



NEWSLETTER

Animal Behavior Society

Vol. 59, No. 2
May 2014

A quarterly
publication

Sue Margulis, Secretary
Department of Animal Behavior, Ecology, and Conservation
Department of Biology
Canisius College, Buffalo, NY 14208

Macy Madden, Editorial Assistant
Department of Animal Behavior, Ecology, and Conservation
Canisius College, Buffalo, NY 14208

ANNOUNCING THE 2014 STUDENT GRANT AWARDS

Gail Patricelli, Senior Member-at-Large,
Chair 2014 Student Research Grant Committee

We are pleased to announce the recipients of the 2014 Student Research Grants. We received many high-quality proposals, but as in previous years, the number of applications exceeded the number we could fund. Of the 198 applications submitted, 43 were awarded funding.

Each proposal was reviewed independently by two referees, who provided evaluations and constructive feedback for the student grant writers. This would have been an impossible task without the dedication of an all-star team of 55 colleagues who volunteered their time and expertise. I extend a sincere thank you to the following referees: Çağlar Akçay, Christina Allgood, Andrea Aspbury, Mitchell Baker, Peter Bednekoff, Lauryn Benedict, Ximena Bernal, Anuradha Bhat, Bronwyn Heather Bleakley, Victoria Braithwaite, John Byers, Sonia Cavigelli, Vladimir Dinets, Edward Dochtermann, Aimee Dunlap, Vanessa Ezenwa, Kasey Fowler-Finn, Renee Robinette Ha, Anne Jacobs, Jennifer Jandt, Chadwick Johnson, Gita Kolluru, David Lahti, Bernard Lohr, Scott MacDougall-Shackleton, Andrew Mason, Bob Montgomerie, Daniel Papaj, Walter Piper, Vladimir Pravosudov, Jonathan Pruitt, Marilyn Ramenofsky, Jennifer Rehage, Dustin Reichard, Oscar Rios Cardenas, Ann Rypstra, Scott Sakaluk, Julia Saltz, Ingo Schlupp, Bruce Schulte, Renata Sousa-Lima Mobley, Colette St. Mary, Mark Stanback, Ronald Swaisgood, Ryan Taylor, Christopher Templeton, Elizabeth Tibbetts, Eric Walters, Tina Wey, David White, Brian Wisenden, Timothy Wright, Matthew Wund and Marlene Zuk

I would also like to thank Shan Duncan and Lori Pierce for administrative support; John Swaddle (2nd Member-at-Large) for administering the Developing Nations Research Awards, reviewing proposals and providing guidance; Alison Bell (3rd Member-at-Large) for reviewing proposals and providing guidance; and especially to all ABS members who donated the funds that make this program such a success.

GEORGE W. BARLOW AWARD

Justin P. Suraci, University of Victoria, *Re-establishing fear in an island mesopredator*

E. O. WILSON CONSERVATION AWARD

Rachel Y. Chock, University of California, Los Angeles, *Interspecific competition and conservation of the Pacific pocket mouse*

DAVID TUBER APPLIED ANIMAL BEHAVIOR AWARD

Meghan Martin-Wintle, Portland State University, Oregon Zoo, San Diego Zoo, *The effect of mate preference on reproductive success in the ex-situ endangered species breeding program for the giant panda (*Ailuropoda melanoleuca*)*

Sandra Troxell-Smith, University of Illinois at Chicago, *Welfare assessment through foraging: understanding the animals' points of view*

AMY R. SAMUELS CETACEAN BEHAVIOR AND CONSERVATION AWARD

Mauricio Cantor, Dalhousie University, *The temporal stability of the cultural society of sperm whales*

STUDENT RESEARCH AWARDS

Nicole Frances Angeli, Texas A&M University, *Movement of a critically endangered lizard in a novel habitat with implications for future translocations*

Jean-Nicolas Audet, McGill University, *Effects of urbanization on cognitive abilities and immunocompetence in Caribbean birds*

Valentina Gómez Bahamón, Universidad de los Andes, Colombia, *Aerodynamic performance of wing shape variants in the partially migratory fork-tailed flycatcher (Tyrannus savana)*

Christian Elizabeth Bautista-Hernández, Universidad Autonoma del Estado de Hidalgo, *The role of behavior in maintaining a melanistic phenotype and an associated functional oncogene in Xiphophorus*

Miles Kuiling Bensky, University of Illinois Urbana-Champaign, *Do individuals behave differently because they have different microbiomes? A study of natural variation in three-spined sticklebacks (Gasterosteus aculeatus)*

Sara N. Carter, The University of Memphis, *Regulation of the expression of sexual behavior in female Damaraland mole-rats*

Antonio Celis-Murillo, University of Illinois at Urbana-Champaign, *Is cheating for everyone? Patterns of extraterritorial forays and extra-pair paternity in field sparrows (Spizella pusilla)*

Charline Couchoux, Université du Québec à Montréal, *Personality, relatedness and vocal communication in eastern chipmunks*

Danielle D'Amore, Ohio University, *The effect of behavioral syndromes on life history traits, plasticity, and the success of invasion in Xiphophorus fishes*

Jesse Delia, Boston University, *Social dynamics of paternal care, hatching plasticity, and mate choice in two glassfrogs*

Rachael E. Derbyshire, University of Guelph, *Examining the hoard-rot hypothesis in a boreal songbird: an experimental test of the food limitation assumption*

Sean Ehlman, University of California, Davis, *Effects of increased turbidity on antipredator behaviors in the guppy*

Emily K. Elderbrock, University of Memphis, *Effects of corticosterone on development of Florida scrub-jays*

Nicole Fischer, University of Arizona, *Neural mechanisms of division of labor in Temnothorax ants*

Brendan Graham, University of Windsor, *Patterns of song learning and dispersal in a neotropical duetting songbird*

Matthew Hasenjager, University of Louisville, *A network-based comparison of social learning strategies in guppy populations*

Jenny Hazlehurst, Tulane University, *Does nectar robbery impact plant reproduction by altering animal pollinator behavior?*

Virginia K. Heinen, University of Minnesota, *The effect of temporal fluctuations on social information reliability*

Chenghui Ju, Queens College, City University of New York, *An integrative analysis to characterize song diversity of house finch (Carpodacus mexicanus) in North America*

Carl Keiser, University of Pittsburgh, *Pathogen-driven collapse of social groups: behavioural variation, individual immunity and the traits of patient zero*

Rebecca E. Koch, Auburn University, *Understanding female mate choice for carotenoid-based ornaments*

Dovid Y. Kozlovsky, University of Nevada, Reno, *The relationship between urban environment, cognition, exploration and neophobia in food-caching mountain chickadees (Poecile gambeli)*

Corinna A. Most, University of California, San Diego, *The role of caregiver responsiveness and alternative caregivers in the social development of wild infant olive baboons (P. anubis) in Laikipia, Kenya*

Amy J. Ort, University of Nebraska, Lincoln, *Theory of mind or behavior reading? Food competition in the highly social pinyon jay*

Michael Pardo, Cornell University, *Syntax of Asian elephant calls*

Romina Vanesa Pfoh, Instituto de Biología Subtropical, UNAM, *Grooming market in tufted capuchin monkeys (Cebus apella nigrurus): an experimental approach*

Natalie Pilakouta, University of Edinburgh, *Parent-offspring conflict in burying beetles: Measuring fitness costs and benefits of parental resource allocation in the field*

Karla Daniela Rivera-Cáceres, University of Miami, *Flexibility of duet codes in adult plain wrens*

Michael Rodriguez, University of Colorado, Boulder, *Sensitivity to host plant signals: can host specialists locate ant-plant hosts faster?*

Kelly L Ronald, Purdue University, *Taking the sensory approach: individual variation in multimodal sensory processing and the implications for mate-choice*

Ryan J Seddon, Indiana State University, *Melanization in western fence lizard (Sceloporus occidentalis) populations: behavioral, hormonal, and hematological differences*

Richard Kendall Simpson, Arizona State University, *The evolution of hummingbird iridescent coloration and display behavior*

Amanda R. Smith, Illinois State University, *Dopaminergic response to conspecific song in the European starling, Sturnus vulgaris*

Ashlee Nichole Smith, Brigham Young University, *Brood parasitism as an alternative reproductive strategy in Nicrophorus*

Alicia Michelle Rich Stout, Indiana University, Bloomington, *The application of molecular ecology to measure the effect of an open-mosaic habitat on chimpanzee (Pan troglodytes schweinfurthii) population density, range use, and concept of community*

Vanessa Trujillo, Florida International University, *Jewels for Dollars: Native and non-native interactions in an already stressful dry down environment*

Amanda Williams, University of Colorado, Boulder, *Growing, growing, gone: do agriculture systems facilitate or hinder bats*

ANNOUNCING THE 2014 DEVELOPING NATIONS RESEARCH AWARDS

John Swaddle, 2nd Member-at-Large, 2014 Student Research Grant Committee

With a record pool of applicants we are particularly excited to announce that the following students have been awarded 2014 Developing Nations Research Grant (DNG) awards. These young scientists are proposing excellent work!

Gloriana Chaverri, Universidad de Costa Rica, *The role of leaf acoustics on roost preference in Spix's disc-winged bat*

Robin Suyesh, University of Delhi, *Partitioning of the signalling niche in two sympatric assemblages of bush frogs from the Western Ghats of India*

CONGRATULATIONS TO NEWLY-ELECTED FELLOWS

The Animal Behavior Society is pleased to announce the election of five new Fellows of the Society. The awards will be presented at the 2014 meeting. The newly-elected Fellows are in alphabetical order:

Jeff Alberts, professor in the department of psychology at Indiana University. His work on prenatal development and weaning is central to the field of developmental psychobiology and his many years of supervising the development of the animal laboratory on the space station and ground breaking experiments with animals in orbit, conducted both in the USA and USSR, will, in time, be historical landmarks.



Michael Breed, professor of ecology and evolutionary biology at the University of Colorado at Boulder. He has made careful surveys of important topics like nestmate recognition,



colony defense, and division of labor in social insects, as well as significant contributions to foraging ecology, social communication, and the biology of stingless bees.

Janis Dickinson, professor in the department of natural resources at Cornell University. Her research has evolved gradually from studies of the behavioral ecology of insects and birds to a program that incorporates elements of conservation science, public education, and human cooperation within the contexts of citizen science and sustainable practices.



Lee Dugatkin, professor in the department of biology at the University of Louisville. Lee is best known to us as an animal behaviorist with research interests in the evolution of social behavior. Other important contributions to animal behavior include his prolific production of books for animal behaviorists as well as having also been a spokesperson for animal behavior and evolution in his tireless efforts at outreach.



Nancy Solomon, professor in the department of zoology at Miami University. Because of Nancy's pioneering work, prairie voles have become an important animal model in evolutionary biology, behavioral ecology, and behavioral neuroscience. Nancy continues to be one of the primary investigators integrating genetics, neurobiology, and behavioral ecology to address important evolutionary questions.



DONATIONS TO ABS FUNDS A BIG THANK YOU TO ALL CONTRIBUTORS!

Over \$9000 was contributed in the calendar year from May 1, 2013 to April 30, 2014 to support the student grant competitions and other ABS activities, as detailed here:

- Student Research Grants: \$1564
- Barlow Award: \$110
- Public Day Donation: \$1700
- E.O. Wilson Conservation Award: \$300
- External grants: \$2000
- Ethnic Diversity Award: \$1765
- Genesis Award: \$60
- Latin American Initiatives: \$145
- Unrestricted funds: \$1060

- Credit card offset donations: \$15
- Genesis Award: \$60
- Founders Award: \$10
- Tuber Award: \$110
- Teaching Animal Behavior Fund: \$176.16

Contributors are listed at the end of the Newsletter in alphabetical order.

CALL FOR ABS MEETING INVITATIONS

ABS is seeking proposals for future meeting venues. Sites can be a resort or hotel, university campus or a mixture of the two. Contact ABS Past President, Robert Seyfarth, Department of Psychology, University of Pennsylvania, 3815 Walnut Street, Philadelphia, Pennsylvania 19104-6196, USA. E-mail: seyfarth@psych.upenn.edu

GEORGE W. BARLOW AWARD FOR OUTSTANDING STUDENT RESEARCH PROPOSAL

An endowment fund has been established in memory of George W. Barlow for the purpose of encouraging excellence in graduate student research in the field of animal behavior. The **Barlow Award** is awarded annually to one top-ranked proposal in the Student Research Grant cycle in accordance with the most recent ABS Student Research Grant competition rules. A cash award and a certificate will be given to the student selected. The amount of the **Barlow Award** will be the maximum amount allowed for a Student Grant Award as specified in the most recent ABS bylaws or policies.

If you would like to make a US tax-deductible donation to this cause, please send your donation to: **Animal Behavior Society, 402 N Park Ave, Bloomington IN 47408-3828, USA** (with appropriate notation for this fund). We will recognize major donors in a future issue of the newsletter. Thanks to Dr. Judy Stamps for arranging for ABS to manage this endowment and for her generous seed donation.

DIRECTION OF CORRESPONDENCE

ABS Newsletter and general correspondence concerning the Society should be sent to Sue Margulis, margulis@canisius.edu. Deadlines are the 15th of the month preceding each Newsletter. The next deadline is **15 July 2014**. 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 Website:

The Animal Behavior Society's website has moved to a new domain located at <http://animalbehaviorsociety.org>

Animal Behaviour, manuscripts and editorial matters: Animal Behavior Society, 402 N Park Ave., Bloomington IN 47408, USA. E-mail: aboffice@indiana.edu. Phone (812) 856-5541, Fax (812) 856-5542.

Change of address, missing or defective issues: Animal Behavior Society, 402 N Park Ave., Bloomington IN 47408, USA. E-mail: aboffice@indiana.edu. Phone (812) 856-5541, Fax (812) 856-5542.

2013-2014 ABS OFFICERS

President: Daniel Rubenstein, Department of Ecology and Evolutionary Biology, Princeton University, Princeton, NJ 08544-1003, USA. Phone: (609) 258-5698 E-mail: dir@princeton.edu

First President-Elect: Regina H. Macedo, Universidade de Brasilia, Departamento de Zoologia – IB Campus Universitário – Asa Norte, Brasilia, DF 70910-900, Brazil. Phone: (+55-61) 3307-2265 E-mail: rhmacedo@unb.br

Second President-Elect: Emilia P. Martins, Indiana University, Department of Biology, 1001 E Third St, 142 JH, Bloomington, IN 47408 USA. Phone: (812) 856-5840 E-mail: emartins@indiana.edu

Past President: Robert Seyfarth, Department of Psychology, University of Pennsylvania, 3815 Walnut Street, Philadelphia, Pennsylvania 19104-6196, USA. E-mail: seyfarth@psych.upenn.edu

Treasurer: Molly Cummings, Section of Integrative Biology, University of Texas at Austin, Austin, TX, 78712 USA. Phone: (512) 471-5162 Email: mcummings@mail.utexas.edu

Secretary: Sue Margulis, Department of Animal Behavior, Ecology, and Conservation, Canisius College, 2001 Main Street, Buffalo, NY 14208, USA. Phone: (716) 888-2773. Email: margulis@canisius.edu

Program Officer: Michael Beecher, University of Washington, Animal Behavior Program, Seattle, WA 98195-1525, USA. Phone: (206) 543-6545 E-mail: beecher@u.washington.edu

Program Officer-Elect: Mark E. Hauber, Department of Psychology, Hunter College, 695 Park Avenue, New York, NY 10065, USA. Phone: (212) 396-6442 E-mail: mark-hauber@hunter.cuny.edu

Parliamentarian: Eileen A. Hebets, School of Biological Sciences, University of Nebraska – Lincoln, 325 Manter Hall, Lincoln, NE 68588, USA. E-mail: ehbets2@unl.edu

Executive Editor: Michelle P. Scott, Department of Zoology, University of New Hampshire, Durham, NH, 03824, USA. Phone: (415) 800-8988. E-mail: mpps@unh.edu

Members-at-Large:

Gail L. Patricelli, Department of Evolution and Ecology, University of California, One Shields Avenue 2320 Storer Hall, Davis, CA 95616, USA. Phone: (530) 754-8310. E-mail: GPatricelli@ucdavis.edu

John Swaddle, Department of Biology, College of William and Mary, Williamsburg, VA 23187-8795, USA. Phone: (757) 221-2231. E-mail: jpswad@wm.edu

Alison Bell, Department of Animal Biology, University of Illinois at Urbana-Champaign, 439 Morrill Hall, 505 South Goodwin Ave. Urbana, IL 61801, USA. Phone: (217) 265-5469 E-mail: alisonmb@life.illinois.edu

Historian: Lee Drickamer, Department of Biological Sciences, Northern Arizona University, Flagstaff, Arizona, 86011-5640, USA. Phone: (520) 523-0388. E-mail: Lee.Drickamer@nau.edu

**NOTICE TO DEVELOPING NATION
SCIENTISTS PLANNING TO ATTEND ABS 2014**

The Latin American Affairs Committee and/or Diversity Committee can provide letters of invitation to help scientists (faculty or students) from developing countries obtain travel funding from their universities in order to attend the ABS meeting in 2014. If such a letter would be useful in helping you to obtain funding, please contact Zuleyma Tang-Martinez: zuleyma@umsl.edu to request an invitation. Please provide your name and address, as well as the title or topic of the paper you will be presenting at the conference.

**ABS STANDING COMMITTEE AND
SUBCOMMITTEE CHAIRS 2013-2014**

If you would you like to volunteer for one of the society's active committees listed below, contact ABS President Daniel Rubenstein, Department of Ecology and Evolutionary Biology, Princeton University, Princeton, NJ 08544-1003, USA. Phone: (609) 258-5698 E-mail: dir@princeton.edu

Committee Chairs 2013-2014

Animal Care: Alexander Ophir, Department of Psychology, Cornell University, 224 Uris Hall, Ithaca,

NY, 14853. Phone: (607) 255-3714, E-mail: ophir@cornell.edu

Conservation: Bruce A. Schulte, Ph.D., Department Head of Biology, Western Kentucky University (WKU), 1906 College Heights Blvd. #11080, Bowling Green, KY 42101-1080 Phone: (270) 745-4856, E-mail: bruce.schulte@wku.edu

Nomination: Robert Seyfarth, Department of Psychology, University of Pennsylvania, 3815 Walnut Street, Philadelphia, Pennsylvania 19104-6196, US. E-mail: seyfarth@psych.upenn.edu

Education: Susan Foster, Department of Biology, Clark University, 950 Main St., Worcester, Massachusetts 01610-1473 USA. Phone: (508) 793-7204, E-mail: sfoster@clarku.edu

Film: Michael Noonan Department of Psychology Canisius College, Buffalo, NY 14208-1098, USA. Phone: (716) 888-2518, E-mail: noonan@canisius.edu

Applied Animal Behavior: Stephen Zawistowski, Certified Applied Animal Behaviorist, Executive Vice President, National Programs and Science Advisor, ASPCA, 110 Fifth Avenue, 2nd Floor, New York, NY 10011 USA. Phone: (212) 876-7700, ext. 4401 E-mail: stevez@ascpa.org

Public Affairs: Caitlin Gabor, Department of Biology Texas State University 601 University Dr. San Marcos, TX 78666-4615, USA. Phone: (512) 245 3387, E-mail: Gabor@txstate.edu

Board Prof. Cert. Subcom: Crista Coppola, Certified Applied Animal Behaviorist, Dog and Company Behavior Consulting, USA, E-Mail: crista@dogandco.com

Latin American Affairs: Oscar Ríos Cárdenas, Instituto de Ecología, A.C., Biología Evolutiva, Km 2.5 Carretera antigua a Coatepec No. 351, Congregación El Haya, Xalapa, Veracruz, 91070 MEXICO E-mail: oscar.rios@inecol.edu

Student Research Grants Committee: Gail Patricelli, Department of Evolution & Ecology, University of California, One Shields Avenue, 2320 Storer Hall, Davis, CA 95616, US. Phone: (530) 754-8310, E-mail: GPatricelli@ucdavis.edu

Career Awards: Robert Seyfarth, Department of Psychology, University of Pennsylvania, 3815 Walnut Street, Philadelphia, Pennsylvania 19104-6196, US. E-mail: seyfarth@psych.upenn.edu

Development: Lee Drickamer. Department of Biological Sciences, Northern Arizona University, Flagstaff, Arizona, 86011-5640, US. Phone: (520) 523-0388, E-mail: Lee.Drickamer@nau.edu

Diversity: Zuleyma Tang-Martinez, Whitney R. Harris World Ecology Center, B216 Benton Hall One University Boulevard, St. Louis, MO 63121-4400 USA, (314) 516-6203, E-mail: zuleyma@umsl.edu

Membership: Kaci Thompson, College of Life Sciences, University of Maryland, College Park, Maryland 20742, E-mail: kaci@umd.edu

Web Policy and Website Review: Shan D. Duncan, Indiana University, c/o Animal Behavior Society, 402 North Park Ave, Bloomington, IN 47408, USA. Phone: (812) 856-5541, E-mail: sdduncan@indiana.edu

GENESIS AWARD POSTER REMINDER

The Genesis Award, first presented at the 2000 meeting, was created to encourage undergraduates from academic institutions of all sizes to participate in research and present their findings in a professional forum. Please note that this year, undergraduates who wish to enter the Genesis Award Poster Competition must indicate this as part of the abstract submission process. Judging criteria are listed on the ABS website and include significance of the research topic, research methodology, research results, and presentation. Presentation encompasses the student's oral discussion with the judges and the poster itself, including clear statements of the question and results, demonstration that there has been appropriate literature review, good organization, and visual appeal. Students should be prepared to demonstrate a mastery of their subject material.

2014 FOUNDERS' MEMORIAL POSTER

The Founders' award is given to the best poster paper in the Founders' poster session at the annual meeting and is open to all members of the Society in good standing. To join that session (and thus receive consideration from the judging panel), you must have

indicated your interest on the registration form for the scientific program.

SILENT AUCTION REMINDER

Bring Items to Princeton to Donate!!

Bring items from home, pick up items in your travels or from your field sites, or obtain donations from supportive colleagues and organizations. The more items we have, the more likely the auction will be as successful as it was last year!

What kind of items or services seem to be desirable?

- Books on Animal Behavior, Biology, Ecology, Conservation, Applied Animal Behavior, etc.
- Autographed books from ABS authors
- Items with animal themes (t-shirts, jewelry, calendars, decor, greeting cards, posters, etc.)
- Software useful for members (statistics, data collection, etc.)
- Videotapes for teaching or entertainment with behavior themes.
- Donations from zoo gift shops
- Memorabilia from past ABS meetings and members (vintage artifacts)
- Animal Photography
- Animal Artwork
- Statistical consulting, behind-the-scenes tour of the zoo, etc.
- Items from past meetings
- Anything legal that appeals to ABS Members!!

Items that you donate for the auction will be placed at the meeting on tables next to bidding forms, or described if the item is not present. During the meeting, members will visit the tables and bid on items by entering their bid on the bidding form. The auction will continue for several days while members bid against one another. The member with the highest bid at the deadline wins the item and takes it home with them.

Drop your items at the Registration Desk!

Funds raised will support Graduate Student Research and Latin American Affairs!

Contact Us About Your Donations

James Ha (jcha@u.washington.edu)

Renee R. Ha (robinet@u.washington.edu)

WORKSHOPS AT THE ANIMAL BEHAVIOR SOCIETY MEETING

Vision and Change in Teaching Animal Behavior

ABS Pre-Conference Workshop
2-5:30pm Saturday, August 9, 2014

We know the world is changing rapidly, and so is the way we do and teach science.

Beyond the concepts we need to teach in any scientific discipline, students will also need to develop competencies including the ability to engage in interdisciplinary work, the ability to understand the relationship between science and society, the ability to use quantitative reasoning, and the ability to use modeling and simulation (AAAS 2011). Increasingly, the ability to find, manage, and analyze large amounts of data is also becoming important. How do we help our students to develop these competencies?

Please join us for a pre-conference workshop that will explore innovative teaching approaches that address the development of some of these competencies and ways to improve the teaching of animal behavior. The workshop will also discuss efforts to build the ABS Teaching Resources Collection.

The workshop will be held Saturday, August 9, 2-5:30pm. This workshop is open and free to all ABS meeting attendees. Please RSVP for the workshop at <https://www.surveymonkey.com/s/8RFYY5Q> . For questions, please contact Cynthia Wei at CynthiaAWei@gmail.com. For details, please see the information in the ABS Program Overview at the end of the Newsletter.

ORGANIZERS

ABS Education Portal Subcommittee:

Ipek Kulahci – Graduate Student, Princeton University

Dr. Susan Longest – Assistant Professor, Colorado Mesa University

Dr. Colleen McLinn – Program Director, Center for the Integration of Research, Teaching, and Learning (CU-CIRTL), Cornell University

Dr. Laura Sirot – Assistant Professor, College of Wooster

Dr. Cynthia Wei (Chair) – Assistant Director of Education and Outreach, National Socio-Environmental Synthesis Center (SESYNC)

Dr. Heather Zimmler-DeLorenzo – Assistant Professor, Alfred University

Questions? Please contact Cynthia Wei at CynthiaAWei@gmail.com

AAAS (2011) *Final Report- Vision and Change in Undergraduate Biology: A Call to Action*
<http://visionandchange.org/finalreport/>

Behavioral Ontologies: Finalizing a Unified Ontology

Anne Clark, Sue Margulis, Peter Midford, Cindy Parr

In 2000, a diverse group of behavioral scientists recognized the need for broad scientific and public access to behavioral data. In order to accomplish this, a common set of terms with defined relationships would be needed to facilitate data sharing and meta-analyses. At an **initial National Science Foundation (NSF) sponsored meeting in 2000 in Bloomington IN**, the behavioral scientists began the **EthoSource project** (Martins, 2004) with the goal of making behavioral data and methodologies readily accessible and interpretable among scientists, and eventually the general public. EthoSource founders recognized that behavioral data present a unique set of challenges for developing a shareable scientific and educational resource. These challenges include the sheer diversity of behaviors among animals, the many kinds of contextual data (ecological, population, individual, physiological, etc) needed for interpretation, the varied methodological backgrounds of studies, and the fact that “data” can be recorded in the form of digital images, audio recordings, quantitative measurements, or coded data. A series of workshops over the past decade (have continued to move the effort forward, and) resulted in a draft *Animal Behavior Ontology* (ABO). Of course, related fields have also needed controlled vocabularies and in 2013, a discussion group at the Phenotype RCN concluded that the new *NeuroBehavioral Ontology* (NBO) could be modified to be broadly applicable to diverse fields across animal behavior and neurobiology.

As one of two major steps to finish these modifications, we plan a targeted workshop just before ABS 2014 to bring together behavioral experts representing different taxa and sub-disciplines. Their task will be to identify the key changes and additions that will make the NBO serve the behavior and neurobiology community. At a subsequent workshop ontology programmers will implement the changes. We expect the resulting *Comprehensive Behavioral Ontology* (CBO) to facilitate collaborative studies across sub-disciplines, to support meta-analyses of existing, published data, and to encourage broader use of behavioral data.

We believe the CBO will aid research in our field, and we welcome input from all ABS members and encourage members to contribute to, and utilize the

resource that has been nearly two decades in the making.

CALL FOR SYMPOSIA

2015 ABS MEETING - ORGANIZING SYMPOSIA AND PAPER SESSIONS

The 52nd meeting of the Animal Behavior Society will be held 14-18 June in Anchorage, Alaska. Members interested in hosting a symposium, an invited paper session, or a workshop are encouraged to contact the Program officers to discuss preparation of a proposal. We will first make sure that there are no potential conflicts with the topic that you are considering. Then we will ask you to prepare a pre-proposal and submit it to the Program Officer Elect. Organizers often find that consultations with the Program Officers are helpful when drafting the pre-proposal. The pre-proposal should be a page or two summarizing your intent for the session, and suggesting potential participants.

A symposium should be a profound and stimulating review of an important subject area that currently is a major focus of research. It should be a thorough treatment of past work and current research advances, and should be of general interest to the majority of ABS members.

An invited paper session is a special grouping of papers that focus upon empirical results relating to a particular topic. Usually there is no all-encompassing historical-theoretical perspective, although the organizer(s) may wish to summarize the individual papers or arrange them according to some theme.

Pre-proposals for the 2015 meeting are due before the annual meeting at Princeton University in 2014 and will be circulated to the Executive Committee - EC prior to the Annual Meeting and then discussed at the EC meeting.

Further information can be obtained by contacting the ABS Program Officers: Michael Beecher, University of Washington, Animal Behavior Program, Seattle, WA 98195-1525, USA. Phone: (206) 543-6545 E-mail: beecher@u.washington.edu and Mark E. Hauber, Department of Psychology, Hunter College, 695 Park Avenue, New York, NY 10065, USA. Phone: (212) 396-6442 E-mail: mark-hauber@hunter.cuny.edu

MEETINGS

ANIMAL BEHAVIOR SOCIETY ANNUAL MEETINGS

2014: 9-14 August, **Animal Behavior Society** – 51st Annual Meeting, Princeton, New Jersey.

2015: 14-18 June, **Animal Behavior Society** – 52nd Annual Meeting, Anchorage, Alaska

OTHER US MEETINGS

2014: 3-4 October, **Life Discovery-Doing Science**, San Jose, California



If you are interested in promoting teaching and learning in organismal and environmental biology, please consider attending this unique event.

This conference is one of two major efforts being developed by a partnership of societies and spearheaded by the Ecological Society of America. The Animal Behavior Society is a conference collaborator, and we are joining the partnership in their second major effort: the development of the Life Discovery Digital Library (which will house teaching resource collections from various societies including ABS). Please help ABS spread the word about both efforts.

More information about the conference can be found at: <http://www.esa.org/ldc/>

Please contact Cynthia Wei at CynthiaAWei@gmail.com for more information.

2014: 12-15 September, **American Society of Primatologists**- 37th Meeting, Decatur, Georgia.

2014: 30 July – 2 August, **Human Behavior and Evolution Society (HBES)** – 26th Annual Meeting, Natal, Brazil.

INTERNATIONAL MEETINGS

2014: 16-19 May, **International “Stress and Behavior” Neuroscience and Biopsychiatry Conference** 20th Annual Meeting, St. Petersburg, Russia.

2014: 22-24 June, **International Regional (North America) Stress and Behavior Conference** 4th Annual Meeting, New Orleans, Louisiana

2014: 31 July - 5 August, Congress of the **International Society for Behavioral Ecology (ISBE)** - Annual Meeting, New York City, New York.

2014: 17-20 July, joint meeting of the **Association for the Study of Animal Behavior (ASAB)** and **European Conference on Behavioural Biology (ECBB)** –Prague, Czech Republic

2015: 2-6 August, **International Congress for Conservation Biology (ICCB)** – 27th Meeting, Montpellier, France

NOTICE!

Issues of the ABS Newsletter are published *first* on the ABS Web page. Hard copies of the Newsletter are delivered by mail and may take weeks to arrive. To get ABS news *fast*, point your browser to: <http://animalbehaviorsociety.org/central-office/abs-newsletters>

IN MEMORIAM: ALISON JOLLY
Primatologist and conservationist famous for her work on the lemurs of Madagascar
Alison Richard

Reprinted by permission of The Guardian
(<http://www.theguardian.com/science/2014/feb/19/alison-jolly>)



Alison Jolly's in-depth field research on the behaviour and ecology of lemurs in Madagascar helped to transform our understanding of the evolution of social behaviour. Photograph: Cyril Ruoso

As a postdoctoral student at Yale University in the early 60s, Alison Jolly pioneered in-depth field research on the behaviour and ecology of lemurs in Madagascar. Her life subsequently took her to Cambridge University, the New York Zoological Society, and the universities of Cambridge, Princeton,

Rockefeller and Sussex. Throughout these travels, her abiding interest in big questions to which small lemurs might provide answers never wavered and, over the years, her insights transformed our understanding of the evolution of social behaviour.

A steadfast champion of lemur conservation, Jolly, who has died aged 76, was also among the first to argue that conservation must recognise the needs of local people. She nurtured students, too, in Madagascar and beyond, and a whole generation of primatologists and conservation biologists came of age with her encouragement and support.



Alison Jolly with lemur and kinkajou, 1961. Photograph: Richard Jolly

Ideas first put forward by Jolly in the 1960s and 70s became part of the landscape of evolutionary biology and gave rise to an intellectual genealogy as wide as it is deep. In *Lemur Behaviour* (1966), she was the first to establish clearly from meticulously reported field observations the odd fact that among the lemurs she studied, females typically had priority over males, upending the longstanding assumption that male primates are always bigger, fiercer and dominant.

In seminal articles after this work, Jolly explored the evolutionary contexts that would favour female priority, and linked her field research with experimental studies of dexterity – or the lack thereof – in captive lemurs to argue that social environment rather than ecological factors drove the evolution of intelligence among primates.

Jolly developed these ideas further in two books, *The Evolution of Primate Behaviour* (1972) and *Lucy's Legacy: Sex and Intelligence in Human Evolution* (1999). She never described herself as a feminist, but simply lived a life that led and supported feminism.

Daughter of the artist Alison Mason Kingsbury and the humorist and Cornell scholar Morris Bishop, Jolly was born and raised in Ithaca, New York. She graduated with a BA in zoology from Cornell University, Ithaca, and a PhD in zoology from Yale University. At Yale, she met Richard Jolly, an Englishman also studying for a PhD, and they married in 1963. They lived on both sides of the Atlantic and raised four children, Margaretta, Susan, Arthur and Richard.

Alison's ideas about conservation were much influenced by Richard, a distinguished development economist. Together, they wrote a paper for the 1970 international conference on conservation in Madagascar titled *Conservation: Who Benefits and Who Pays?* Too controversial to be included in the published conference proceedings, the paper circulated informally instead, opening new ways of thinking and in time helping to establish an approach to conservation that included the needs and aspirations of people as well as the island's unique and endangered natural communities.

In *A World Like Our Own: Man and Nature in Madagascar* (1980), Jolly simultaneously celebrated the enigmatic riches of the island's natural heritage and offered an unflinching account of the environmental crisis enveloping people and wildlife alike. Here, her encompassing vision, compassion, humour, perceptiveness and ability to combine science and personal experience in wonderfully evocative narrative all came together for the first time. "... Madagascar tells us which rules would still hold true if time had once broken its banks and flowed to the present down a different channel ..." No one has said it better, before or since.

Never just a conservation commentator, Jolly also immersed herself in action, from advising the multinational corporation Rio Tinto on the development of the QMM titanium mine on the country's southern coast and, with her Malagasy colleague Hanta Rasamimanana, writing the *Ako* books about lemurs for children in Madagascar's primary schools, to mentoring a rising generation of Malagasy conservation scientists.

Jolly's genius lay in the creativity of her mind, the acuteness of her eye, a remarkable way with words and the ability to be wholly enthusiastic while delivering blunt home truths. No one who knew her, from first-year students to high-ranking World Bank officials, will forget the warm smile and the lilting, measured voice with which she offered these truths.

At the time of her death Jolly was visiting scientist at the University of Sussex. She was president of the [International Primatological Society](#) from 1992 until 1996 and received its lifetime achievement award in 2010. She was awarded a knighthood by the National Order of Madagascar in 1998 and the Osman Hill memorial medal by the [Primate Society of Great Britain](#) in 2006. In 2006, a new species of mouse lemur, *Microcebus jollyae*, was named in her honour,

while a parcel of recently restored mining forest in Madagascar was named after her in January this year.

She is survived by her husband, children and four grandchildren.

- Alison Jolly, primatologist and conservationist, born 9 May 1937; died 6 February 2014

theguardian.com Copyright (c) Guardian News and Media Limited. 2014 Registered in England and Wales No. 908396 Registered office: PO Box 68164, Kings Place, 90 York Way, London N1P 2AP

METHODS FOR ANIMAL BEHAVIOR RESEARCH DVD AVAILABLE

The “Methods for Animal Behavior Research” DVD is a complete tutorial in all the steps of the research process from literature searching to data analysis as they pertain to behavioral studies. The DVD is designed for undergraduates but can be used for high school students through professionals new to behavior research. The DVD is available for \$5/copy and is available now. The tutorial has received favorable reviews from the *International Society of Behavioral Ecologists* and *Zoo Biology*. The DVD was developed by the Behavior Advisory Group of the Association of Zoos and Aquariums. A full description of the DVD, video samples, and ordering information are available at: <http://www.aza.org/methods-for-animal-behavior-research-dvd/> Over 2000 copies have been distributed to teachers and professors in over 20 countries with an estimated 45,000 students using the DVD each year.

DONATIONS TO ABS FUNDS

(Contributors in alphabetical order by first name)

Abby L. Schwarz, Ann MCM Kenny, Arlene Zaremba, Astrid Kodric-Brown, Brent Clark White, Christine R. Boake, Daniel R. Papaj, Diana K. Hews, Dietland Muller-Schwarze, Elizabeth M. Hill, H. Jane Brockman, Hannes Schraft, Jack Clinton Eitniew, Jan A. Randall, Jennifer J. Templeton, Jill A. Soha, John Alcock, John C. Mitani, Juergen Liebig, Julie Hecht, Kaia Tombak, Kenneth B. Armitage, Kristine Coleman, Lee C. Drickamer, Lincoln P. Brower, Lynne A. Isbell, Mary Jane West-Eberhard, Nancy Klepper-Kilgore, Peter E. Midford, Rita E. Anderson, Robert B. Srygley, Robert E. Martin, Robert M. Gibson, Ronald A. Javitch, Sarah K. Woodley, Sergio M. Pellis, Sonia A. Cavigelli, Stephen H. Jenkins, Stephen H. Jenkins, Susan Lingle, Sylvia Corte, Sylvia L. Halkin, Valerie G. James-Aldridge, Victor J. DeGhett, Zuleyma Tang-Martinez

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 (virus and bug alerts), appropriate software and hardware reviews, and new of Society activities and business. ABSnet is not an interactive, listserv-type of discussion group, but rather a moderated forum for exchange of information of general interest to animal behaviorists. The digest or newsletter does not replace the official Society newsletter sent to all Society members via email link or regular mail.

Note: ABSnet is moving to a new system. In the meanwhile, all announcements can go to ABSNews located at <http://animalbehaviorsociety.org> click on the News and Announcements section.



ANIMAL BEHAVIOR SOCIETY
2014 CONFERENCE
PRINCETON UNIVERSITY

ABS 2014

Princeton University

9 August – 14 August

<https://abs2014.princeton.edu>

Registration & Accommodation booking and Abstract submission are open. Late registration and late abstract submission commences 16 May.

Registration:

	<i>Before May 1</i>	<i>After May 1</i>
ABS Members	\$325	\$425
ABS Student members	\$125	\$175
Non-members	\$475	\$575
Developing Nation member* \$100		\$150
Developing Nation Student* \$50		\$75

*Developing country attendees are those **currently** enrolled or working at an institution in the developing world. This does NOT include persons currently working or enrolled in institutions in the USA, Canada or other developed countries, regardless of country of origin.

Special Rate for ISBE Registrants

Before May 1

\$325 ISBE registrant from non-US institution
\$125 Student ISBE registrant from non-US institution

After May 1

\$425 ISBE registrant from non-US institution
\$175 Student ISBE registrant from non-US institution
Must provide PayPal confirmation number from ISBE registration

Additional event fees

\$20 Welcome Reception on Saturday, August 9, 2014
\$65 Closing Banquet on Wednesday, August 13, 2014
\$10 Filmmaker's Workshop for Animal Behaviorists on Saturday, August 9, 2014

The 51st Annual Conference of the Animal Behavior Society will be held in Princeton, New Jersey from Saturday, August 9th to Thursday, August 14th, 2014, with strong representation from North American, South American and European researchers.

Meeting Highlights

Keynote Speaker

Iain Couzin

Professor, Princeton University

“Collective sensing and decision making in animal groups”

Sunday 10 August

Dr Couzin's research focuses on collective behavior. Understanding how social influence shapes biological processes is a central challenge, essential for achieving progress in a variety of fields ranging from the organization and evolution of coordinated collective action among animals, or cells, to the dynamics of information exchange in primate societies. Utilizing advanced tracking and imaging technologies his lab investigates the causes and consequences of social behaviors over ecological and evolutionary timescales in order to identify principles that underlie collective behavior across levels of biological organization.

Conservation Plenary Speaker

David W. Macdonald FRS

Professor, University of Oxford

“From groundedness to geopolitics in pursuit of conservation”

Monday 11 August

Professor David Macdonald CBE DSc FRSE is the Director of the Wildlife Conservation Research Unit (WildCRU) in the Department of Zoology, which he founded in 1986. He researches aspects of fundamental biology relevant to solving practical problems of wildlife conservation and environmental management, and thus to underpin policy formation and public debate of the many issues that surround the conservation of wildlife and its habitats. He has published over 800 papers in refereed international journals, and written or edited more than a dozen

books. His research developed from spatial aspects of carnivore social behaviour, including long-term studies of badgers, lions and Ethiopian wolves, to embrace highly inter-disciplinary approaches to conservation biology. He has published two taxonomically-based volumes that consolidate much of his research on carnivores: 2004 *The Biology and Conservation of Wild Canids*, 2010 *The Biology and Conservation of Wild Felids*, a third, *The Biology and Conservation of Wild Musteloids*, is underway. His most recent book, *Key Topics in Conservation Biology* volume 2, was published in 2013.

Plenary Speaker

Sarah Brosnan

Associate Professor, Georgia State University

“Comparative Economics: Decision-making across the primates”

Tuesday 12 August

Dr Brosnan studies decision-making in the context of cooperation, focusing on what decisions individuals make, how their social or ecological environments affect their decisions and interactions, how the context affects decision-making, and under what circumstances they can alter their behaviors contingent upon these inputs. She takes an explicitly comparative approach, investigating New World monkeys, Old World monkeys, and great apes, including humans, as well as other non-primate species, to better understand the distribution of these behaviors across animals and to understand the environmental constraints on cooperation. She collaborates across disciplinary boundaries, and one of her goals is to bring together the accumulated evidence from different fields to form a better understanding of the evolution of cooperative decision making.

Plenary speaker

Tim Clutton-Brock FRS

Professor, University of Cambridge

“The Origins of Society”

Wednesday 13 August

Although ecologists have traditionally treated animal populations as if they consisted of random collections of individuals, many vertebrates live in highly structured societies whose characteristics have profound effects on ecological and evolutionary processes. This lecture describes the diversity of mammalian societies; their effects on the characteristics of females and males; and the evolution of cooperation in humans and other animals. Dr

Clutton-Brock is known for his long-term, individual based studies of mammals, including primates, red deer, Soay sheep and meerkats in the Kalahari Desert.

President’s Plenary

Dan Rubenstein

Professor, Princeton University

“Why Behavior Matters”

Wednesday 13 August

As behaviorists we each believe we know why an understanding of behavior is important. But important in what way and to whom? Each of us will have our own answers to these questions, but there are some compelling commonalities that I will explore in my talk that can help shape the field for years to come.

Workshop: Quantitative analysis of collective behavior – from the lab to the wild

Organizers: Nicolas Perony (ETH Zurich), Simon Garnier (NJIT), Andrew King (Swansea University), Damien Farine (Oxford University) & Iain Couzin (Princeton University)

Sunday 10 August

Recent advances in computer vision and telemetry have made it possible to gather high resolution spatiotemporal data on the movements and interactions of animals within groups (and increasingly within populations), both in lab and field conditions. The development of these methods has largely been driven by the aim of understanding the individual rules that govern collective behaviour, but are increasingly being applied in a broader ecological context. Behavioral researchers are currently creating and testing new analytical frameworks in order to make sense of the unprecedented volume and precision of the data collected. Such frameworks are necessary for an integrated understanding of coordination mechanisms and the dynamic emergent functional properties of animal groups.

In this workshop we will present an overview of the latest research achieved by employing automated techniques to measure animal behavior and social interactions in both laboratory and field settings. In particular we will focus on studies which have involved the collection of high frequency data at multiple scales. We will also review existing and in development tools to gather and process such data, to build dynamic networks of interactions, and to analyze

information transfer in large animal populations. We will stress the importance of developing methods that can apply across systems, and scales, in order to obtain an integrated understanding of the social and ecological factors underlying collective animal behavior.

The workshop will gather students and researchers at all levels studying social and group behaviors in the laboratory and/or in the field. It will feature short presentations on the latest tools and techniques (existing or in development) to collect and process interaction and movement data from animal groups. The workshop will also feature discussion panels aimed at identifying future research directions and collaboration areas to unify laboratory and field studies of collective behavior.

- Meg Crofoot, UC Davis
- Richard Mann, Uppsala University, Sweden
- Lucy Aplin, University of Oxford, UK
- Mate Nagy, University of Oxford, UK
- Elva Robinson from the University of York
- Alfonso Perez-Escudero, Cajal Institute, Madrid

President's Symposium

How the Evolution of Sociality Shapes the Brain, Behavior, and Cognition

Organizer: Robert Seyfarth

Wednesday 13 August

For many animal species, some of the strongest selection pressures acting on the brain and cognition come from the social environment: from the need to distinguish different individuals, remember past interactions, recognize relationships, and predict other animals' behavior. The results of selection acting within the social domain are ubiquitous: many species have brains that are particularly sensitive to their own species' calls; others have brain areas that are specialized for the recognition of faces, voices, gaze direction, and for the assessment of other individuals' intention to perform a particular action. Long-lived animals like hyenas, dolphins, baboons, and chimpanzees also recognize the relationships that exist among others, perhaps because this knowledge is necessary to predict other individuals' behavior. The goal of this symposium is to review what we know about the ways in which evolution, acting within the social environment, has shaped the brain, behavior, and cognition in different species. This two-day symposium will be the basis of a special issue of *Animal Behaviour*.

- Jacinta Beehner & Thore Bergman, *University of Michigan*, "Bridging sociality and cognition: What do animals know about each other?"
- Lauren Brent, *Duke University*, "Social networking: The evolution of behavioral tendencies and friendly relations"
- Dorothy Cheney, *University of Pennsylvania*, "How to win friends and influence fitness: Lessons from female baboons"
- Lars Chittka, *University of London*, "Large societies and small brains: Insects as minimal models of social cognition"
- Richard Connor, *University of Massachusetts, Dartmouth*, "Dolphin politics in Shark Bay"
- Molly Cummings, *University of Texas*, "The mate choice mind: Studying mate preference and aversion in the female brain"
- Russ Fernald, *Stanford University*, "How does social status change the brain?"
- Kay Holekamp, *Michigan State University*, "Brains, brawn, and sociality: A hyena's tale"
- John Quinn, *University of Cork*, "The functional significance of personality in a wild bird population"
- Michael Platt, *Duke University*, "The neuroethology of primate social behavior"

Warder Clyde Allee Symposium

Organizer: Emilia Martins

Tuesday 12 August

This annual symposium of graduate student research, with an award for the best paper, is a highlight of the ABS meeting. Talks are often an introduction to the most promising young researchers studying animal behavior. Ten graduate student presenters will be selected by the president-elect and a panel of judges from applications received by 1 March 2014. The session honors Dr. Warder Clyde Allee (1885–1955), an animal behavior researcher who was very influential in the development and direction of animal behavior research in the 20th century.

Workshop: Vision & Change in Animal Behavior Education

Organizers: The ABS Education Resources Portal Subcommittee: Cynthia Wei, Colleen McLinn,

Heather Zimbler-DeLorenzo, Laura Sirot, Susan Longes & Ipek Kulahci

Saturday 9 August

This workshop is open and free to all ABS meeting attendees. Please RSVP for the workshop at <https://www.surveymonkey.com/s/8RFYY5Q>. For questions, please contact Cynthia Wei at CynthiaAWei@gmail.com.

Workshop Goals:

- Introduce participants to promising practices and resources for teaching animal behavior.
- Engage participants in discussions about improving the teaching of animal behavior.
- Develop a set of recommendations for action by interested ABS members.
- Introduce participants to the ABS Education Resources Portal and encourage use of and submission to the Portal.

PART 1: VISION: INNOVATIONS IN TEACHING

2:00pm Introduction to workshop

2:05pm Presentation: National conversations and directions in science education.

2:15pm Panel Presentations: Innovations in Teaching

- Dr. Rebecca Jordan, Associate Professor of Environmental Education and Citizen Science, Rutgers University
Engaging with Citizen Science
- Dr. Kaci Thompson, Director of Undergraduate Research Programs and Internships, University of Maryland
Integrating Interdisciplinarity into the Classroom
- Dr. Tanya Dewey, Business and Program Director, Animal Diversity Web, University of Michigan
Teaching with Databases and Multimedia Resources (panelist TBA)

3:15pm Discussion with panelists

PART 2: CHANGE: ADVANCING ANIMAL BEHAVIOR EDUCATION

4:00pm Update on Progress toward an Animal Behavior Education Resources Portal (and Call for Submissions)

4:10pm Breakout Session:

In groups of 4-6 people, each group will discuss one of the following topics:

- Developing the ABS Teaching Resources Collection. How can we develop a high-quality collection and how can we make it most useful?
- Science is becoming increasingly interdisciplinary. What kinds of interdisciplinary competencies can be taught in animal behavior courses and how?

- What does it mean for students to understand the relationship between science and society in the context of animal behavior? How can we teach this competency?
- How can we improve students' ability to use models and simulations, and quantitative reasoning skills?
- Other emerging discussion topics

Each group will be asked to report on the following:

- What are some challenges and opportunities related to accomplishing the teaching goal discussed?
- Promising practices, ideas, and/or resources related to the topic in the context of teaching animal behavior.

5:00pm Report out from working groups and next steps

5:30pm Prize Drawing

Symposium: Animal Behavior and One Health

Organizer: Steve Zawistowski and the Applied Animal Behavior Committee

Sunday 10 August

Organized by the Applied Animal Behavior Committee. One Health (or One Medicine) originated as an effort to develop relationships and synergy between the fields of human and veterinary medicine. The One Health concept has expanded to include a wider vision of the relationships between humans, animals and the natural world. The purpose of this symposium is to introduce this concept to the ABS membership and highlight the way that the study of animal behavior can contribute to, and benefit from a growing interest in One Health.

- Introduction to One Health
- Cognition and Well-Being – Irene Pepperberg
- The Power of Animal Models of Behavior: Social Behavior, Stress, and Reproduction in a Non-human Primate
– Jim Ha
- Genes and behavioral disorders in man and animals – Alice Moon-Fanelli
- Benefits of the Human-Animal Bond – James Serpell
- Workshop proposal for the 2015 meeting of the Animal Behavior Society

Latin American Researchers Workshop

Organizers: Regina Macedo & Michelle Scott

Sunday 10 August

Animal Behaviour journal editor, Dr. Michelle Scott, and a group of selected researchers hope to provide guidelines and discuss the types of research and manuscripts that are more readily considered in top-ranked concept-oriented journals like *Animal Behaviour*. We hope to increase Latin American participation in publications in the Society's journal. The workshop will be conducted on August 10th from 7 to 9 pm.

Function & Evolution of Low-Amplitude Communication Signals

Organized by Rindy Anderson and Dustin Reichard

Monday 11 August

A wealth of research on the function and evolution of animal communication signals has made this topic a model system for understanding how **behavior evolves**. **Research on acoustic communication has long focused on conspicuous high-amplitude signals, which** transmit broadly to multiple receivers and serve important functions in territoriality, mate attraction, and alarm signaling. This symposium will focus on recent research showing the surprising role of inconspicuous, low-amplitude (quiet) signals produced by many species during close-proximity interactions associated with courtship, elevated aggression, or group movements and cohesion.

Rindy Anderson (Duke University) & Dustin Reichard (University of California, Davis), "Low-amplitude acoustic signaling: a symposium overview and insights from two sparrow systems"

Çağlar Akçay (Cornell University) & Michael Beecher (University of Washington), "Sing softly and carry a big stick: aggressive signaling via soft song in song sparrows."

Stephen Nowicki, Rindy Anderson (Duke University) & William Searcy (University of Miami), "Why be quiet? Potential audiences for soft song in sparrows"

Susan Balenger (University of Minnesota)

Morgan Gustison (University of Michigan), "Why

grunt? Exploring the form and function of soft calls: in geladas and other primates"

Simon Townsend (University of Zurich)

Sue Anne Zollinger (Max Planck Institute for Ornithology)

Outreach Fair: "Adventures in Animal Behavior"

Organizer: Emilie Snell-Rood

Saturday 9 August

The fourth annual ABS outreach fair will be held the day prior to the 2014 meeting, Saturday August 9th, 1-5 pm on the Princeton campus. This event features interactive displays and activities related to the research of 20 labs from around the country and is meant to engage the public in the excitement of animal behavior, from the methods and techniques used to study behavior, to major concepts and ideas in the field, to various applications of the research. In the past, 300-600 people have passed through the event and students and professors alike have had great fun communicating their research to a wide audience. If your lab is interested in participating, please contact Emilie Snell-Rood (emilies@umn.edu).

Symposium: Animal Behavior and Disease Ecology

Organizers: Vanessa Ezenwa and Beth Archie

Monday 11 August

Animal behavior plays a key role in the transmission of parasites and pathogens. Likewise, parasites are crucial drivers of animal behavior. Disease ecology is one of the fastest growing sub-disciplines of ecology, and animal behaviorists have played a crucial role in developing some of the fundamental theories in this field (e.g. Alexander, Hamilton, Zuk). The objective of this symposium will be to discuss historical and current hypotheses linking infectious disease ecology and animal behavior; evaluate the importance of animal behavior for understanding disease ecology and vice versa; and explore how new technologies (e.g. next generation sequencing, proximity collars) are providing behaviorists with novel tools for testing

new and old hypotheses at the intersection of these two fields.

Elizabeth Archie (University of Notre Dame), *Social effects on the gut microbiome in wild baboons*

Meggan Craft (University of Minnesota), *Infectious disease dynamics on wild animal contact networks*

Vanessa Ezenwa (University of Georgia), *Parasite-mediated feedback loops and the maintenance of behavioral variation*

Dana Hawley (Virginia Tech), *Social behavior and pathogen transmission in house finches: are the super-spreaders also the super-receivers?*

Geoffrey Hill (Auburn University), *Mitochondrial function, innate immunity, and ornament production*

Lynn Marty Martin (University of South Florida), *Sources and consequences of individual physiological heterogeneity in avian disease systems*

Janice Moore (Colorado State University), *Parasites, Behavior and Umwelt*

Poster Sessions & Symposia

Poster sessions provide excellent opportunities for interaction and discussion regarding recent research. Contributed posters will be viewed in two evening poster sessions, accompanied by food and drink. Posters will be grouped according to research categories identified by presenters at the time of submission. *Poster symposia* are clusters of posters curated by the symposium organizer. Any poster presenter with research relevant to a symposium theme can enter their poster for consideration for inclusion in the symposium by selecting the relevant subject category at abstract submission.

Poster Session A: Monday 11 Aug includes:

- **Genesis/Turner Undergraduate Research Poster Symposium.** Organizer: Emilia Martins
- **Other contributed posters, groupings TBA**

Poster Session B: Tuesday 12 Aug includes

- **President's Symposium Poster Session**
- **Applied Animal Behavior Poster Symposium**

Filmmaker's Workshop

Organizers: Mike Noonan & Dan Rubenstein

Saturday 9 August

“The Art of Science Storytelling: Practical Skills in Portraying Animal Behavior in Film”

The principal way in which the public learn about animal behavior is via film. If you have ever wondered how good films are made, join us for a practical workshop that will introduce the ways filmmakers progress from raw footage to final product. Using real examples, we will start by recognizing the choices that film makers make, and the impact those choices have on the viewer. Next, we will build practical skills in story board development, managing audio-video files, and organizing work flow. Lastly, participants will learn film editing techniques by actually producing two different short films from the same catalog of raw footage.

Registration fee: \$10

31st Annual ABS Film Festival

Organizer: [Mike Noonan](#)

Saturday evening 9 August

Now in its 31st year, the ABS Film Festival features outstanding film that portray important concepts in animal behavior research and education. Categories include both amateur (non-commercial) and professional (commercial) films produced in the preceding five years. In addition, ABS members are encouraged to bring short video clips of their own to share in an informal film event (<http://animalbehaviorsociety.org/absfilm>).

Special Events

OPENING RECEPTION

Saturday 9 August

Greet old friends, meet new ones, and enjoy some great food and drink.

This is a ticketed event that incurs an additional fee at registration.

UNDERGRADUATE LUNCHEON & RECEPTION

Sunday 10 August

The reception provides a networking platform for undergraduate students attending ABS, and an opportunity for ABS faculty members to introduce their programs to potential graduate school applicants. The event includes lunch for undergraduate attendees. The ABS Diversity Committee has developed this event as part of an on-going effort to broaden participation of under-represented groups within the field of Animal Behavior, with an emphasis on

translating the diverse demographics evident at the undergraduate level to the graduate and professional levels in the field.

'ACADEMIC ORPHANS' LUNCH

Sunday 10 August

DIVERSITY COMMITTEE PANEL/WORKSHOP

Saturday 9 August

Monday August 11th

ABS ANNUAL GENERAL MEETING & RAFFLE

What is your society doing with your money? How much is spent on graduate student research awards? What advice does the editor of *Animal Behavior* have about publishing your papers? Hear brief overviews of ABS business, committee accomplishments and budget of the last year, have your say on policy, and enter a raffle to win a cash prize that will cover your registration costs, or a mystery prize (*you can only win if you are there!*).

POST-POSTER SESSION DANCE

Following Poster Session A, ABS members are invited to assemble for dancing and socializing with other registrants and the local community. There will be live music & a cash bar charge).

Tuesday August 12th

ABS 5K FUN RUN

Organizer: [Caitlin Gabor](#)

www.bio.txstate.edu

[/~gabor/gabor.htm](http://~/gabor/gabor.htm)



Meeting registrants or

accompanying guests are invited to participate in this 6th annual recreational walk/run/sprint. Sign-up will occur at the conference. A nominal registration fee will be charged, proceeds are donated to support ABS Student Research Grants. The run will take place prior to the day's scheduled talks.

ABS AWARD CEREMONY

Immediately following the last talks of the meeting, join us for a brief ceremony to fête winners of career awards for 2014, and applaud this year's recipients of the Genesis, Founder and Allee awards.

ABS CLOSING BANQUET

Join us for an enjoyable closing dinner, where you can touch base with friends, argue about the meetings key presentations, and congratulate award-winners: a fitting way to end this historical 51st ABS meeting. *This is a ticketed event that incurs an additional fee.*