



NEWSLETTER

Animal Behavior Society

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Stephen M. Shuster, Secretary

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2002 ANIMAL BEHAVIOR SOCIETY STUDENT RESEARCH GRANT AWARDS

The Animal Behavior Society is pleased to announce the awardees of the 2002 Animal Behavior Society Research Student Grants. This year we had 121 proposals. The judges were impressed with the outstanding quality of this year's proposals, but, unfortunately, limited funds prevented all worthy applications from being funded. Students will receive their reviews in the next few weeks. Congratulations! Full details for the 21 awards can be found at the ABS Web site: http://www.animalbehavior.org/ABS/Grants/abs_srg_awards2002.html

I would like to thank the reviewers on this year's panel for their assistance, Lee Drickamer, Ann Hedrick, Jennifer Mather, Janice Moore, Stephen Nowicki, Bruce Schulte, Patricia Schwagmeyer, Bill Searcy, Steve Trumbo, Bill Wagner, and Moira van Staaden. The assistance of Steve Ramey and Shan Duncan of the Central Office at Indiana University was invaluable.

Dr. Shelley Adamo
Senior Member-at-Large
Chair, 2001-02 Student Research Grant Committee
Dalhousie University

\$1000 Awards:

Elena Berg. University of California – Davis. Reproductive cooperation and conflict in the White-throated Magpie-jay (*Calocitta formosa*).

Michael J. Cramer. University of Cincinnati. The effects of bot fly parasitism on host mate choice.

Andrew J. Edelman. University of Arizona – Tucson. Kleptoparasitism of Red squirrel (*Tamiasciurus hudsonicus grahamensis*) middens by Abert's squirrels (*Sciurus aberti*): Does aggression deter stealing?

Samuel Flaxman. Cornell University. Dispersal strategies and group living in a facultatively gregarious caterpillar, *Drepana arcuata*.

Quincy Anne Gibson. Georgetown University. The development of calf association patterns in wild bottlenose dolphins (*Tursiops aduncus*).

Julie Hollister-Smith. Duke University. Chemical signaling via urine dribbling during musth in the African elephant (*Loxodonta africana*).

Martin Kaltenpoth. Duke University. Efficacy of visual and olfactory aposematism as defense mechanisms against an invertebrate predator, the Chinese praying mantis *Tenodera aridifolia sinensis* (Sauss.).

William A. Mackin. University of North Carolina - Chapel Hill. Expanding the search for dear enemies: Do nocturnal petrels discriminate between neighbors and strangers.

Catherine Palmer. University of Oregon. The evolution of sexual isolation in a chemical signaling system: Uniting molecular genetics and behavior.

Douglas A. Robinson. Binghamton University. The role of juvenile social behavior in adult breeding decisions of American Crows.

\$500 Awards:

Alise Baer. Indiana State University. Parental behavior and feeding biases in the White-throated Sparrow.

Matthew R. Czarnowski. Rutgers University. Individual variation in response to energetic deficit in male Tree Swallows.

Vincent A. Formica. Indiana State University. The dear enemy phenomenon and the challenge hypothesis: An investigation into the behavioral endocrinology in territoriality and male-male aggression in White-throated Sparrows (*Zonotrichia albicollis*).

Tatjana C. Good. Princeton University. The causes and consequences of mutual mate choice in oldfield mice (*Peromyscus polionotus*).

Sarah Krott Huber. University of Massachusetts – Amherst. Variation in the song features of Galapagos finches.

Christopher J. Leary. University of Oklahoma. Alternative mating strategies, steroid hormones, and the potential for sequential hermaphroditism in the Great Plains Toad, *Bufo cognatus*.

Thomas M. McCarthy. University of Kentucky. Examining genetic similarity, mating behavior and fitness consequences in a simultaneous hermaphrodite.

Richard A. Peters. Macquarie University. The design of dynamic visual signals.

J. Andrew Roberts. University of Cincinnati. Multimodal signaling: Cue-reading predators and the costs of complex display behavior.

Aaron Stuart Rundus. University of California – Davis. Interspecific communication via infrared radiation during predatory encounters between California ground squirrels (*Spermophilus beecheyi*) and northern pacific rattlesnakes (*Crotalus viridis*).

Kelly Wells. University of Nebraska at Omaha. The effects of salinity and alkalinity on territoriality, foraging behavior, nest placement, and nest success of American avocets (*Recurvirostra americana*).

2002 DEVELOPING NATIONS RESEARCH AWARDS

Congratulations to the recipients of the fifth annual ABS Developing Nations Research grant competition. The awardee are, Enkhnasan Davaadorj (Mongolian National University, Ulaanbaatar, Mongolia), for "Environmental influence of breeding and sex ratio in saxaul sparrow *Passer ammodendri*," and Roberto Munguía-Steyer (Instituto de Ecología, Xalapa, Veracruz, Mexico) for "Sexual selection and sex roles in *Abedus* sp."

The reviewers of this year's competition were Steve Nowicki, Chair (Department of Biology, Duke University, USA), Monique Halloy (Instituto de Herpetología, Fundación Miguel Lillo, Argentina), and Christine Drea (Department of Biological Anthropology and Anatomy, Duke University, USA). More information about this competition may be found at the ABS website: <http://www.animalbehavior.org/>.

ABS DIVERSITY AWARDS

Recipients of the ABS Diversity Registration Awards (free student registration) for 2002 are:

Oscar Rios Cardenas. SUNY at Buffalo.

Mariana Otero Cariello. Universidade de Brasilia.

Fabia Costa. Universidade de Brasilia.

Danielle Lee. University of Missouri - St. Louis.

Flavia de Campos Martins. Universidade de Brasilia.

Manuel Esteve. University of Barcelona.

Luis Mendoza. Instituto de Ecología, A.C.

Ewurama Shaw-Taylor. University of Chicago.

Terence Lee. University of California - Los Angeles.

Annagiru Sumana. Indian Institute of Science.

LATIN AMERICAN TRAVEL AWARDS

Recipients of the ABS Latin American Travel Awards (\$200 US) for 2002 are:

Onanchi Urena. University of Costa Rica.

Mariana Otero Cariello. Universidade de Brasilia.

Luis Mendoza. Instituto de Ecología, A.C.

Flavia de Campos Martins. Universidade de Brasilia.

2002 CETACEAN CONSERVATION AND BEHAVIOR AWARDS

Congratulations to the recipients of the first annual ABS Cetacean Conservation and Behavior Research Awards. The recipients are Kimberly Andrews, University of Hawaii at Manoa, for "Determination of boundaries to gene flow in the Hawaiian spinner dolphin population" and Brooke Sargent, Georgetown University, for "The ontogeny of foraging strategies in Indian Ocean bottlenose dolphins in Shark Bay."

The CBC Award program was established in 2001 to support graduate students studying cetacean behavior or cetacean conservation in natural environments. The award was initially funded by the editors of *Cetacean Societies: Field Studies of Dolphins and Whales* (University of Chicago Press, 2000), who have assigned all royalties from this book to support this grant program. The reviewers of this year's competition were Steve Nowicki (Duke University), Patricia Schwagmeyer (University of Oklahoma), and Andrew Read (Duke 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/> and select **News and Announcements** from the left menu

LUIS BAPTISTA MEMORIAL CONCERT

The California Academy of Sciences, in conjunction with the Conversations at the Herbst series, will present an intimate evening of classical music in memory of Luis Baptista. Pianist Jeffrey Kahane will be joined by distinguished chamber musicians Peter Wyrick and Erick Wyrick in Olivier Messiaen's monumental QUARTET FOR THE END OF TIME. Proceeds from the event will be donated to the Baptista Memorial Fund. To obtain tickets: <http://www.cityboxoffice.com/page25.html>. The

BAPTISTA MEMORIAL FUND was established with a nucleus of donations received from friends and colleagues at the time Luis Felipe Baptista died in June, 2000. During his lifetime he engaged in varied research on birds, mentoring graduate students along the way and establishing collegial relationships worldwide. The Fund will finance the continuance of Dr. Baptista's work through support for projects and appointments that appropriately memorialize his legacy. Charitable contributions to promote and continue avian research can be sent to the Luis Baptista Memorial Fund, California Academy of Sciences, Golden Gate Park, San Francisco, CA 94118, Douglas J. Long, Ph.D., Acting Chairman, Ornithology and Mammalogy, California Academy of Sciences, Golden Gate Park, San Francisco, CA 94118-4599, (415) 750 7176, dlong@calacademy.org.
<http://www.calacademy.org/research/bmammals/>.

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. The next deadline is **15 July 2002**. 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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DID YOU KNOW?

Purchases via the Amazon.com link on our main web page, <http://www.animalbehavior.org>, contribute 5% of the total to ABS. If you have books to order and would like to contribute to the society's efforts at the same time, please consider this option. The Amazon link is found at the bottom of our main page.

CALL FOR SYMPOSIA FOR THE 2003 ANNUAL MEETING

Symposium proposals for the 2003 annual ABS meeting at Indiana University in Bloomington, IN must be submitted to the Junior Program Officer by 1 August, 2002. Information on organizing symposia may be found at the ABS website: <http://www.animalbehavior.org/ABS/Program/HostGuide/SympGuide.html> Symposium proposals may be submitted by email to stoddard@fiu.edu or by regular post to: the ABS Junior Program Officer, Philip Stoddard, Dept Biological Sci., Florida Intl. Univ., Miami, FL 33199, USA.

ABS AUTHORS

If you have written or edited a book pertinent to animal behavior which was published in 2001 or will have a book coming out in 2002, please send the citation and a brief synopsis of its contents to Dr. Jill Marie Mateo, Department of Psychology, Uris Hall, Cornell University, Ithaca, New York 14853-7601 USA, E-mail: jmm52@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 Society members. Questions? Let me know! James C. Ha, University of Washington jcha@u.washington.edu. To SUBSCRIBE go to: <http://www.animalbehavior.org> News&Announcements (click on the Subscribe/Unsubscribe link under ABSNet and fill out the web based form. Links to Post an article or view the archives are also available.

MEETINGS

ANIMAL BEHAVIOR SOCIETY ANNUAL MEETINGS

2002: 13-17 July at Indiana University, Bloomington, IN.

2003: 19-23 July at Boise State University in Boise, ID

Watch the ABS website for details.

ISBE 2002. The 9th Biennial Congress of the International Society for Behavioral Ecology will take place in Montreal, Quebec, Canada from July 7-12, 2002. The organizers are Luc-Alain Giraldeau and Don Kramer. For more information, go to the conference web site <http://www.isbe2002.uqam.ca> or e-mail the organizers at isbe2002@uqam.ca.

GORDON CONFERENCE 2004

The Gordon Research Conference Board of Trustees has approved a proposal for a new Gordon Research Conference on "Genes and Behavior." The goal of this conference is to help catalyze an expansion of the terrain covered by molecular analyses of behavior by promoting the development of a community that includes scientists with roots in molecular biology as well as scientists with roots in animal behavior. The first conference will be in Winter 2004 and held every two years. Date and site of the first conference are not presently known. If you have suggestions about the program, please contact Gene Robinson (Conference Chair) generobi@uiuc.edu, or Chris Boake cboake@utk.edu, Felix Breden breden@sfu.ca, and Allen Moore ajmoore@pop.uky.edu (conference steering committee members).

TUFTS ANIMAL EXPO, 12-15 SEPTEMBER 2002 Behavioral, Environmental, Genetic and Small Mammal Issues. The third annual Tufts Animal Expo, will be in Boston on September 12-15, 2002. The Expo offers relevant, informative topics in its educational programming for all animal care professionals. Multi-session programs and labs of interest to shelter and rescue professionals are scheduled for each day. Jack Hanna to be Keynote Speaker at Opening Ceremony. Over 125 hours of educational programming devoted to professionals working in the shelter and rescue community. Daily highlights include: Sept. 12: Enriching the Shelter/Rescue Experience sponsored by Bide-A-Wee, a no-kill shelter founded in New York in 1903. Included are topics on "Music to Soothe the Savage Beast" and results of a spay/neuter study. Dr. Mary Burch, director of AKC's Canine Good Citizen Program, will present "The A.D.O.P.T. Screening

Tool: A Research Based Assessment for Shelter Dogs.” The American Red Cross will present First Aid and CPR labs for animal care professionals on Sept. 12 and 13. Sept. 13: Shelter/Welfare: Challenging Issues and Handling Wildlife and Exotics. Topics include “Raccoon Roundworms as a Cause of Animal and Human Disease”, “Music to Sooth the Savage Beast,” and adoption and handling of small mammals. Dr. Amy Marder, director of behavioral services of the Animal Rescue League of Boston, will discuss “Behavioral Assessment of Shelter Dogs”. Enhancing the Multi-Cat Environment will include several topics on cats in shelter environments including cattery design and prevention of diseases. Behavior will cover topics on aggression, genes and behavior, compulsive behavior and pharmacological treatment of behavior problems. Featured speakers include noted behaviorist, dog trainer and author Brian Kilcommons; Dr. Alice Moon-Fanelli of Tufts University School of Veterinary Medicine; and world-renowned veterinary behaviorist and author Dr. Nicholas Dodman. Sept. 14: Dr. Ray Coppinger, professor of biology at Hampshire College, will moderate and speak during a program on Canine Behavioral Genetics. He will also participate in a panel discussion on “All Dog Behavior is Genetic.” Promoting Feline Behavioral Health By Creating a Cat Friendly Environment will include presentations by Dr. Suzanne Hetts, a nationally known animal behaviorist, who will also participate in a panel discussion on “Dealing with Cat Problems.” Tufts Animal Expo’s unique Meetings of the Minds panel discussions with audience participation will be held again this year. This year the topic “Banning of ‘Dangerous’ Breeds of Dogs” should be especially provocative. Sept. 15: Wildlife Rehabilitation: Realities and Regulations will, among other topics, discuss regulations that are important to wildlife care providers. Pain Management will cover topics from acupuncture to advanced techniques. The Gentle Leader® Workshop will promote an understanding of these headcollars’ effectiveness. The Expo’s opening ceremony on Thursday evening, September 12, will feature Jack Hanna as the keynote speaker. Mr. Hanna is director emeritus of the Columbus Zoo, the popular host of the television series, Jack Hanna’s Animal Adventures, and one of America’s most beloved naturalists and adventurers. Hill’s Pet Nutrition®, Tufts Animal Expo leading sponsor, will be sponsoring Mr. Hanna’s appearance. For further information on educational programs, speakers and registration please visit the web site at www.tuftsanimalexpo.com or call 1-800-642-9429.

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.

FACULTY POSITION IN ANIMAL BEHAVIOUR MCMASTER UNIVERSITY

The Department of Psychology at McMaster University invites applications for a tenure-track Assistant Professorship in the area of animal behaviour to commence July 1, 2002. We seek an individual with research interests in the function, causation or development of animal behaviour. The Department of Psychology at McMaster University has a rich tradition in experimental psychology and particular strengths in the areas of animal learning and behaviour, evolutionary psychology, behavioural ecology, neuroscience, development, perception and cognition (www.science.mcmaster.ca/psychology). Candidates should have a Ph.D. and will need to show evidence of a vigorous research program, promise of leadership in his or her field, and commitment to both undergraduate and graduate education. Applicants should send a curriculum vitae, statement of research interests and copies of representative papers to: Dr. Sigal Balshine, Animal Behaviour Search Committee Chair, Department of Psychology, McMaster University, 1280 Main Street West, Hamilton, Ontario, Canada L8S 4K1. They should also arrange to have three letters of recommendation sent to, Dr. Balshine. Applications will be reviewed on an ongoing basis until the position, is filled. Consideration of applications will begin on March 15, 2002. All qualified candidates are encouraged to apply; however, Canadian citizens and permanent residents will be given priority. McMaster University is strongly committed to employment equity within its community, and to recruiting a diverse faculty and staff. The University encourages applications from all qualified candidates, including women, members of visible minorities, Aboriginal persons, members of sexual minorities, and persons with disabilities.

EDITOR-IN-CHIEF OF *BIOSCIENCE*

The American Institute of Biological Sciences, a non-profit scientific association (www.aibs.org), seeks an Editor-in-Chief to join the staff of its peer-reviewed monthly publication, *BioScience*, in Washington DC. Responsible for the acquisition, selection, and peer-review of scientific manuscripts on a broad range of

biological topics. Requires a Ph.D. in a scientific discipline commensurate with the AIBS mission and prior experience in scientific journal editorial operations. The successful candidate will be a team-oriented leader/innovator who thrives in a fast-paced environment, welcomes challenges, and seeks growth beyond the status quo. This is a full-time salaried position. Benefits include healthcare and retirement plan. Send cover letter, resume, and salary requirements to: Executive Director, attn. Editor Search, AIBS, FAX; 202-628-1509, rogrady@aibs.org, 1444 Eye St. NW, Suite 200, Washington, DC 20005. Closing date: when filled.

UNIVERSITY OF QUEENSLAND

POSTDOCTORAL RESEARCH FELLOWSHIPS

Postdoctoral research fellowships are available for persons wishing to conduct full-time research at the University of Queensland, Australia, in any of the university's disciplines. The three-year appointment provides a salary of \$A44,367 to \$A49,440 and travel costs. Web Site: <http://www.uq.edu.au>, Program URL: <http://www.uq.edu.au/research/funding/internal/postdoctoral/postdoctoral-general.html>, Deadline(s): 05/31/2002, Link to full program description: http://www.infoed.org/new_spin/spin_prog.asp?04524

NATIONAL INSTITUTE OF MENTAL HEALTH

NIMH--NIMH Exploratory/Developmental Grant (R21) Program, The sponsor provides support for Exploratory/Developmental Grants (R21) that fall within the research interests of the Division of Neuroscience and Basic Behavioral Science and the Division of Services and Intervention Research. Eligible applicants are domestic or foreign for-profit and non-profit organizations, public and private, such as universities, colleges, hospitals, laboratories, units of state and local governments, and eligible agencies of the federal government.

E-mail: mhuerta@helix.nih.gov, Program URL: <http://grants.nih.gov/grants/guide/pa-files/PA-00-073.html>, Deadline(s): 06/01/2002, 10/01/2002, 02/01/2003, 06/01/2003, 10/01/2003, 02/01/2004, Link to full program description: http://www.infoed.org/new_spin/spin_prog.asp?54664

ASSISTANTS NEEDED FOR THE STUDY OF SATIN BOWERBIRDS.

Volunteer field assistants are needed for the study of mate choice in satin bowerbirds. Assistants will primarily help to band birds and to observe behavior at bowers. The study site is in Northern New South Wales, Australia. This is a renewal of a study of mate choice which began 17 years ago in which we will follow the success of the offspring of male bower holders we studied earlier. The field season will run from mid-September through

late December. Assistants must arrange for travel to the field site; we will provide food and lodging at the site. Tasks assistants will perform include assisting in the capture, banding and blood sampling of birds, locating bower sites and clearing trails, monitoring the behavior of birds at bowers with infrared sensing equipment and camcorders and by direct observation. The work is very physically demanding and assistants must be focused on this project and flexible in their requirements. Contact Information: Jennifer Siani, Department of Biology, University of Maryland, College Park, MD 20742-4415, tel.: 301-405-6943, fax: 301-314-9358, sianij2@yahoo.com

NOTICE! For additional funding source information see <http://www.animalbehavior.org/ABS/Grants/>

ANNOUNCEMENTS

WHOLE CAT JOURNAL is looking for animal behaviorists to write articles of interest to its readers. Articles should be 1,000-5,000 words. Payment 5¢/word. Send query letter to PO Box 1337, Radford VA 24143-1337. Include article outline, your credentials and publication credits, a writing sample, and a self-addressed stamped envelope. The Whole Cat Journal will now be published by DNA Publications as a glossy, full-color magazine; it was formerly published by Belvoir Publications as a 24-page newsletter. Belvoir Publications had previously announced the closing of Whole Cat Journal; DNA Publications will be assuming Belvoir's liability to Whole Cat subscribers. The first issue of the revamped Whole Cat Journal will be published in June. The overhauled Whole Cat will continue to feature articles by veterinarians on alternative and complementary therapies for cats, as well as articles of more general interest to caring cat owners. New features will include book reviews, an "Ask the Vet" column written by a holistic veterinarian who is also the new Consulting Editor, and a planned column on cat behavior. DNA Publications also publishes six science fiction magazines including the trade journal Science Fiction Chronicle. Kessler, who will serve as publisher for Whole Cat Journal, has over seven years of experience as the assistant publisher of the science fiction magazines.

ARE YOU AN AUTHOR OR EDITOR of a book related to animal behavior? If so, we would like to list it on the ABS Books by Members web page (http://www.animalbehavior.org/ABS/Stars/Books/abs_books_display.phtml). Listing your book is quick and easy! And remember, if the book is still available, there is a direct link to Amazon.com from the web site for interested buyers (and ABS earns up to 5% from

purchases made through this link). Send the following information to Jill Mateo (jmm52@cornell.edu): Author name(s), book title, publication year, publisher, number of pages, ISBN number (specify whether for hardcover or paperback), and a brief abstract of the book.

ABS CONSERVATION WEB PAGE The ABS Conservation Committee web page (click on the conservation icon on the main ABS Web Page: <http://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).

SPOTLIGHT YOUR RESEARCH: Has your research or teaching been featured in print, on TV or on the web? ABS posts information about members in the news on our website (<http://www.animalbehavior.org/ABS/Stars/>). Let other members - and visitors to our site - know about your work by posting it at: <http://www.animalbehavior.org/ABS/Announcements> or by sending the information to Jill Mateo (jmm52@cornell.edu).

CALL FOR ARTWORK: Do you have any line drawings of your favorite animals behaving? We're looking for some artwork to improve the looks of the ABS Program passed out at the Annual meeting. If you have any black-and-white line drawings you would like to donate, please send them (preferably via email) to the ABS Senior Program Officer, Jim Ha, jcha@u.washington.edu.

ABS CERTIFICATION PROGRAM IS ALIVE AND WELL. During the last two years, the ABS Executive Committee with the advice of an ad hoc committee and an attorney, has reviewed the ABS Certification Program for Applied Animal Behaviorists. The main reason for this review was concern about possible legal actions that could be taken against the Society related to certification. Following this review, we are happy to report that the certification program is still strongly endorsed by the officers of the Society and remains largely unchanged. Changes were made in the oversight of the Board of Professional Certification (BPC), in liability insurance requirements for certificants and in the system of appeals of BPC decisions. These changes will protect the Society and the certification program from lawsuits. Requirements

for certification remain unchanged except as they relate to liability insurance requirements, appeals of BPC decisions and the schedule of payments for certification and re-certification. Details of these changes can be found in the application forms available at the ABS website, www.animalbehavior.org/applied/ or from the Chair of the BPC, Stephen Zawistowski, Senior Vice President and Science Advisor, ASPCA, 424 East 92nd Street, New York, NY 10128. As Past President Gowaty noted in her comments at the 2001 business meeting, applied animal behavior and the certification program are important and highly visible parts of our Society and will continue to contribute to the missions of the Society for years to come. For additional information about the certification program see the ABS applied website or write to the Chair of the program at the address above.

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 JRL). 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.

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

2002 DOG OWNER'S SURVEY

Dr. Larry Lachman, animal behavior consultant and "Social Cat" Columnist for CAT FANCY is conducting a national survey of dog owners for his next book. If you would like to contribute please answer the following four questions:

1. What dogs did you grow up with or have currently? (Names, breeds, age, etc.)
2. How did these dogs effect, influence or impact either your family of origin, you, or your current relations?
3. Specifically, what life lessons about love, relationships, communication, affection, and values have you learned from your dog(s).
4. Could you provide me with one or two true stories that illustrate your dog(s) positive impact on you and how you relate to other people or your family?

Email your answers to: DrLarry@FamilyAnimal.com or DOGCAUDOCAUTHOR@aol.com or send them to: Dr. Larry Lachman, Family Animal, P. O. Box 22151, Carmel, Ca. 93922

IVS WEBSITE CHANGES: New content has been added to the IVIS website and can be consulted free of charge at <http://www.ivis.org> (sub-links found below). Respiratory Infections by Equine Herpesvirus Types 1 and 4 by G.P. Allen, In: Equine Respiratory Diseases, edited by P. Lekeux.

[/special_books/Lekeux/allen/chapter_frm.asp?LA=1](#)

Parasitic Airway Disease by J. B. Matthews, In: Equine Respiratory Diseases, edited by P. Lekeux.

[special_books/Lekeux/matthews/chapter_frm.asp?LA=1](#)

Neurological Syndromes by K.G. Braund, In: Clinical Neurology in Small Animals - Localization, Diagnosis and Treatment, edited by K.G. Braund.

[/special_books/Braund/braund1/chapter_frm.asp?LA=1](#)

Nutritional Disorders by K.G. Braund, In: Clinical Neurology in Small Animals - Localization, Diagnosis and Treatment, edited by K.G. Braund.

[/special_books/Braund/braund23/chapter_frm.asp?LA=1](#)

Paroxysmal Disorders by K.G. Braund, In: Clinical Neurology in Small Animals - Localization, Diagnosis and Treatment, edited by K.G. Braund.

[/special_books/Braund/braund29/chapter_frm.asp?LA=1](#)

In the Spanish language section: Evaluación de salud reproductiva del toro: estado actual by J.C. Spitzer (Traducido C. Jiménez Escobar) In: Topics in Bull Fertility, edited by P.J. Chenoweth.

[/advances/Repro_Chenoweth/spitzer/chapter_frm.asp?LA=1](#)

Uso de kits comerciales para ensayos de hormona luteinizante y de progesterona en el manejo reproductivo canino by M. V. Root Kustritz (Traducido por Y. Corrada y C. Gobello), In: Recent Advances in Small Animal Reproduction, edited by P.W. Concannon, G. England, J. Verstegen.

[/advances/Concannon/root2_es/chapter_frm.asp?LA=2.](#)

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ABS 2002, July 13-17
Indiana University, Bloomington Indiana, USA

Tentative Schedule as of June 12, 2002 (subject to revision without notice).
Final schedule will be posted to the ABS web site <http://www.animalbehavior.org/> (Click Meetings)

Time	Sunday (14th)					Monday (15th)			Tuesday (16th)			Wednesday (17th)			
	Alumni	Whitt	Georgian	Oak	Biology	Whitt	Georgian	Oak	Whitt	Georgian	Oak	Alumni	Whitt	Georgian	Oak
8:30	Keynote					Business			Fellow			DAB			
9:45						Break	Break	Break	Break	Break	Break	Break	Break	Break	Break
10:00	Break	Break	Break	Break		Allee	Foraging	Development, Dispersal & Migration	Symp: Selection	Communication Structure and Function	Conservation		Symp: Applied	Evolution of Behavior	Predator and Prey
10:15		Symp: Commun	Recognition of Kin, Population, & Sex	Learning and Cognition											
12:00	Lunch	Lunch	Lunch	Lunch		Lunch	Lunch	Lunch	Lunch	Lunch	Lunch		Lunch	Ethosource	Lunch
13:00						Allee	Symp: Infant	Learning and Cognition	Symp: Selection	Communication Structure and Function	Applied Animal Behavior				
13:30		Symp: Commun	Mate Choice and Social Behavior	Aggression and Dominance									Symp: Applied	Social Behavior	Mate Choice
15:00	Break	Break	Break	Break		Break	Break	Break	Break	Break	Break	Break	Break	Break	Break
15:15		Symp: Commun	Mate Choice and Social Behavior	Aggression and Dominance	Educ Work	Allee	Symp: Infant	Communication and Social Behavior	Symp: Selection	Communication Structure and Function	Mechanisms of Behavior		Symp: Applied	Social Behavior	Mate Choice

This is a preliminary listing of abstracts accepted for presentation at the ABS 2002 meeting as of June 12, 2002. This listing is subject to revision without notice. To report errors and omissions, please contact the Senior Program Officer, Jim Ha, jcha@u.washington.edu or the central office aboffice@indiana.edu. It's not too late to register. See the web site for details. <http://www.animalbehavior.org> (Click Meetings). On site registration will be available.

See you in Bloomington!

	ABS Allee Award		
Brandt, Y.	Brandt: lizard threat displays as handicaps. Brandt.	Toth, A.	Nutrition and division of labor. Toth & Robinson.
Cole, P.	Crow portage. Cole.		ABS Regular 15-min talk
Danielson-Franco	Paternity variation in spiders. Danielson-Franco.	Adamson, J.	Habitat distribution in Lark Sparrows. Adamson.
DeVito, J.	Metamorphic synchrony and aggregation. DeVito.	Andrade, M.	Courtship-competition trade-off. Andrade et al.
Garcia, T.	Color-dependent anitpredator behaviors. Garcia.	Arechavaleta-Vela	Honey bee guarding behavior. Arechavaleta & Hunt.
Ord, T.	Opponent assessment in lizards. Ord.	Aspbury, A.	Long-range lek visibility. Aspbury & Gibson.
Parker, T.	Genetic benefits to mate choice. Parker.	Avila, L.	Predation effects on courting. Avila & Randall. (CANCELLED)
Patricelli, G.	Multiple male traits interact. Patricelli.	Baker, M.	Isopod dispersal and habitat selection. Baker.
Ríos-Cárdenas,	Paternity and paternal effort in sunfish. Rios-C.	Bales, K.	Peptides and parental care. Bales & Carter
Rodriguez, R.	Functional design of mate preferences. Rodriguez.	Balsby, T.	Quiet courtship vocalizations. Balsby & Dabelsteen.
Rohr, J.	Importance of spatiotemporal scale. Rohr.	Barber, A.	Corticosterone and seed-caching in kangaroo rats. Barber.
Spritzer, M.	Intrasexual selection for spatial ability. Spritzer.	Bashaw, M.	Social bonds in giraffe. Bashaw et al.
White, C.	Elk Management and Ravens. White	Bealor, M.	Constriction and prey handling in kingsnakes. Bealor.
	ABS Founders Award poster session	Bednekoff, P.	Value of coordinated vigilance. Bednekoff.
Basil, J.	Sensory biology of Nautilus. Basil et al.	Bee, M.	Plasticity of aggression in a frog. Bee et al.
Beeching, S.	Dolphin behavior and group size. Beeching et al.	Beebee, M.	Song sharing by yellow warblers. M. D. Beebee.
Biron, S.	Courting of loser males. Biron et al.	Bell, A.	Behavioral syndromes. Bell.
Bleakley, B.	Lizard chemical signals. Bleakley et al.	Benson, K.	Gravid mosquitofish show off their spots. Benson.
C.Donelson, N.	Grasshopper trimorphism. Donelson & van Staaden.	Bernstein, P.	Acoustic features of laughing gull long calls. Bernstein & Owren.
Couldridge, V.	Species recognition in cichlids. Couldridge.	Bockelman, A.	Convict cichlid mate replacement. Bockelman & Itzkowitz.
Gerlach, N.	Song learning in female finches. Gerlach et al.	Bodasing, M.	Social spider nest temperatures. Bodasing et al.
Gonzalez-Suarez,	Prey recognition time window. Gonzalez & Wilcox.	Brodman, B.	Salamander coexistence. Brodman & Schwarz.
Herb, B.	Courting of loser males. Biron et al.	Brosnan, S.	Chimpanzee value concept. Brosnan & de Waal.
Koper, M.	Mate Location under predation risk. Koper et al.	Brown, S.	Egg mass laying and snail emergence. Brown.
Lee, J.	Mixed within conditional strategy. Lee & Bass	Burghardt, G.	Play in dragons. Burghardt et al.
Meyer, C.	Social interactions of female green swordtails. Meyer.	Byrne, R.	Handedness in Octopus. Byrne et al.
Murray, A.	Individual variation and kangaroo rats. Murray.	Paz-y-Mino C, G.	Animal behavior and conservation. Paz-y-Mino C.
Rossano, L.	Hybridization and "chick-a-dee" call complex. Rossano & Curry.	Campon, F.	Prey capture in colonial spider. FCampon & Riechert. (CANCELLED)
Seah, W.	Mating success of transgenic zebrafish. Seah et al.	Cassill, D.	Self-Organization in a Non-Human Society. Cassill.
Southall, B.	Graded elephant seal vocalizations. Southall et al.	Cerchio, S.	Paternity in humpback whales. Cerchio et al.
Srivastava, A.	Status of golden langurs. Srivastava.	Cheng, K.	Interference in spatial memory. Cheng & Zhang.
		Chu, L.	Enrichment for laboratory rabbits. Chu et al.
		Clotfelter, E.	Nestlings signal thermal stress. Clotfelter et al.

- Coleman, S. Multiple signals and receivers. Coleman et al. (CANCELLED)
- Dewsbury, D. Charles H. Turner. Dewsbury.
- Dickey, B. Predicting social interactions. Dickey.
- Drea, C. Reproduction in spotted hyenas. Drea et al.
- Dries, L. Are amazon mollies red queens? Dries.
- Drummond, H. Long-term effects of dominance. Drummond & Torres.
- Duncan, W. Which prey nest near hawks? Duncan.
- Dzieweczynski, Rivals cause behavior change. Dzieweczynski & Rowland
- Earley, R. Previewing future opponents. Earley et al.
- Endler, J. Innovation & Bowerbird Signal Design. Endler et al.
- Ensminger, A. Agonism, kinship & fertility. Ensminger & Meikle.
- Evans, C. Sceptical hens. Evans.
- Ferkin, M. Over-marking in voles. Ferkin & Leonard.
- Fisher, H. Chemosignals and mate choice. Fisher et al.
- Formica, V. Nest site selection. Formica & Tuttle. (CANCELLED)
- Foster, S. Plasticity and mate choice. Foster & Hulslander.
- Francescoli, G. Calls and bullar morphology. Francescoli & Quirici.
- Freake, M. Amphibian magnetic map. Freake et al.
- Freeberg, T. Variation in chick-a-dee calls. Freeberg et al.
- Freire, R. Spatial memory in domestic chicks, Freire et al.
- Frey, D. Dew-drinking by monarch butterflies. Frey et al.
- Gende, S. Diet selection and brown bears. Gende et al.
- Gowaty, P. Flexible Mating Strategies and Sexual Selection. Gowaty.
- Grasso, F. Lobster-inspired robots in turbulent flows. Grasso.
- Greene, C. Integrating Behavior and Conservation. Greene.
- Griebel, U. Squid display repertoire, Griebel et al.
- Gros-Louis, J. A new assay of female responsivity. Gros-Louis.
- Guerra, P. Song and phonotactic preferences. Guerra et al.
- Guzmán-Novoa, Genetics of defensive behavior. Guzmán-Novoa et al.
- Hammond, J. Linking activity and aggression. Hammond & Sih.
- Harrington, M. phenotype matching in predatory snail Clifford et al.
- Hatch, M. Age and parental performance. Hatch.
- Heath, L. Age and self-grooming behavior. Heath et al.
- Horn, R. Kin recognition in spotted hyenas. Van Horn et al
- Houck, L. Salamander pheromone evolution. Houck et al.
- Huber, R. Aggression and Neurochemistry. Huber.
- Huber, S. Song variation in Darwin's finches. Huber et al.
- Hughes, M. A good male is hard to define. Hughes.
- Humfeld, S. Condition and satellite mating tactic. Humfeld.
- Hunt, G. Honey bee guarding behavior and colony defense. Guzmán-Novoa et al.
- Hunt, G. Interactions in guarding behavior. Hunt et al.
- Huntingford, F. Welfare of farmed fish. Huntingford et al.
- Hupton, G. Winter mating and oogenesis in monarch butterflies. Hupton et al.
- Hurd, C. Individual differences in wasp foraging. Hurd et al.
- Jasnow, A. Seasonal changes in aggression. Jasnow & Demas.
- Jawor, J. Multiple ornaments in females. Jawor & Breitwisch.
- Johnson, J. Sexual cannibalism in spiders. Johnson.
- Just, W. Testing the sequential assessment game. Sun & Just.
- Karsten, K. Collared lizard thermoregulation. Karsten & Husak.
- Kelso, E. Male courtship and female receptivity. Kelso & Verrell.
- Kitchen, D. Baboon loud call displays. Kitchen et al.
- Kuba, M. Play in octopus. Kuba et al.
- Kukuk, P. Maintaining low relatedness. Kukuk & Forbes.
- LaManna, M. Breeding and conspecifics. LaManna & Eason. (CANCELLED)
- Leal, M. Signal efficacy and speciation. Leal & Fleishman.
- Leonard, M. Eavesdropping and signal design. Leonard.
- Lin, Y. Communal breeding and density. Lin et al.
- Liu, D. Hand-raising & behavioral development. Liu et al.
- Lucas, J. Chick-a-dee call playbacks. Freeberg & Lucas.
- Lynn, S. Signal detection & decision making. Lynn.
- Maestripieri, D. Sex differences in play. Maestripieri & Ross.
- Marshall, V. Signal timing in gray treefrogs. Marshall et al.
- Mason, A. Parasitoid phonotaxis: Mason.
- Mather, J. Going dotty. Mather.
- McGlothlin, J. Testosterone and mate choice. McGlothlin et al.
- McPhee, M. Captivity increases behavioral variation. McPhee.
- Meikle, D. Rank, parasites and mating. Meikle & Mihalcin.
- Meisel, D. Circadian Rhythms in Octopus. Meisel et al.
- Mendonça, M. Male bat mating discrimination Mendonça.
- Midford, P. Ontology as Ethogram. Midford.
- Morris, M. Polymorphism in female preference. Morris et al.
- Mullin, S. Climbing performance in snakes. Mullin & Cooper.
- Mundinger, P. A model of bio-cultural coevolution. Mundinger.
- Murdock, G. Bison responses to wolf harassment. Murdock.
- Nakagawa, S. Kin discrimination in earthworms. Nakagawa et al.
- Nakayama, K. Contagion of scratching. Nakayama.
- Naug, D. Decision making by bees. Naug et al.
- Nelson, D. Song dialect perception. Nelson & Soha

- Nieh, J. Stingless bee blitzkreig communication. Nieh et al
- Nutt, K. Group structure in gundis. Nutt.
- Ophir, A. Video elicits mate-choice copying. Ophir & Galef.
- Orsetti, D. Sequential Mating in a Beetle. Orsetti.
- Otoni, E. Tool use in capuchin monkeys. Otoni et al.
- Owren, M. Size and identity signaling in human voices. Owren.
- Parks, S. Right whale communication, Parks et al.
- Payne, R. Begging for parental care. Payne & Payne.
- Peters, R. Design of a movement-based signal. Peters & Evans.
- Placyk, J. Geographic variation in defensive behavior. Placyk & Burghardt.
- Pollick, A. Food calls and the audience effect. Pollick et al.
- Pope, D. Fiddler crab claw waving. Pope et al.
- Pravosudov, V. dominance and food caching. Pravosudov & Clayton.
- Prosen, E. Salamander cooperation. Prosen & Jaeger.
- Riters, L. Female discrimination and male song. Riters.
- Robbins, K. Biobehavioral development of rhesus. Robbins et al.
- Roberts, J. Predators and signaling costs, Roberts et al.
- Roberts, R. Alloparenting in marmosets. Roberts et al.
- Roth, T. The Predatory Behavior of the Cooper's Hawk. Roth.
- Salazar, V. Cost of electric signals. Salazar & Stoddard.
- Santangelo, N. Comparing courtship for rejected & selected males. Santangelo & Itzkowitz.
- Schank, J. Estrous Synchrony and Female Mate Choice. Schank.
- Schreiber, S. Temperature and activity. Cooke Schreiber et al.
- Schul, J. Receiver evolution in treefrogs. Schul & Bush.
- Shuster, S. Measuring sexual selection. Shuster & Wade.
- Silverman, E. Calculation of release numbers. Silverman & McPhee.
- Smith, C. Vocal territorial defense in Common Loons. Smith.
- Smith, V. Computer simulation of cowbird association. Smith.
- Snell-Rood, E. Prior residence in flocks. Snell-Rood & Cristol.
- Soha, J. Genetic analysis of song dialects. Soha et al.
- Solomon, N. Reproductive consequences of sociality. Solomon.
- Sorin, A. Multiple paternity in white-tailed deer. Sorin.
- Stapley, J. Prey defences to multiple predators. Stapley.
- Steury, T. Multi-trophic-level IFD's. Steury et al.
- Stevens, J. Harassment and food sharing in primates. Stevens.
- Sullivan, A. Risk assessment and predator diet. Sullivan & Madison (CANCELLED)
- Sumana, A. Regulation of worker reproduction. Sumana & Gadagkar.
- Swaddle, J. Symmetry percetion and cues. Swaddle & Ruff.
- Swaigood, R. Scent marking in the giant panda. Swaigood.
- Switzer, P. Territory intrusions & space use. Switzer & Eason.
- Tallarovic, S. Female aggression and EOD in brown ghost knifefish. Tallarovic et al.
- Tarou, L. Bamboo preferences in captive giant pandas. Williams et al.
- Terry, A. Developing census strategies. Terry & McGregor.
- Thomas, S. Mate choice in prairie voles. Thomas.
- Tobin, D. Home range analyses of otters. Boege Tobin et al.
- Trainor, B. Vasotocin and social environment. Trainor et al.
- Triefenbach, F. Status and signal perception. Triefenbach & Zakon
- Uetz, G. Mate preference in wolf spiders. Uetz et al.
- Urena, O. Predatory behavior of a fly-hunting hoverfly larva. Urena.
- van Breukelen, Divorce in monogamous fish. van Breukelen & Draud.
- Verga, J. Field study of mate search tactics. Verga et al.
- Wack, C. Female mate preference. Wack & Beeching.
- Walker, S. Crickets, Flies, and Mating Success. Walker & Cade.
- Watson, J. Dolphin ranging and aquaculture. Watson & Mann.
- Welch, A. Genetic quality and genetic compatibility. Welch.
- Westneat, D. Diet and signals. Westneat et al.
- White, D. Reproductive success in cowbirds. White.
- Wiegmann, D. Flower constancy. Waldron & Wiegmann.
- Wilson, M. Chimpanzee vocal suppression. Wilson et al.
- Winterrowd, M. Relatedness of group members. Winterrowd.
- Wisenden, B. Risk assessment by fish. Wisenden et al.
- Wolff, J. Laboratory studies with rodents: Fact or artifact. Wolff.
- Wollerman, L. Errors in Communication. Wollerman & Wiley.
- Wong, B. dominance and female choice. Wong.
- Yasukawa, K. Begging call convergence. Her & Yasukawa.
- Yin, S. Barking in dogs. Yin & McCowan.
- ABS Regular poster session**
- Agosta, A. Breeding site colonization. Agosta & Shuster.
- Alemadi, S. Alarm behavior in fish larvae. Alemadi & Wisenden.
- Anciães, M. Lekking pin-tailed manakins. Anciães & Marini.
- Baker, M. Potato beetle sperm competition. Baker et al.
- Barot, S. Over-marking: cause and consequence. Barot et. al.
- Basurto-Lozano, Reef fish structure and behavior, Basurto et al.
- Bauer, E. Role reversal and self-handicapping during play. Bauer & Smuts.
- Beal, D. Dwarf Hampster play behavior. Beal & Schnelton.

Beeching, W. Demographic study of dolphins. Wack et al.

Belthoff, J. Nest-lining in burrowing owls. Brady et al.

Black-Decima, P. Brocket deer dung marking. Black-Decima & Santana.

Braaten, R. Development of song perception. Braaten & Colbath.

Breitwisch, R. Melanin ornaments, honesty, and sexual selection. Jawor & Breitwisch.

Brostek, J. Competition and caching. Brostek & Devenport.

Brown, J. Multi-modal risk assessment. Brown & Wisenden.

Brumley, M. Vulture behavior at pre-roost. Brumley & Robinson.

Carey, M. Succession and sparrow breeding behavior. Carey.

Cariello, M. Egg characteristics and maternity. Cariello et al.

Carvalho, C. Reproduction in grassquits. Carvalho et al. (CANCELLED)

Casto, J. Hormone-induced immunosuppression. Casto et al.

Clark, A. Roosting patterns in crows. Clark et al.

Clark, R. Dominance and temperament in macaques. Clark et al.

Clotfelter, E. Induced winner effect. Clotfelter & Paolino.

Clucas, B. Chick-a-dee syntax. Clucas et al.

Cristol, D. Prior residence and rank. Cristol & Snell-Rood.

Crowe, M. thermoregulation, foraging, crabs. Crowe & Helmuth.

Culp, J. Temporal patterns and refuge use by snails. Culp.

Czarnowski, M. Male directional mating preference. Czarnowski.

Dagley, R. Seaside sparrow song variation. Dagley & Hughes.

Darden, S. Vocal identity coding. Darden & Dabelsteen.

Davis, D. Electrical shape recognition. Davis & von der Emde.

Davis, K. Field study of crayfish Behavior. Davis & Huber.

Doerr, J. Dispersal in opossums. Doerr & Tang-Martinez.

Druen, M. Repeatability of intrinsic aggression. Druen.

Eaton, R. Prenatal stimuli and avian behavior. Eaton et al.

Eckert, K. Primate parasite avoidance. Eckert & Markowitz.

Eisthen, H. Sex recognition in salamanders. McGuire et al.

Elekonich, M. Honey Bee Stress Protein Expression. Elekonich & Robinson.

Engel, J. Latency of fly startle. Engel & Kim.

Engle, M. Social reinforcement and mimicry. Engle et al.

Fischer, M. School size and predator inspection. Fischer et al.

Fox, R. Development of neophobia in Amazon parrot chicks. Fox.

Fritz, A. Sperm storage patterns and organs. Fritz.

Funk, M. Animal cognition lab. Funk.

Gagliardi, J. Dominance in cichlid pairs. Gagliardi & Itzkowitz.

Geery, B. Polar bear behavior. Geery & Margulis.

Gibson, B. Disorientation & spatial learning. Gibson et al.

Golden, G. Detection of D4R polymorphisms. Golden et al.

Gonser, R. Incubation and brooding investment. Gonser & Tuttle.

Gordon, N. Green frog territorial behavior. Gordon.

Gould, K. Rats prefer characteristic cues. Larson & Gould.

Grinnell, J. Lion dialects. Grinnell et al.

Gu, L. Surviving sexual cannibalism. Gu & Andrade.

Guerra, P. Cricket cryptic choice. Sithampanathan et al.

Gullen, A. Social behavior and habitat usage. Gullen.

Ha, J. Cognitive heritability in infant monkeys. Ha et al.

Haight, K. Fire ant venom- patterns of synthesis and use. Haight & Tschinkel.

Harris, C. Avoidance of toxic prey by spiders. Harris & Uetz.

Hernandez, A. Female songbirds and early experience. Hernandez e.

Hill, P. Lekking in prairie mole crickets. Hill.

Hobbs, N. Fitness costs of aggression in crabs. Hobbs.

Husband, E. Calculus and Alarm Calls. Slobodchikoff & Husband.

Insley, S. Sex bias in razorbill recognition. Insley et al.

Izar, P. Grooming and hierarchy in *C. apella*. Izar & Ferreira.

Jones, K. Drosophila behavioral genetics. Jones et al.

Jourdie, V. Disturbances and behavior. Jourdie & Moore.

Keiser, J. Cognitive differences and homing. Keiser & Cristol.

Kim, A. Partners and pups in prairie voles. Kim et al.

Kohn, N. Mate choice in guppies. Kohn & Nordell.

Konvalinka, R. Homing ability. Konvalinka & Trauth.

Larimer, S. Early scent influences. Larimer & Johnston.

Lea, B. Nipple attachment in prairie voles. Lea et al.

Leverette, J. Widow spiders and web vibrations. Leverette et al.

Lewis, J. Plasticity in "grouping" strategy. Lewis et al.

Lewkiewicz, D. Calling behavior and risk. Lewkiewicz & Zuk.

Lichtenberg, E. Fly abdomen signalling. Lichtenberg & Wilkinson.

Lindsay, W. Social role of trophallaxis. Lindsay & Kukuk.

Macedo, R. Reproduction in guira cuckoos. Pacheco et al.

Malinowski, B. Intermediate hybrid behavior. Malinowski.

Manson, J. Time-matched grooming in monkeys. Manson et al.

Margulis, S. Assessing animal welfare. Margulis et al.

Martins, F. Brood reduction in boobies. Martins & Dias.

Mateo, J. Expression of kin recognition. Mateo & Johnston.

Matthews, M. House finch song. Matthews.

- Matthews, R. Male combat parasitoid wasp. Hartley & Matthews.
- McCarthy, T. Factors influencing mating interactions. McCarthy.
- McEachern, M. Territory bequeathal. McEachern & Efferson.
- Mendoza-Cuenca, Pupal mating by indirect choice. Mendoza et al.
- Menge, J. Spiny mouse relations. Menge et al.
- Morgan, K. Zoo Visitor and Animal Behavior. Morgan et al.
- Navara, K. Patterns of Avian Yolk Steroids. Navara et al.
- Nelson, B. Duplex auditory distance assessment. Nelson.
- Nesse, R. The risks of being male. Kruger & Nesse.
- Oldfield, R. Amelanistic female Bettas. Oldfield et al.
- Omana, E. Isopod sex determination. Omana & Shuster.
- Palmer, C. Odor preferences in salamanders. Palmer & Houck.
- Perry, S. Coalitionary decisions in capuchins. Perry et al.
- Persaud, K. Sexual harassment & aggregation. Persaud et al.
- Persons, M. Lycosid maternal care costs. Colancecco & Persons.
- Peterson, A. Predation and mating in Gambusia. Peterson et al.
- Pierce, A. Condition dependent odor signals in voles. Pierce & Ferkin
- Piper, W. Territory acquisition in loons. Piper.
- Pytel, A. Development of crayfish aggression. Pytel & Huber.
- Ramos-Fernandez Foraging spatial patterns. Ramos-Fernandez et al.
- Reebs, S. Cage enrichment and wheel use. Reebs & Maillet.
- Roth, E. Lateralized Coiling Behavior in Snakes. Roth.
- Roth, T. Opioid modulation of rat pup olfactory learning. Roth & Sullivan.
- Rybak, J. Visitor effects on behavior of felids in zoos. Rybak.
- Schmaeman, C. Non random mating and bats. Schmaeman et al.
- Schwartz, J. Treefrog chorusing interactions. Schwartz et al.
- Scotti, M. Population differentiation and plasticity in stickleback fish. Scotti & Foster.
- Shaw-Taylor, E. MHC-based preferences. Shaw-Taylor & McClintock.
- Shugart, H. Insect vibrational communication. Cocroft et al.
- Smith, L. Ultraviolet reflectance, body size, and aggression. Smith et al.
- Snow, L. Black widow receptivity signals? Snow et al.
- Snow, L. Sperm transfer in redback spiders. Snow & Andrade.
- Sokoloff, G. Suckling-related feeding. Sokoloff et al.
- Sontag, C. Social foraging in toad tadpoles. Sontag et al.
- Southall, J. Beak movements in Darwin's finches. Southall et al.
- Suzuki, C. Seasonal changes in corticosterone. Suzuki & Barber.
- Talyn, B. Lessons of the golden frogs of costa rica. Talyn.
- Thiel, T. Minnow skin attracts predators. Thiel & Wisenden.
- Thompson, K. Female sexual interference, Thompson et al.
- Tincoff, R. Language & tamarin perception. Tincoff et al.
- Titus, R. Playback tests of junco song function. Titus.
- Tobias, M. Vocal behavior and DNA. Tobias et al.
- Viera, C. Sexual behavior. Viera & Albo
- Vollbrecht, K. Alarm reaction by wild fish. Vollbrecht & Wisenden.
- Wack, C. Demographic study of dolphins. Wack et al.
- Walton, H. Correlates of variance. Walton & Hetherington.
- Wei, C. Learning flights in honeybees. Wei et al.
- Weiss, S. Function of female reproductive color. Weiss.
- White, B. Social spacing in male woolly monkeys. White et al.
- Whitham, J. Baboon greetings. Whitham & Maestriperi.
- Wilder, S. Resident and immigrant home ranges. Wilder et al.
- Woodley, S. Odor Investigation and Hormones. Woodley & Baum.
- Young, J. Captive manatee behavior. Young & Schulte.
- Zhu, F. Simulations of War of Attrition. Just & Zhu.

Invited Paper

- Avilés, L. The dynamics of multilevel selection. Avilés.
- Barry, K. Cat aggression - applied and basic questions. Barry.
- Clarke, M. Evolution and monkey management. Clarke.
- Crowe, M. Pedagogy, thermal ecology. Crowe.
- Dugatkin, L. Risk taking and hierarchical selection. Dugatkin.
- Foster, K. Why be a chimera? Foster et al.
- Gerhardt, H. Acoustic pattern recognition. Gerhardt & Schul.
- Hebets, E. Complex signal function. Hebets.
- Hill, G. Carotenoid-based color displays as signals. Hill.
- Honeycutt, H. Perception goes amodal. Honeycutt.
- Hoy, R. Intentionality and contingency of signals. Hoy
- Huntingford, F. Variation in aggression. Huntingford.
- Jones, S. Imitation: Do neonates imitate? Jones.
- Marder, A. The animal shelter and applied behavior. Marder
- Margulis, S. Sampling method activities. Margulis.
- Martins, E. Evolution of lizard displays. Martins & Ord.
- McDonnel, S. Ethologist in the Breeding Shed. McDonnel.
- Mench, J. Ethological approaches to animal welfare. Mench.
- Mix, K. Quantification in human infants. Mix.
- Moore, D. Ecology, animal behavior and zoo animals. Moore.
- Narins, P. Sound and vibration reception in frogs: Narins.
- Ploger, B. Frog kin recognition lab. Ploger & Anderson.

Podos, J. Darwin's finch vocal evolution. Podos.
Pratt, S. Collective decision-making by ants. Pratt.
Reid, P. Reality science: theory and application. Reid.
Rutberg, A. Animal behavior and wildlife management.
Rutberg.
Schwade, J. Reconceptualizing developmental change.
Schwade.
Searcy, W. Song development & mating prefs. Searcy et
al.
Serpell, . Dog behavior problems. Serpell et al.
Stoddard, P. Electric signal evolution. Stoddard.
Wade, M. Group traits and group selection. Wade.
Wilson, D. Multilevel selection. Wilson.
Wilson, E. O. Global Conservation. Wilson.
Zawistowski, S. Public fascination with animal behavior.
Zawistowski.
Zuk, M. Signals and parasites. Zuk.

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