconded and approved (proposed deletions shown in brackets [*deleted*] and proposed additions underlined):
12. Proposed Constitution changes:
 - a. Article 4 Section 1.

The officers of this Society are: President, First President-Elect, Second President-Elect, Past-President, Treasurer, Parliamentarian, Executive Editor, [*Program Officer*] Junior Program Officer, Senior Program Officer, Secretary.
 - b. Article 4 Section 3. Term of office:

The term of office shall be one year except in the case of the Secretary, Treasurer, Parliamentarian and Executive Editor, whose terms shall be three years each, and the Program Officers whose terms shall be four years each. The expiration date of the terms of the Secretary and Treasurer shall be arranged so only one is elected in any one year. A Program Officer shall be elected every other year.
 - c. Article 7. Standing Committees:

[*Organization and Bylaws*]
 - d. Article 8 Section 2. D. Succession:

(2) The Executive Editor shall be replaced by a member of the Editorial Advisory Board chosen by the President and approved by the Executive Committee.
13. Proposed Bylaws Changes:
 - a. Article II. Duties of the Officers:

Section 7. Program Officers.
 - b. Article IV. Duties of the Committees.

[*Section 4. Committee on Organization and Bylaws:*]

Section 5. Nomination Committee:

- b. Shall assemble a slate of at least one candidate for Executive Editor and at least two candidates for all other elected offices of the Society.
14. A motion to approve invited paper sessions by O'Donnel and Foster on aggression and social structure at the Corvallis 2000 ABS meeting, was seconded and passed.
 15. A motion was made to direct the local host at future meetings to make arrangements for reduced cost day passes for K-12 teachers and other local professionals who are not ABS members. The motion was seconded and approved. The Policy Committee was directed to add this change to ABS Policy.
 16. A motion to make meeting passes available to members of the Press for the purpose of attending the meeting, was seconded, approved and added to ABS Policy.
 17. A motion to direct the local host at future meetings to provide a free registration and exhibit table to one NIH and one NSF representative was seconded, approved and added to ABS Policy.
 18. Meredith West and Emilia Martins presented their bid to host the July 13-18 2002 ABS meeting at Indiana University. They plan for registration fees to be lower than usual as no meal plan will be available, although dorms and hotel rooms will be available. This will be a 4-day meeting, to start on Saturday and run until Wednesday evening. A motion to accept their bid was seconded and approved.
 19. Parliamentarian Kim Sullivan moved to approve the in the Bylaws and Constitution outlined in Items#12-13 above. The motion was seconded and approved. Parliamentarian Sullivan noted that if the membership votes the change down at the Business meeting then a proposal will be made that the candidate needs to get the approval of at least 50% of the members casting ballots.
 20. 1st Member at Large Michelle Pellissier Scott reported that the reports from recipients of student research grants will be placed on the ABS website and hard copies sent to the Historian.
 21. 2nd Member at Large Jim Ha proposed developing a Friday night to Saturday afternoon funding workshop for the IU meeting. This would involve a separate registration fee.
 22. Jim Ha also stated that we need to have an undergraduate award policy for Jim Benedix. (Genesis Award). Steve Ramey agreed to get the policy that was approved by the EC to Jim.
 23. Executive Editor Jeff Lucas moved that ABS approve the price increase for institutional subscriptions from 485 pounds to 520 pounds in 2001 proposed by Academic Press. The motion was seconded and approved.
 24. Editor Lucas also agreed to discuss the proposed reference numbering system with Chris Barnard. Lucas will report on his discussion and solicit a vote of approval by the EC.
 25. The Central Office agreed to send out an early renewal notice and notify members that late renewals may not receive their copy of the January issue of *Animal Behaviour*. Back issues may not be available to new members. This point will be advertised in the Newsletter.
 26. A request was made to Steve Ramey to send new investment policy to Jim Benedix for inclusion in Policy.
 27. Education Committee Chair Penny Bernstein requested a change in policy on teaching awards. She noted that the First President Elect is on the Education Committee and could work with committee on developing policy for the teaching award.
 28. A request was made that the Parliamentarian get new list of new Committee Chairs from Patty Gowaty, and to send each an email with information on what resources are available on the web and to contact me if they have questions.
 29. A motion to change the wording of Jack Ward Film Award from "best" to "a superior" was seconded and approved.
 30. Discussion of the Diversity Committee was tabled for later discussion. Patty Gowaty agreed to initiate an email discussion in September.
 31. A request for a policy change was made to change the name of our representative for purposes of incorporation to George Waring.
 32. A request for a policy change was made to increase list the rental cost of the mailing list from \$75/ thousand to \$90/thousand.
 33. Liaisons Chair Martha Chaiken agreed to send funding alerts to Shan Duncan to put on ABS news.
 34. The Meeting adjourned at 18:15

EXECUTIVE COMMITTEE MEETING

7 AUGUST 2000

Officers present: Andy Sih, Jim Ha, Patty Gowaty, Mike Beecher, Michelle Scott, Kim Sullivan, Emilia Martins, Marlene Zuk

Officers-elect present: Jeff Lucas.

Committee Chairs and Liaisons present: Steve Zawistowski, Dan Estrep, Neil Mercado, Jim Benedix, Tom Sproat,

Others present: Steve Ramey (Managing Editor, *Animal Behaviour*), Shan Duncan (Webmaster).

1. The second meeting of the EC as called to order by President Sih at 19:23.
2. The Committee was pleased with proposal presented by the BPC but considered having certified Applied Behaviorists select their own chair. The President agreed to consult with a lawyer before the EC makes any decisions about the BPC. Dan Estrep and Steve Zawistowski will write up the new proposed structure for the BPC and send it to Steve Ramey for distribution to the EC.
3. A motion to approve the policy changes assigning tasks to the Junior and Senior Program Officer was seconded and approved.
4. A motion to raise the fee charged for rental of the mailing list from \$75 to \$90 was seconded and approved.
5. A motion to no longer require signatures in voting for Fellows was seconded and approved.
6. A motion to change our registered agent to George Waring was seconded and approved.
7. A request was made for a proposal from the Central Office on when dues should be due and when new members should start receiving journals.
8. A motion to contract Steve Ramey to improve Central Office database was seconded and approved.
9. Treasurer Marlene Zuk proposed a budget of \$241,200 for the next year. The budget was approved.
10. The meeting was adjourned at 21:48.

Note: The Secretary is grateful to Kim Sullivan and the other members of the ABS Executive Committee for their patience during the month of August. Thank you all for your friendship, help and support.

ABS APPLICATION/RENEWAL FORM NEW MEMBERSHIP. RENEWAL

YOUR MEMBERSHIP WILL BEGIN OR RENEW WITH THE NEXT AVAILABLE JOURNAL ISSUE AND RUN FOR 12 MONTHS. WE ARE NOT ABLE TO PROVIDE BACK ISSUES.

Name: _____ Institution/Affiliation: _____

Address: _____

Email: _____ Phone/Fax: _____

I would like ABS to send mailings (e.g., ballots, renewal reminders) via e-mail
E-MAIL ADDRESS WILL NOT BE DISSEMINATED EVEN IF YOU CHECK THIS BOX.

MEMBERSHIP CLASS (All amounts in US Dollars)

- | | | | |
|---|------|--|----------|
| <input type="checkbox"/> Regular Member | \$51 | Future Membership | |
| <input type="checkbox"/> Student Member* | \$25 | You may pay up to three years at the current rate | |
| <input type="checkbox"/> Membership w/o Journal † | \$17 | | |
| <input type="checkbox"/> Emeritus Member | \$25 | ___ X \$___ = | \$ _____ |
| <input type="checkbox"/> Newsletter Only (nonmember) | \$ 8 | | |
| <input type="checkbox"/> Developing Nations Member • | \$25 | Late Fee (except Mem w/o Journal, Newsletter) | |
| <input type="checkbox"/> Developing Nations Student • | \$15 | If renewing late add \$10 Late Fee. _____ | |

NOTE: This rate schedule applies through **June 30 2001**. Thereafter, enquire for current rates from aboffice@indiana.edu or visit <http://www.animalbehavior.org/ABS/Members/>

*My **Student Membership** endorsed by _____

YOU MUST INCLUDE THIS Dept.Head, ABS Member or Fellow (sign and PRINT)

RENEWING STUDENT MEMBERS may supply student ID instead of endorsing signature

†**Membership without Journal** does NOT include a subscription to the journal.

- The following nations shall **not** be considered **Developing Nations** :The United States, Canada, Israel, Japan, Australia, New Zealand, Iceland, Norway, Sweden, Finland, Denmark, Germany, The Netherlands, Belgium, Luxembourg, France, The United Kingdom, Ireland, Switzerland, Austria, Italy, Spain, and Portugal.

VOLUNTARY CONTRIBUTIONS

Diversity Fund (to encourage diverse participation at ABS meetings) _____

Research Awards Fund (to fund awards for exemplary graduate research) _____

David Tuber Fund (to fund a future award for applied behavior) _____

Genesis Award Fund (to fund award for best undergraduate poster) _____

Unrestricted Fund (a general fund for unforeseen opportunities or problems) _____

Donation to help offset Credit Card Processing costs _____

It costs ABS approx 3.75% (\$1-2) to process credit card payments.

ABS is designated a 501c(3) nonprofit organization; contributions are tax exempt.

TOTAL PAID (Dues + Voluntary Contributions) \$ _____

PAYMENT INFORMATION

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 Visa Master Card American Express Discover

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Signature of card holder: _____

Your payment will be acknowledged if you provide a valid e-mail address.

Return form to: ABS, Indiana University, 2611 East 10th St, Bloomington IN 47408-2603

Email: aboffice@indiana.edu; Phone: 812-856-5541; Fax: 812-856-5542

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