



# NEWSLETTER

## Animal Behavior Society

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publication

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### CANDIDATES FOR 2010 ELECTION OF OFFICERS

**Second President-Elect:** Robert M. Gibson  
Daniel I. Rubenstein

**Secretary:** Caitlin Gabor  
Sue Margulis

**Member at Large:** Mark Hauber  
Gail Patricelli

**Program Officer:** Beth Jakob  
Michael Beecher

Additional nominations may be made by letter to the 2010-2011 Nominating Committee Chair, Michael Ryan, Section of Integrative Biology C0930, 1 University Station, University of Texas, Austin, Texas 78712, USA. Phone (512) 471-5078, E-mail: mryan@mail.utexas.edu. Nominations must be signed by five or more ABS members in good standing (ABS Constitution, Article 8, Section 2) and must be received by 1 October, 2010. *Note: Information on the candidates will be posted with the ballot in the November newsletter (posted first on the website at <http://animalbehaviorsociety.org/> → Resources → Newsletters).*

### 2010 ANNUAL MEETING

The Annual Meeting of the Animal Behavior Society at Williamsburg, Virginia, 25-29 July, was very successful, with 648 registrants from 14 countries. John Swaddle and Dan Cristol did a splendid job as local hosts. Kudos go to the program officers, Dario Maestriperi, and Maydianne Andrade for providing an amazing program. A warm thank you to John and Dan, volunteers, and staff as well as the ABS Central Office who helped execute an excellent meeting.

. Look for highlights of the meeting in this and the November newsletter.



**John Swaddle**, one of the hosts for the ABS 2010 meeting, smoothly handles daily business



**Distinguished Animal Behaviorist Lecture:**  
**Lee Drickamer**, Northern Arizona University:  
*Animal behavior at a crossroads*

## FEATURED LECTURES AT THE 2010 ABS MEETING

By Caitlin Gabor

The **Keynote Lecture** was presented by **Ellen Ketterson** (Indiana University), who gave a great talk on her research with dark eyed juncos, entitled *The hormone in the middle: Integrative animal behavior as learned from an adaptable songbird*. Her lab focuses on Tinbergen's four classic questions about why animals behave as they do ("On Aims and Methods of Ethology, 1963"). She asked whether the behavior of these birds during their breeding season evolved along with other traits and were dragged along or if traits are unlinked and could drive hormones. She found that the hormone levels in the birds are genetically correlated supporting the first hypothesis. She also presented new work looking at effects of manipulating the HPG axis on the behavior of these birds. Finally, she discussed new work looking at a recently evolved population of birds in a new environment to examine the impact of changing environments on the behavior and hormones of juncos.

The **Distinguished Animal Behaviorist Lecture** presented by **Lee Drickamer** (Northern Arizona University), and entitled *Animal behavior at a crossroads*, discussed the history and framework of Animal Behavior from Tinbergen's four questions (again) through trends in both publishing in animal behavior and hiring in our field. He pointed out that our field is right in the middle of the ladder of biology such that we have a good perspective on many levels and this also allows us to teach many areas. Additionally, our field has finally started to integrate more with other levels of research such as genetics and hormone work. He suggested that new behaviorists need to broaden their training tools in order to be hired.

**Andy Sih** (University of California at Davis) gave the **Fellow Lecture**, where he discussed behavioral syndromes: why do animals have behavioral types such as bold or aggressive and whether these are consistent across different contexts. Andy pointed out that more work needs to be done to make sure studies in this area of research are actually testing predictions of theory. Andy proposed new possible predictions and theories for the field. He pointed out that behavioral types in social groups could affect the dynamics of the group. He noted that there is social plasticity in behavior and that one individual can have large effects on the group – that is one bad apple can

have a stronger effect than good individuals. He also pointed out that there are ecological implications such

as the correlation of the behavioral type and the ability to invade new environments. Finally, he related these findings to how North America was colonized and the outcome in terms of social behaviors (hyper aggressive) found here versus abroad.

## 2010 AWARDS

ABS awards are presented at the banquet on the final night of the annual meeting. This year's awards are as follows.

### ALLEE: BEST STUDENT PAPER 2010

Students participating in the Warder Clyde Allee Symposium entertained and informed us with high quality presentations full of videos. The excellent presentations posed a nearly impossible task for the judges, so we came to a unique conclusion. The 2010 Allee Symposium had two tied winners. **Rebecca M. Calisi** won for her work entitled "Social environment influences gonadotropin inhibitory hormone (GnIH) in the brain" which was based on research conducted at University of California at Berkeley. **Nathan I. Morehouse** won for his paper entitled "Female choice, limiting nutrients, genic capture and male butterfly colors" which was based on research conducted at Arizona State University. Ten talks were presented in all. In addition to the \$500 prize from ABS, three publishers provided certificates of \$100 to \$150 for books to the two winners, and Norton provided three specific books. Chicago University Press also gave \$50 certificates to the other participants in recognition of their Allee Symposium participation. Symposium judges were: Jennifer Fewell, Gail Patricelli, Patricia Schwagmeyer, Robert Seyfarth and organizer, Joan Strassmann.



Allee Competition Winners, **Nathan I. Morehouse** and **Rebecca M. Calisi** with **Joan Strassmann**

### 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/> → Resources → Newsletters

### FOUNDERS' MEMORIAL POSTER AWARD

Each year a poster competition, named for a founder of the Animal Behavior Society is held at the annual meeting ("A founder is defined as a person active in the period prior to 1966 who held at least two administrative positions, elected or appointed, in ABS or the ESA Section on Animal Behavior and Sociobiology or the ASZ Division of Animal Behavior as recorded by the ABS Historian."). The four judges of the Founders' Award for best poster were Susan Foster (President-Elect), Esteban Fernández-Juricic, Benjamin Hart and Daniel Papaj. Nine posters were entered in the competition. The award was presented to **Jeremy S. Gibson** and **Reginald B. Cocroft**, University of Missouri, Columbia for their poster entitled *Mate searching and vibration localization in treehoppers*.



**Jeremy Gibson**, the winner of the Founders' Award, with Susan Foster at the Banquet awards ceremony

### GENESIS AWARD FOR THE OUTSTANDING UNDERGRADUATE POSTER PRESENTATION

Twenty-six undergraduate students submitted posters for the Genesis Undergraduate Poster Competition, and the standard was high. The winner was **Kelly Devlin**

from Brown University with her poster "Survey protocol affects acoustic communication and reproduction in an endangered burying beetle". There were two runners-up. One was **Paula Sicsú** of Universidade de Brasilia, with a poster entitled "Daily variation in the coverage behavior of *Lytechinus variegatus*". The other was **Megan Mayo** of Florida State University with her poster "Vocal cues of pair stability in cooperative lance-tailed manakin males." Judges were Anne Clark, Sue Margulis, Mike Noonan, Denise Pope, Michelle Solensky, and Cindy Wei.

### ABS 2009 CAREER AWARDS Presented at 2010 meeting

**DISTINGUISHED ANIMAL BEHAVIORIST** – **Lee Drickamer**'s career has been distinguished by important contributions in primary research on rodent social behavior, writing several editions of an influential textbook on Animal Behavior, in addition to his writings and an edited volume on the history of our field and his years of service as Editor of our journal, President of our Society and a member on most committees in our Society.

**QUEST AWARD** – **Zulema Tang-Martinez** has made fundamental contributions to rodent behavior. She pioneered the habituation-dishabituation paradigm used widely by many in the field, and has written on the controversy of Bateman's Principle. She has also been a stalwart support of efforts to increase the diversity of the society.



**Lee Drickamer** receives his Distinguished Animal Behaviorist Award from ABS President Michael Ryan

**EXCEPTIONAL SERVICE AWARD – Jeff Galef** was the Editor of *Animal Behavior*, President of the Society and has played a major role in most policy and financial changes in the Society over the last 40 years. He is also the co-organizer of the Winter Animal Behavior Conference (note: awarded 2008)

**OUTSTANDING NEW INVESTIGATOR AWARD – Gail Patricelli** has pioneered the use of robotics in studies of communication. Through her studies of bower birds and sage grouse she has used realistic motorized models that help to ascertain the details of the courtship displays that are salient to receivers. In addition, she has made important contributions to acoustic beaming, wherein some birds are able to subtly manipulate the directionality of their signals.



**Jeff Galef** says a few words after receiving the Exceptional Service Award at the Banquet



**Zuleyma Tang-Martinez** receives the Quest Award from ABS President Michael Ryan



**Gail Patricelli** receives the Outstanding New Investigator Award from ABS President Michael Ryan

### **ANIMAL BEHAVIOR SOCIETY DIVERSITY GRANT FOR GRADUATE STUDENTS**

Each year, the Animal Behavior Society offers a limited number of awards from the Diversity Fund to cover registration fees for graduate students attending the annual ABS Meeting, with the goal of broadening the minority and ethnic representation. Applicants must be enrolled in a graduate program at the time of application and must be members of under-represented minorities. Eligible minorities include: 1) American citizens who are African American, Native American, Asian American, Pacific

#### **CALL FOR SYMPOSIA FOR THE 2011 AAAS MEETING**

ABS is striving to expand awareness of its excellent science via symposia for the annual AAAS meeting. The target date for the next symposium is 2011. Anyone interested in organizing a symposium for the meeting please contact Maydianne Andrade, [mandrade@utsc.utoronto.ca](mailto:mandrade@utsc.utoronto.ca).

Islanders, or Hispanic American; 2) citizens of Central or South America, citizens of developing / underdeveloped Asian countries, and black citizens of African countries, all regardless of their country of residence, 3) native peoples from developed countries (e.g. Maori or Aborigines) regardless of country of residence. **Students in these categories who are attending U.S. or Canadian institutions are fully eligible.** We are pleased to announce this year's recipient: **Jorge Luis Hurtado-Gonzales** (Syracuse University).

This year, Jorge Luis was the only person to apply prior to the meeting because other eligible students were not aware of their eligibility. **We urge faculty to emphasize this funding opportunity for any of their students who meet the Diversity Fund eligibility criteria.** Currently, the Diversity Fund has sufficient moneys to fund all eligible students and it is a shame more students did not know to apply. Further information can be obtained from Zuleyma Tang-Martinez, Chair of the ABS Diversity Committee: zuleyma@umsl.edu.

## ABS GOES GLOBAL

By Zuleyma Tang-Martinez

Participants from a total of 40 countries (of origin or travelling from these countries) and all continents attended the 2010 ABS meeting in Williamsburg, Virginia. The ABS Diversity Committee provided a world map with push-pins for participants to indicate their country of origin. The results were fascinating and very instructive. For example, we had several attendees each from the Philippines, China, Turkey and Australia, and many from various countries in Western Europe. After the U.S. and Canada, Latin America had the largest number of attendees, with at least 11 countries represented. Some of the participants were international students attending U.S. universities, but others had flown in directly from their respective countries. Since no penguins were seen attending sessions or waddling around during the coffee breaks, we assume that the 2 individuals who indicated Antarctica as their "country of origin" actually work in Antarctica and flew to ABS from there. In summary, ABS appears to have gone global, making inroads in many countries from which we previously had little to no representation. This is an indication of the health of our field and our Society and represents a trend that we hope will continue and accelerate in the future.



Visual representation of diversity of attendees at 2010 ABS meeting: nationality and country of residence

## CHARLES TURNER UNDERGRADUATE PROGRAM

The Charles Turner Program is a NSF-funded program that brings deserving undergraduate students to ABS meetings. Currently in its 9<sup>th</sup> year, the program pays all expenses of attending the meeting and provides a one-day workshop that covers topics as diverse as what to expect from the conference, how to meet senior scientists during the conference, the process of applying to graduate schools, career alternatives in animal behavior, and how to present a poster at a national meeting. Additionally, faculty or graduate student mentors are assigned to each undergraduate; many of the mentors and their students continue to communicate and interact even after the meeting ends. The purpose of the program is to attract undergraduates, including those from traditionally under-represented groups, to science and to animal behavior.

Most (but not all) participants in this program have conducted some undergraduate research and present posters that are automatically entered in the Genesis Award competition. This year 13 students from around the country participated and all said that the program was highly beneficial in helping them to plan for their future and in augmenting their understanding of science and animal behavior. Evidence of the success of the program includes; 1) In both 2009 and 2010, the winner of the Genesis Award was a Turner student; 2) We are now seeing the first crop of new graduate students at ABS who started out as undergrads in the Turner program.

Students must be supported by a faculty sponsor from their institutions. The Diversity Committee, which implements the program, urges all faculty members to be on the look-out for exceptional undergraduate students who may benefit from the Turner Program. It is difficult

for many students to find out about these types of programs, so it is imperative that faculty alert their students to this unique opportunity. Selection of student participants is competitive and based on a personal statement and on a letter of support by the faculty sponsor. For questions, contact Zuleyma Tang-Martinez, Chair of the Diversity Committee: zuleyma@umsl.edu.

## CALL FOR NOMINATIONS FOR 2011 CAREER AWARDS

The Animal Behavior Society has a series of Career Awards which include the following: **Distinguished Animal Behaviorist** - outstanding lifetime achievement in animal behavior; **Exemplar Award** - major long-term contribution to animal behavior; **Outstanding New Investigator** - outstanding contribution by a new investigator; **Quest Award** - outstanding seminal contribution; **Exceptional Service Award** - sustained service contributions to the Animal Behavior Society; and **Distinguished Teaching Award** - distinguished contributions in teaching animal behavior to undergraduates.

All members of the society are encouraged to prepare and submit nominations for these awards. To aid the Selection Committee and to help codify the procedures involved, the following items must be submitted for a nomination: (1) a letter of nomination indicating the award for which the nominee is being proposed. It should provide details on the reasons the nominee should be considered for that award; (2) a curriculum vitae of the nominee; and (3) additional supporting letters from colleagues solicited by the nominator. These materials (except for the Distinguished Teaching Award; see below) should be sent to ABS Past President, Michael Ryan, Section of Integrative Biology C0930, 1 University Station, University of Texas, Austin, Texas 78712, USA. Phone (512) 471-5078, E-mail: mryan@mail.utexas.edu. **Deadline this year is November 30, 2010.**

### DISTINGUISHED TEACHING AWARD

PLEASE NOTE THE CRITERIA HAVE BEEN BROADENED IN ORDER TO RECOGNIZE A GREATER RANGE OF TALENTED MEMBERS. The recipient of this award receives recognition, a plaque from the Society, and the opportunity to organize an education-related event at the following annual meeting. It is easy to know about our colleagues' research by reading publications; it is much more difficult to know about their teaching excellence. We rely on nominations. PLEASE NOMINATE

QUALIFIED COLLEAGUES FOR THIS PRESTIGIOUS AWARD. Selection of the award recipient will be made by the Animal Behavior Society Education Committee and approved by the Executive Council. The award recipient will be announced at the annual meeting of the Society.

**Deadline:** Nominating letters (or the form at the end of the Newsletter) should be submitted by **31 March 2011**. to Penny Bernstein, [pbernste@kent.edu](mailto:pbernste@kent.edu). Questions can also be directed to Jennifer Mather, [mather@uleth.ca](mailto:mather@uleth.ca).

Although e-mail copies are acceptable by the deadline, hard copies of letters of nomination with signatures are required before final considerations can be made.

### Criteria and Procedures

1. Nominees must be current members of the Animal Behavior Society. (Note: current officers and committee chairs are not eligible for nomination.)
2. Nominees must have demonstrated highly effective and innovative teaching in the classroom or in an informal education setting (e.g., zoos, aquaria, museums, 4-H programs, research labs and field stations, and environment centers). They should have a reputation among peers and students for excellence in educating people about animal behavior.
3. Persons wishing to nominate an individual for the award should submit a one-page nomination letter providing evidence to support the nomination. The letter should also include names of at least two additional peer reviewers, and two current or former students or program participants. If students are under 18 years old, the student/participant references should be accompanied by, or attached to, a letter from the appropriate teacher or youth program coordinator. (Note: Department chairs, directors, supervisors, or colleagues may be helpful sources for this information if you are not at the same institution as the person you are nominating.)
4. The Education Committee will solicit appropriate supporting materials, including those indicated in nominating letters (e.g., documentation of other teaching awards, peer and student evaluations, additional references, evidence of innovation in curriculum development, development of educational tools, programs, or multimedia products, or other appropriate indicators of superior educating).
5. If you would like to **renominate** an individual for the award, please submit a letter indicating that you are doing so and provide any additional information you feel might be helpful to the committee. Please also include the date of the original nomination. Names of additional peer or student reviewers may also be provided.



The racers at the starting line. **Cynthia O'Rourke** in front, on the right, sporting her speedy shoes

### THIRD ANNUAL ABS 5K FUN RUN

By **Caitlin Gabor**

The third annual ABS 5k was held on another sweltering day during the meetings at the College of William and Mary. Nonetheless, we had 35 racers, I think the biggest thus far, but not as big as it should have been (I know there were lots of secret runners out there who should sign up next year). At least the course was a beautiful wooded trail.

This year Samuel Diaz Munoz was there to defend his title, unlike Caitlin Gabor who was injured and could not defend. Meanwhile, Eileen Hebets heated up the race by "suggesting" that her whole lab run. The end result was lots of runners with spiders on their heads. The winner of the men's 5k was **Dustin Wilgers**, at a speedy (for the heat) 22:16 min with Samuel taking a close second. The female winner was **Cynthia O'Rourke** running a 25:07 in her special split toe shoes.

Heat aside, all had a great time and a runner's high by the end. We also managed to raise \$315 for the student research fund. Thanks to Jenny Gumm, Dan Howard and numerous Turner Awardees for helping make the race happen.

We will be looking for a lab team to rival that of Eileen Hebets' so start training for the 4<sup>th</sup> annual ABS 5k at Indiana University (2011). The next race will be organized by Caitlin Gabor (gabor@txstate.edu).



**Molly Morris**, the race originator

### FOLLOW ABS ON FACEBOOK

Go to <http://facebook.com/animalbehaviorsociety/> to stay on top of the latest news, events, and announcements about the Animal Behavior Society, its members, and their research. Members are welcome to contribute to our wall and share their ABS-related photos and experiences. Invite all your friends to help continue to expand the society!

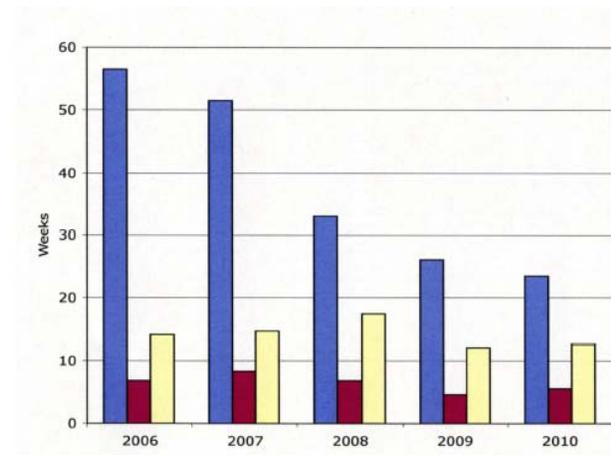
### ANIMAL BEHAVIOUR: RISING IMPACT FACTOR, FALLING PUBLICATION TIME

By **William Searcy**  
*Animal Behaviour* Executive Editor

According to the latest Journal Citation Reports®, published by Thomson Reuters in June, the journal impact factor for *Animal Behaviour* was 2.89 in 2009. *Animal Behaviour*'s impact factor has risen steadily in recent years, from 2.71 in 2006, to 2.75 in 2007, 2.83 in 2008, and now 2.89 in 2009. Meanwhile, publication times have fallen over the same interval, with dramatic improvements especially in editorial time (see graph). For the first four issues of 2010, publication time averaged only 28.9 weeks for appearance on the web and 35.8 weeks for appearance in print. Impact factor and publication time are both important to author satisfaction, which not surprisingly

has also improved this year relative to last according to surveys compiled by the publisher, Elsevier.

Articles can be submitted to *Animal Behaviour* by both ABS members and non-members at the journal's website (<http://ees.elsevier.com/anbeh/>).



Production time of submitted manuscripts from 2006-2010. Bar colors: blue = editorial time, red = web production; yellow = print production

## 2010-2011 ABS OFFICERS

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

**First President-Elect:** Joan Strassmann, Department of Ecology and Evolutionary Biology – MS-170, 130 Anderson Biology Lab, Rice University, Houston, Texas 77005-1892 USA. Phone (713) 348-4922, E-mail: strassm@rice.edu

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

**Past President:** Michael Ryan, Section of Integrative Biology C0930, 1 University Station, University of Texas, Austin, Texas 78712, USA. Phone (512) 471-5078, E-mail: mryan@mail.utexas.edu

**Treasurer:** Philip Stoddard, Department of Biological Sciences, Florida International University, Miami, Florida 33199 USA. Phone (305) 348-0378, E-mail: stoddard@fiu.edu

**Secretary:** Regina H. Macedo, Departamento de Zoologia, Universidade de Brasília 70910-900 -

Brasília - DF – Brazil, Phone: +55-61-3307-2265, E-mail: rhfmacedo@unb.br

**Program Officer:** Dario Maestriperi, Evolutionary Biology and Neurobiology, The University of Chicago, 5730 S. Woodlawn Ave., Chicago, IL 60637 USA, Phone: (773) 834-4104, E-mail: dario@uchicago.edu

**Junior Program Officer:** Maydianne Andrade, Department of Biological Sciences, University of Toronto Scarborough, 1265 Military Trail, Scarborough, Ontario, Canada M1C 1A4. Phone (416) 287-7425, E-mail: mandrade@utsc.utoronto.ca

**Parliamentarian:** Peggy Hill, Department of Biological Sciences, University of Tulsa, 800 Tucker Drive, Tulsa, Oklahoma 74104 USA. E-mail: peggy-hill@utulsa.edu

**Executive Editor:** William Searcy, Department of Biology, University of Miami, 1301 Memorial Drive, Coral Gables, Florida, 33124-0421 USA. Phone: (305) 284-2065, E-mail: wsearcy@miami.edu

### Members-at-Large:

**Jeff Podos**, Department of Biology, Morrill Science Center, University of Massachusetts, Amherst, Massachusetts 01003, USA. Phone: (413) 545-0847, E-mail: jpodos@bio.umass.edu

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**Kevin McGraw**, School of Life Sciences, Arizona State University, Tempe, Arizona 85287-4501, USA. E-mail: Kevin.McGraw@asu.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



Enjoying the banquet at the 2010 ABS meeting, from left to right: **Trevor Pitcher, Jeff Podos, Stephanie Doucet, Daniel Mennill, David Wilson, Kara-Anne Ward and Melissa Abdellah.**

## DIRECTIONS FOR CORRESPONDENCE

**ABS Newsletter:** Send general correspondence concerning the Society to Regina Macedo, rhfmacedo@unb.br. Deadlines for materials to be included in the Newsletter are the 15th of the month preceding each issue. The next deadline is **15 October, 2010**. 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](mailto: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](mailto:aboffice@indiana.edu). Phone (812) 856-5541, Fax (812) 856-5542.



**Dan Cristol**, co-host of the ABS 2010 meeting, introduces Keynote lecturer **Ellen Ketterson**

## **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 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 newsletter sent to all Society members via regular mail. Questions? To SUBSCRIBE to ABSnet, go to <http://animalbehaviorsociety.org> and click on the News and Announcements link, then 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.

## ANNOUNCEMENTS

### MEETINGS

#### ANIMAL BEHAVIOR SOCIETY ANNUAL MEETINGS

**2011:** 25-30 July, Animal Behavior Meeting – International Ethological Conference joint meeting at Indiana University, IN

**2012:** June 4-7, followed by the Human Behavior and Evolution Society (HBES) meeting from June 7-10 (one day overlap of open sessions for members of both societies) at Albuquerque, New Mexico.

### OTHER US MEETINGS

**2011: SICB Annual Meeting**, January, Salt Lake City, Utah (see announcement below).

**2011: American Association for the Advancement of Science (AAAS)**, 17-21 February, Washington, DC.

### INTERNATIONAL MEETINGS

**2010.** 12-18 September, International Primatological Society XXIII Congress, Kyoto, Japan.  
[www.ips2010.jp](http://www.ips2010.jp)

**2010.** 21-24 September, 14th Evolutionary Biology Meeting, Marseilles, France.  
sites.univ-provence.fr/evol-cgr/

**2010.** 26 Sep-1 Oct, 13th Congress of the ISBE. Perth, Australia. www.isbep Perth2010.com

**2010.** 2-3 December, Association for the Study of Animal Behavior, Winter Meeting: Interspecific communication. London, UK.  
asab.nottingham.ac.uk/meetings/asab.php

**2011.** August, 13th European Society for Evolutionary Biology Congress. Tübingen, Germany. www.eseb.org

**2012.** 11-17 August, ISBE20 Congress of the ISBE. Lund, Sweden

### **JOIN AN ABS COMMITTEE!**

Would you like to volunteer for one of the Society's active committees? This is an important and rewarding way to participate in the business of the Society, and we need your help! Committees include Membership, Policy, Animal Care, Latin American Affairs Public Affairs, Education, Film, Conservation and others. Contact ABS President Susan Foster, Department of Biology, Clark University, 950 Main St., Worcester, Massachusetts 01610-1473 USA. Phone (508) 793-7204, E-mail: sfoster@clarku.edu.

### **OPPORTUNITIES**

#### **TENURE-TRACK POSITION IN PRIMATE BEHAVIORAL ECOLOGY**

The Department of Anthropology at Rutgers, the State University of New Jersey, New Brunswick campus invites applications for a tenure-track position in primate behavioral ecology at the Assistant Professor level to start Fall 2011, contingent upon funding. See <http://anthro.rutgers.edu> for a description of professional qualifications and application procedure. Review of applications will begin October 1, 2010, and will continue until the position is filled.

#### **PHD-STUDENT POSITION 2010-2013 IN PSYCHOLOGY/ BEHAVIOURAL SCIENCES**

Differential and Personality Research in Primates: Free University Berlin, Department of Psychology, Germany; Position: 3-year research assistant 50-65% BAT IIa (German pay scale and subject to final approval by the funding agency); Project start: July/August 2010 (expected). For more information

contact Dr. Jana Uher: Tel. +49-30-838 55600 Fax. +49-(0)321-211 74 699.

### **PROGRAM IN WILDLIFE STUDIES & PRIMATOLOGY IN JAPAN**

The Primate Research Institute and Wildlife Research Center, both affiliated with Kyoto University, have launched a new graduate program aimed at facilitating international collaboration and advanced studies in conducting multidisciplinary studies of wildlife in either field or captive settings. The details are available at: [www.pri.kyoto-u.ac.jp/sections/CICASP/index.html](http://www.pri.kyoto-u.ac.jp/sections/CICASP/index.html)

### **ABS CALL for SYMPOSIA, INVITED SESSIONS and WORKSHOP PROPOSALS**

#### **2012 AND 2013 ABS MEETINGS**

To organize a symposium, an invited paper session, or a workshop for the ABS Annual Meeting, you should contact the Senior or Junior Program Officers to discuss your ideas. 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 Officers. Organizers often find that consultations with the Program Officers when drafting the pre-proposal are helpful. 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. A symposium 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 2012 meeting are due before the annual meeting in Indiana in 2011 and will be circulated to the Executive Committee prior to the Annual Meeting and then discussed at the EC meeting. The 2012 meeting is scheduled for June 4-7. The Program Officers encourage potential organizers to begin discussions about proposals for that conference.

Further information can be found on the ABS website or by contacting the ABS Program Officers: Maydianne Andrade, Department of Biological Sciences, University of Toronto Scarborough, 1265 Military Trail, Scarborough, Ontario, Canada M1C 1A4. Phone (416) 287-7425, E-mail: mandrade@utsc.utoronto.ca; and Dario Maestriperi, Evolutionary Biology and Neurobiology, The University of Chicago, 5730 S. Woodlawn Ave., Chicago, IL 60637, Phone: (773) 834-4104, Email: dario@uchicago.edu.

The Annual Meeting will encompass three types of scientific sessions: poster presentations, oral presentations and symposia. Abstracts by Sept 10, 2010 at <http://www.sicb.org/meetings/2011/abstracts>.

## **SOCIETY FOR INTEGRATIVE AND COMPARATIVE BIOLOGY: 2011 ANNUAL MEETING**

You are invited to participate in, and contribute to, the 2011 Annual Meeting of the Society for Integrative and Comparative Biology. The meeting will be located at the Salt Palace Convention Center and the Marriott Hotel which are located in Salt Lake City, UT within walking distance of many restaurants and shops.

### **MINUTES OF ANIMAL BEHAVIOR SOCIETY ANNUAL BUSINESS MEETINGS**

#### **Executive Committee Meeting, July 25, 2010 Williamsburg**

**Present:** Susan Foster, Joan Strassmann, Michael Ryan, Philip Stoddard, Regina H. Macedo, Dario Maestriperi, Maydianne Andrade, Sue Margulis, William Searcy, Jeff Podos, Molly Morris

**Late:** Alex Basolo

**Missing:** Scott Forbes

President Michael Ryan called the meeting to order at 8:50. The minutes from last meeting were approved.

**Maydianne Andrade** led a discussion concerning requests for ABS mailing lists. It was proposed that in cases where requests are routine the Treasurer will decide. **Motion:** To change the wording in the section relative to this in the Handbook. **Vote:** Unanimous approval.

Wording for in Handbook now reads:

*Contact lists will be sold only if the exact materials to be mailed out have been examined and approved by the Treasurer or, in the case of non-routine requests, approved by the Executive Committee. A competitive rate will be charged, as determined by the treasurer. (Enacted, 1985 E.C. Meetings; revised, 1989 & 2000 E.C. Meetings.)*

- a. *Non-routine requests for ABS contact lists will be denied if 20% of the Executive Committee votes not to make them available. (Enacted at the 1986 E.C. Meetings.)*

A discussion was conducted concerning whether ABS should use the Society's Facebook page to post advertisements. It was decided that for now we should redirect advertisement to the ABS website. Michael Ryan requested that Shan Duncan, as Society Manager, should prepare a brief report about revenue generating avenues for the website and Facebook, including information on the way other societies are using these mechanisms to generate revenue.

The 2010 slate of candidates for the Executive Committee was presented and approved:

President: Robert Gibson and Daniel Rubenstein  
Member-at-Large: Gail Patricelli and Mark Hauber  
Program Officer: Michael Beecher and Beth Jakob  
Secretary: Sue Margulis and Caitlin Gabor

A proposal was made to change the names of Senior Program Officer to Program Officer and Junior Program Officer to Program Officer Elected. Since this is a Constitutional change, voting by the membership must be conducted.

A discussion was conducted about the number and election of Fellows. Michael Ryan indicated that we did not elect any new Fellows this year because we are over the limit of Fellows. Regulations state that the number of Fellows should not exceed 5% of membership and we have 146 Fellows. Based on the current membership of 2500, the maximum should be 125. One option is to not elect any more Fellows until we are within those limits. Alternatively, this limitation could be altered. Dario Maestriperi suggested we change the regulation to simply recognize an individual's contributions. However, the cost for this is that the honor may become too common and lose value. Joan Strassmann suggested we should not be too restrictive because having more fellows should benefit the Society, get people involved, add an incentive, and attract more senior people. Jeff Podos agreed. Additional discussion was conducted about optimal procedure. **Motion:** The number of Fellows should not exceed 10% of membership. **Vote:** Unanimous approval to bring this up for Membership vote, since this involves a Constitutional change.

The current Guidelines for Outstanding New Investigator are somewhat arbitrary, since "young" can be interpreted in several ways. **Motion:** that Nominees for the Outstanding New Investigator Award be no more than 10 years post-Ph.D. (excluding family and medical leave time). **Vote:** Unanimous approval.

The current nomination of awards and subsequent bestowal of the awards is occurring over an extended time period (2 years), causing much confusion. A proposal for a new timeline for career awards was suggested:

August newsletter: call for nominations  
Nov 30 completed nominations  
Dec - Jan 15 open for EC voting  
Feb – communicating to awardees  
Meeting of that year – awards are given out.

**Motion:** The calendar for nominations is to be changed so that voting and conferral of the awards all occur between January and the ABS meeting itself within the same year. **Vote:** Unanimous approval.

Wording for in Handbook now reads:

*The Career Awards Committee will solicit nominations from the membership and generate nominations to be presented to the EC for approval. An announcement will be placed in the August issue of the NEWSLETTER that describes the awards and invites members of the society to make nominations. (Revised at the 1997 EC meeting; revised at the 2009 EC meeting)*

- *For the Outstanding New Investigator, Quest, Exemplar, and Distinguished Animal Behaviorist awards the nomination should include 1) a letter indicating which award the nominee is being proposed for and providing details on why the nominee should be considered for that award, 2) the nominee's CV and 3) additional supporting letters from colleagues solicited by the nominator. Materials should be sent to the Past President by Nov 30. Members and members-elect of the Executive Committee are not eligible for nomination until 18 months after completion of their service on the Executive Committee. (Revised at the 2009 EC meeting)*
- *For the Exceptional Service Award the nominator should include 1) a letter outlining the contributions that the nominee has made to the Animal Behavior Society and 2) additional supporting letters from colleagues that have been solicited by the nominator. Materials should be sent to the Past President by Nov 30*

A discussion was conducted about the 2011 Founders Award. **Motion:** That Nick Colias be honored in the 2011 Founders' Award. **Vote:** 11 in favor, 1 abstention.

It was brought up that ABS has had a representative in the Advisory Committee on Animal Behavior and Education (AAALAC) since this organization sends a team that visits animal facilities in universities and grants certification. Most animal protocols are designed for biomedical research, so ABS might want a representative to reinforce the fact that not all animal research is biomedical. It was resolved that the incoming President Susan Foster, in consultation with Past President Michael Ryan, will indicate such a representative.

**Philip Stoddard**, Treasurer, presented a summary of the ABS financial situation, indicating that our budget is very tight at the moment. He suggested that we need fund raising activities and to tap private donors. A more detailed budget will be presented at the second EC meeting.

**Dario Maestriperi**, Program Officer, reported that we need to increase communication with the organizing committee of the IEC relative to the joint meeting between ABS and IEC in Indiana, 2011, since the financial contribution by ABS has to guarantee certain conditions. Further information was to be obtained from IEC to subsidize decision-making. Information now available on that meeting includes the following:

Deadlines:

- March 1 – Abstract submission opens
- May 15 - Close abstracts
- June 15 - Program on line
- June 24 - Last day reserve dorm housing
- July 1 - Final program for printing
- July 25-30 - Conference.

To apply for Allee Competition, applicants must be ABS members.

There is an additional award: Royal Society award would be for best student presentation overall.

Discussion was conducted about the 2012 meeting at the University of New Mexico, with meeting dates in early to late June. The structure is suggested to have a one day overlap between ABS and subsequent Human Behavior and Evolution Society (HBES) meeting. Suggestions were that to attend both conferences, registration should be for both, except for the one-day overlap, which would include plenary and talks that bridge both societies. There is no decision yet about who is to be the ABS local host. It was suggested that having the same physical site for both meetings would be best, and also to provide a discount if registration is for both meetings.

**Stephen Zawistowski**, Chair of the Committee on Issues in Applied Animal Behavior, presented information on an incipient organization called *Thinking Animals*. The organization will develop activities (e.g. weekend festival geared around these topics throughout museums, zoos) to develop a greater understanding of animals and their conservation. The organization is looking for partner organizations to lend prestige and networking capacity and ABS was approached to endorse activities, send out communications, generate opportunities to provide information, graduate opportunities, media involvement, etc. There is no financial obligation involved. **Motion:** That ABS become a founding partner for *Thinking Animals*. **Vote:** 10 in favor, 2 abstentions.

**Kaci Thompson**, Chair of the Membership Committee, presented an overview of membership patterns, indicating that membership numbers between 2003 and 2010 have declined overall. She also indicated that the decline in membership is in line with those of other societies of the same size in this period and that our attrition, unexpectedly, is among established members rather than student members. She will be conducting an online survey to determine the reason for these patterns. A new proposal for a Life Membership category was discussed and more information will be forthcoming.

**Zuleyma Tang-Martinez**, Chair of the Diversity Committee, informed the EC that the committee is putting together a workshop for next year's meeting. She also presented a **Resolution** concerning the law about illegal immigration in Arizona, wherein ABS would not meet in that state as long as the law is in effect. The Resolution will be presented at the Business Meeting for membership vote.

**Gabriel Francescolli**, Chair of the Latin American Affairs Committee, proposed that ABS plan a meeting in Latin America every few years. A **Resolution** was presented: To reaffirm ABS commitment to developing stronger ties to Latin America, we will seek out opportunities to have meetings in Latin American countries. **Vote:** Unanimous approval.

It was also confirmed that ABS will continue to budget \$2,000 per year for the Latin Travel Awards.

The **Education Committee** reported that they have been working on building a behavior video archive so that people can submit images for online publication. They are also considering having an Education Symposium at next year's meeting (Challenges in Animal Behavior Education).

**Ron Swainsgood**, Chair of the Conservation Committee, discussed the possibility of desktop publication as an outlet for conservation issues and suggested we consider a special issue for conservation in *Animal Behaviour*. He also indicated that he had little experience in desk top publishing and was unsure how to proceed. William Searcy pointed out that a special issue was unlikely to be well-received by ASAB and editors of *Animal Behaviour*.

**William Searcy**, Executive Editor, reported the good news that publication times are down and the impact factor of *Animal Behaviour* has gone up. He also reported that submission rates to the US office have slowed (around 300 per year) while the UK office has had an increase this last year. The reason for this is unknown but it was suggested that the US office for *Animal Behaviour* should promote submissions.

**Trevor Pitcher**, Chair of the Animal Care Committee, reported that new members for the committee are being sought.

**Philip Stoddard**, Treasurer, discussed investment issues, indicating that ABS invests more heavily in domestic large capitalization stock and suggested that we should consider international investments in emerging markets. He proposed that spreading out the risk and profits should be desirable. Further discussion of the issue was postponed until the second EC meeting where a detailed budget was to be presented.

**Shan Duncan**, Society Manager, discussed the new ABS website and indicated that several details are being worked out: changes in the website front page to highlight issues, improving lax communication with members, having custom mailings, maintaining institutional memory, etc. In this last category he indicated that officers will have an e-mail address for official e-mail and the address will pass on to the next officer. The EC approved of the suggestion that when the Central Office next advertises for a new part-time person, that person should have experience with html and web-related technologies. The EC also agreed that that a committee should be formed to test the website.

Meeting adjourned at 4:30 pm.

#### **Continuation of Executive Committee Meeting, July 28, 2010 Williamsburg**

President Michael Ryan called the meeting to order at 12:30 pm.

**Present:** Susan Foster, Joan Strassmann, Michael Ryan, Philip Stoddard, Regina H. Macedo, Dario Maestripietri, Maydianne Andrade, Sue Margulis, Jeff Podos, Molly Morris, Alex Basolo

**Missing:** Scott Forbes

**Philip Stoddard**, Treasurer, reviewed the budget, explained the budget categories in detail for budget approval (see below in Business Meeting minutes).

It was decided that any decisions concerning investment of ABS funds will need the approval of the Investment Committee (Phil / Jim Ha / Jeff Galef) and be subjected to review by ABS president.

Meeting adjourned at 2:00 pm

**Continuation of Executive Committee Meeting, July 29, 2010  
Williamsburg**

President Michael Ryan called the meeting to order at 9:00 am.

**Present:** Michael Ryan, Regina H. Macedo, Dario Maestriperi, Maydianne Andrade, Sue Margulis, Jeff Podos, Molly Morris, Scott Forbes, Bill Searcy.

**Missing:** Susan Foster, Joan Strassmann, Alex Basolo, Phil Stoddard

Discussion concerned the ABS joint meeting with the IEC in 2011 in Indiana. Jim Ha was invited to the meeting since he was one of two ABS liaisons (with Dario Maestriperi) for the joint meeting. Several issues were discussed as potentially needing further negotiating, including greater participation in organization of symposia and invitation of speakers.

The final document that was reviewed by the EC last year was not confirmed by Emilia Martins, IEC host. Thus, it was decided that Susan Foster and Michael Ryan will make changes to the document and request that Emilia confirm our understanding that the document is what we are operating on.

Jim Ha said that the joint meeting is an equal participation venture. He also informed that the agreement is that registration does not include either lunch or banquet, only coffee breaks, so we need further clarification.

Michael Ryan and Dario Maestriperi proposed the following **Resolution:** We offer IEC 35k, not to subsidize the registration fee but to support the scientific program, and with the understanding that we will continue as equal partners in the selection of symposia and plenary speakers, and additionally that we will be working in accordance with the document submitted. **Vote:** Unanimous approval.

**MINUTES  
Animal Behavior Society Annual Business Meeting  
July 28, 2010  
Williamsburg**

President Michael Ryan called the meeting to order at 12:50 pm. He introduced members of the Executive Committee and announced this year's nominations for the offices of President Elect, Member-at-Large, Program Officer and Secretary as follows:

President Elect: Robert Gibson and Daniel Rubenstein  
Member-at-Large: Gail Praticelli and Mark Hauber  
Program Officer: Michael Beecher and Beth Jakob  
Secretary: Sue Margulis and Caitlin Gabor

Maydianne Andrade, Junior Program Officer, gave a preview of next year's meeting, which will be the first ever joint meeting with IEC. She outlined the advantages of an international meeting. The meeting dates are July 25-30, 2011.

Penny Bernstein announced the ISAE meeting from July 31-Aug 4 and the ISAZ meeting from Aug 4-6 in Indianapolis.

William Searcy, Executive Editor, reported on journal activities. The good news: publication times have dropped dramatically from submission to decision, with publication time from submission to publication on the web 28.9 weeks and printed issue 36 weeks. The impact factor went up (2.89 for 2009 citations) and is now slightly above BES. However, number of submissions has declined: 322 in 2006-7; 306 from 2009-10. Although the drop is small, the number of submissions to the UK office has risen dramatically. Acceptance rate is fixed at a straight percentage, so more submissions means more articles from US office. He encouraged submissions to the journal. He also thanked previous editor (Michael Breed), managing editors, and slate of editors. Any suggestions for new editors should be sent to William Searcy.

Questions were asked: Michael Beecher wanted to know how to enforce acceptance rate, which is somewhat informal now at 40%. Jeff Lucas asked about page limits, and whether this may result in a decrease in acceptance rate or an increased price to increase pages.

Regina Macedo gave the Secretary's report for activities conducted (over the internet) in the 2009-2010 year:

- discussion and voting of program for the Williamsburg 2010 meeting;
- planning of 2011 and 2012 meetings;
- nominations for the Career Awards;
- nominations for 2010-11 EC officers;
- general election for new officers (taking over after Williamsburg meeting)

Philip Stoddard gave the Treasurer's report. The largest income for the Society is the profit-share from journal. Last year we made about \$167,000. This year we budgeted for \$184,000. Membership dues last year were about \$58,000 and have fallen further to about \$45,000. Our investment dividend, which last year had fallen to a low point of \$18,000 have increased slightly to about \$21,000.

Zuleyma Tang-Martinez reported on the funds held by the Diversity Committee and the need to identify students for awards. Zuleyma Tang-Martinez also read a Resolution for ABS concerning the Arizona immigration law, which was unanimously approved by vote: (1) That the Animal Behavior Society will not meet in the state of Arizona as long as this law is in effect; 2. That the president of ABS will communicate this resolution to the Governor of Arizona, the Arizona Office of Tourism, and the Mayors of Flagstaff, Tucson, and Phoenix, AZ.

The 2009 Business Meeting minutes were approved (1 abstention).

A motion to adjourn the meeting was seconded and passed at 2:20 pm.

# ANIMAL BEHAVIOR SOCIETY NEW MEMBER FORM

Online renewal and information re. Required Member Info and Privacy Policies is available at <http://animalbehaviorsociety.org/central-office/> and upon request.

## Required Information

Full Name (include titles):

Affiliation:  
(University, Company, Organization  
with which you are currently  
affiliated.)

E-Mail (required for web access):  
We do NOT provide email addresses  
to other organizations)

Mailing Address:  
(for general correspondence)

We occasionally rent our mailing list to  
carefully screened publishers. Check  
below if you wish to be excluded.

Exclude me from mailing list

### Journal Delivery:

- Online Journal (no paper issues)
- to Mailing Address above
- to Address below

### Member Information (Optional) - Enter whatever you wish to include in Directory

OFFICE Phone:

HOME Phone:

CELL Phone:

FAX Number:

### Newsletter Delivery:

- Members receive online access to quarterly newsletters. Check here to receive paper copy

Pay dues online at: <http://www.animalbehavior.org/ABSPayments>

Update Personal Information at: <http://www.animalbehavior.org/ABSMembers/renew-membership/renew-your-membership>

OR

Return form with payment to: **Animal Behavior Society**  
402 N Park Ave  
Bloomington IN 47408-3828

phone: 812-856-5541  
fax: 812 856-5542

## DUES / SUBSCRIPTIONS (all amounts in US dollars)

Membership Category	Dues online Journal only	Dues paper and online Journal	Amt Paid
_ Regular/Fellow	\$30.00	\$57.00	
_ Emeritus	\$20.00	\$42.00	
_ Post Doc	\$30.00	\$57.00	
_ Student	\$18.00	\$40.00	
_ Developing Nation	\$15.00	\$24.00	
_ Developing Nation Student	\$10.00	\$19.00	
_ Science Writer	<b>Contact office</b>	\$27.00	
*Countries NOT Considered Developing Nations: U.S.A., Canada, Israel, Japan, Australia, New Zealand, Iceland, Norway, Sweden, Finland, Denmark, Germany, Netherlands, Belgium, Luxembourg, France, United Kingdom, Ireland, Switzerland, Austria, Italy, Spain, and Portugal.		<b>RENEWING LATE?</b> Most journal back issues available @ \$4.50 ea.	

### Contributions

<b>Research Award</b>	Provides research grants of up to \$1,000 US to Graduate Students researching animal behavior.	
<b>Conservation Award</b>	Provides research grants to Graduate Students researching animal behavior with a Conservation focus.	
<b>LA Membership Fund</b>	A fund to aid recruitment of Latin American faculty and students.	
<b>David Tuber Award</b>	To promote excellence in research into Applied Animal Behavior.	
<b>Genesis Award</b>	Provides award for best Undergraduate Poster presented at annual ABS meeting.	
<b>George W. Barlow</b>	The George W. Barlow Award's purpose is to encourage excellence in graduate student research in the field of animal behavior.	
<b>Founder's Award</b>	In honor of one of the founders of the Animal Behavior Society, it is awarded to the best poster at the annual meeting.	
<b>Cetacean Behavior Award</b>	Provides awards of up to \$1,000 US to Students researching Cetacean Behavior and/or Conservation.	
<b>Omega Award</b>	Rewards Professional Presentation by Member assigned terminal slot at annual ABS meeting.	
<b>Diversity Grant</b>	Provides Registration Assistance to encourage culturally diverse participation at annual ABS meeting.	
<b>Latin American Initiatives Fund</b>	Fund to help promote the initiatives of the Latin American Affairs Committee.	
<b>Unrestricted Fund</b>	General Donations to enable the society to respond effectively to emergencies and opportunities.	

### Payment Details

Check	Money Order	Dept Purch Cd	Visa	MasterCard	AMEX	Discover	VOLUNTARY DONATION To offset card fees. (\$1-2)
Number:			Expires				
Signature of Card holder							
Name as it appears on Card (please print or type)							
Credit Card Billing Address if different from Correspondence address							
			<b>CVV2 / CVC2 / CID Code</b> AMEX = 4 digits above acct number (card front). Visa, MC Discover = 3 digits at end acct number (card back)			<b>TOTAL PAID US Dollars</b>	