



# CONFERENCE PROGRAM

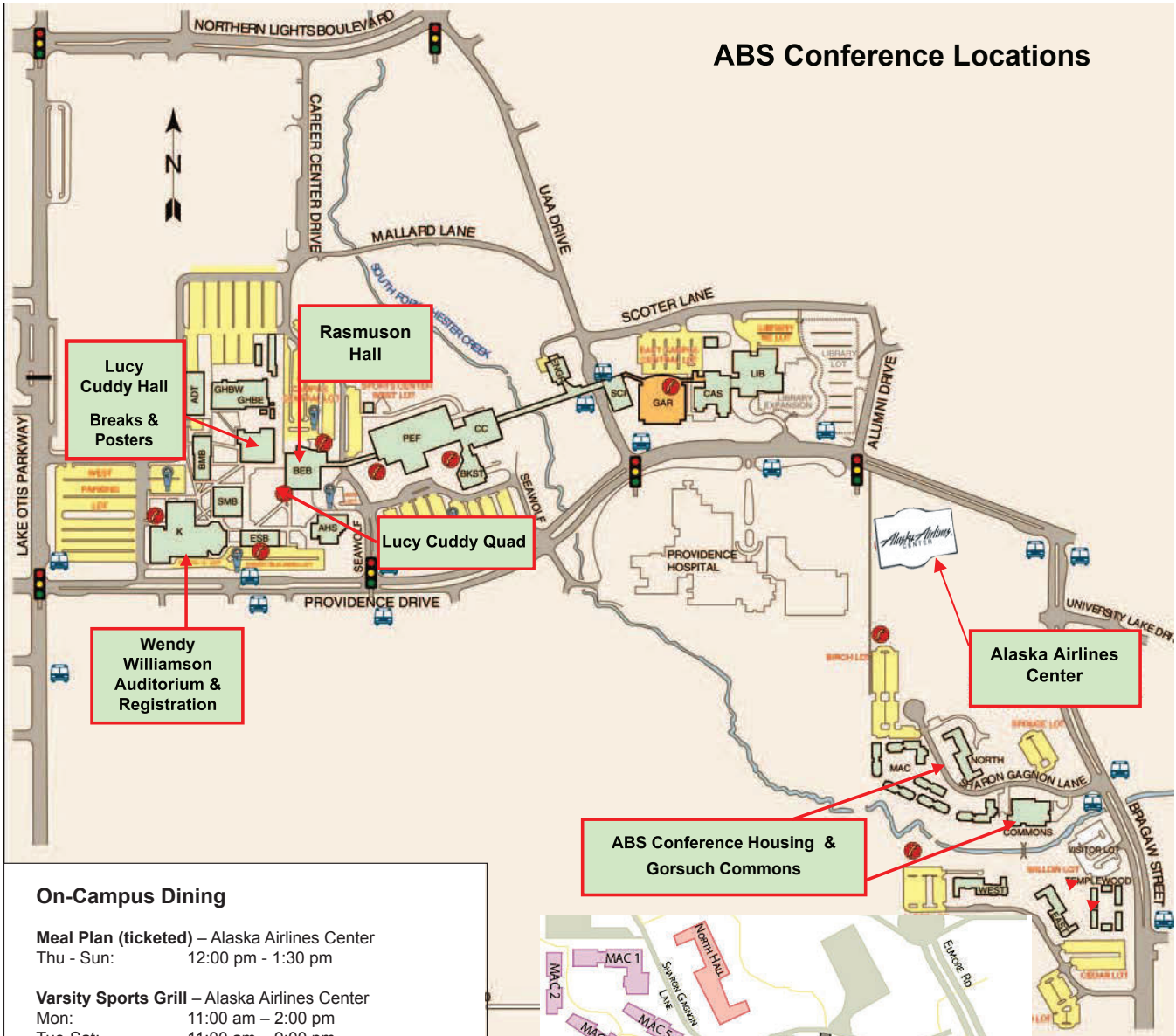
*52<sup>nd</sup> Annual Conference  
of the Animal Behavior Society*

**University of Alaska - Anchorage  
June 10-14, 2015 | Anchorage, Alaska**



# UNIVERSITY of ALASKA ANCHORAGE

## ABS Conference Locations



### On-Campus Dining

**Meal Plan (ticketed)** – Alaska Airlines Center  
Thu - Sun: 12:00 pm - 1:30 pm

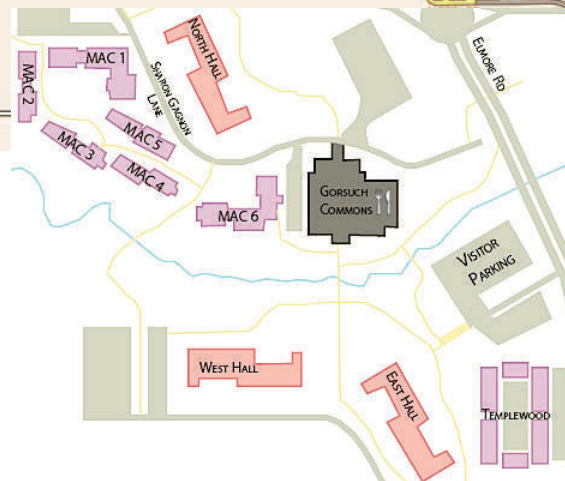
**Varsity Sports Grill** – Alaska Airlines Center  
Mon: 11:00 am – 2:00 pm  
Tue-Sat: 11:00 am – 9:00 pm

**Bear Necessities** - Gorsuch Commons  
Mon-Fri: 7:30 am - 10:30 pm  
Sat-Sun: 12:00 pm - 10:30 pm

**Kaladi Brothers Coffee** - SSB/Library  
Mon-Thu: 7:45 am - 8:30 pm  
Fri: 7:45 am - 2:00 pm

**The Daily Grind** – Lucy Cuddy Hall  
Mon-Thu: 7:45 am - 7:00 pm  
Fri: 8:00 am - 2:00 pm

**Creekside Eatery** - Gorsuch Commons  
Breakfast Buffet: 7:00 - 8:00 am  
Dinner Buffet: 11:00 - 1:30 pm  
Dinner Buffet: 5:00 - 7:30 pm



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## GENERAL INFORMATION

### DATES

The 52<sup>nd</sup> Annual Animal Behavior Society Conference begins Wednesday, June 10th and concludes Sunday, June 14<sup>th</sup>, 2015.

### REGISTRATION INFORMATION

The Registration Desk is located in the lobby of the Wendy Williams Auditorium and will be open during the following hours:

Tuesday	6:00 pm - 8:00 pm
Wednesday	7:30 am - 8:30 pm
Thursday	7:00 am - 6:00 pm
Friday	7:30 am - 6:00 pm
Saturday	7:30 am - 6:00 pm
Sunday	7:30 am - 6:00 pm

### INSTRUCTIONS TO POSTER PRESENTERS

All posters will be displayed in the Lucy Cuddy Hall. Assigned poster numbers and sessions are listed in this program and in the online conference program (<http://program.abs2015.org>).

- All posters must fit within an area no larger than 42" wide X 40" high and will be hung by push-pins (provided on-site). Please place your poster on the board with the correct number leaving the board number visible.
- Presenters are asked to stand with their poster from 8:00 pm -10:00 pm on their presentation day. Odd-numbered posters are presented on Friday and even-numbered posters are presented on Saturday. Poster session details can be found on pages 27-32.

### INSTRUCTIONS TO TALK PRESENTERS

Concurrent sessions will follow a strict schedule and will be tightly synchronized. Session topics, room assignments, individual talk times & titles are in the program schedule and indexed in this booklet.

- Talks will be strictly timed by moderators to keep the concurrent sessions synchronous.
- All talks must be PC-compatible. Conference computers are PC's equipped with PowerPoint 2013. All presentation files, Mac and PC, must be compatible.
- Ensure you bring a USB back-up of your talk to your session.
- Under NO CIRCUMSTANCES will personal computers be permitted to connect to the projection system for a contributed or symposium talk.
- All talks MUST be loaded on conference computers prior to your talk.
- Speakers scheduled to speak on Thursday morning should upload their talks on Wednesday evening, if possible.
- **The Speaker Presentation Upload area is located in Wendy Williamson Auditorium Lobby at the Registration Desk.**

### PRIVACY STATEMENT

Audio recording of presentations at ABS meetings is permitted only with prior approval of the speaker. Video recording may be allowed only under special circumstances with prior approval of the Program Officers, the Executive Committee and the speaker.

### WiFi ACCESS

WiFi access will be available via a public network which has speed and security restrictions. You will be asked to agree to the terms and conditions upon first connecting to this network.

Use the following link for additional information:  
<http://www.uaa.alaska.edu/wirelessauthentication/customcf/terms-of-use.html>

### ONLINE/MOBILE PROGRAM

ABS attendees may access the online conference program using the following link: <http://program.abs2015.org>.

### CAMPUS HOUSING CHECK-IN

UAA Residence Halls are operated 24 hours a day / 7 days a week - just like a hotel. Visit North Hall to check-in and confirm the building name and location of your reservation. UAA Staff will also be able to assist you with any room needs.

### North Hall

3601 Sharon Gagnon Lane  
Anchorage, AK 99508

Each suite is equipped with the following items:

- Bed/bath Linens
- Soap & Shampoo
- Coffee maker & Complimentary coffee
- Telephone
- Internet Connectivity (Must supply own ethernet cable)
- Alarm Clock
- Irons & Ironing boards

### TAXIS

Dorm Commons is the best location for a pick up.

Alaska Yellow Cab  
(907) 222-2222

Anchorage Checker Cab  
(907) 274-3333

Alaska Cab Company  
(907) 562-5353

### MEAL/SNACK OPTIONS

#### Meal Plan (ticketed)

*Alaska Airlines Center*  
Thu-Sun: 12:00 pm-1:30 pm

#### Varsity Sports Grill

*Alaska Airlines Center*  
Mon: 11:00 am-2:00 pm  
Tue-Sat: 11:00 am-9:00 pm

#### Bear Necessities

*Gorsuch Commons*  
Mon-Fri: 7:30 am-10:30 pm  
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#### Kaladi Brothers Coffee

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#### The Daily Grind

*Lucy Cuddy Hall*  
Mon-Thu: 7:45 am-7:00 pm  
Fri: 8:00 am-2:00 pm

#### Creekside Eatery

*Gorsuch Commons*  
Breakfast: 7:00 am-8:00 am  
Lunch: 11:00 am-1:30 pm  
Dinner: 5:00 pm-7:30 pm

### EXHIBITS

Exhibits are located in Lucy Cuddy Hall and will be open during all breaks and poster sessions.

### SUMMER PARKING RATES

Day use: \$2.00 per hour; \$10.00 per 24-hour period  
Extended use: \$25.00 for the duration of your stay

If you know the license plate number of your vehicle, extended permits may be purchased in advance at our Online Permit Store. If you will be using a rental car, you may obtain an extended-stay parking receipt at any Pay 'n Park machine upon your arrival, or visit the Parking Services office, located in the lower-level of the Campus Bookstore, during regular business hours for a more durable cling- film decal.

## WELCOME LETTER

### Welcome to the University of Alaska Anchorage and the 52nd Annual Conference of the Animal Behavior Society!

We have 600 participants from 20 countries and an incredibly diverse program with 324 talks and 152 posters. Information on the meeting including the program and symposia can be found within this booklet and at <http://www.animalbehaviorsociety.org/2015/>.

The conference begins informally on Wednesday with an Adventures in Animal Behavior outreach fair, along with NSF, Turner, and Conservation Behavior workshops, followed by an opening welcome reception. Official presentations begin on Thursday and run through Sunday. This year we have four Keynote speakers kicking off each morning and six symposia: the Peter Marler Memorial Symposium: Mechanisms of Animal Behavior, Northern Marine Mammals, It's About Time – Understanding Temporal Variation in Animal Behavior, New Frontiers for the Integrative Study of Animal Behavior, the Allee Symposium for Best Student Paper, and the Presidential Symposium: Social Networks and Animal Societies – Linking Structure to Function. The academic program concludes on Sunday with a plenary talk by ABS President Regina Macedo and our annual ABS awards ceremony. An Alaskan-themed banquet will close the 2015 UAA conference, setting the stage for the 53rd meeting in July 2016 to be held at the University of Missouri, Columbia.

Orientation on campus should be easy since all talks and most events will be held in the UAA west quad area (away from the mountains), with lunch and evening parties in the brand new Alaska Airlines Center or across the street in the Gorsuch Commons UAA housing complex (toward the mountains); since the light abounds, just look up and head that direction. All keynote talks and some symposia will be held in the Wendy Williamson Auditorium, while the contributed paper sessions, some symposia, poster presentations and coffee breaks will be in Cuddy and Rasmussen Halls both next to/across from the Williamson. On most days there will be five concurrent sessions. Posters will be viewable every day starting on Thursday in Cuddy Hall, where all the coffee breaks will be held and where publishers, vendors and sponsors will be located. Poster presenters will be at their posters to discuss their work on two consecutive nights, odd numbers on Friday and even numbers on Saturday. Posters will include those entered in the Founders and the Genesis groups, along with some from undergraduates who received Charles H. Turner awards to attend the conference. This year we will again have 'Poster Previews' during which Founder Poster Presenters will have an opportunity immediately following Saturday morning's Keynote presentation to creatively advertise their posters to all meeting participants. Using two slides, each poster presenter will have one minute to entice participants to check out their posters. And all are encouraged to attend the ABS general meeting on Saturday immediately after the morning break in Williamson to discuss and vote on society changes, and to hear about future meetings, the journal, funding for graduate research awards, and other information about the society and the field. Grab a drink and treat and come on in; there will be a raffle with great prizes for those in attendance!

Many special events will take place over lunch including ones for Academic Orphans, Undergraduate Orientation, and Meet the Editor, as well as meetings of the Education, Conservation, Diversity and Public Affairs Committees. The during-/after-dinner evening events include the Film Festival, LGBTQ Networking, NSF Meeting, Myth Busting 101, and Future of Graduate Training (more information on these events and workshops is further on in this program; check out the online schedule and posts during each morning's introduction and on bulletin boards to see when and where all these special events and others are occurring). Additionally, there will be a 'Student' Party after the first poster session on Friday, and a Latin-American Pachanga dance party after the second poster session on Saturday during both of which we hope everyone will dance and celebrate the nights away with old and new ABS friends! And as if all of that weren't enough, each morning from 7 – 8 AM prior to the keynote speakers either Zumba or yoga will be offered in the Commons or outside, weather permitting in glorious sunshine surrounded by mountain views, to those who would like to stretch their legs (and other body parts) before being seated much of the day. Plus, this year since we are in the 'Land of the Midnight Sun' the 8th annual ABS 5K Fun Run will be held on Thursday at 9:30 PM following the Film Festival (so don't eat too much popcorn).

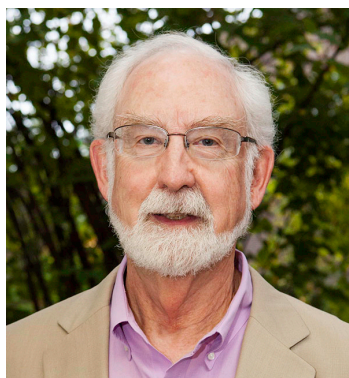
We hope you have a wonderful experience this week at ABS 2015. Your research and interactions will make the meeting wonderfully memorable. Please note that this entire event and its program would not have come together without the hard work of the program committee, SPLtrak, many from ABS and the University of Alaska Anchorage, especially members of Kenai Peninsula College – Kachemak Bay Campus, the Departments of Biology and Psychology, UAA Conference Services & Catering, of course, our dedicated volunteers.

Enjoy the University of Alaska Anchorage campus, the greater Anchorage area, any pre-/post-conference tours you might be taking, and, of course, the amazing research that will be presented!

*Debbie Tobin*



**Deborah Boege-Tobin** (Local Host)



**Michael Beecher** (Program officer)



**Mark Hauber** (Program officer-elect)

## AWARDS

### THE WARDER CLYDE ALLEE PRIZE

The Allee symposium features outstanding graduate student research, with an award for the best paper, and is a highlight of ABS meetings. 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. Allee was born in Bloomington, Indiana. He earned his PhD from the University of Chicago (1912), was a faculty member at University of Illinois, University of Oklahoma, University of Chicago (1928-1950), and was Chair of Zoology at the University of Florida (1950-1955). He was elected to the National Academy of Sciences in 1951 and ranks among the leading twentieth century ecologists, especially for his work in behavioral and animal ecology. In the 2015 ABS Allee Session, 9 graduate students will present their research to ABS members and talk judges. Any independent graduate student research (including, but not limited to, the doctoral dissertation) is eligible. The work presented may be part of a larger collaborative effort, but students have the principal responsibility for the conceptualization and design of the research, the collection and analysis of the data, and the interpretation of the results. The presenter cannot have completed defense of the doctoral dissertation before the preceding ABS annual meeting. An individual can enter the session only once per lifetime.

Judges: Bill Searcy, Jeff Podos, Dorothy Cheney, Jonathan Pruitt

### ANIMAL BEHAVIOR FOUNDER'S MEMORIAL POSTER AWARD

This award is in honor of the founders of the Animal Behavior Society. It is for outstanding posters presented at the annual meeting. All ABS members are eligible to have their poster considered for this award, and elect to be considered when they submit their abstract. This year the award is named after luminary Peter Marler who passed away this past summer.

Judges: Emilia Martins (ABS 1st President-Elect), Emily DuVal, Teresa Dzieweczynski, Jeff Lucas, Claire Varian-Ramos and Danielle Whittaker

### TURNER AWARDS

In 2002, the Animal Behavior Society created the Charles H. Turner Program for undergraduate participation at the annual Society meetings. Charles Turner was the first known African American researcher in animal behavior. He earned his PhD from the University of Chicago in 1907. Among other things, his research showed that insects can hear and exhibit trial-and-error learning. By naming the undergraduate program after him, the ABS Diversity Committee emphasizes its goal of increasing the diversity of its membership by encouraging researchers of all ages, levels, and ethnic groups to participate in the annual meetings. The ABS Diversity committee brings a group of 8-12 undergraduates to the meetings each year, covering all expenses, and providing a full program of events including a pre-meeting workshop and direct mentorship from senior scientists.

### GENESIS AWARD FOR UNDERGRADUATE RESEARCH

First presented at the 2000 ABS Annual Meeting, the Genesis Award honors the best undergraduate poster presented at the meeting. This year, undergraduate researchers in the Genesis session present their posters in the first poster session.

Judges: Sarah Humfeld, Matt Wund, Carrie Hall, Melissa Graham, Dan Howard and Emilie Snell-Rood

***Announcement of Meeting and Career Award winners will be made at the Awards Ceremony immediately following the Presidential plenary talk on Sunday evening.***



## PLENARIES & KEYNOTES

### THURSDAY, JUNE 11TH - 8:15 - 9:30 AM

#### SOCIAL INFLUENCES ON FOOD CHOICE: BEHAVIOR, NEUROSCIENCE AND MOLECULAR BIOLOGY

Bennett Galef (McMaster University)  
*ABS Distinguished Animal Behaviorist*

What has kept me interested in the social transmission of food preference (STFP) for more than 40 years is how accommodating the phenomenon has become to different levels of analysis. I plan to describe some of the many behavioral sensory, physiological and molecular studies of STFP carried out both in my laboratory and those of many others in response to three of Tinbergen's four questions about behavior.



### FRIDAY, JUNE 12TH - 8:00 - 9:15 AM

#### THE BEHAVIOR AND CONSERVATION OF BREEDING GRAY WHALES IN LAGUNA SAN IGNACIO: A FORTY YEAR PERSPECTIVE

Steven Swartz (Laguna San Ignacio Ecosystem Science Program)

Each winter North Pacific gray whales migrate south along the coast of North America from their summer feeding range in the North Pacific, Bering, and Arctic to their winter breeding range along the Pacific Coast of Baja California, Mexico. Bahia Ballenas and Laguna San Ignacio is one of three major winter aggregation areas where adult grays breed and give birth to their calves. Systematic studies of the use of this lagoon by gray whales began in 1977, and have continued to the present to document the abundance, distribution, calving rate, and behavior of the gray whales that occupy the lagoon each winter. During this time the gray whale population has fluctuated, presumably in response to environmental factors, and these changes have been reflected in the number of whales utilizing Laguna San Ignacio. The lagoon lies within Mexico's Vizcaino Biosphere Reserve and, as a managed marine protected area, it has become a focus of whale-watching eco-tourism in Mexico, and for the whales' "curiosity" with whale-watchers. I will discuss the history of the gray whale's use and the conservation of Laguna San Ignacio over the past four decades, the breeding behavior of the whales, and their relationship with the eco-tourism community that operates within the lagoon.



### SATURDAY, JUNE 13TH - 8:00 - 9:15 AM

#### INSIGHTS INTO PLASTICITY AND INDIVIDUAL DIFFERENCES IN BEHAVIOR FROM STICKLEBACK GENOMIC DATA

Alison Bell (University of Illinois, Urbana/Champaign)

Over the past 10+ years, genomics has been alternately heralded, hyped and dismissed. Until recently there has not been a sufficient number of studies using genomic tools to address important questions in animal behavior to allow us to assess whether genomics has lived up to its promise. In this talk, I will use examples from studies of behavior in sticklebacks to illustrate the opportunities and challenges associated with applying genomic tools (especially genome-wide expression) to the study of animal behavior. In particular, I will highlight insights we have gained into the causes of individual differences in behavior and limited plasticity from measuring brain gene expression. Some of the main findings include: (1) pleiotropy is rampant; (2) the molecular correlates of individual variation can be different from the molecular correlates of plasticity; (3) the way fathers behave toward their offspring can be an important source of epigenetic variation with consequences for offspring.



### SUNDAY, JUNE 14TH - 8:00 - 9:15 AM

#### ADVANTAGE AND ADVERSITY: THE INFLUENCE OF SOCIAL ENVIRONMENTS ON FITNESS IN SOCIAL MAMMALS

Susan Alberts (Duke University)

How does an organism's social and ecological environment affect its fertility and survival? These are major questions that cross the disciplines of animal behavior, biodemography, and medicine. To gain insight into these questions, we are taking advantage of longitudinal data from a well-studied wild primate population, the baboons of the Amboseli basin in southern Kenya. This population, one of the best-studied wild mammal populations in the world, has been under continuous observation since 1971, and represents a robust natural population that experiences extensive natural variation in the social and ecological environment. We have investigated the effects of early life adversity (both social adversity and ecological adversity) on fertility and survival, and we have also investigated the effects of the adult social and ecological environment on fertility and survival. Our data indicate that early adversity carries lifelong costs for both fertility and survival in these primates, and that the adult environment offers some opportunities for these costs to be mitigated.



### SUNDAY, JUNE 14TH - 4:30 - 5:15 PM

#### ANIMAL BEHAVIOR: TIME TRAVEL THROUGH SCIENCE

Regina Macedo (Universidade de Brasilia)  
*ABS President*

The role of science in today's world cannot be emphasized strongly enough. In a planet where societies effectively exist in different time periods, conflict seems unavoidable. In this talk, I will explore how research, specifically that developed by us as behaviorists and members of ABS, has contributed toward accelerating global progress in science. These efforts can effectively decrease the knowledge and cultural gaps and lead to greater understanding and development.



## SYMPOSIA

**THURSDAY, JUNE 11TH****PETER MARLER MEMORIAL SYMPOSIUM: MECHANISMS OF ANIMAL BEHAVIOR**

Organizers: Michael Beecher, William Searcy, Robert Seyfarth

Wendy Williamson Auditorium

Peter Marler was a Founder of the Animal Behavior Society and a major figure in the development of the science of animal behavior in the last century. The organizers and speakers in this symposium each have worked in one of the various areas of animal behavior to which Peter made major contributions (in many cases with Peter), including the following: Ontogeny of bird song; primate communication; functional reference in animal signals; neurobiology of bird song; hormonal control of song and song development; functional studies of bird song; environmental selection on animal signals.

- Greg Ball, University of Maryland
- Michael Beecher, University of Washington
- Dorothy Cheney, University of Pennsylvania
- Bob Dooling, University of Maryland
- Doug Nelson, Ohio State University
- Steve Nowicki, Duke University
- Sarah Partan, Hampshire College
- Susan Peters, Duke University
- Marilyn Ramenofsky, University of California, Davis
- William Searcy, University of Miami
- Robert Seyfarth, University of Pennsylvania
- Carolynn K-Lynn Smith, Macquarie University
- Jill Soha, Duke University
- R. Haven Wiley, University of North Carolina
- John Wingfield, University of California, Davis
- Ken Yasukawa, Beloit College

**FRIDAY, JUNE 12TH****WARDER CLYDE ALLEE SYMPOSIUM**

Organizer: William Searcy

Wendy Williamson Auditorium

This symposium features outstanding graduate student research, with an award for the best paper, and is a highlight of ABS meetings. 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. He was elected to the National Academy of Sciences in 1951 and ranks among the leading twentieth century ecologists, especially for his work in behavioral and animal ecology. In the 2015 ABS Allee Session, 9 graduate students will present their research to ABS members and talk judges.

- Species-specific responses of male widow spiders to sex pheromones are the exception, not the rule. Luciana Baruffaldi
- Life-history strategy and behavioral type: Risk-tolerance reflects growth rate and energy allocation. Sarah E. Bengston
- Male mating strategies vary with attractiveness and predict paternity in a promiscuous songbird. Jenelle Dowling
- Warning signal form in black widows: roles of condition, predators, and prey. Nicholas C Brandley
- Mixed-Species Flock Composition Influences Carolina Chickadee Call Rates Across Contexts. Sheri A. Browning
- Cooperative breeding helps brown-headed nuthatches (*Sitta pusilla*) face interspecific competition. Esther L. Niemasik
- Relationships between components of complex displays shift across environments & contexts. Malcolm F Rosenthal
- Dads matter: causes and consequences of plasticity in paternal care in three spine stickleback. Laura R. Stein
- Multimodal signaling in the North American barn swallow: A phenotype network approach. Matthew R. Wilkin

**FRIDAY, JUNE 12TH****NORTHERN MARINE MAMMALS SYMPOSIUM**

Organizers: Deborah Boege-Tobin, Jennifer Burns

Lucy Cuddy Hall

The Northern Marine Mammals symposium will highlight speakers from academia, management and non-profit agencies, presenting on topics ranging from behavioral changes due to climate shifts to emergent disease issues, to potential behavioral impacts of changing human activities in the regions.

- Russ Andrews, University of Alaska Fairbanks, Alaska SeaLife Center
- Todd Atwood, USGS Alaska Science Center
- Deborah Boege-Tobin, University of Alaska Anchorage-KPC-KBC
- Kathy Burek Huntington, Alaska Veterinary Pathology Services
- Jennifer Burns, University of Alaska Anchorage
- Leslie Cornick, Alaska Pacific University
- Angela Doroff, Kachemak Bay National Estuarine Research Reserve
- Verena Gill, Bureau of Ocean Energy Management
- John Maniscalco, University of Alaska Fairbanks, Alaska SeaLife Center
- Jan Straley, University of Alaska Southeast
- Rebecca Taylor, USGS Alaska Science Center
- J. Ward Testa, NOAA NMML Alaska Fisheries Science Center
- Olga von Ziegeler, Eye of the Whale



## SYMPOSIA (CONTINUED)

**SATURDAY, JUNE 13TH****FRONTIERS SYMPOSIUM**

Organizers: Dustin Rubenstein, Hans Hofmann

Wendy Williamson Auditorium

"New Frontiers for the Integrative Study of Animal Behavior"

As the 50th anniversary of Tinbergen's seminal essay on levels of analysis in studies of animal behavior has come and gone, efforts to integrate neural, genetic, physiological, ecological, and evolutionary studies of behavior at the organismal level are gaining new prominence. These integrative studies of animal behavior are being facilitated by multiple factors, including new technologies and analytical procedures, as well as the increasing ease of application of these advances to studies in the field. As biologists call for an integration of Tinbergen levels of analysis in studies of animal behavior, the time is right to convene scientists working in this area to discuss how to most effectively do this. Speakers in this symposium will discuss how they use a range of tools in their integrative research programs, and how their work impacts the field of animal behavior.

- Dustin Rubenstein, Columbia University
- Hans Hofmann, University of Texas
- Karen Carleton, University of Maryland
- Ellen Ketterson, Indiana University
- Jenny Tung, Duke University
- Lisa McGraw, North Carolina State University
- Tim Roth, Franklin and Marshall College

**SATURDAY, JUNE 13TH****IT'S ABOUT TIME SYMPOSIUM**

Organizers: Andy Dosmann

Lucy Cuddy Hall

"It's About Time: Understanding Temporal Variation in Behavior"

In animal behavior, when something happens and for how long it happens can be just as important as what happens. Many aspects of animal behavior involve change over time. If researchers do not consider time, they miss a number of functionally important processes. The general importance of timing in animal behavior is widely appreciated, but often not explicitly addressed. Furthermore, researchers who do explicitly address temporal variation do so in distinctly different ways. Speakers at this symposium will outline unresolved temporal issues in animal behavior, present ways to more comprehensively quantify the impacts of time on behavior, and evaluate the impact of temporal variation on fields ranging from animal personality to intraindividual variability to social network analysis.

- Tim Brick, Penn State University
- Andy Dosmann, Stanford University
- Elizabeth Hobson, National Institute for Mathematical and Biological Synthesis
- Krista Ingram, Colgate University
- Pierre-Olivier Montiglio, University of California-Davis
- Christopher J. Schell, University of Chicago
- Judy Stamps, University of California-Davis

**SUNDAY, JUNE 14TH****PAST PRESIDENT'S SYMPOSIUM**

Organizer: Daniel Rubenstein

Wendy Williamson Auditorium

"Social Networks and Animal Societies -- Linking Structure to Function"

Social networks have become a powerful tool for characterizing social relationships that make up animal societies. Until recently, however, networks have mostly been used to characterize the structure of societies. Because individuals can be part of many different types of networks—affiliated, aggressive, kin based, to name a few—linking structure to social function remains a challenge. Speakers in this symposium will provide insights into how the spread of memes, genes and diseases are shaped by features of network structure and their dynamics and in turn, how different patterns of spread modulate population processes.

- Dan Rubenstein, Princeton University
- David B. McDonald, University of Wyoming
- Tina W Wey, New Mexico State University
- Damien R Farine, University of Oxford
- Lauren J.N. Brent, Duke University
- Susanne M Shultz, University of Manchester
- Orr Spiegel, University of California
- Tanya Y. Berger-Wolf, University of Illinois at Chicago
- Andrew Sih, University of California-Davis

## WORKSHOPS

### WEDNESDAY, JUNE 10TH | 8:00 AM - 5:00 PM

#### NSF IT'S ABOUT TIME WORKSHOP

Organizer: Andy Dosmann

Gorsuch Commons - 106

Many researchers study temporal variation in behavior, but do so with distinctly different approaches. This workshop will determine new opportunities for integration among approaches and suggest what fields of animal behavior research will benefit from more explicitly addressing temporal variation in behavior. We will identify challenges to studying temporal variation and propose ways of overcoming those challenges. Short statistics modules will introduce a few potential avenues for overcoming some challenges and stimulate research plans to better understand temporal variation in behavior.

### WEDNESDAY, JUNE 10TH | 9:00 AM - 4:00 PM

#### TURNER PROGRAM WORKSHOP (INVITE ONLY)

Organizer: Dan Howard

Gorsuch Commons - Canary Room

The Charles H. Turner Undergraduate Program, established in 2002, provides to undergraduate participants support for travel to the annual conference of the Animal Behavior Society. Participation in a pre-meeting Turner Program workshop is by invitation only, selection of participants is competitive, and students are encouraged to present research at the conference. The full-day workshop prepares students for the conference and provides advice on: careers in animal behavior, meeting faculty and graduate students at the conference, presenting posters, and identifying and applying to appropriate graduate programs. Each student is assigned a mentor, based on the student's interests, and the program typically supports from 8-12 students per year, depending upon the meeting location. The goal of the Turner program is to attract and retain in the field of animal behavior highly qualified graduate and undergraduate students from groups historically under-represented in the STEM fields.

### WEDNESDAY, JUNE 10TH | 10:30 AM - 5:30 PM (9:30 AM CHECK-IN)

#### CONSERVATION BEHAVIOR WORKSHOP (PRE-REGISTRATION REQUIRED)

Organizer: Barbara Clucas & Misty McPhee

Lucy Cuddy Hall

Agenda:

10:30 am **Introduction: Barbara Clucas**

10:45 am **Presentations**

- **Barbara Mahoney, NOAA** - The Endangered Species Act and Marine Mammals Protection Act
- **Leslie Cornick, Alaska Pacific University** - Shore- and boat- based visual monitoring of Cook Inlet beluga whales for coastal zone development: aligning mitigation and science
- **James MacCracken, US Fish and Wildlife Service** - Pacific walrus coastal haulout issues and management programs

1:30 pm **Breakout Sessions**

3:20 pm **Break**

3:45 pm **Session Reports**

4:45 pm **Wrap-up**

5:30 pm **Adjourn**

### THURSDAY, JUNE 11TH | 7:00 PM - 8:00 PM

#### NSF: MYTH BUSTING 101 (OPEN TO ALL ATTENDEES)

Organizer: Michelle Elekonich, NSF & Tamra Mendelson, NSF

Rasmusson Hall – Room 117

### FRIDAY, JUNE 12TH | 7:00 PM - 8:00 PM

#### NSF: THE FUTURE OF GRADUATE TRAINING (OPEN TO ALL ATTENDEES)

Organizer: Michelle Elekonich, NSF & Tamra Mendelson, NSF

Rasmusson Hall – Room 117



## EVENTS &amp; MEETINGS

## WEDNESDAY, JUNE 10TH - SATURDAY, JUNE 13TH

**ABS SILENT AUCTION** (*Wendy Williamson Auditorium Lobby*)  
Organizer: *Saethra Fritscher*

Bring items to Anchorage to Donate! Bring items from home, pick up items in your travels, from your field sites, or obtain donations from supportive colleagues and organizations. Drop your items at the registration desk! The more items we have, the more likely the auction will be as successful as it was last year! 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. Funds raised will support Graduate Student Research and Latin American Affairs!

## WEDNESDAY, JUNE 10TH

**ABS OUTREACH FAIR: ADVENTURES IN ANIMAL BEHAVIOR (NO CHARGE)** Alaska Museum of Science & Nature  
**2:00 PM - 6:00 PM** 201 N Bragaw St.  
Anchorage, AK 99508  
Organizer: *Emilie Snell-Rood*

The fifth annual ABS Outreach Fair: Adventures in Animal Behavior will be held at the Alaska Museum of science and Nature on Wednesday, June 10th from 2:00 pm to 6:00 pm. This event features interactive displays and activities related to the research numerous 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.

**OPENING RECEPTION - ALASKAN BBQ**  
**6:30 PM - 8:30 PM** (*Lucy Cuddy Hall Quad*)

Greet old friends, meet new ones, and enjoy some great food and drink. This event is included at no additional cost with your registration.

## THURSDAY, JUNE 11TH

**UNDERGRADUATE LUNCHEON & ORIENTATION**  
**12:00 PM - 1:30 PM** (*Gorsuch Commons 107*)  
Organizers: *Dan Howard and Peggy Hill*

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.

**CONSERVATION COMMITTEE MEETING**  
**12:00 PM - 1:30 PM** (*Alaska Airlines Center - Reserved Area*)

The Conservation Committee will meet to review the committee's activities over the past year and develop plans for activities to take place over the next few years. All interested parties' welcome.

**MEET THE EDITOR LUNCHEON WORKSHOP - OPEN TO ALL ATTENDEES**  
**12:00 PM - 1:30 PM** (*Alaska Airlines Center - Reserved Area*)  
Organizers: *Michelle Scott*

Michelle Scott, the Executive Editor of Animal Behaviour will be available to answer any and all questions regarding the publishing process or about potential submissions.

**LGBTQ NETWORKING EVENT**  
**6:00 PM - 8:00 PM** (*Varsity Sports Grill*)

Please join us for an informal gathering to meet other LGBTQ animal behaviorists! We will go out for dinner and drinks at the Varsity Sports Grill located inside the Alaska Airlines Center.

**32ND ANNUAL ABS FILM FESTIVAL**  
**6:30 PM - 10:00 PM** (*Wendy Williamson Auditorium*)  
Organizer: *Barbara Clucas*

Now in its 32nd year, the ABS Film Festival features outstanding films 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>). *\*NEW THIS YEAR: Optional movie theatre food available for purchase*

SEE PAGE 11 FOR ADDITIONAL DETAILS.

**8TH ANNUAL ABS 5K FUN RUN**  
**9:15 PM - 10:30 PM** (*Wendy Williamson Auditorium*)

All are invited to participate in this relaxed run/walk winding through the UAA campus. Thursday, June 11th, we will meet at the start line at the Wendy Williamson Auditorium at 9:15 pm.

## EVENTS & MEETINGS (CONTINUED)

### FRIDAY, JUNE 12TH

#### DIVERSITY COMMITTEE MEETING

**12:00 PM - 1:30 PM** (*Alaska Airlines Center - Reserved Area*)  
Organizer: Dan Howard

All Diversity Committee members will be meeting and anyone interested in diversity-related issues is welcome to join.

### SATURDAY, JUNE 13TH

#### ABS ANNUAL GENERAL MEETING & RAFFLE

**10:00 AM - 11:00 AM** (*Wendy Williamson Auditorium*)

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 one of many mystery prizes (you can only win if you are there!).

#### EDUCATION COMMITTEE MEETING

**12:00 PM - 1:30 PM** (*Alaska Airlines Center - Reserved Area*)  
Organizer: Susan Foster

We welcome anyone interested to join us during the lunch break for a discussion on Education Committee topics.

#### PUBLIC AFFAIRS COMMITTEE MEETING

**12:00 PM - 1:30 PM** (*Alaska Airlines Center - Reserved Area*)  
Organizer: Patty Brennan

If interested in brainstorming ideas on how to increase the exposure of the society to the general public, please join us at lunch. The committee would like ABS members to think about initiatives that the committee could pursue.

#### STUDENT PARTY

**9:30 PM - 12:00 AM** (*Gorsuch Commons - Lower Dining*)

Undergraduate students, graduate students and post-graduate students welcome.

#### NATIONAL SCIENCE FOUNDATION MEETING

**6:00 PM - 8:00 PM** (*Gorsuch Commons 106*)  
Organizer: Andy Dosmann

The funding landscape is increasingly harsh. The previous workshop session will open up opportunities for research on temporal variation in behavior, and this session will explore ideas and strategies of how to capitalize on those research opportunities in today's harsh funding landscape.

#### PACHANGA ALERT 2015 – TICKETED EVENT

**9:30 PM - 12:00 AM** (*Gorsuch Commons - Lower Dining*)  
\$15 for students; \$20 for faculty - tickets sold at registration or door

Get prepared for the most sensational Latin party of the year. All ABS 2015 meeting participants are invited for the "Latin American dance competition". Winners of the contest will be awarded with gorgeous Latin American gifts or remembrances. You can purchase tickets at the registration desk be sure to listen for further details as they will be announced during the meeting. You can't miss this!

### SUNDAY, JUNE 14TH

#### ABS AWARD CEREMONY

**5:15 PM - 6:15 PM** (*Wendy Williamson Auditorium*)

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

#### ABS CLOSING BANQUET – TICKETED EVENT

**7:30 PM - 11:30 PM** (*Alaska Native Heritage Center*)  
\$70.00 all attendees

Join us at the Alaska Native Heritage Center for dinner. There will be motor coaches available to shuttle attendees to the site for an enjoyable closing dinner, where you can touch base with friends, argue about the meeting's key presentations, and congratulate award-winners: a fitting way to end this historical 52nd ABS meeting. Shuttle busses will load at 7:00 pm and depart at 7:15 pm from The Gorsuch Commons- near the university dorms North Hall.



## FILM FESTIVAL

### 2015 ANIMAL BEHAVIOR SOCIETY FILM FESTIVAL – ANCHORAGE, AK

Thursday, June 11th

6:30 - 9:30 PM

Location: Wendy Williamson Auditorium

#### NON-COMMERCIAL FILMS

Made by an individual or persons largely associated with animal behavior from a teaching, research, and/or applied perspective, not with the primary goal of earning an income.

#### APPROXIMATE START TIME 6:35 PM

##### **Creative Conservation in Action**

*Directed by: Deirdre Cobbin & Paul McQueen*

This 30 minute research documentary showcases three outstanding Australian conservation programs. Each built on detailed understanding of the natural behaviours of the wildlife to develop a practical innovative approach. In Kakadu National Park, taste aversion training has taken poisonous cane toads off the menu for imperiled northern quolls. The avoidance persists in trained toad smart quolls and their offspring. Brisbanes' Karawatha Forest fauna crossing complex enjoys spectacular success in reconnecting divided populations of mammals, reptiles, frogs and small bird across a busy highway. Tasmanian devils are on the brink of extinction in homeland Tasmania from fatal devil facial tumour disease. The ingenious Devil Ark breeding program on the disease-free mainland has a Tasmania-like environment where insurance populations of wild devils are being raised.

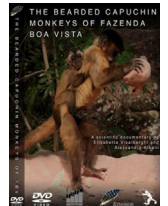


#### APPROXIMATE START TIME 7:05 PM

##### **The Bearded Capuchin Monkeys of Fazenda Boa Vista**

*Directed by: Elisabetta Visalberghi & Alessandro Albani*

This scientific documentary focuses on the behavior of wild tool using bearded capuchin monkeys living in Fazenda Boa Vista (Gilbués, Piauí State, Brazil). The research on this field site, located in the ecotone between Cerrado and Caatinga, has been carried out by an international team of senior researchers from Brazil, United States and Italy that launched the EthoCebus Project in 2005 (see [www.ethocebus.net](http://www.ethocebus.net)). This project investigates the ecology, foraging, social and cognitive behavior of capuchin monkeys.



#### APPROXIMATE START TIME 7:25 PM

##### **Pollination: Trading Fertilization for Food**

*Directed by: Dan Doran*

Most plants rely on animal pollinators to carry their pollen between plants. Plants bribe different animals with rewards like nectar and pollen to move between flowers. But to keep ineffective pollinators from stealing nectar and other rewards, flowers are specialized to attract only certain kinds of animals. Bees, butterflies, birds, bats, and moths are all attracted to certain kinds of flowers. Here, Dr. Mia Park, a pollination biologist explains some of the tricks used by flowers for effective pollination.

#### COMMERCIAL FILMS

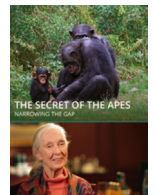
Made by professional photographers and filmmakers with the express purpose of earning a profit.

#### APPROXIMATE START TIME 7:40 PM

##### **The Secret of Apes – Narrowing the Gap**

*Directed by: Eva Demmler & Axel Friedrich*

Do apes have a culture? What seemed to be unthinkable for centuries is now hardly questioned in science. The human being as the crown of creation - this image will constantly fade away. Researchers even go a bit further in their recent studies: What if our culture and the one from the apes are more similar than we previously thought? What if they even have their own language? In what do we differ from them then?



#### APPROXIMATE START TIME 8:40 PM

##### **Wild Australia - Desert of the Red Kangaroo**

*Directed by: Jens Westphalen & Thoralf Grospitz*



Their kingdom is the desert: in the heart of Australia lives the largest marsupial on earth, the red kangaroo. Months of drought, blistering heat and a few patches of dry grass - to live here you need to have your wits about you. Loaded with muscle, the 'red giants' hop through the Outback on their strong rear legs – in fact an extremely energy-saving method of moving in the desert, even when a female is carrying offspring. Young kangaroos spend the first few months of life well protected in their mother's pouch – with direct access to the milk source. Spectacular footage from within the pouch shows how comfortable – or not – life 'on the inside' can be. Renowned wildlife filmmakers Thoralf Grospitz and Jens Westphalen used specialized macro- and super slow motion HD cameras to portray the animal kingdom down under. This is Australia as you've never seen it before!

## PROGRAM SUMMARY

### WEDNESDAY, JUNE 10TH

8:00 am - 5:00 pm	<b>NSF Workshop</b> Gorsuch Commons 106
9:00 am - 4:00 pm	<b>Turner Workshop</b> Commons Canary Room
10:30 am - 5:30 pm	<b>ABS Conservation Behavior Workshop</b> Cuddy Commons
2:00 pm - 6:00 pm	<b>2015 ABS Outreach Fair: Adventures In Animal Behavior</b> Alaska Museum of Science & Nature
6:30 pm - 8:30 pm	<b>Opening Reception</b> Lucy Cuddy Hall Quad Area

### THURSDAY, JUNE 11

8:00 am - 9:30 am	<b>Welcome &amp; Announcements - Keynote - Bennett Galef</b> Wendy Williamson Auditorium				
9:30 am - 10:00 am	<b>Break</b> Cuddy Commons				
10:00 am - 12:00 pm	<b>Marler Symposium (Pt. 1)</b> Wendy Williamson Auditorium	<b>Applied Animal Behavior</b> Rasmusson 110	<b>Cognition &amp; Learning 1</b> Rasmusson 101	<b>Predation &amp; Foraging 1</b> Lucy Cuddy Hall	<b>Social Behavior 1</b> Rasmusson 117
12:00 pm - 1:30 pm	<b>Lunch Break</b>		<b>Undergraduate Luncheon and Orientation</b> Gorsuch Commons 107	<b>Meet the Editor Luncheon Workshop</b> AAC-Dining Area	<b>Conservation Committee Meeting</b> AAC-Dining Area
1:30 pm - 3:30 pm	<b>Marler Symposium (Pt. 2)</b> Wendy Williamson Auditorium	<b>Ecological Effects 1</b> Rasmusson 110	<b>Cognition &amp; Learning 2</b> Rasmusson 101	<b>Predation &amp; Foraging 2</b> Lucy Cuddy Hall	<b>Agonism</b> Rasmusson 117
3:30 pm - 4:00 pm	<b>Break</b> Cuddy Commons				
4:00 pm - 6:00 pm	<b>Marler Symposium (Pt. 3)</b> Wendy Williamson Auditorium	<b>Ecological Effects 2</b> Rasmusson 110	<b>Cognition &amp; Learning 3</b> Rasmusson 101	<b>Predation &amp; Foraging 3</b> Lucy Cuddy Hall	<b>Social Behavior 2</b> Rasmusson 117
6:00 pm - 6:30 pm	<b>Dinner (on your own)</b>			<b>LGBTQ Networking Event</b> Varsity Sports Grill	
6:30 pm - 9:30 pm	<b>Film Festival</b> Wendy Williamson Auditorium				
7:00 pm - 8:00 pm	<b>NSF: Myth Busting 101</b> Rasmusson 117				
9:30 pm - 10:30 pm	<b>8th Annual ABS 5K Fun Run</b> UAA Outdoor Area				

### FRIDAY, JUNE 12

8:00 am - 9:15 am	<b>Keynote - Steven Swartz</b> Wendy Williamson Auditorium				
9:15 am - 9:30 am	<b>Poster Previews</b> Wendy Williamson Auditorium				
9:30 am - 10:00 am	<b>Break</b> Cuddy Commons				
10:00 am - 12:00 pm	<b>Allee Symposium (Pt. 1)</b> Wendy Williamson Auditorium	<b>Northern Marine Mammals Symposium (Pt. 1)</b> Lucy Cuddy Hall	<b>Communication 1</b> Rasmusson 110	<b>Sexual Selection &amp; Conflict 1</b> Rasmusson 117	<b>Social Behavior 3</b> Rasmusson 101
12:00 pm - 1:30 pm	<b>Lunch Break</b> Alaska Airlines Center			<b>Diversity Committee Meeting</b> AAC-Dining Area	
1:30 pm - 3:30 pm	<b>Allee Symposium (Pt. 2)</b> Wendy Williamson Auditorium	<b>Northern Marine Mammals Symposium (Pt. 2)</b> Lucy Cuddy Hall	<b>Communication 2</b> Rasmusson 110	<b>Sexual Selection &amp; Conflict 2</b> Rasmusson 117	<b>Social Behavior 4</b> Rasmusson 101
3:30 pm - 4:00 pm	<b>Break</b> Cuddy Commons				
4:00 pm - 6:00 pm	<b>Allee Symposium (Pt. 3)</b> Wendy Williamson Auditorium	<b>Northern Marine Mammals Symposium (Pt. 3)</b> Lucy Cuddy Hall	<b>Communication 3</b> Rasmusson 110	<b>Sexual Selection &amp; Conflict 3</b> Rasmusson 117	
6:00 pm - 8:00 pm	<b>Dinner (on your own)</b>				
7:00 pm - 8:00 pm	<b>NSF: The Future of Graduate Training</b> Rasmusson 117				
8:00 pm - 10:00 pm	<b>Poster Session I</b> Lucy Cuddy Hall				
9:30 pm - 12:00 am	<b>Student Party</b> Gorsuch Commons Lower Dining				

## PROGRAM SUMMARY

### SATURDAY, JUNE 13

8:00 am - 9:15 am	<b>Keynote - Alison Bell</b> Wendy Williamson Auditorium				
9:15 am - 9:30 am	<b>Poster Previews</b> Wendy Williamson Auditorium				
9:30 am - 10:00 am	<b>Break</b> Cuddy Commons				
10:00 am - 11:00 am	<b>ABS General Meeting &amp; Raffle</b> Wendy Williamson Auditorium				
11:00 am - 12:00 pm	<b>Frontiers Symposium (Pt. 1)</b> Wendy Williamson Auditorium	<b>It's About Time Symposium (Pt. 1)</b> Lucy Cuddy Hall	<b>Behavior, Genetics &amp; Evolution 1</b> Rasmusson 101	<b>Conservation 1</b> Rasmusson 117	<b>Neuro/endocrine &amp; Physiological Mechanisms 1</b> Rasmusson 110
12:00 pm - 1:30 pm	Lunch Break			<b>Public Affairs Committee Meeting</b> AAC-Dining Area	<b>Education Committee Meeting</b> AAC-Dining Area
1:30 pm - 3:30 pm	<b>Frontiers Symposium (Pt. 2)</b> Wendy Williamson Auditorium	<b>It's About Time Symposium (Pt. 2)</b> Lucy Cuddy Hall	<b>Behavior, Genetics &amp; Evolution 2</b> Rasmusson 101	<b>Conservation 2</b> Rasmusson 117	<b>Neuro/endocrine &amp; Physiological Mechanisms 2</b> Rasmusson 110
3:30 pm - 4:00 pm	<b>Break</b> Cuddy Commons				
4:00 pm - 6:00 pm	<b>Frontiers Symposium (Pt. 3)</b> Wendy Williamson Auditorium	<b>It's About Time Symposium (Pt. 3)</b> Lucy Cuddy Hall	<b>Behavior, Genetics &amp; Evolution 3</b> Rasmusson 101	<b>Communication 4</b> Rasmusson 117	<b>Cognition &amp; Learning 4</b> Rasmusson 110
6:00 pm - 8:00 pm	Dinner (on your own)			<b>NSF Meeting</b> Gorsuch Commons 106	
8:00 pm - 10:00 pm	<b>Poster Session II</b> Lucy Cuddy Hall				
9:30 pm - 12:00 am	<b>Latin-American Pachanga</b> Gorsuch Commons Lower Dining				

### SUNDAY, JUNE 14

8:00 am - 9:30 am	<b>Keynote - Susan Alberts</b> Wendy Williamson Auditorium				
9:30 am - 10:00 am	<b>Break</b> Cuddy Commons				
10:00 am - 12:00 pm	<b>Presidential Symposium - Social Networks (Pt. 1)</b> Wendy Williamson Auditorium	<b>Behavioral Plasticity 1</b> Rasmusson 110	<b>Mating &amp; Breeding Systems 1</b> Rasmusson 101	<b>Parental Care</b> Lucy Cuddy Hall	<b>Social Behavior 5</b> Rasmusson 117
12:00 pm - 1:30 pm	Lunch Break				
1:30 pm - 4:00 pm	<b>Presidential Symposium - Social Networks (Pt. 2)</b> Wendy Williamson Auditorium	<b>Behavioral Plasticity 2</b> Rasmusson 110	<b>Mating &amp; Breeding Systems 2</b> Rasmusson 101	<b>Communication 5</b> Lucy Cuddy Hall	<b>Social Behavior 6</b> Rasmusson 117
4:00 pm - 4:30 pm	<b>Break</b> Cuddy Commons				
4:30 pm - 5:15 pm	<b>President's Keynote - Regina Macedo</b> Wendy Williamson Auditorium				
5:15 pm - 6:15 pm	<b>ABS Award Ceremony</b> Wendy Williamson Auditorium				
7:30 pm - 11:30 pm	<b>Closing Banquet</b> Alaska Native Heritage Center				

## Wendy Williamson Auditorium

8:00 am - 9:30 am

Welcome & Announcements  
Keynote - Bennett Galer

Social influences on food choice: behavior, neuroscience and molecular biology.

## Cuddy Commons

9:30 am - 10:00 am

Break

Time	Wendy Williamson Auditorium	Rasmusson 110	Rasmusson 101	Lucy Cuddy Hall	Rasmusson 117
10:00 am - 12:00 pm	<b>Marler Symposium (Pt. 1)</b> Moderator: Michael Beecher	<b>Applied Animal Behavior</b> Moderator: Elizabeth Freeman	<b>Cognition &amp; Learning 1</b> Moderator: Jessica Barker	<b>Predation &amp; Foraging 1</b> Moderator: Roxanne Beltran	<b>Social Behavior 1</b> Moderator: Noa Pinter-Volman
10:00	Bird Song Learning in the Laboratory and in Nature M. Beecher - <i>Departments of Psychology &amp; Biology, University of Washington</i>	Survey of Puppy Socialization Class Experiences J. Cutler, L. Nlei, J. Coe - <i>University of Guelph</i>	Jumping spider learning in relation to defensive wing displays of tephritid flies S. Aguilar-Arguello(1), C. Diaz-Castelazo(1), D. Rao(2) - (1) <i>Inecol, A.C., (2)Inbioteca, Univ Veracruzana</i>	Forgetting and the Value of Social Information B. Abis, A. Dunlap - <i>University of Missouri-St. Louis</i>	Latrine visits and fission-fusion dynamics in coastal Alaska river otters A. Barocas(1), H. Golden(2), M. Ben-David(1) - (1) <i>University of Wyoming, (2) Alaska Department of Fish and Game</i>
10:15	Seroprevalence of <i>Toxoplasma Gondii</i> and <i>Trichinella Spiralis</i> in Suburban New Jersey Black Bears. C. Flanley(1), J. Huffman(2), A. Aldras(2) - (1) <i>Univ of Notre Dame, (2)East Stroudsburg Univ</i>		Experimental evidence for integration of conformist and pay-off-based social learning strategies in wild birds L. Aplin - <i>University of Oxford</i>	The Value of Risk Allocation P. Bednekoff(1), S. Lima(2) - (1) <i>Eastern Michigan University, (2)Indiana State University</i>	Parasitism and sociality in a wild primate M. Charpentier, C. Poirotte - <i>CEFE-CNRS UMR 5175</i>
10:30	The Auditory Template Hypothesis: A Review and Comparative Perspective J. Soha - <i>Duke University</i>	Activity Patterns and Interactions of Socially-housed Red Pandas ( <i>Ailuurus fulgens</i> ) E. Freeman(1), K. Bilibrey(1), J. Ayala(2), L. Li(2), H. Rong(2), C. Aiken-Palmer(3) - (1) <i>George Mason University, (2)Chengdu Research Base of Giant Panda Breeding, (3) Smithsonian Conservation Biology Institute</i>	Affecting larceny: preferences experience for nectar robbing R. Barker(1), A. Domhaeus(1), F. Muth(1,2) - (1) <i>Department of Ecology and Evolutionary Biology, University of Arizona, (2)Department of Biology, University of Nevada</i>	Living deeper into the over-summer foraging behavior of a top polar predator, the Weddell seal R. Beltran(1), M. Sherol(1,2), A. Kirkham(1), J. Testa(1,3), J. Burns(1) - (1) <i>Department of Biological Sciences, University of Alaska, (2)School of Fisheries and Ocean Sciences, Univ of Alaska, (3) National Marine Mammal Laboratory, Alaska Fisheries Service, National Marine Fisheries Service, National Oceanic and Atmospheric Administration</i>	Social Biology & Habitat Preferences in Group-Living Rock-Dwelling Huntsman Spider <i>Delena lapidicola</i> L. Rayor(1), F. Van Den Berg(2), J. Hurs(1,3) - (1) <i>Cornell University, (2) University of Sydney, (3)U. California State-Fresno</i>
10:45	Overproduction and Attrition in Song Learning: Fates of Songs Memorized During the Sensitive Period S. Peters, S. Nowicki - <i>Duke University</i>	Young Belugas Enrich Adult Beluga Repertoires When Grouped Together H. Hill(1), S. Guarnio(1), S. Crandall(2), E. Lenhart(1), S. Dietrich(2) - (1) <i>St. Mary's Univ, (2)SeaWorld San Antonio, (3)CUNY-Buffalo</i>	Testing the predictions of coping styles theory in sticklebacks M. Bensch(1), R. Patz(1,2), L. Pereira(1), A. Bell(1) - (1) <i>University of Illinois Urbana-Champaign, (2)Illinois State University</i>	Seasonality of Mineral Preferences in Honey Bees R. Bonnan, T. Tai, M. Tagle, G. Burruss, B. Czaja, P. Starks - <i>Tufts University</i>	The role of individual behavior on information flow during collective decisions in a slave-making ant J. Miller - <i>Cornell University</i>
11:00	Effort to Access a Goal Indicates the Level of Preference for Such a Goal in the Fish Nile Tilapia C. Maia(1), P. Teleno(2), G. Volpato(1) - (1) <i>Laboratory of Animal Physiology and Behaviour, Department of Physiology, IBB, UNESP (2)Dept of Preventive Veterinary Medicine and Animal Health, FMVZ, USP</i>	Analysis of Videorecorded Behavior as an Aid in Diagnosing Performance or Behavior Changes of Horses J. Linton, S. McDonnell - <i>University of Pennsylvania</i>	The benefits of pair bonds extend to joint problem solving S. Benson-Amann(1), N. Boogert(2), T. Morgan(3), K. Laland(2) - (1) <i>University of Wyoming, (2)University of St. Andrews, (3) University of California at Berkeley</i>	The Head/Body Orientation of Predator Models and Response to Threat in Tufted Titmice D. Book, T. Freeberg - <i>University of Tennessee</i>	Bold and misinformed spider leaders impede collective learning and cripple colony success J. Pruitt(1), N. Pinter-Volman(2) - (1) <i>University of Pittsburgh, (2)University of California, San Diego</i>
11:15	Cultural Evolution of White-Crowned Sparrow Song D. Nelson - <i>Ohio State University</i>	Practical Applications of the Premack Principle for Animal Trainers K. Sdao - <i>Bright Spot Dog Training</i>	Smoke and mirrors: Assessing mirror recognition using the caching behaviours of Clark's nutcrackers D. Clary, D. Kelly - <i>University of Manitoba</i>	Females in Control: Female Sensitivity to Predation Risk Shapes Changes in Reproductive Behaviours T. Cheng, M. Clinchy, L. Zanette - <i>University of Western Ontario</i>	The influence of kinship and age-sex class on rock sharing in a new social huntsman spider C. Jones, L. Rayor - <i>Cornell University</i>
11:30	Effect of Housing Environment on The Performance of Mice in an Exploratory and a Contrast test A. Wichman, E. Spangenberg - <i>Swedish University of Agricultural Sciences</i>	Do female wolf spiders exhibit comparative mate evaluation based on multimodal signal quality? G. Uetz, B. Stoller - <i>Univ. of Cincinnati</i>	Competition reduction speeds development in cannibalistic potato beetles ( <i>Leptinotarsa decemlineata</i> ) K. Collier - <i>Malone University</i>	Are cockroaches rational decision-makers? Z. Shafir(1), T. Sasaki(2), S. Pratt(1) - (1) <i>Arizona State Univ, (2)University of Oxford</i>	
11:45	Developing A Practical Means of Reducing Stress in Animal Shelter Dogs R. Willent(1), A. Mutwill(2), L. Macdonald(3), P. Schmitt(1), M. Hermissy(1) - (1) <i>Wright State University, (2)University of Münster, (3)College of Wooster, (4)Wright State University, (5)Wright State University</i>	Effect of Housing Environment on The Performance of Mice in an Exploratory and a Contrast test A. Wichman, E. Spangenberg - <i>Swedish University of Agricultural Sciences</i>	Songbird risk-sensitive foraging in the context of snake predator body orientation W. Johnson, L. Cantwell, T. Freeberg - <i>University of Tennessee</i>	Nest Architecture Shapes the Collective Behavior of Harvesting Ants N. Pinter-Volman - <i>UCSD</i>	
12:00					



Time	Wendy Williamson Auditorium	Rasmusson 117	Rasmusson 101	Rasmusson 110	Lucy Cuddy Hall
1:30 pm - 3:30 pm	<b>Marler Symposium (Pt. 2)</b> Moderator: Michael Beecher	<b>Agonism</b> Moderator: Patrick Green	<b>Cognition &amp; Learning 2</b> Moderator: Beki Croston	<b>Ecological Effects 1</b> Moderator: Orr Spiegel	<b>Predation &amp; Foraging 2</b> Moderator: Peter Bednekoff
1:30	Peier Marler and the Adaptation of Avian Sounds to Function K. Yasukawa (1), W. Searcy (2) - (1)Beloit College, (2)University of Miami	Contest behavior between co-occurring cellar spider species L. Campbell (1), A. Rypstra (2) - (1)Miami University, (2)Miami University	Culturally-transmitted neophobia in a high-risk environment A. Crane, A. Mathron, M. Ferrari - University of Saskatchewan	Dose-dependent fluxotaxine effects on boldness behavior in male Siamese fighting fish, <i>Betta splendens</i> T. Dziewieczynski, B. Campbell, J. Kane - University of New England	Sea Otters use Tools in Response to Prey Morphology, Learning, and Individual Diet Specializations J. Fujii (1), K. Ralls (2), T. Tinker (3) - (1) Monterey Bay Aquarium, (2) Smithsonian Conservation Biology Institute, (3)U.S. Geological Survey
1:45		Behavioral sexual dimorphism of Yellowstone gray wolves during aggressive inter-pack interactions K. Cassidy (1), L. Mech (2), D. Stahler (1), D. MacNulty (3), D. Smith (1) - (1)Yellowstone Center for Resources, (2)U. S. Geological Survey, Northern Prairie Wildlife Research Center, (3)Department of Wildlife Research Resources, Utah State University	Using RFID technology to test for variation in spatial learning and memory in mountain chickadees. R. Croston (1), D. Kozlovsky (1), C. Branch (1), E. Brügge (2), V. Pravosudov (1) - (1)University of Nevada - Reno, (2) University of Oklahoma	Urban development and supplemental feeding may alter migratory behavior of a nectivore E. Greg, E. Wood, D. Bonter - Cornell Lab of Ornithology	Are resident birds avoiding competition with migrants? A. Guaraldo (1), J. Kelly (2), M. Marini (3) - (1)Universidade Federal do Paraná, (2) University of Oklahoma, (3)Universidade de Brasilia
2:00	Some Observations on the Auditory World of Birds R. Dooling - Univ. of Maryland	Little pocket mice: interspecific competition and coexistence in a rodent community R. Chock (1), D. Shier (1,2), G. Grether (1) - (1)University of California Los Angeles, (2) San Diego Zoo Global Institute for Conservation Research	Context Matters: How Stress Affects Fear Conditioning and Antipredator Strategy in Wood Frog Tadpoles B. Demuth (1), D. Chivers (1), M. Ferrari (2) - (1)Department of Biology, University of Saskatchewan, (2)Department of Biomedical Sciences, WCVI, University of Saskatchewan	Behavior and the invasion success of different clonal genotypes of the invasive New Zealand mud snail E. Levi (1), T. Clark (2) - (1)Penn State Altoona, (2)Ohio Wesleyan University	Risk-taking Behaviors in Zebra Finches Affected by Mercury Exposure M. Kobleja (1,2), D. Cristol (2), J. Swadlow (2) - (1)University of Minnesota, Twin Cities, (2)College of William & Mary
2:15		Personality and metabolism of hermit crabs as factors determining contest behavior in competition for shells. K. Garcia-Cabello (1), G. Alcaraz (1), A. Sih (2) - (1)Universidad Nacional Autónoma de México, Posgrado de Ciencias del Mar y Limnología, (2)University of California	Solvers and scroungers: innovative problem solving in wild Steller's Jays ( <i>Cyanocitta stelleri</i> ) D. Harvey, J. Black - Humboldt State University	Activity of Four Sympatric Neotropical Felids And Its Relation To Their Main Preys M. Nagy-Reis, C. Estevo, E. Setz - Universidade Estadual de Campinas (Unicamp)	Personality affects body composition in a cricket I. Krüms, T. Kraama - Daugavpils University
2:30	Testosterone Action in the Brain and Birdsong: Location, Location, Location G. Ball - University of Maryland	Dear Enemies or Nasty Neighbors: Seasonal responses to territorial intrusions in Northern Cardinals K. Gentry, J. Jawor - The University of Southern Mississippi	Brain size and memory of captured prey in the cellar spider <i>Pholcus phalangoides</i> (Araneae: Pholcidae) J. Kilmer, R. Rodriguez - University of Wisconsin - Milwaukee	When the going gets tough: personality-dependent space-use in the sleepy lizard changes as the season dries O. Spiegel (1), S. Leu (2), A. Sih (1), S. Godfrey (3), C. Bull (2) - (1)Department of Environmental Science and Policy, University of California, (2)School of Biological Sciences, Flinders University, (3) School of Veterinary and Life Sciences, Murdoch University	Suboptimal Limpet Foraging in a Patchy Environment D. LaScala-Gruenewald, M. Denny - Hopkins Marine Station of Stanford University
2:45		Contests with deadly weapons: telson sparring in mantis shrimp (Stomatopoda) P. Green, S. Patek - Duke University Biology	The relationship between urban environment, cognition and behavior in food-caching mountain chickadees D. Kozlovsky, E. Weissgerber, V. Pravosudov - University of Nevada, Reno	Response of rainbow darters to chemical alarm cues from sympatric and allopatric salamanders A. Mathis, K. Anderson - Missouri State University	Every minute counts: why micro-time matters in herbivore foraging decisions in response to food and fear C. McArthur, P. Banks - The University of Sydney
3:00	Regulation of Complex Transitions: Migration to Breeding. J. Wingfield, M. Ramenofsky - University of California	Even the losers: individual variation in aggression and consequences for territorial success in song sparrows M. Hughes (1), J. Scates (1), J. Hyman (2) - (1)College of Charleston, (2)Western Carolina University	Homing behavior in an arboreal tropical lizard M. Leal (1), B. Powell (2) - (1)University of Missouri, (2)Cornell University		
3:15		Hostile waters: assessing the effect of multiple abiotic variables on aggression in freshwater fish. L. Lopez, A. Davis, M. Wong - University of Wollongong	The effects of familiarity in shoaling fish: social dynamics, network structure, and social learning M. Hasenlagger, L. Dugatkin - University of Louisville		

## Cuddy Commons

Break

## Time

3:30 pm - 4:00 pm

Time	Wendy Williamson Auditorium	Rasmusson 101	Rasmusson 110	Lucy Cuddy Hall	Rasmusson 117
4:00 pm - 6:00 pm	<b>Marler Symposium (Pt. 3)</b> Moderator: Michael Beecher	<b>Cognition &amp; Learning 3</b> Moderator: Kevin McGraw	<b>Ecological Effects 2</b> Moderator: Nicholas Santangelo	<b>Predation &amp; Foraging 3</b> Moderator: Theodore Stankowich	<b>Social Behavior 2</b> Moderator: Andrew Fulmer
4:00	Evolution of Communication in Noise R. Wiley - <i>University of North Carolina</i>	Nutritional complexity of plant-pollinator interactions: Multiple perspectives on multiple rewards A. Leonard(1), J. Francis(1), F. Muth(1), P. Breslow(1), D. Papaj(2) - (1) <i>University of North Carolina</i> , (2) <i>Ecology and Evolutionary Biology, Univ of Arizona</i>	Neotropical Tinamous May Coexist by Differences in Habitat Preferences C. Estevo(1,2), M. Nagy-Reis(1,2), J. Nicolas(1), E. Setz(1) - (1) <i>Universidade Estadual de Campinas</i> , (2) <i>USGS Patuxent Wildlife Research Center</i>	Effects of the fluorescent powder on raptors' consumption of small rodents M. McPhee, E. Hász - <i>University of Wisconsin Oshkosh</i>	Novel uses of aggression in fruit flies: mate guarding, courtship interference and coercive mating R. Dukas, C. Baxler, R. Barnett - <i>McMaster University</i>
4:15		Map-like Spatial Memory during Place Learning by a Poison Frog Y. Liu(1), L. Day(2), K. Summers(3), S. Burmeister(1) - (1) <i>University of North Carolina</i> , (2) <i>University of Mississippi</i> , (3) <i>East Carolina University</i>	A one-size-fits-all approach to reproduction? Consistent reproductive strategies across elevations K. Labarbera, E. Lacey - <i>Museum of Vertebrate Zoology</i>	Weaponry vs. Wits: the evolution of antipredator defenses, brain size, and metabolism in mammals T. Stankowich, A. Romero - <i>California State University Long Beach</i>	The Few Who Dare: Social and developmental predictors of novelty seeking in Arabian Babblers A. Fulmer(1), P. Santema(2), M. Hauber(3) - (1) <i>Animal Behavior and Comparative Psychology, The Graduate Center, CUNY</i> , (2) <i>Max Planck Institute for Ornithology</i> , (3) <i>Department of Psychology, The Graduate Center, CUNY</i>
4:30	Referential Signaling in Birds: Past, Present and Future. C. Smith - <i>Macquarie University</i>	Cognition in the city: impacts of urbanization and human disturbance on problem solving K. McGraw, M. Cook, S. Arnold, M. Weaver - <i>Arizona State University</i>	Asian elephants acquire inaccessible food by blowing K. Mizuno(1,2), N. Irie(1), M. Hiraiwa-Hasegawa(1), N. Kutsukake(1) - (1) <i>School of Advanced Sciences, SOKENDAI (The Graduate Univ for Advanced Studies)</i> , (2) <i>Wildlife Research Center of Kyoto Univ</i> , <i>Graduate School of Science, Kyoto Univ</i>	Selective Generalists: Foraging Behaviors Contribute to the Structure of Intertidal Communities M. Tran(1), M. Laidre(2) - (1) <i>University of Cincinnati - Blue Ash</i> , (2) <i>Dartmouth College</i>	Kin discrimination in polyphenic salamander larvae: Inclusive fitness versus pathogen transmission S. Garza, B. Waldman - <i>Seoul National University</i>
4:45		<i>Heliconius</i> mimicry rings in a new light: Light environment and signaling B. Seymoure(1,3), E. Loew(2), W. McMillan(3), K. McGraw(1), R. Rutowski(1) - (1) <i>Arizona State University</i> , (2) <i>Cornell University</i> , (3) <i>Smithsonian Tropical Research Institute</i>	Group size and social cohesion as behavioral indicators among southern California cetaceans M. Smuttea(1,2), J. Packard(3), B. Würsig(1) - (1) <i>Marine Mammal Behavioral Ecology Group, Marine Biology Dept, Texas A&amp;M University at Galveston</i> , (2) <i>Smuttea Environmental Sciences</i> , (3) <i>Biodiversity Stewardship Lab, Wildlife &amp; Fisheries Sciences, Texas A&amp;M Univ</i>	Mechanisms underlying extreme sexual size dimorphism in the crab-spider <i>Mecaphesa celer</i> (Araneae: Thomisidae) M. Chelini, E. Hebets - <i>University of Nebraska - Lincoln</i>	Toward a General Theory of Social Structure A. Ilany, E. Akay - <i>Department of Biology, University of Pennsylvania</i>
5:00	The Future of Multimodal Communication: Will it allow animals to survive rapid environmental change? S. Partan - <i>Hampshire College</i>	A neuronal signature of individual variation in birdsong learning accuracy D. Moseley(1,2), N. Joshi(2), J. Podos(2), L. Remage-Healey(2) - (1) <i>William and Mary</i> , (2) <i>University of Massachusetts</i>	Specialization and simple sensory environments increase accuracy in host-searching butterflies M. Steck, E. Snell-Rood - <i>University of Minnesota</i>	Bacterial infection negates the influence keystone individuals exert on colonies' collective behavior C. Keiser, C. Wright, J. Pruitt - <i>University of Pittsburgh</i>	
5:15		Coping with multiple rewards: the dynamics of bee learning with both nectar and pollen F. Muth(1), D. Papaj(2), A. Leonard(1) - (1) <i>University of Nevada, Reno</i> , (2) <i>University of Arizona</i>	Responses of a native sunfish, native prey community & chlorophyll a to a non-native fish V. Trujillo(1), J. Rehager(1), J. Lee(1), D. Gandy(2) - (1) <i>Florida International University</i> , (2) <i>Florida Fish and Wildlife Conservation Commission</i>	Clonal Fish Differ in Social Competence due to Variation in Early Life Social Roles K. Laskowski, D. Bierbach, M. Wolf - <i>Leibniz Institute of Freshwater Ecology &amp; Inland Fisheries</i>	
5:30	Vocal communication in monkeys and apes. R. Seyfarth, D. Cheney - <i>University of Pennsylvania</i>	Targeted Spitting in the Beluga Whale ( <i>Delphinapterus leucas</i> ): Evidence of Cultural Transmission M. Noonan(1), C. Clemens(1), A. Ferrer(1), J. Hunter(2), L. Stevens(1), S. Webb(1), T. Wilson(2) - (1) <i>Canisius College</i> , (2) <i>MarineLand of Canada</i>	Female breeding experience affects parental care strategies of both parents in a monogamous cichlid fish. N. Santangelo - <i>Hofstra University</i>	Indirect effects in a cooperatively breeding cichlid: effects of relative size I. Ligocki, I. Hamilton - <i>The Ohio State University</i>	
5:45		Learning of Floral Preferences by Bees in the Absence of Nectar Rewards D. Papaj(1), R. Easter(1), A. Leonard(2), A. Russell(1) - (1) <i>Dept of Ecology and Evolutionary Biology, Univ of Arizona</i> , (2) <i>Department of Biology, Univ of Nevada</i>		Extreme Kin Recognition in a Clonal Fish A. Makowicz(1), R. Tiedemann(2), I. Schlupp(1) - (1) <i>University of Oklahoma</i> , (2) <i>University of Potsdam</i>	
6:00 pm - 8:00 pm		Dinner (on your own)		Varsity Sports Grill LGBTQ Networking Event	
6:30 pm - 9:30 pm			Wendy Williamson Auditorium Film Festival		
7:00 pm - 8:00 pm		Rasmusson Hall - Room 117 NSF: Myth Busting 101 Michelle Elekornich, NSF & Tamra Mendelson, NSF		8th Annual ABS 5K Fun Run Meet near the Wendy Williamson Auditorium	

FRIDAY, JUNE 12		FRIDAY, JUNE 21	
Wendy Williamson Auditorium		Wendy Williamson Auditorium	
Time	8:00 am - 9:15 am	The Behavior And Conservation Of Breeding Gray Whales In Laguna San Ignacio: A Forty Year Perspective Keynote - Steven Swartz	
Time	9:15 am - 9:30 am	Poster Previews	
Time	9:30 am - 10:00 am	Cuddy Commons	
Break			
Time	10:00 am - 12:00 pm	Wendy Williamson Auditorium	Rasmusson 101
10:00	Allee Symposium (Pt. 1) Moderator: William Searcy Species-specific responses of male widow spiders to sex pheromones are the exception, not the rule L. Baruffaldi - University of Toronto Scarborough	Northern Marine Mammals Symposium (Pt. 1) Moderator: Deborah Boege-Tobin Introduction D. Boege-Tobin - University of Alaska Anchorage - KPC - Kachemak Bay Campus Climate Change and Marine Mammal Health K. Burek Huntington - Alaska Veterinary Pathology Services	Social Behavior 3 Moderator: Allison Johnson Mechanisms and Consequences of Collective Navigation A. Berdahl(1), P. Westley(2), T. Quinn(3), I. Couzin(4), C. Tomney(5), S. Levin(6) - (1)Santa Fe Ins., (2)Univ of Alaska, Fairbanks, (3)Univ of Wash., (4) Max Planck Institut for Ornithology, (5) Univ of Exeter, (6)Princeton Univ
10:15		The Adaptive Significance of Microgeographic Dialects in a Lekking Hummingbird J. Kapoor - Cornell University	Ecological Knowledge, Leadership and the Evolution of Menopause in Killer Whales L. Brent(1), D. Franks(2), E. Foster(1), K. Balcomb(3), M. Cam(4), D. Croft(1) - (1)Centre for Research in Animal Behaviour, University of Exeter, (2) Univ of York, (3)Center for Whale Research, (4)Centre for Ecology and Conservation, Univ of Exeter
10:30	Life-history strategy and behavioral type: Risk-tolerance reflects growth rate and energy allocation S. Bengtson, A. Dornhaus - University of Arizona	Walrus Activity Budgets: Less Sea Ice Means Less Rest R. Taylor, C. Jay, A. Fischbach, M. Udevitz - U. S. Geological Survey, Alaska Science Center	Who Are the 'Lazy' Ants? Inter-worker Variation Gives Insight into the Function of Inactivity D. Charbonneau(1), A. Dornhaus(2) - (1)Graduate Interdisciplinary Program in Entomology and Insect Science, Dept of Entomology and Insect Science, Univ of Arizona, (2)Dept of Ecology and Evolutionary Biology, Univ of Arizona
10:45		Neighborhood watch: responses to territorial intrusions in neighboring great tits M. Naguib(1), K. van Oers(2), S. Lysanne(1,2) - (1)Wageningen Univ, Animal Sci Dept, Behavioural Ecology Group, (2)Netherlands Ins of Ecology (NIOO-KNAW), Animal Ecology Dept	Preserved Sociability in Environmentally Enriched Maternally Separated CD-1 Mice Reflects Enhanced Habituation C. Cornwell, J. Leblon, A. Acuna, C. Melton - Syracuse University
11:00	Male mating strategies vary with attractiveness and predict paternity in a promiscuous songbird J. Dowling - Cornell University	Acoustic adaptation in birds minimizes degradation at the cost of shorter transmission range. P. Rijk, K. Kwiatkowska - Adam Mickiewicz Univ	Do fight winners produce higher quality offspring? M. Loraniger, S. Bertram, M. Rieffer - Carleton Univ
11:15		Mountain chickadees from different clutches sing different songs C. Branch, V. Pravosudov - Univ of Nevada	Does Family Matter? Genetic Relatedness and Network Structure in the Spiny Tailed Iguana: Preliminary Results A. Nash - Univ of Northern Colorado
11:30	Spare the Pod, Spoil the Child: Fetal Abortions as a Life History Buffering Strategy in Steller Sea Lions J. Maniscalco - Alaska SeaLife Center	Frequency shift in oscine and suboscine songs due to airport noise R. Aquezard(1), R. Macsoo(1), D. Gill(2) - (1)Universidade de Brasilia, (2)Museo Nacional de Ciencias Naturales	Flash Mobs and Flash Expansion W. Romney, A. Lamb, A. Smith - State University of New York
11:45			Behavior as an attractor when choosing to cooperate R. Schuster - Hailu University



Time	Wendy Williamson Auditorium	Lucy Cuddy Hall	Rasmusson 110	Rasmusson 117
4:00 pm - 6:00 pm	<b>Allee Symposium (Pt. 3)</b> Moderator: William Searcy	<b>Northern Marine Mammals Symposium (Pt. 3)</b> Moderator: Deborah Boege-Tobin	<b>Communication 3</b> Moderator: Todd Freeberg	<b>Sexual Selection &amp; Conflict 3</b> Moderator: Jessica Yorzinski
4:00	Relationships between components of complex displays shift across environments and contexts M. Rosenhail, M. Wilkins, E. Heberts - <i>University of Nebraska-Lincoln</i>	Behavior Through Many Lenses: A Case Study with Liliamna Lake Harbor Seals J. Burns(1), D. Withrow(2), J. Van Lanen(3) - (1) <i>University of Alaska Anchorage</i> , (2) <i>National Marine Mammal Laboratory</i> , (3) <i>Alaska Department of Fish and Game</i>	Carolina chickadee behavioral responses to facial orientation of threatening stimuli T. Freeberg, D. Book, R. Weiner - <i>University of Tennessee</i>	Ecological selection against immigrants promotes asymmetrical sexual isolation in <i>Brachymyphus</i> fishes S. Ingley - <i>Brigham Young University</i>
4:15			When a Bird Goes Unheard: Assessing the Impact of Highway Noise on Heterospecific Information Transfer A. Grade - <i>University of Florida</i>	The effects of biogenic amines on male courtship levels of a wolf spider B. Stoffer, G. Uetz - <i>University of Cincinnati</i>
4:30	Dads matter: causes and consequences of plasticity in paternal care in threespine stickleback L. Stein - <i>University of Illinois Urbana-Champaign</i>	<b>A Model Partnership to Address a Conflict Between Fisherman and Sperm Whales in Alaska</b> J. Straley(1), A. Thode(2), V. O'Connell(3), L. Wild(3), R. Andrews(4), D. Falvey(5), L. Behnken(5), C. Lunford(6), J. Liddle(1), K. Green(7) - (1) <i>University of Alaska Southeast</i> , (2) <i>Scripps Institution of Oceanography</i> , (3) <i>Sitka Sound Science Center</i> , (4) <i>Alaska SeaLife Center and University of Alaska Fairbanks</i> , (5) <i>Alaska Longline Fishermen's Association</i> , (6) <i>NOAA Auke Bay Lab TSMRI</i> , (7)	Where to deposit a mark? The features of trees marked by giant panda ( <i>Ailuropoda melanoleuca</i> ) Z. Jiang(1), J. Zhu(1), X. Lu(2) - (1) <i>Institute of Zoology, Chinese Academy of Sciences</i> , (2) <i>South China Institute of Endangered Animals</i>	Does Practice Make Perfect? Understanding How Experience Relates to Courtship Display Performance C. Vanderbilt, E. DuVal - <i>Florida State University</i>
4:45			Assessing note-specific sound degradation in the chick-a-dee call A. Kanipadath, S. Peters, J. Lucas - <i>Purdue University</i>	Selective attention in peacocks during assessment of displaying rivals J. Yorzinski(1), G. Patricelli(2), M. Platt(3) - (1) <i>Purdue University</i> , (2) <i>UC Davis</i> , (3) <i>Duke University</i>
5:00	Multimodal signaling in the North American barn swallow: A phenotype network approach M. Wilkins(1), D. Shizuka(1), M. Joseph(2), J. Hubbard(2), R. Safran(2) - (1) <i>University of Nebraska-Lincoln</i> , (2) <i>University of Colorado</i>	<b>Northern sea otters (<i>Erythra luttis</i>) in Kachemak Bay, AK: recovery of a top predator in mixed-sediment habitat</b> A. Doroff(1), D. Boege-Tobin(2) - (1) <i>Kachemak Bay Research Reserve</i> , (2) <i>University of Alaska Anchorage-Kenai Peninsula College-Kachemak Bay Campus</i>	Whistling caterpillars mimic the alarm calls of birds. J. Lindsay, E. Greene - <i>University of Montana</i>	
5:15			The behavioral ecology of iridescent signals R. Rutowski, N. Lessios, B. Seymoure, K. Pegram - <i>Arizona State University</i>	
5:30		Long-Term Associations and Social Structure of Humpback Whales in Prince William Sound, Alaska O. von Ziegeler(1), S. Gill(1), B. Goodwin(1) - (1) <i>Eye of the Whale Research</i> , (2) <i>Eye of the Whale Research</i> , (3) <i>Eye of the Whale Research</i>	Multimodal signal integration results in unexpected patterns of female choice R. Taylor(1,2), K. Hunter(1), R. Page(2), K. Wilhite(1), K. Mitchell(1), M. Ryan(2,3) - (1) <i>Salisbury University</i> , (2) <i>Smithsonian Tropical Research Institute</i> , (3) <i>University of Texas</i>	
Time				
6:00 pm - 8:00 pm			Dinner (on your own)	
Time				
7:00 pm - 8:00 pm			Rasmusson 117	
			<b>NSF: The Future of Graduate Training</b> Michelle Elekovich, NSF & Tamra Mendelson, NSF	
Time				
8:00 pm - 10:00 pm			Lucy Cuddy Hall	
			Poster Session I	
Time				
9:30 pm - 12:00 am			Gorsuch Commons Lower Dining	
			Student Party	

Wendy Williamson Auditorium	
Time	Insights into plasticity and individual differences in behavior from stickleback genomic data
8:00 am - 9:15 am	Keynote - Alison Bell
Wendy Williamson Auditorium	
Time	Poster Previews
9:15 am - 9:30 am	
Cuddy Commons	
Time	Break
9:30 am - 10:00 am	
Wendy Williamson Auditorium	
Time	ABS General Meeting & Raffle
10:00 am - 11:00 am	
Lucy Cuddy Hall	
Time	Rasmusson 101
11:00 am - 12:00 pm	Behavior, Genetics & Evolution 1 Moderator: Vladimir Dinets
11:00	Molecular and Behavioral Correlates of Premating Isolation in <i>Mus</i> P. Campbell, H. Martin, A. Secondi - Oklahoma State University
11:15	What is an individual? R. Gorelick - Carleton University
11:30	Information Use Exhibits Tradeoffs with Fecundity in the Butterfly <i>Pieris rapae</i> S. Jaumann, E. Snell-Rood - University of Minnesota
11:45	Recording and Analyzing Complex Sequences of Animal Behavior: GriffinVC, Video Coding Software S. Singh(1), S. Ragir(1,2) - (1)Hunter College, (2)College of Staten Island
Wendy Williamson Auditorium	
Time	Rasmusson 117
11:00 am - 12:00 pm	Conservation 1 Moderator: Wenjing Xu
11:00	How temperament influences translocation of California ground squirrels ( <i>Otospermophilus beecheyi</i> ) J. Montagne(1), D. Shier(1), R. Swalsgood(1), D. Deuschman(2), R. Clark(2) - (1)San Diego Zoo Global, (2)San Diego State University
11:15	Effect of scent placement on translocation success T. Wang, D. Shier - San Diego Zoo Institute for Conservation Research
11:30	Compounded effects of environmental degradation and competition in a spring endemic mosquitofish C. Blake, C. Gabor - Texas State University
11:45	Wildlife Behavior in the Virtual Classroom D. Paoletti - Oregon State University
Rasmusson 110	
11:00 am - 12:00 pm	Neuro/endocrine & Physiological Mechanisms 1 Moderator: Megan Gall
11:00	Socially induced plasticity of green treerog auditory processing M. Gall(1), W. Wilczynski(2) - (1)Yassar College, (2)Georgia State University
11:15	Serotonergic mediation of aggression and dominance in a sex role-reversed species S. Jones, R. Burnett, S. Watts, K. Holekamp - Michigan State University
11:30	The heritable basis of cortical volume in side-blotched lizards ( <i>Uta stansburiana</i> ) L. Labage(1), T. Roth(2), B. Sinevo(3), V. Pravosudov(4) - (1)Penn State Altoona, (2)Franklin & Marshall College, (3)University of California - Santa Cruz, (4)University of Nevada, Reno
11:45	Nonapeptide regulation of social behavior across guppy populations S. Reader(1,2), W. Swaney(1,2,3) - (1)McGill University, (2)Ulrecht University, (3)Liverpool John Moores University
AAC-Dining Area	
Time	Education Committee Meeting
12:00 pm - 1:30 pm	We welcome anyone interested to join us during the lunch break for a discussion on Education Committee topics.
AAC-Reserved Dining Area	
Time	Public Affairs Committee Meeting
12:00 pm - 1:30 pm	Lunch Break

Time	Wendy Williamson Auditorium	Lucy Cuddy Hall	Rasmusson 101	Rasmusson 117	Rasmusson 110
1:30 pm - 3:30 pm	<p><b>Frontiers Symposium (Pt. 2)</b> Moderator: Dustin Rubenstein</p> <p>Outsmarting rapid habitat loss: the role of memory and critical periods in navigating changing landscapes T. Rohlf(1), A. Krochmal(2) - (1)Franklin and Marshall College, (2)Washington College</p>	<p><b>It's About Time Symposium (Pt. 2)</b> Moderator: Andy Dossman</p> <p>Age-dependent declines in plasticity as the 'default option' for behavioral development J. Stamps(1), V. Krishnan(2) - (1)Univ Calif, Davis, (2)San Francisco State University</p>	<p><b>Behavior, Genetics &amp; Evolution 2</b> Moderator: Susan Foster</p> <p>Fitness Effects of Boldness Tradeoff across Life Stages in a Free-ranging Largemouth Bass Population N. Ballew(1,2), G. Mittelbach(1) - (1)Michigan State University, (2)NOAA NMFS</p> <p>The effects of short telomeres on reproductive investment in Tree swallows A. Belmaker(1), R. Glynn(2), M. Haussmann(2), D. Winkler(1) - (1)Dept. Of Ecology and Evolutionary Biology, Cornell University, (2)Dept. of Biology, Bucknell University</p> <p>The evolutionary implications of behavioral syndromes: plasticity versus historical selection N. Dochtermann, Department of Biological Sciences North Dakota State University</p> <p>On the move: How food, genes, and the environment affect dispersal A. Edelsparre(1), M. Rodriguez(2), M. Sokolowski(2), M. Fitzpatrick(1) - (1)University of Toronto Scarborough, (2)University of Quebec a Trois-Rivières, (3)University of Toronto</p>	<p><b>Conservation 2</b> Moderator: Brooke Vetter</p> <p>Functional Connectivity for Elephant Movement in Kruger National Park: An Application of Graph Theory W. Xu(1), M. Madden(1), R. Fayer-Hosken(2), A. Presotto(1) - (1)University of Georgia, (2)San Diego Zoo</p> <p>Effect of glyphosate in locomotion and feeding behavior in fish (<i>Piaractus mesopotamicus</i>) P. Giacinto, M. De Sa, V. Sugihara, H. Delcio - State University of Sao Paulo</p> <p>Behavioral changes in bumble bees (<i>Bombus impatiens</i>) due to a solitary bee invader (<i>Athidium manicatum</i>) K. Graham(1), V. Foyde-Tuckett(1,2), P. Starks(1) - (1)Tufts University, (2)Oakwood University</p> <p>Sociality Increases Juvenile Survival Following a Catastrophic Event in the Feral Horse (<i>Equus caballus</i>) J. Nuñez(1), J. Adelman(1), J. D. Rubenstein(2) - (1)Iowa State University, (2)Princeton University</p> <p>Does methylmercury exposure impact song learning or song production in the zebra finch? N. Goodall(1), D. Cristol(2), C. Ramos(1), N. Goodall(1), D. Cristol(2), J. Swadlow(2) - (1)Colorado State University - Pueblo, (2)College of William and Mary</p> <p>Utilizing NASA Earth Observations to Enhance the Conservation of the Cotton-top tamarin C. Remillard(1), M. Amin(1), H. Essig(1), P. Hawman(1), M. Madden(1), R. Guillen(2), A. Savage(2,3) - (1)The University of Georgia, (2)Proyecto Tití, (3)Disney's Animal Kingdom</p>	<p><b>Neuroendocrine &amp; Physiological Mechanisms 2</b> Moderator: Katherine Crocker</p> <p>Environmental Causes and Transgenerational Consequences of Variable Hormone Deposition in Insect Eggs K. Crocker, M. Hunter, E. Tibbetts - University of Michigan</p> <p>Meerkat manners: rank-related behavioral endocrinology in a female-dominant mammal C. Davies(1,2), L. Greene(1,2), C. Drea(1,2) - (1)Duke University, (2)Kalahari Research Trust</p> <p>Yawning Hipspos: Evidence for the Brain-Cooling Hypothesis B. Hart, L. Hart, K. Snyder - University of California, Davis</p> <p>Yawning in Elephants: A Previously Unreported Behavior L. Hart, B. Greco, J. Gates, B. Hart - University of California, Davis</p> <p>Early-life IGF-1 concentrations predict boldness in spotted hyenas N. Lewin(1), K. Shaw Yoshida(2), K. Holekamp(1) - (1)Michigan State University, (2)Las Vegas Natural History Museum</p> <p>A Gibbon of a Different Color: Causes &amp; Consequences of Color Change in Female White-Cheeked Gibbons S. Margulis - Carisus College</p> <p>Hormonal suppression of male white-cheeked gibbons (<i>Nomascus leucogenys</i>) K. Trumpp, S. Margulis - Carisus College</p>
1:45					
2:00	<p>Social monogamy: the role of genes, brains, and the environment L. McGraw - North Carolina State University</p>	<p>Back in the day: The impact of developmental experiences on consistent individual differences in context C. Schell(1), J. Young(2), R. Santymire(1,3), J. Mate(1) - (1)University of Chicago, (2)Prairie Research Facility/Utah State University, (3)Lincoln Park Zoo</p>			
2:15					
2:30	<p><b>Energy Balance Shapes DNA Methylation Levels in Wild Baboons</b> J. Tung(1,2), A. Lee(1), J. Altmann(2,3), S. Alberts(1,2) - (1)Duke University, (2)Institute of Primate Research, (3)Princeton University</p>	<p>Explaining variation in mating related behaviors: the importance of modeling temporal fluctuation. E. Montiglio(1), T. Wiley(1,2), A. Chang(1), S. Fogarty(1), A. Shi(1) - (1)University of California at Davis, (2)New Mexico State University</p>	<p><b>Behavioral and Ecological Mechanisms Regulating Gene Flow: An Example in a Migratory Bird</b> C. Ely, R.ilson, S. Talbot - U.S. Geological Survey</p> <p>Regional differentiation of behavioral phenotypes in an adaptive radiation: S. Foster - Clark University</p>		
2:45					
3:00	<p>Integrative studies of cichlid vision and visual communication K. Carleton - University of Maryland</p>	<p>Temporal dynamics of aggressive target choice provide insight into social cognition E. Hobson - National Institute for Mathematical and Biological Synthesis</p>	<p>The effects of within group and within colony traits on parentage loss in a cooperatively breeding fish J. Hellmann(1), I. Ligocki(1), C. O'Connor(2), A. Reddon(3), K. Garry(4), S. Marsh-Rollo(2), H. Gibbs(1), S. Balshine(2), I. Hamilton(1,5) - (1)Department of Evolution, Ecology, and Organismal Biology, The Ohio State University, (2)Department of Psychology, Neuroscience and Behaviour, McMaster University, (3)Department of Biology, McGill University, (4)Department of Environmental Science &amp; Policy, Duke University, (5)Department of Mathematics, The Ohio State University</p>		
3:15					
3:30 pm - 4:00 pm					

Cuddy Commons

Break

Time	Wendy Williamson Auditorium	Lucy Cuddy Hall	Rasmusson 101	Rasmusson 110	Rasmusson 117
4:00 pm - 6:00 pm	<b>Frontiers Symposium (Pt. 3)</b> Moderator: Dustin Rubenstein	<b>It's About Time Symposium (Pt. 3)</b> Moderator: Andy Dossman	<b>Behavior, Genetics &amp; Evolution 3</b> Moderator: Emille C. Snell-Rood	<b>Cognition &amp; Learning 4</b> Moderator: Johannes Schul	<b>Communication 4</b> Moderator: Timothy F. Wright
4:00	Deep Homology in the Neuromolecular Mechanisms Underlying Vertebrate Social Behavior H. Hörmann - <i>University of Texas</i>	Dynamical Systems and Emotional Interaction T. Brick - <i>Pennsylvania State University</i>	Divergent anthropogenic landscapes alter mitochondrial genetic structure of a prolific primate. A. Kiegan(1), R. Meier(2), C. Riley(3), J. Narayanan(4), M. Gument(5), L. Jones-Engel(6), A. Fuentes(1), H. Holocher(1) - (1) <i>University of Notre Dame</i> , (2) <i>National University of Singapore</i> , (3) <i>Washington University</i> , (4) <i>National Parks Board</i> , (5) <i>Nanyang Technological University</i> , (6) <i>University of Washington National Primate Research Center</i>	Adult ground squirrels know best: responses of curious young and risk-averse adults to predator cues J. Smith, K. Newcomb, C. Carmilino, L. Radanovich, C. Randt, S. Hamilton - <i>Biology Department, Mills College</i>	Intermediate levels of environmental certainty favor complex signal use by receivers. T. Rubi, D. Stephens - <i>University of Minnesota</i>
4:15			Association of OPRM gene polymorphisms with inattention and social behaviour in dogs E. Kubinyi(1), M. Bence(1), Z. Ronai(2), M. Sasvan-Szekely(2), A. Miklosi(1,2) - (1) <i>MTA-ELTE Comparative Ethology Research Group</i> , (2) <i>Department of Medical Chemistry, Molecular Biology and Pathobiochemistry, Semmelweis University</i> , (3) <i>Department of Ethology, Eötvös Loránd University</i>	Costs and benefits of multimodal signaling in environmental complexity R. Page(1), R. Taylor(1,2), M. Ryan(1,3), W. Halliwell(1,4) - (1) <i>Smithsonian Tropical Research Institute</i> , (2) <i>Salisbury University</i> , (3) <i>University of Texas at Austin</i> , (4) <i>Leiden University</i>	How do duet-disrupting male signals inhibit female replies in an acoustically duetting treehopper? M. Fletcher - <i>University of Missouri</i>
4:30	Discussion	Discussion	The Genetic Basis of Nesting Behavior in Wild Mice ( <i>Genus Peromyscus</i> ) C. Lewarch, A. Bendesky, M. Noriega, H. Hoekstra - <i>Harvard University</i>	Do African elephants ( <i>Loxodonta africana</i> ) use a route-based navigation system? A. Presotto(1), A. Remillard(1), C. Remillard(1), M. Madden(1), R. Fayrer-Hosken(2) - (1) <i>The University of Georgia</i> , (2) <i>San Diego Zoo</i>	Inhibitory interactions between behavioral responses may maintain multimodal territorial signals E. Martins(1), A. Ossip-Klein(1), C. Vital Garcia(2), J. Zufiga-Vega(3), S. Campos(1), D. Hews(4) - (1) <i>Indiana University</i> , (2) <i>Universidad Autónoma de Ciudad Juárez</i> , (3) <i>Universidad Nacional Autónoma de México</i> , (4) <i>Indiana State University</i>
4:45			The genetic basis of social interactions regulating ant caste T. Linksvayer - <i>University of Pennsylvania</i>	The shake, rattle, and role of experience in pollen foraging by bees A. Russell(1), A. Leonard(2), D. Papaj(1) - (1) <i>University of Arizona</i> , (2) <i>University of Nevada</i>	Song Overlapping: Distinguishing Between Intention and Chance C. Masco(1), D. Menhill(2), S. Pruet-Jones(1) - (1) <i>University of Chicago</i> , (2) <i>University of Windsor</i>
5:00			Genes that learn: parallels between learning and gene expression as mechanisms of plasticity E. Snell-Rood, K. Sikkink, M. Kobiela - <i>University of Minnesota</i>	Branch drags selectively signal travel direction in free-ranging bonobo I. Schamberg - <i>University of Pennsylvania</i>	Unique Mechanism of Acoustic Synchrony in <i>Neocoenophthalmus ensiger</i> M. Murphy, N. Thompson, J. Schul - <i>University of Missouri</i>
5:15			Dominance rank alters social behavior and gene regulation in female rhesus macaques. N. Snyder-Mackler(1), J. Kohn(2), L. Barreiro(3), Z. Johnson(2), M. Wilson(2), J. Tung(1,4,5) - (1) <i>Department of Evolutionary Anthropology, Duke University</i> , (2) <i>Yerkes National Primate Research Center, Emory University</i> , (3) <i>Department of Pediatrics, University of Montreal</i> , (4) <i>Department of Biology, Duke University</i> , (5) <i>Duke Population Research Institute</i>	Response properties of auditory interneurons: species specific encoding or release of selection? J. Schul - <i>University of Missouri</i>	Comparative bioacoustics and the potential for acoustic communication in wolf spiders A. Sweeger, G. Uetz - <i>University of Cincinnati</i>
5:30			Mate Preference Genomics in <i>Heliconius</i> Butterflies E. Westerman, M. Kronforst - <i>University of Chicago</i>	Chivalrous birds? Male zebra finches avoid competing for their mate's food C. Templeton(1), K. Philip(1), K. Laland(1), S. Benson-Amram(2) - (1) <i>University of St Andrews</i> , (2) <i>University of Wyoming</i>	The role of the gene <i>FoxP2</i> in rapid vocal limitation by budgerigars T. Wright(1), E. Harak(1,2), A. Young(1,3), C. Dahlin(1,4), O. Whitney(1), E. Lucero(1,5), B. Tait(6), P. Duarte-Hash(1), B. Cordier(1) - (1) <i>New Mexico State University</i> , (2) <i>HHMI Janelia Farm</i> , (3) <i>Otterbein University</i> , (4) <i>University of Pittsburgh at Johnstown</i> , (5) <i>University of Denver-Anschutz Medical Center</i> , (6) <i>Landmark Acoustics</i>
5:45			Investigating divergence in learned predator recognition in threespine stickleback fish M. Wund(1), P. Mitchell(1), A. Bell(2) - (1) <i>The College of New Jersey</i> , (2) <i>The University of Illinois, Urbana-Champaign</i>		



Time	Gorsuch Commons 106	
6:00 pm - 8:00 pm	NSF Meeting Andy Dosmann	Dinner (on your own)
Time	Lucy Cuddy Hall	
8:00 pm - 10:00 pm		Poster Session II
Time	Gorsuch Commons Lower Dining	
9:30 pm - 12:00 am	Latin-American Pachanga	This is a ticketed event. Tickets available at door.

Wendy Williamson Auditorium	
Keynote - Susan Alberts Advantage and Adversity: the influence of social environments on fitness in social mammals	
Cuddy Commons	
Break	
Wendy Williamson Auditorium	
Time	Topic
8:00 am - 9:30 am	Wendy Williamson Auditorium Keynote - Susan Alberts Advantage and Adversity: the influence of social environments on fitness in social mammals
9:30 am - 10:00 am	Break
Wendy Williamson Auditorium	
Time	Topic
10:00 am - 12:00 pm	Rasmussen 101 Mating & Breeding Systems 1 Moderator: Derrick Thrasher Does size matter? Effect of variable male size on mate searching in western black widow spiders S. Fry, M. Andrade - University of Toronto Scarborough Mature-Male Searching Behaviors and Activity Patterns of an Arboreal Puerto Rican Tarantula ( <i>Avicularia laeta</i> ) J. Hill, C. Shillington - Eastern Michigan University Does male philopatry preclude the possibility for kin selection in a lekking cricket? K. Keane, P. Hill, W. Booth - University of Tulsa Does mate familiarity speed-up pair formation in the wild? O. Sanchez-Macouzet, H. Drummond - Universidad Nacional Autonoma de México
10:00	Behavioral Plasticity 1 Moderator: Kasey Fowler-Finn Plasticity in the agonistic behaviour of male California sea lions, <i>Zalophus californianus</i> J. Bohórquez-Herrera(1,2), C. Hernández-Camacho(2), D. Aurioles-Gamba(2) - (1) Universidad Santo Tomás, (2) Laboratorio de Ecología de Pinnípedos Social plasticity in treehoppers: sex-, density-, and neighborhood-dependent expression of sexual traits K. Fowler-Finn(1,2), D. Cruz(2), R. Rodriguez(2) - (1) Saint Louis University, (2) University of Wisconsin-Milwaukee
10:15	Presidential Symposium - Social Networks (Pt. 1) Moderator: Daniel Rubenstein Social Networks of Horses, Zebras and Asses: Beyond Structure to Function D. Rubenstein - Princeton University
10:30	Rasmussen 110 Behavioral Plasticity 1 Moderator: Kasey Fowler-Finn Plasticity in the agonistic behaviour of male California sea lions, <i>Zalophus californianus</i> J. Bohórquez-Herrera(1,2), C. Hernández-Camacho(2), D. Aurioles-Gamba(2) - (1) Universidad Santo Tomás, (2) Laboratorio de Ecología de Pinnípedos Social plasticity in treehoppers: sex-, density-, and neighborhood-dependent expression of sexual traits K. Fowler-Finn(1,2), D. Cruz(2), R. Rodriguez(2) - (1) Saint Louis University, (2) University of Wisconsin-Milwaukee Personality and plasticity in the field: neophobia and habituation in free-living house sparrows R. Fox - Transylvania University Human disturbance and social status shape personality in wild spotted hyena juveniles J. Greenberg, K. Holekamp - Michigan State University
10:45	Social networks and marmot ecology: linking social structure to reproduction and dispersal T. Wey(1), D. Bumstein(2) - (1) Las Cruces, NM, (2) University of California - Los Angeles
11:00	Rasmussen 111 Parental Care Moderator: Liliana D'Alba Species differences in variance and consistency of parental care in burying beetles K. Benowitz, E. McKinney, A. Moore - Department of Genetics, University of Georgia Social and personal immunity in adult and larval burying beetles C. Creighton(1), A. Riley(1), M. Belk(2) - (1) Purdue University Calumet, (2) Brigham Young University
11:15	Rasmussen 112 Social Behavior 5 Moderator: Tatiana Paz Conspecific attraction in anuran amphibians V. Buxton(1), M. Ward(1,2), J. Sperry(1,3) - (1) University of Illinois, (2) Illinois Natural History Survey, (3) Engineer Research and Development Center Using information for efficient foraging T. Flanagan(1), M. Moses(1) - (1) University of New Mexico, (2) University of New Mexico
11:30	Rasmussen 113 Social Information and Social Learning in Fluctuating Environments V. Heinen, D. Stephens - University of Minnesota Birth seasonality and calf survival in Shark Bay bottlenose dolphins ( <i>Tursiops aduncus</i> ) M. Wallen(1), E. Krzyszycki(1), J. Mann(1,2) - (1) Department of Biology, Georgetown University, (2) Department of Psychology, Georgetown University Love is in the air: Influence of mating behavior on avian pairmates' odor-producing microbes D. Whittaker(1), K. Theis(2) - (1) Michigan State University, (2) University of Michigan Competition, Not Cooperation, Among Male Dusky Dolphins ( <i>Lagenorhynchus obscurus</i> ) for Access to Mates D. Olbach(1), G. Ross(1,2), B. Würsig(1) - (1) Texas A&M University at Galveston, (2) Texas A&M University
11:45	Rasmussen 114 Social Behavior 5 Moderator: Tatiana Paz Conspecific attraction in anuran amphibians V. Buxton(1), M. Ward(1,2), J. Sperry(1,3) - (1) University of Illinois, (2) Illinois Natural History Survey, (3) Engineer Research and Development Center Using information for efficient foraging T. Flanagan(1), M. Moses(1) - (1) University of New Mexico, (2) University of New Mexico
12:00 pm - 1:30 pm	Lunch Break

Time	Wendy Williamson Auditorium	Rasmusson 110	Lucy Cuddy Hall	Rasmusson 101	Rasmusson 117
1:30 pm - 3:30 pm	<b>Presidential Symposium - Social Networks (Pt. 2)</b> Moderator: Dantiel Rubenstein	<b>Behavioral Plasticity 2</b> Moderator: Blair Costelloe	<b>Communication 5</b> Moderator: Matt Shawkey	<b>Mating &amp; Breeding Systems 2</b> Moderator: David White	<b>Social Behavior 6</b> Moderator: Caitlin Stern
1:30	Animals as Mobile Social Users: Computational Analysis of Dynamic Social Networks T. Berger-Wolf - <i>University of Illinois at Chicago</i>	Rapidly Changing Environments Alter A Decentralized Thermoregulatory Fanning Response in Honeybee Groups C. Cook, R. Kaspar, M. Breed - <i>Department of Ecology and Evolutionary Biology, University of Colorado, Boulder</i>	Does Color Indicate Body Condition in A Nocturnal Frog? G. Alvares, R. Macedo - <i>Universidade de Brasilia</i>	One old parent plus one young parent is best for the blue-footed booby H. Drummond, C. Rodriguez, A. Ramos - <i>Universidad Nacional Autonoma de Mexico</i>	Maternal social status and offspring behavioral ontogeny in the meerkat ( <i>Suricata suricatta</i> ) D. Blondel, L. Greene, C. Drea - <i>Duke University</i>
1:45		Birth site selection decisions in ungulates: possible drivers and potential consequences B. Costelloe - <i>Princeton University</i>	Polarization Signaling: How fish hide and dynamically communicate with polarized light M. Cummings, G. Calabrese, P. Brady - <i>University of Texas</i>	Female Calling Behavior and possible sex-role reversal in the Bornean frog <i>Limnonectes palawanensis</i> . J. Goyes-Vallajos - <i>Ecology and Evolutionary Biology Department, University of Connecticut</i>	Social huntsman spiders have an extra non-feeding developmental stage lacking in non-social relatives M. Cardillo, L. Rayor - <i>Cornell University</i>
2:00	Beanbag algorithms, weighted social networks and social architecture D. McDonald - <i>University of Wyoming</i>	Comparison of behavior and metabolic rates in two species of salamanders B. Dalton, T. Reeder, R. Botrosky, A. Mathis - <i>Missouri State University</i>	Why Do Single Species Use Multiple Play Signals? Social Play in Rhesus Monkeys ( <i>Macaca mulatta</i> ) A. Yanagi(1, 2), C. Berman(2, 3) - (1)Chimp Haven, Inc., (2)Department of Anthropology, SUNY at Buffalo, (3)Graduate Program in Evolution, Ecology and Behavior, SUNY at Buffalo	Why cooperate when others go it alone? Costs & benefits of cooperation for males in display coalitions M. Jones - <i>Florida State University</i>	A Bayesian approach to social structure uncovers cryptic regulation of group dynamics in <i>Drosophila</i> B. Foley(1), J. Saltz(2), S. Nuzhdin(1), P. Marjoram(3) - (1)USC, MCB, (2)BioSciences, Rice University, (3)USC, Keck
2:15		Developmental plasticity in gene expression and behavior in a turbid environment S. Ehlman(1), B. Sandkam(2), F. Breden(2), A. Sih(1) - (1)University of California, Davis, (2)Simon Fraser University	Rapid color change in chameleons communicates information about motivation, aggression, and bite force R. Ligon, K. McGraw - <i>Arizona State University</i>	Temporal variation produces individual personality and -syndromes N. Docterhmann - <i>Department of Biological Sciences North Dakota State University</i>	Similar frequency dependent selection on animal personalities in three social spider species J. Lichtenstein, J. Pruitt - <i>University of Pittsburgh</i>
2:30	Who watches whom? Quantifying information transmission across avian social networks D. Faine(1,2,3) - (1)Edward Grey Institute of Field Ornithology, Department of Zoology, University of Oxford, (2)Department of Anthropology, University of California Davis, (3)Smithsonian Tropical Research Institute	Fear responses in calves show poor consistency in repeated testing R. Meagher, D. Atkinson, M. von Keyserlingk, J. Costa, D. Weary - <i>Animal Welfare Program, University of British Columbia</i>	Asymmetric gene flow in subsocial flycatchers (genus <i>Empidonax</i> ) A. Rush(1), A. McCallum(2), J. Kelly(3), M. MacManes(4), J. Killeka(5), R. Bowie(1) - (1)Museum of Vertebrate Zoology, University of California, (2)College of Charleston, (3)University of Wyoming, (4)University of New Hampshire, (5)Burke Museum, University of Washington	Capturing Narrative Behavior Descriptions in the Arachnolingua Database P. Mildford	Hidden in Pairs, Revealed in Shoals: Indirect effects of cadmium on zebrafish group behavior D. Shelton(1,2,3), Z. Austin(3), A. Khemka(1,3), E. Martins(1,3) - (1)Department of Biology, (2)Psychological and Brain Sciences, (3)Center for the Integrative Study of Animal Behavior
2:45		Metabolic rate tied to syndromes in a sit-and-wait predator M. Mowery, A. Mason, M. Andrade - <i>University of Toronto Scarborough</i>	How does white color vary in birds? M. Shawkey, B. Igit, L. D'Alba - <i>University of Akron</i>	Male Sage-Grouse Courting a Robotic High-Value Partner A. Perry, A. Krakauer, R. McElreath, G. Patricelli - <i>University of California, Davis</i>	Dominance hierarchies as networks: a search for universal patterns and processes of social organization D. Shizuka(1), D. McDonald(2) - (1)University of Nebraska-Lincoln, (2)University of Wyoming
3:00	Are they friends or neighbors? Teasing apart social preference and space-use constraints in social networks O. Spiegel(1), A. Sih(1), S. Leu(2), S. Godfrey(3), C. Bull(2) - (1)Department of Environmental Science and Policy, University of California, (2)School of Biological Sciences, Flinders University, (3)School of Veterinary and Life Sciences, Murdoch University	Weddell seal overwinter dive behavior in the Ross Sea: Do foraging efforts increase to support gestation? M. Shero(1,2), K. Goetz(3,4), D. Costa(3), J. Burns(1) - (1)University of Alaska Anchorage, (2)University of Alaska Fairbanks, (3)University of California Santa Cruz, (4)The National Institute of Water and Atmospheric Research	Effects of Long Term and Short Term Exposure to a Complex Habitat on Anxiety in Zebrafish M. Singer, M. Bromley, B. Robison - <i>University of Idaho</i>	A first look at using genetics to quantify reproductive success and skew in male sea otters M. Tarjan(1), M. Tinker(1,2), H. Ernest(3) - (1)University of California Santa Cruz, (2)United States Geological Survey - Western Ecological Research Center, (3)University of Wyoming	The influence of age-dependent extra-pair paternity success on the fitness consequences of helping behavior C. Stern(1), J. Dickinson(2,3) - (1)Santa Fe Institute, (2)Cornell Lab of Ornithology, (3)Department of Natural Resources, Cornell University
3:15		Effects of Long Term and Short Term Exposure to a Complex Habitat on Anxiety in Zebrafish M. Singer, M. Bromley, B. Robison - <i>University of Idaho</i>	Partner compatibility influences song preferences, reproductive success, and divorce in cowbirds. D. White - <i>Wilfrid Laurier University</i>	Partner compatibility influences song preferences, reproductive success, and divorce in cowbirds. D. White - <i>Wilfrid Laurier University</i>	Effects of Early Social Bonds on Adult Fitness in Free-living Spotted Hyenas ( <i>Crocuta crocuta</i> ) J. Turner, K. Holekamp - <i>Michigan State University</i>
3:30		Personalities, movement ecology, social networks & parasites: a framework and data from Down Under A. Sih(1), O. Spiegel(1), S. Godfrey(2), S. Leu(3), C. Bull(3) - (1)University of California, (2)Murdoch University, (3)Flinders University			
4:00					

Time	Cuddy Commons
4:00 pm - 4:30 pm	Break
Time	Wendy Williamson Auditorium
4:30 pm - 5:15 pm	<p><b>President's Keynote - Regina Macedo</b>  <b>Animal behavior: time travel through science</b>  <i>R. Macedo - Universidade de Brasilia</i></p>
Time	Wendy Williamson Auditorium
5:15 pm - 6:15 pm	<p><b>ABS Award Ceremony</b></p>
Time	Alaska Native Heritage Center
7:30 pm - 11:30 pm	<p><b>Closing Banquet</b>  This is a ticketed event. Shuttle busses to and from the event will be provided.</p>

# POSTER SESSION I

FRIDAY, JUNE 12 (8:00 PM - 10:00 PM)

P1 Agonism	Competition Behaviors of Male Cellar Spiders in the Web of a Female (Genesis Competition) K. Gray(1), L. Campbell(2), A. Rypstra(1) - (1)Miami University, (2)Miami University
P3 Agonism	The Effect of Kinship Affiliation on Female Rank Acquisition Among Taiwanese Macaques in Mt. Longevity. G. Agoramoorthy(1), C. Chung(2), J. Lin(2), M. Lin(2), T. Lin(1), M. Hsu(2) - (1)College of Pharmacy and Health Care, Tajen University, (2)Department of Biological Sciences, National Sun Yat-sen University
P5 Applied animal behavior	Aggression and Familiarity in Pigs: Does Relatedness or Recent Social Experience Matter More? K. Wurtz(1), C. O'Malley(1), J. Siegford(1), J. Steibel(1,2) - (1)Department of Animal Science, Michigan State University, (2)Department of Fisheries and Wildlife, Michigan State University
P7 Applied animal behavior	Communal Breeding in a Subtropical Treefrog with Parental Care: a Brood Parasitism or Cooperativeness? M. Chuang(1), W. Hsu(2), Y. Lin(1), Y. Kam(1) - (1)Tunghai University, (2)Endemic Species Research Institute
P9 Applied animal behavior	Do Sparrows Like Toys? Environmental Enrichment and Indicators of Welfare in Captive House Sparrows N. Ali, R. Fox - <i>Transylvania University</i>
P11 Applied animal behavior	Dynamics of the Recovery of Gregariousness Behaviour in Postpartum Goats P. Cano(1), S. Gallina(2), S. Flores(1), R. Ibarra(1), F. González(1), A. Olazábal(1), R. Soto(1) - (1)Universidad Nacional Autónoma de México, (2) Instituto de Ecología
P13 Applied animal behavior	Evaluation of Dog Volunteer Pre-Service Training K. White, M. Polson, V. Howard - <i>University of Alaska</i>
P15 Applied animal behavior	"Exposure Group Therapy Class for Dogs-Desensitization and Counter-Conditioning to Novel Stimuli" C. King - <i>Canine Education Center, LLC</i>
P17 Applied animal behavior	Extra! Extra! Read all a'Bat' it! (Genesis Competition) S. Chertoff, S. Margulis - <i>Canisius College</i>
P19 Applied animal behavior	Individual Differences in Sociability and Welfare in Colony Housed Shelter Cats ( <i>Felis catus</i> ) K. Bracco, M. Piombino, M. Suchak - <i>Canisius College</i>
P21 Applied animal behavior	Listening In: Male Wolf Spiders Learn to Associate Seismic Signals of Other Males With Female Cues. (Genesis Competition) M. Lallo, B. Stoffer, G. Uetz - <i>University of Cincinnati</i>
P23 Applied animal behavior	Parturient Goats Display Maternal Selective Behavior as Early as 2 h Postpartum H. Hernández(1), E. García y González(1), J. Flores(1), J. Delgadillo(1), A. Terrazas(2), E. Duarte(1), I. Fernández(1), M. Bedos(1), J. Ponce(1), S. Ramírez(1) - (1)Centro de Investigación en Reproducción Caprina, UAAAN, (2)Departamento de Ciencias Pecuarias, FESC-UNAM
P25 Applied animal behavior	Procedures of Rehabilitation, Husbandry, and Veterinary Practices at the Alaska Sealife Center (Genesis Competition) A. Bothwell(1,2), L. McCaslin(1,2), J. Gill(2,3) - (1)University of North Carolina Wilmington, (2)Semester by the Bay, (3)University of Alaska Anchorage Biological Sciences
P27 Applied animal behavior	Sexual Behavior of Photo-Stimulated Bucks is Similar to that Displayed During their Breeding Season A. Muñoz, M. Bedos, R. Aroña, E. García, J. Ponce, J. Delgadillo - <i>Centro de Investigación en Reproducción Caprina, UAAAN</i>
P29 Applied animal behavior	Study of the Response to Separation from the Mother or Conspecifics in Lambs of 120 to 180 Days Old R. Ibarra(1), S. Gallina(2), S. Flores(1), P. Cano(1), A. Olazabal(1), E. Torres(1), N. Urbina(1), F. González(1), R. Soto(1) - (1)Facultad de Estudios Superiores Cuautitlán UNAM, (2)Instituto de Ecología, A.C.
P31 Applied animal behavior	The Effect of Courtship Residency on Male Contest Outcomes for Cook Strait Weta ( <i>Deinacrida rugosa</i> ) (Genesis Competition) J. Alvarez, M. DePerno, L. Yares, C. Nielsen, C. Hall, D. Howard - <i>Augustana College</i>
P33 Applied animal behavior	The Effects of Design and Enrichment on Space Use in the Tennessee Aquarium Otter Exhibit P. Foerder, S. Swanson - <i>The University of Tennessee at Chattanooga</i>
P35 Applied animal behavior	Then There Were Two: Social Behavior in Captive Elephants Before and After the Death of a Herd Member C. Loyer(1,2), J. Ha(1), N. Hawkes(2) - (1)University of Washington, (2)Woodland Park Zoo
P37 Applied animal behavior	Visual and Olfactory Cue Use in Responses of Naive Threespine Stickleback to Invasive Predatory Pike (Genesis Competition) M. Nyquist, S. McFadden, M. Graham, J. Baker, S. Foster - <i>Clark University</i>
P39 Behavioral plasticity	An Analysis of <i>Octopus cyanea</i> Body Patterns A. Benolkin, D. Scheel - <i>Alaska Pacific University</i>
P41 Behavioral plasticity	The Effects of Temperature and Body Condition on the Web-Building Behavior of <i>L. hesperus</i> . (Genesis Competition) D. Stevens II, A. Vannan, J. Johnson - <i>Arizona State University at the West Campus</i>
P43 Behavioral plasticity	Food Quality and Egg Laying Behaviors of the Colorado Potato Beetle, <i>Leptinotarsa decemlineata</i> C. Newsome(1), K. Collie(2) - (1)Malone University, (2)Malone University
P45 Behavioral plasticity	Individual Differences in Flower Sampling in the Nectar-Feeding Bat <i>Glossophaga commissarisi</i> S. Wintergerst, Y. Winter - <i>Humboldt-University</i>
P47 Behavioral plasticity	Latitudinal Variation in Life History Strategies in <i>Nicrophorus orbicollis</i> . B. Quinby, J. Creighton - <i>Purdue University Calumet</i>
P49 Behavioral plasticity	Sibling Cannibalism in Wolf Spiders: A Maladaptive Side-effect of Selection for Voracity? (Genesis Competition) D. Wilson, O. Grunmeier, M. Schreiber, E. Rosenblum, J. Mazzagatti, E. McCaffery, M. Persons - <i>Susquehanna University</i>

## POSTER SESSION I

P51 Cognition & learning	Determinants of What-Where-When Memory in the Rodent Odor Span Task D. Panoz-Brown, S. Maggio, M. Mathews, C. Nealley, S. Hess, K. Gobenciong, C. Myer, K. Bruce, M. Galizio - <i>University of North Carolina Wilmington</i>
P53 Cognition & learning	Evolution of Behavior in Cave Environments: Spatial Memory Experiments in <i>Astyanax mexicanus</i> O. García(1), A. Santacruz(1), V. Reynoso(2), E. Maldonado(1) - (1) <i>EvoDevo Lab, Unidad Académica de Sistemas Arrecifales, Instituto de Ciencias del Mar y Limnología</i> , (2) <i>Instituto de Biología, Universidad Nacional Autónoma de México</i>
P55 Cognition & learning	Investigating the Extinction of Learning of Predator Cues in Threespine Stickleback Fish ( <b>Genesis Competition</b> ) P. Mitchell, M. Wund - <i>The College of New Jersey</i>
P57 Cognition & learning	Quantity Discrimination in Three-Spined Sticklebacks ( <i>Gasterosteus aculeatus</i> ) R. Trapp, L. Stein, A. Bell - <i>University of Illinois</i>
P59 Communication	Age-Related Differences in Lar Gibbon ( <i>Hylobates lar</i> ) Song T. Terleph(1), S. Malaivijitnond(2), U. Reichard(3) - (1) <i>Sacred Heart University</i> , (2) <i>Chulalongkorn University</i> , (3) <i>Southern Illinois University</i>
P61 Communication	Does the Audience Affect the Structure of Warble Song in Budgerigars? ( <b>Genesis Competition</b> ) C. Tobin, A. Medina-Garcia, T. Wright - <i>New Mexico State University</i>
P63 Communication	Eavesdropping on Marmosets C. Casebeer(1), C. Miller(2), R. Snider(1) - (1) <i>Montana State University</i> , (2) <i>University of California</i>
P65 Communication	Fractal Diversity: Variability and Diversity at any Temporal Level N. Harness, M. Spikes, J. Schul - <i>University of Missouri</i>
P67 Communication	Listening to What Females Have to Say: Female Song May Communicate Information to Rivals ( <b>Genesis Competition</b> ) A. Burnett, C. Krieg - <i>Michigan State University</i>
P69 Communication	Steller's Jays Respond Differently to Seeing versus Hearing Predators D. MacArthur-Waltz(1), B. Alexis(2), G. Erick(2) - (1) <i>Helgate High School</i> , (2) <i>University of Montana</i>
P71 Communication	Measurement Biases in Songbird Analysis Under Noisy Conditions ( <b>Genesis Competition</b> ) A. Berger(1), A. Rios-Chelén(2), A. McDonald(1), A. Perry(1), A. Krakauer(1), G. Patricelli(1) - (1) <i>University of California Davis</i> , (2) <i>Centro Tlaxcala de Biología de la Conducta Universidad Autónoma de Tlaxcala</i>
P73 Conservation	Invasive Spiders, Native Spiders, and the Reversal of Competitive Advantage Over the Season E. Jakob, J. Houser - <i>UMass Amherst</i>
P75 Conservation	Mercury Biomagnification in Mountain Goats May Be Absent Due To Food Choice J. Cortez, D. Ramos - <i>Colorado State University-Pueblo</i>
P77 Conservation	Sleeping Site Selection by African Elephants ( <i>Loxodonta Africana</i> ) in Kruger National Park, South Africa A. Remillard(1), M. Madden(1), R. Fayrer-Hosken(2), A. Presotto(1) - (1) <i>The University of Georgia, Center for Geospatial Research, Department of Geography</i> , (2) <i>San Diego Zoo</i>
P79 Ecological effects	Altered Audience Effects on Male-Male Interactions After Fluoxetine Exposure in Siamese Fighting Fish ( <b>Genesis Competition</b> ) N. Greaney, K. Mannion, T. Dzieweczynski - <i>University of New England</i>
P81 Ecological effects	Foraging at High Temperatures. How Bees in the Brazilian Tropical Dry Forest Solve This Thermal Challenge M. Hrnčir, V. Teixeira-Souza, N. Ferreira - <i>Universidade Federal Rural do Semi-Árido</i>
P83 Ecological effects	Reproduction is Costly in a Damsel fly T. Krama, I. Krams - <i>University of Daugavpils</i>
P85 Education	Territoriality In Convict Cichlids: Who Wins? An Animal Behavior Teaching Lab J. Templeton - <i>Knox College</i>
P87 Human behavior	The Use of Socially Acquired Information Depends on Task Difficulty and the Nature of Information Presentation O. Guayasamin(1), P. Romanczuk(1), I. Couzin(1,2,3) - (1) <i>Princeton University</i> , (2) <i>Max Planck Institute for Ornithology</i> , (3) <i>University of Konstanz</i>
P89 Mathematical/ simulation/modeling	Conflict and the Emergence of Size-Structured Queues I. Hamilton(1,2) - (1) <i>Department of Evolution, Ecology, and Organismal Biology, The Ohio State University</i> , (2) <i>Department of Mathematics, The Ohio State University</i>
P91 Mating/breeding systems	Seasonal Changes in Male Display Performance in Response to a Robotic Female Stimulus. ( <b>Genesis Competition</b> ) C. Main, A. Perry, A. Krakauer, G. Patricelli - <i>University of California Davis</i>
P93 Mating/breeding systems	Social and Genetic Mating System of a Neotropical Cooperative Breeder, the Baywing ( <i>Agelaioides badius</i> ). C. Ursino(1), C. Riehl(2), M. De Mársico(1), J. Reboreda(1) - (1) <i>Departamento de Ecología, Genética y Evolución (IEGEB), Universidad de Buenos Aires</i> , (2) <i>Department of Organismic and Evolutionary Biology, Harvard University</i>
P95 Mating/breeding systems	Socio-Sexual and Probable Mating Behavior of Cook Inlet Beluga Whales Observed From an Aircraft K. Lomac-MacNair(1,2), M. Smultea(1), M. Cotter(1), C. Thissen(1), L. Parker(3) - (1) <i>Smultea Environmental Sciences</i> , (2) <i>Johns Hopkins University</i> , (3) <i>Apache Alaska</i>
P97 Neuro/endocrine and physiological mechanisms	Are the Effects of Environmental Stressors on Cortical Characteristics Heritable? ( <b>Genesis Competition</b> ) T. Cobb Irvin(1), T. Langkilde(2), L. LaDage(1) - (1) <i>Penn State Altoona</i> , (2) <i>Penn State University</i>
P99 Neuro/endocrine and physiological mechanisms	Changes in a Small Circuit During Evolution D. Soares - <i>NJIT</i>
P103 Neuro/endocrine and physiological mechanisms	Population-Level Variation in Cortical Volume in Side-Blotched Lizards ( <i>Uta stansburiana</i> ) ( <b>Genesis Competition</b> ) J. Hamilton(1), M. Andruzzi(1), P. Zani(2), L. LaDage(1) - (1) <i>Penn State Altoona</i> , (2) <i>University of Wisconsin- Stevens Point</i>

## POSTER SESSION I

P105 Neuro/endocrine and physiological mechanisms	The effects of urbanization on hormone levels and activity in Jollyville salamanders ( <i>Eurycea tonkawae</i> ) M. Mondelli, C. Gabor - <i>Texas State University</i>
P107 Parental care	Development and Senescence of Parental Care in a Long-Lived Bird ( <b>Genesis Competition</b> ) S. Ortega, O. Sánchez-Macouzet, A. Urrutia, C. Rodríguez, H. Drummond - <i>Universidad Nacional Autónoma de México</i>
P109 Parental care	How Helpers Benefit Breeders in the Cooperatively Breeding Southern Lapwing ( <i>Vanellus chilensis</i> ) R. Cerboncini(1), T. Braga(1), J. Roper(1,2), F. Passos(1) - (1) <i>Federal University of Parana</i> , (2) <i>University of Vila Velha</i>
P111 Parental care	Investment in Parental Provisioning Predicts Responses to Novelty in Free-Living House Sparrows S. Gardner, C. Coomes, R. Fox - <i>Transylvania University</i>
P113 Parental care	The Impact of Diet Quality and Sex on Incubation Patterns in the Zebra Finch ( <i>Taeniopygia guttata</i> ) K. Wilson, N. Burley, M. Kem - <i>University of California, Irvine</i>
P115 Predation & foraging	Butterfly Behavioral Response to Ultrasound ( <b>Genesis Competition</b> ) M. Bailey, M. DePerno, C. Hall, D. Howard - <i>Augustana College</i>
P117 Predation & foraging	Butterfly vs. Predator: Do the "False Antennae" Matter? T. López-Palafox, C. Cordero Macedo - <i>Instituto de Ecología, UNAM</i>
P119 Predation & foraging	Evading Predator by Hermit Crabs: Tight for Breakers, Loose for Peelers G. Alcaraz(1), E. Arce(2), B. Toledo(1) - (1) <i>Universidad Nacional Autónoma de México</i> , (2) <i>Universidad Autónoma del Estado de Morelos</i>
P121 Predation & foraging	Primate Camouflage in the Eyes of Felids, Raptors, and Conspicifics S. Winters(1,2), J. Kamilar(3,4), T. Webster(5), B. Bradley(5,6), J. Higham(1,2) - (1) <i>New York University</i> , (2) <i>New York Consortium in Evolutionary Primatology</i> , (3) <i>Midwestern University</i> , (4) <i>Arizona State University</i> , (5) <i>Yale University</i> , (6) <i>George Washington University</i>
P123 Predation & foraging	The Effects of Prenatal Predator Cue Exposure on Offspring Substrate Preferences in Wolf Spiders ( <b>Genesis Competition</b> ) H. Shannon, D. Kutz, M. Persons - <i>Susquehanna University</i>
P125 Sexual selection & sexual conflict	Differences in the Importance of Size for Intrasexual Competition in Burying Beetles, <i>Nicrophorus marginatus</i> J. Memmott, A. Smith, M. Belk, G. Schaajle - <i>Brigham Young University</i>
P127 Sexual selection & sexual conflict	Linking Mating Preferences to Sexually Selected Traits and Offspring Viability ( <b>Genesis Competition</b> ) M. Reifer(1), S. Bertram(1), M. Loranger(1), I. Thomson(1), S. Harrison(1), G. Ferguson(1), D. Corlett(1), P. Gowaty(2,3) - (1) <i>Department of Biology, Carleton University</i> , (2) <i>Department of Ecology and Evolutionary Biology and Institute of Environment and Sustainability, University of California Los Angeles</i> , (3) <i>Smithsonian Tropical Research Institute</i>
P129 Sexual selection & sexual conflict	Mating Behavior of <i>Meccus pallidipennis</i> and Sexual Selection under <i>Trypanosoma cruzi</i> Infection. A. Tellez-Garcia(1), G. Villalobos(1), N. González-Rodríguez(2), D. Schneider(1), A. Córdoba-Agular(1) - (1) <i>Universidad Nacional Autónoma de México</i> , (2) <i>Instituto Politécnico Nacional</i>
P131 Social behavior	Assessment of Asian and African Zoo Elephant Social Behavior ( <b>Genesis Competition</b> ) S. Kuzara, M. Bonaparte-Saller, J. Mench - <i>University of California, Davis</i>
P133 Social behavior	Changes in Feline Vocalizations as Signs of Socialization Increase S. Waller(1), C. Kloth(2), M. Olsen(1) - (1) <i>Montana State University</i> , (2) <i>University of Nevada Reno</i>
P135 Social behavior	Effect of Point Source Feeders on Cultured Sockeye Salmon Social Behavior D. Maynard - <i>NOAA/NWFSC</i>
P137 Social behavior	Examining the Relationship Between Dominance Status and Disease Transmission in House Finches ( <b>Genesis Competition</b> ) D. Vasquez, S. Moyers, J. Adelman, D. Hawley - <i>Virginia Tech</i>
P139 Social behavior	Investigating Laterality in the Freely Occurring Behaviors of Budgerigars ( <i>M. undulates</i> ) M. Stephenson, D. Buckley, A. Ciampaglia, M. King, M. Kertesz, B. Datorre, M. Anderson - <i>Saint Joseph's University</i>
P141 Social behavior	Pinyon Jays Share Their Own Food With Others: Testing the Role of Reciprocity and Dominance J. Duque, J. Stevens - <i>Univ. of Nebraska</i>
P143 Social behavior	Previous Habitat Experience Affects Social Behavior and Optomotor Response in Zebrafish D. Sykes, P. Suriyampola, E. Martins - <i>Indiana University-Bloomington</i>
P145 Social behavior	Social Status and Parasitism in Male and Female Vertebrates B. Habig, J. Olansen, K. Woods - <i>University of Notre Dame</i>
P147 Social behavior	To See or Not To See Beluga Behaviors Involving Adults and Calves. Comparing Focal Follows vs Scan Samples. ( <b>Genesis Competition</b> ) S. Guarino, H. Hill - <i>St. Mary's University</i>
P149 Social evolution	TUSK EVOLUTION AMONG TERRESTRIAL CETARTIODACTYLS D. Cabrera, T. Stankowich - <i>California State University, Long Beach</i>

## POSTER SESSION II

SATURDAY, JUNE 13 (8:00 PM - 10:00 PM)

P2 Agonism	She Wears the Pants: Use and Morphology of Setae on the Rear Legs of Female Stout-Leg Tarantulas S. Schrader, C. Shillington - <i>Eastern Michigan University</i>
P4 Applied animal behavior	Bold Urbanites and Shy Hillbillies? Variation in Novel Environment Exploration in <i>Haemorrhous Mexicanus</i> M. Weaver, K. McGraw - <i>Arizona State University</i>
P6 Applied animal behavior	Attachment Behavior in Bottle Fed vs. Mother Fed Lambs (Genesis Competition) K. Longrie(1), M. Udell(1), M. Meaker(1) - (1) <i>Oregon State University</i> , (2) <i>Oregon State University</i> , (3) <i>Oregon State University</i>
P8 Behavioral plasticity	Increased Aggression in Males as a Consequence of Resource Availability M. Stephenson, R. McCulloch, E. Becker - <i>Saint Joseph's University</i>
P10 Behavioral plasticity	Does Early Life Condition Influence Male Reproductive Behavior in Threespine Stickleback? K. Richer, R. Rood-Goldman, M. Graham, M. Reyes, J. Baker, S. Foster - <i>Clark University</i>
P12 Behavioral plasticity	Choosing Suitable Shells to Reduce the Energetic Costs of Living in The Surf B. Toledo, G. Alcaraz - <i>Universidad Nacional Autónoma de México, Posgrado de Ciencias Biológicas</i>
P14 Behavioral plasticity	The Relationship Between Sibling and Sexual Cannibalism in the Wolf Spider <i>Tigrosa helluo</i> M. Persons, J. Mazzagatti, E. McCaffery, E. Rosenblum, M. Schreiber, D. Wilson, O. Grunmeier - <i>Susquehanna University</i>
P16 Behavioral plasticity	Boldness and Hormonal Response to Environmental Stressors in Convict Cichlids ( <i>Amatitlania nigrofasciata</i> ) C. Marshall, N. Ali, R. Fox - <i>Transylvania University</i>
P18 Behavioral plasticity	Free-Living House Sparrows Exhibit Personality and Plasticity in Response to Novel Objects C. Coomes, S. Gardner, R. Fox - <i>Transylvania University</i>
P20 Behavioral plasticity	Effect of Natal Environment on Life History Traits in a Burying Beetle G. Patel, C. Creighton - <i>Purdue University Calumet</i>
P22 Cognition & learning	Neophobia Predicts Problem-solving Ability in Budgerigars ( <i>Melopsittacus undulatus</i> ) A. Medina-García, T. Wright - <i>New Mexico State University</i>
P24 Cognition & learning	Performance of Crayfish Using Egocentric and Allocentric Spatial Learning Strategies. A. Tierney, J. Forward, C. Slight - <i>Colgate University</i>
P26 Cognition & learning	Measuring Relative Value Through Cross-Modal Scaling of Two or More Reinforcers A. Casey(1), A. Silberberg(1), A. Paukner(2), S. Suomi(2) - (1) <i>American University</i> , (2) <i>Eunice Kennedy Shriver National Institute of Child Health and Human Development</i>
P28 Cognition & learning	Mirror-Directed Behavior by Beluga Whales ( <i>Delphinapterus leucas</i> ) C. Clemens, M. Noonan - <i>Canisius College</i>
P30 Cognition & learning	The String-Pulling Task with Common Ravens J. Edge - <i>University of Alaska Anchorage</i>
P32 Cognition & learning	The Sweet Taste of Success: A Demonstration of the Effects of Sucrose in an Omission Contingency S. Lauby, M. Scheel - <i>Carroll University</i>
P34 Communication	How to Make an Egg Shine: A Nanostructural Basis for Gloss of Avian Eggshells M. Hauber(1), B. Ijic(2), D. Fecheyr-Lippens(2), D. Chan(3), D. Hanley(4), P. Brennan(5), T. Grim(3), G. Waterhouse(3), M. Shawkey(2) - (1) <i>Hunter College CUNY</i> , (2) <i>University of Akron</i> , (3) <i>University of Auckland</i> , (4) <i>Palacky University</i> , (5) <i>University of Massachusetts</i>
P36 Communication	Combinatorial Communication in Acorn Woodpeckers ( <i>Melanerpes formicivorus</i> ) M. Pardo - <i>Cornell University</i>
P38 Communication	Aggressive Thresholds and Signature Signals in the Dear Enemy Recognition System of a Territorial Frog M. Chuang(1), M. Bee(2), Y. Kam(1) - (1) <i>Department of LifeScience, Tunghai University</i> , (2) <i>Department of Ecology, Evolution, and Behavior, University of Minnesota</i>
P40 Communication	Song Structure and Singing Behavior in Northern and Southern House Wrens ( <i>Troglodytes aedon</i> ) E. Dos Santos(1), C. Kaluthota(1), P. Llambías(2), D. Rendall(1) - (1) <i>University of Lethbridge</i> , (2) <i>CCT-CONICET Mendoza</i>
P42 Communication	The Evolution of Stridulatory Communication in Ants, Revisited T. Golden, P. Hill - <i>The University of Tulsa</i>
P44 Communication	Niether Friend Nor Foe: Why Lilac-Crowned Parrots Don't Love Thier Neighbors A. Montes-Medina(1), K. Renton(2) - (1) <i>Posgrado en Ciencias Biológicas, Instituto de Biología, Universidad Nacional Autónoma de México</i> , (2) <i>Estacion de Biología Chamela, Instituto de Biología, Universidad Nacional Autónoma de México</i>
P46 Communication	Does Courtship of Male Wolf Spiders Vary with Chemotactile Silk Cues Indicating Female State? T. Meyer, G. Uetz - <i>University of Cincinnati</i>
P48 Communication	Interactive Courtship When Female Preferences Vary E. Bergen - <i>Cornell University</i>
P50 Communication	Self-grooming in Response to Conspecific Odor in a Dwarf Hamster ( <i>Phodopus sungorus</i> ) F. Castelli - <i>Cornell University</i>
P52 Communication	Why Barking? Social and Ontogenetic Flexibility in Production and Use Barks by Capybaras. A. Ueno, M. Geraledi, P. Monticelli - <i>University of São Paulo</i>
P54 Communication	The Development of Multimodal Communication in Bonobos and Chimpanzees K. Lucca, E. MacLean, B. Hare - <i>Duke University</i>
P56 Conservation	Predicting the Responses of Native Songbirds to Trans-oceanic Invasions by Brood Parasites V. Dinets(1), P. Samaš(2), R. Croston(3,4), T. Grim(2), M. Hauber(3) - (1) <i>Department of Psychology, University of Tennessee</i> , (2) <i>Department of Zoology and Laboratory of Ornithology, Palacky University</i> , (3) <i>Department of Psychology, Hunter College and the Graduate Center, City University of New York</i> , (4) <i>Department of Biology, University of Nevada</i>
P58 Conservation	Behavioural Differences in Native, Invasive, and Captive <i>Xiphophorus helleri</i> , the Green Swordtail Fish. D. D'Amore - <i>Ohio University</i>



## POSTER SESSION II

P60 Conservation	Reproductive Diapause of a Highky Eusocial Bee May Be Revoked By Global Warming C. dos Santos(1), A. Acosta(2), P. Nunes-Silva(1), B. Blochtein(1) - (1) <i>Pontifical Catholic University of Rio Grande do Sul</i> , (2) <i>University of São Paulo</i>
P62 Conservation	Toward an Understanding of King Rail Movements, Reproductive Behavior and Population Dynamics S. McRae, J. Kolts, A. Clauser - <i>East Carolina University</i>
P64 Development	Development of Preferences for "Gender-Specific" Toys in Fee-Range Infant Rhesus Macaques C. Fleener - <i>University of Chicago</i>
P66 Ecological effects	Does Food Availability Predict Egg Quality and Clutch Size in a Neotropical Songbird? I. Paneczko, P. Diniz, R. Macedo - <i>University of Brasilia</i>
P68 Ecological effects	Hit the Lights: How Experimental Artificial Night-Lighting Influences Sleep, Disease and Stress in a Songbird P. Hutton, K. McGraw - <i>School of Life Sciences, Arizona State University</i>
P70 Ecological effects	Effect of Foraging Behavior on Correlates of Dispersal Ability in Male and Female Japanese Beetles Y. Saeki(1), Y. Sugawara(1), M. Tuda(1), P. Switzer(2) - (1) <i>Kyushu University</i> , (2) <i>Eastern Illinois University</i>
P72 Ecological effects	How Biotic and Abiotic Variables Impact Breeding Phenology of Gray Treefrogs S. Humfeld, M. Austin - <i>University of Missouri</i>
P74 Ecological effects	Feeding Behavior in Darwin's Finches: Varying Degrees of Niche Overlap Across Time and Space J. Podos(1), L. de León(2), T. Gardezi(3), A. Herrel(4), A. Hendry(3) - (1) <i>Department of Biology, University of Massachusetts</i> , (2) <i>Instituto de Investigaciones Científicas y Servicios de Alta Tecnología</i> , (3) <i>Redpath Museum and Department of Biology</i> , (4) <i>Department d'Ecologic et de Gestion de la Biodiversité</i>
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P82 Human behavior	Ejaculate Tailoring In Humans In Response To Images Of Novel Women P. Joseph(1,2), L. Sirot(1), R. Sharma(3), A. Agarwal(3) - (1) <i>The College of Wooster</i> , (2) <i>University of Florida</i> , (3) <i>Cleveland Clinic</i>
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P86 Mating/breeding systems	Exploring the Use of Olfaction in House Sparrow ( <i>Passer Domesticus</i> ) Behavior S. Wanamaker, H. Schwabl - <i>Washington State University</i>
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P112 Predation & foraging	Stingless Bees ( <i>Melipona subnitida</i> ) Adjust Their Foraging Behavior to Ambient Temperature C. Maia-Silva(1), V. Imperatriz-Fonseca(1,2), A. Limão(1), A. Silva(1), G. Filho(1), M. Hrcir(1) - (1) <i>Universidade Federal Rural do Semi-Árido</i> , (2) <i>Universidade de São Paulo</i>

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P122 Sexual selection & sexual conflict	Male Benefits of Copulatory Silk Wrapping in the Nursery Web Spider <i>Pisaurina mira</i> A. Anderson, E. Hebets - <i>University of Nebraska - Lincoln</i>
P124 Sexual selection & sexual conflict	The Effects of Precopulatory Sexual Selection on Male Genitalia in Swordtail Fish A. Hernandez-Jimenez, O. Rios-Cardenas - <i>Instituto de Ecología AC</i>
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P130 Sexual selection & sexual conflict	All Talk But No Walk: Mate Guarding Success Independent of Female Preference in a Jumping Spider M. McPhee, M. Andrade, A. Mason - <i>University of Toronto</i>
P132 Social behavior	RHP and Payoff Asymmetries Predict the Outcome and Intensity of Intergroup Contests of Wild Monkeys A. Roth, M. Cords - <i>Columbia University- Department of Ecology, Evolution, &amp; Environmental Biology</i>
P134 Social behavior	Recruitment of Allies by Spotted Hyenas During Interactions With Lions S. MacLachlan(1,2), K. Lehmann(1), T. Montgomery(1), K. Holekamp(1) - (1) <i>Michigan State University</i> , (2) <i>Arnold and Mabel Beckman Foundation</i>
P136 Social behavior	The Temporal Clustering of Underwater Bubbling in Beluga Whales ( <i>Delphinapterus leucas</i> ) E. George, M. Noonan - <i>Canisius College</i>
P138 Social behavior	Dominance, Innovation and Personality in Black-Capped Chickadees I. Devost, E. Hermer, C. Montreuil-Spencer, J. Morand-Ferron - <i>University of Ottawa</i>
P140 Social behavior	The Social Rank of Anestrous Goats does not Affect their Reproductive Response to the Male Effect A. Sánchez, H. Hernández, I. Fernández, G. Fitz-Rodríguez, M. Bedos, J. Delgado, J. Flores - <i>Centro de Investigación en Reproducción Caprina, UAAAN</i>
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P146 Social behavior	Individual Chickadee Behavior in Familiar and Unfamiliar Flocks B. Coppinger(1), A. Sanchez de launay(2), T. Freeberg(1) - (1) <i>University of Tennessee</i> , (2) <i>University of Rennes</i>
P148 Social behavior	How Does Stressing Honey Bees Early In Life Slow Their Rate of Foraging and Recruitment Later In Life? H. Scofield, A. Shen, A. Yau, A. Ziad, R. Hale, H. Mattila - <i>Wellesley College</i>
P150 Social behavior	Social Behavior of Captive Gray Wolves ( <i>Canis lupus</i> ) R. Webber, M. Udell - <i>1 Oregon State University</i>
P152 Social behavior	Tactile Contact During Socio-Sexual Interactions of Beluga Whales M. Miller, H. Hill - <i>St. Mary's University</i>
P154 Social behavior	Social Learning in the Wild: Identifying Learning Strategies in White-faced Capuchin Monkeys B. Barrett(1,2) - (1) <i>UC Davis Animal Behavior Graduate Group</i> , (2) <i>UC Davis Department of Anthropology</i>

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Partan, Sarah R.	THU	5:00 PM	Marler Symposium (Pt. 3)
Perry, Anna C.	SUN	2:45 PM	Mating & Breeding Systems 2
Peters, Susan	THU	11:00 AM	Marler Symposium (Pt. 1)
Pinter-Wollman, Noa	THU	11:45 AM	Social Behavior 1
Presotto, Andrea	SAT	4:30 PM	Cognition & Learning 4
Pruitt, Jonathan N.	THU	11:00 AM	Social Behavior 1
Ramos, Claire W Varian	SAT	2:30 PM	Conservation 2
Rayor, Linda S.	THU	10:30 AM	Social Behavior 1
Reader, Simon M.	SAT	11:45 AM	Neuro/endocrine & Physiological Mechanisms 1
Rek, Pawel	FRI	11:00 AM	Communication 1
Remillard, Caren M.	SAT	2:45 PM	Conservation 2
RENOULT, Julien P.	FRI	3:15 PM	Sexual Selection & Conflict 2
Romey, William L.	FRI	11:30 AM	Social Behavior 3
Roper, Michelle M.	FRI	2:45 PM	Communication 2
Rosenthal, Malcolm F	FRI	4:00 PM	Allee Symposium (Pt. 3)

Roth, TC	SAT	1:30 PM	Frontiers Symposium (Pt. 2)
Royauté, Raphaël	SUN	11:00 AM	Behavioral Plasticity 1
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Rubenstein, Dustin	SAT	11:30 AM	Frontiers Symposium (Pt. 1)
Rubi, Tricia L.	SAT	4:00 PM	Communication 4
Rush, Andrew	SUN	2:30 PM	Communication 5
Russell, Avery L	SAT	4:45 PM	Cognition & Learning 4
Rutowski, Ronald L	FRI	5:15 PM	Communication 3
Saltz, Julia B	SUN	11:15 AM	Behavioral Plasticity 1
Sánchez-Macouzet, Oscar	SUN	10:45 AM	Mating & Breeding Systems 1
Santangelo, Nicholas	THU	5:30 PM	Ecological Effects 2
Schamberg, Isaac	SAT	5:00 PM	Cognition & Learning 4
Scheel, David	FRI	3:00 PM	Communication 2
Schell, Christopher J.	SAT	2:00 PM	It's About Time Symposium (Pt. 2)
Schul, Johannes	SAT	5:15 PM	Cognition & Learning 4
Schulte, Bruce A	SAT	3:00 PM	Conservation 2
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Sdao, Kathy	THU	11:30 AM	Applied Animal Behavior
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Shero, Michelle R.	SUN	3:00 PM	Behavioral Plasticity 2
Shizuka, Dai	SUN	2:45 PM	Social Behavior 6
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Sih, Andrew	SUN	3:30 PM	Presidential Symposium - Social Networks (Pt. 2)
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Singh, Shur	SAT	11:45 AM	Behavior, Genetics & Evolution 1
Skeate, Kea	FRI	2:30 PM	Social Behavior 4
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Smith, Jennifer E.	SAT	4:00 PM	Cognition & Learning 4
Smith, K-lynn	THU	4:30 PM	Marler Symposium (Pt. 3)
Smith Vidaurre, Grace	FRI	2:45 PM	Social Behavior 4
Smultea, Mari A	THU	4:45 PM	Ecological Effects 2
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Snyder-Mackler, Noah	SAT	5:15 PM	Behavior, Genetics & Evolution 3
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Spiegel, Orr	SUN	3:00 PM	Presidential Symposium - Social Networks (Pt. 2)
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Stein, Laura R.	FRI	4:30 PM	Allee Symposium (Pt. 3)
Sterling, Jeremy T.	FRI	11:00 AM	Northern Marine Mammals Symposium (Pt. 1)
Stern, Caitlin	SUN	3:00 PM	Social Behavior 6

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Straley, J	FRI	4:30 PM	Northern Marine Mammals Symposium (Pt. 3)
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Suriyampola, Piyumika S.	SUN	11:15 AM	Social Behavior 5
Swaddle, John P	FRI	3:15 PM	Communication 2
Swartz, Steven	FRI	8:00 AM	Keynote - Steven Swartz
Sweger, Alexander	SAT	5:15 PM	Communication 4
Tarjan, Maxine	SUN	3:00 PM	Mating & Breeding Systems 2
Taylor, Rebecca L	FRI	10:30 AM	Northern Marine Mammals Symposium (Pt. 1)
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Trujillo, Vanessa	THU	5:15 PM	Ecological Effects 2
Trumpf, Kelsey M	SAT	3:00 PM	Neuro/endocrine & Physiological Mechanisms 2
Tung, Jenny	SAT	2:30 PM	Frontiers Symposium (Pt. 2)
Turner, Julie W.	SUN	3:15 PM	Social Behavior 6
Uetz, George W	THU	11:30 AM	Cognition & Learning 1
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Walters, Eric L.	FRI	3:00 PM	Social Behavior 4
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Westerman, Erica L.	SAT	5:30 PM	Behavior, Genetics & Evolution 3
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Wund, Matthew A.	SAT	5:45 PM	Cognition & Learning 4
Xu, Wenjing	SAT	1:30 PM	Conservation 2
Yanagi, Akie	SUN	2:00 PM	Communication 5
Yasukawa, Ken	THU	1:30 PM	Marler Symposium (Pt. 2)
Yorzinski, Jessica	FRI	4:45 PM	Sexual Selection & Conflict 3
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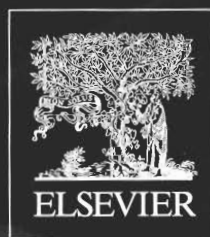
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