Announcing the Newly Elected Fellows

The awards will be presented at the 2019 annual meeting in Chicago. The newly-elected ABS Fellows are (in alphabetical order):

Read Bios »

- Leticia Avilés, Ph.D.
- Mark E. Hauber, Ph.D., D.Sc.
- Diana K. Hews, Ph.D.
- Regina Helena Ferraz Macedo, Ph.D.

2019 Penny Bernstein Distinguished Teaching Award

Alicia Mathis, Ph.D.

Read bio »

ABS 2019 Plenary Sessions and Symposia

We are pleased to announce the ABS 2019 Plenary Sessions and Symposia.

Read more »

ABS 2019 Highlights & Events

View a listing of ABS 2019 highlights, meetings and events. Looking forward to seeing you all in Chicago!

Read more »

2019 Grant Awardees

We are pleased to announce the recipients of the 2019 Student Research Grants and the Developing Nations Research Awards.

Read more »
ABS Annual Meeting

BEHAVIOUR 2019
A joint meeting of the 56th Annual Conference of the Animal Behavior Society and the 36th International Ethological Conference
University of Illinois at Chicago
July 23-27, 2019
http://www.animalbehaviorsociety.org/2019/

A message from the 2019 meeting hosts

Conference Local Host: Mary V. Ashley, Department of Biological Sciences, UIC
Program Officer: Alison Bell, ABS Program Officer

Announcements
View the current ABS announcements.
Read more »

ABS Newsletter
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Animal Behaviour
Animal Behaviour, manuscripts and editorial matters: Authors should submit manuscripts online to Elsevier’s Editorial System (http://ees.elsevier.com/anbeh). For enquiries relating to submissions prior to acceptance, contact the Journal Manager (yanbe@elsevier.com). For enquiries relating to submissions after acceptance, visit Elsevier at http://www.elsevier.com/journals. For other general correspondence, contact Kris Bruner, Managing Editor, Animal Behaviour, Indiana University, 407 N. Park Ave., Bloomington, IN 47408, USA. E-mail: krbruner@indiana.edu. Phone: 812-345-0497

Change of address, missing or defective issues: ABS Central Office, 2111 Chestnut Ave., Ste 145, Glenview, IL 60025, USA. Phone: 312-893-6585, Fax: 312-896-5614, E-mail: info@animalbehaviorsociety.org.
Congratulations to the 2019 ABS Newly Elected Fellows

Leticia Avilés, Ph.D.
Professor, Department of Zoology and Biodiversity Research Centre, University of British Columbia

Here is a short selection of excerpts received by the ABS Executive Committee about Dr. Avilés’ research: She is a prolific researcher who has made significant contributions to animal behavior with an emphasis on in social spiders. Her research, which is always grounded in natural history and field observations, is innovative and ground-breaking; her empirical research is elegant and rigorous; her theoretical contributions are analytical and extremely sophisticated. She is never afraid to broach controversial topics and has helped to revolutionize our thinking about social evolution. As one example, she has been a leader, since the 1980s, in examining levels of selection, embracing the possibility that group selection can be important in social evolution and under certain circumstances. Needless to say, at the time, many biologists considered the concept of “group selection” near anathema. Thus, Leticia was a pioneer in advocating for the importance of multi-level selection in social evolution – an idea that was well ahead of its time – and that now has been embraced even by E. O. Wilson. Lastly, it is noteworthy that Leticia has been an indefatigable advocate for the development and improvement of science in Latin America. She is, without doubt, a most important role model for younger Latin American scientists.

Mark E. Hauber, Ph.D., D.Sc.
Harley Jones Van Cleave Professor of Host-Parasite Interactions, Department of Animal Biology, University of Illinois at Urbana-Champaign

Here is a short selection of excerpts received by the ABS Executive Committee about Dr. Hauber’s research: Mark’s research is focused on the evolution of recognition systems using behavioral, developmental, physiological, and molecular tools with an emphasis on avian brood parasites and their hosts. An obligate brood parasite’s reliance on host species to raise its offspring raises the question of how recognition of conspecific song develops in parasitic young, which lack exposure to conspecific referents. Among his more important publications are considerations of the “password” (lock-and-key) process by which an initial recognition cue triggers the sensitive period in young individuals to begin to learn about salient features of conspecific partners (Hauber and Sherman 2001a, b). Mark’s work is increasingly incorporating techniques from genomics (e.g. RNA-Seq, methylation profiling) and neuroscience (e.g. MRI) to address fundamental questions about behavior. Mark champions inclusion, diversity, and broader impacts of the scientific process as a researcher, collaborator, mentor, and teacher. Working with birds allows Mark to capture people’s attention, and he often talks about research in high schools, public clubs, and citizen science projects. He is an ambassador for animal behavior who considers it his ethical duty to report unbiasedly to the public about our scientific challenges and discoveries.

Diana K. Hews, Ph.D.
Professor, Department of Biology, Indiana State University

Here is a short selection of excerpts received by the ABS Executive Committee about Dr. Hews' research: Diana works primarily with lizards in the field and has pioneered the use of simple field manipulations to test sophisticated behavioral, mechanistic and evolutionary questions. Diana focused in on stress and reproductive hormones, crafting a research program around clever field manipulations (implants, blockers, and live stimuli) that impact both hormones and behavior. Diana’s most important contribution has been to our understanding of the evolution of sensory systems and communication. Her early finding that there was a connection between a color signal and chemosensory behavior (Hews & Benard, 2001), bolstered by studies finding mechanistic links between reproductive hormones, signal production and response behavior (e.g., Hews, Knapp, & Moore, 1994; Quinn & Hews, 2000) inspired a now long-term collaboration (Hews & Martins, 2013) that worked out many of the details of how a color patch was lost (e.g., Romero-Diaz et al., 2019), and the evolutionary consequences of that loss to chemical signaling behavior (e.g., Pruett et al., 2016). Diana has been a highly-effective mentor to students at all stages and gives frequent public talks to local groups such as the Audubon Society and life-long learning institutes. Her primary outreach contribution may be in engaging high school teachers in her research.

Regina Helena Ferraz Macedo, Ph.D.

Professor, Zoology Department, Universidade de Brasilia, Brazil

Here is a short selection of excerpts received by the ABS Executive Committee about Dr. Macedo’s research: Regina is a dynamic, creative, and productive scientist who has made important contributions in the study of animal ecology, behavior, and genetics. A hallmark of Regina’s approach to science has been to develop multifaceted research programs that involve strong collaborations with other scientists and with students. For Regina, science is not just about ideas and nature but also about people. Regina has also proved to be a real scientific MacGyver, working out the best ways to push her science forward in the face of limited funding and infrastructure. Regina addresses many of the most important questions in sexual selection, including the occurrence and adaptive significance of extra-pair copulations and its relationship to mating systems. Perhaps even much more important is that Regina is investigating whether neotropical birds fit the same patterns and that have been documented in temperate birds. Regina is among a very small number of scientists currently conducting detailed and comparative studies of neotropical species. Regina has been an extremely effective and prolific mentor with students, showing great energy, patience and dedication. Regina has been a pioneer in fostering cultural and scientific exchanges between US and Brazilian professionals in our field.

2019 PENNY BERNSTEIN DISTINGUISHED TEACHING AWARD

The Penny Bernstein Distinguished Teaching Award recognizes a sustained record of excellent teaching in Animal Behavior. Since the first recipient, Jane Brockman (1995), nominees and awardees have all had outstanding reputations as educators. This year the Education Committee received a number of nominations for wonderfully qualified teachers. After carefully considering each nominee’s dossier and letters of support, the committee is awarding Alicia Mathis the 2019 Penny Bernstein Distinguished Teaching Award. Alicia is chair of her department and professor in biology at Missouri State University where she teaches Behavioral Ecology and Comparative Vertebrate Physiology. She has advised dozens of graduate and undergraduate students who have written to us about her as a true mentor and role model. She has trained many cohorts in both experimental design and critical thinking and instills in her students the importance of being a broadly read biologist, rather than a narrow specialist. She has brought more than 100 students to conferences to give papers and has coauthored more than 50 articles with her students. These students point out that Alicia has made them better writers and scientists by giving them real...
feedback and expecting them to revise their work rather than just editing their writing for them. Alicia has also inspired thousands of young scientists with her work in Science Olympiad and the Ozark Science and Engineering Fair. Alicia Mathis’s generosity and careful mentoring of her students is an inspiration to all of us who want to become better teachers.
ABS Social Media

SOCIAL MEDIA AT BEHAVIOUR 2019!

We're excited to promote a strong social media presence at the upcoming joint conference for ABS and ASAB: Behaviour 2019! Please use Twitter to advertise your presentation (oral and poster) and to discuss the amazing science you see at the conference.

The official conference hashtag is #Behaviour2019. Please also use @AnimBehSociety in your tweets, so you can reach as broad of an audience as possible. During the conference, we will be using Twitter for announcements, reminders, and for other initiatives.

ABS Social Media

We are continuing to be more active on Twitter (@AnimBehSociety) and other social media outlets. We hope to increase the exposure of the work of our society members (you!), and to take an active role in informing the public, policy-makers, and others about the importance of animal behavior research and what we do as scientists. To that end, we do need your help!

If you are active on Twitter, please mention @AnimBehSociety in tweets about your publications, outreach efforts, teaching, and other accomplishments. We will be happy to retweet them to increase the visibility of your work.

If you are not active on Twitter, please send an email to socialmedia@animalbehaviorsociety.org to let us know of your recent publications/accomplishments - we will get the word out for you!

A few other notes related to our shared efforts:

- Please do not tweet, send us, or mention @AnimBehSociety in any material that contains personal, politically-charged, or other sensitive items or opinions. We hope to keep our society's social media presence professional.
- When sending us information about publications/accomplishments please give us a brief (~150 character) description of the work. Make sure this is accessible - avoid jargon and other things that might prevent a broad audience from understanding. Along these lines, consider sending us pictures of your research (field, lab, etc. without materials that may hurt sensitivities) along with the aforementioned brief description. We want to share with the world the enthusiasm of doing animal behavior research!

Thank you in advance for your help in making our society better!

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Suzy Renn, Reed College, E-mail: mematlarge3@animalbehaviorsociety.org

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Dear ABS/ICE Members and Friends,

We are pleased to welcome you soon to Chicago, Illinois for the 56th annual meeting of the Animal Behavior Society and joint meeting with the Ethological Congress. We look forward to hosting you on our campus at the University of Illinois, Chicago (UIC), which is the largest university in the Chicago area. Chicago is an ideal location with easy access from across the country and around the world.

Chicago welcomes more than 50 million visitors a year who come to enjoy the city’s striking architecture as well as world-class museums, theaters, and restaurants. In the summer, visitors can also enjoy Chicago’s beautiful lakefront beaches and parks, street festivals, and outdoor concerts. The UIC campus is located just west of downtown Chicago’s “loop” in the University Village neighborhood. Grant Park, Millennium Park and the Art Institute are less than two miles from campus. Transportation should be simple as the “Blue line” serves the campus (UIC-Halsted station) and connects UIC to downtown Chicago as well as O’Hare Field. Several bus lines also serve the campus.

We are looking forward to a diverse program, with some outstanding plenary speakers, symposia and workshops. Plenary speakers will include Gail Patricelli (University of California, Davis), Georgia Mason (University of Guelph), Amy Toth (Iowa State University) and local Keynote Tanya Berger-Wolf (University of Illinois, Chicago). Conference symposia include “Animal behavior on an urbanized planet”, “Cross-taxa perspectives on behavior and developmental origins”, “Proximate causes of complex sociality” and “Phenotypic plasticity”. The ABS president’s plenary will be given by John Swaddle (College of William and Mary).

Other highlights will include the annual graduate student Allee Award session, the Charles H. Turner Workshop for undergraduates (by invitation), a pre-conference Outreach Fair, as well as Public Day (Saturday). The Pre-conference day also includes workshops on teaching and a workshop on “Weaving the future of animal behavior”. Please take the time to look at the full list of programs and events as there is sure to be something for everyone!
The Behaviour 2019 conference will be intellectually stimulating, as well as a fun time to meet old friends and make new ones. Please check the mobile app and meeting Twitter for updates and more details about events.

Please enjoy UIC campus and the beautiful city of Chicago, and, of course, the amazing research that will be presented.

### Registration

#### Registration Rates (after June 15th)

<table>
<thead>
<tr>
<th>Category</th>
<th>Fee</th>
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<tr>
<td>ABS Members</td>
<td>$420</td>
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<tr>
<td>ABS Student Members</td>
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<tr>
<td>ABS Emeritus Members*</td>
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<tr>
<td>ABS Developing Nation Members*</td>
<td>$170</td>
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<tr>
<td>ABS Developing Nation Students*</td>
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<tr>
<td>Non-members</td>
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#### Additional Event Fees

- The Closing Banquet will be held Saturday, July 27
- Conservation Behavior Workshop - $25 non-students, $20 students, and $5 Developing Nations attendees
- Behaviour 2019 Conference T-shirt - $15 (pre-order) $25 (onsite)
- ABS Film Festival - no charge, but please RSVP
- Campus Meal Plan - $75
- Accommodations: Dorm Housing or Hotel

*ABS Emeritus members who can afford to pay full fees are kindly asked to pay the ABS Members fee. This category should be reserved for only those Emeritus members who would be otherwise unable to join us at the meeting.

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

### Travel Information

Situated squarely in the center of the country, Chicago is easy to travel to from virtually everywhere. Thanks to thousands of flights options at two international airports, six class-one railroads, a vast network of major highways and a wide variety of airlines, it is one of the most cost-competitive and convenient cities for domestic and international travel.

#### BY PLANE

O'Hare International Airport, located 17 miles from downtown, is one of the largest airports in the world. It is North America's major international gateway airport, servicing over 67 million passengers to and from over 200 destinations around the globe. Midway International Airport is located 10 miles from downtown Chicago and offers another convenient travel option for visitors. It is the nation's premier point-to-point airport, offering value-oriented leisure and business travel to over 60 destinations.

Visit flychicago.com for details on parking, amenities, flight status, terminal maps and more for both O'Hare and Midway airports.

Average Domestic Flight Times to Chicago
Average International Flight Times to Chicago

Both airports offer plentiful taxi service to downtown and the suburbs. Rates range from $40-50 from O'Hare, and $30-40 from Midway. Rates vary based on travel time and are subject to change.
The Chicago Transit Authority serves both airports for easy and economical travel between downtown and Chicago neighborhoods using the "L" train. The 24-hour CTA Blue Line connects directly to O'Hare and the CTA Orange Line connects directly to Midway. Read more on getting around Chicago with public transportation or visit transitchicago.com/airports for full fare information and maps.

GO Airport Express provides shared ride services to all downtown/suburban hotels and many businesses. Pair fares and group discounts are available along with customized reservation portals for your groups.

Many major car rental companies have facilities at the O'Hare and Midway Airports, including Avis, Alamo, Budget and Hertz. Please visit specific rental company websites for details.

Limousine and chauffeur agencies prefer that all customers reserve cars at least 48 hours in advance although cars can occasionally be ordered with a two-hour notice.

BY CAR

With its central geographic location and status as a hub for major interstates, Chicago is convenient to drive to from every region in the country. In fact, more than 20 million people live within a three-hour drive of the city.

Average Drive Times to Chicago

Chicago is accessible via several major interstates and highways: I-90 (Kennedy Expressway), I-94 (Dan Ryan Expressway), I-55 (Stevenson Expressway), I-290 (Eisenhower Expressway), I-294 (Tri-State Tollway).

Parking:

Attendees will need to purchase UIC parking passes in person in the parking office located inside SSB (1200 W. Harrison, Suite 2620). Please note you will not be able to reserve passes prior to their arrival.

Behaviour 2019 attendees can use the following lots: Nearest UIC Forum/JST dorms: Maxwell Street Parking Structure - 701 West Maxwell Street. Nearest Student Center East: Halsted/Taylor Parking Structure -760 West Taylor Street.

Parking Fees: Weekday rate is $15, Weekend rate is $9.

Accommodations: SOLD OUT

Courtyard (CTY) and Commons South (CMS), located on the East side of campus, will be available for conference attendees.

CTY & CMS

$48.00 pp Single/ $39.00 pp in Double Room

700 South Halsted Street, 2nd Level
Chicago, IL 60607
312-355-6300

South Campus

CTY houses students in clusters, typically of three doubles and two single rooms sharing a common bathroom. Commons South (CMS) is a five-story traditional residence hall of double rooms, which open into a common hallway with two community bathrooms shared by each floor community. This building has two single sex floors, with females on the second floor and males on the third floor. The tower lounge has a magnificent view of the Chicago skyline.

James Stukel Towers (JST), located on the South side of campus, will be available for conference attendees as well on South Campus report to the Front Desk to check-in and to check-out.

JST

$61.00 pp Single/ $47.50 pp in Double Room

James Stukel Towers (JST)
718 West Rochford Street
Chicago, IL 60607
312-355-6300

DEADLINE TO MAKE YOUR UIC DORM RESERVATIONS IS: JULY 12, 2019 (WHILE ROOMS ARE AVAILABLE)

All reservations must be made through the UIC using the link here: https://goo.gl/forms/wiliPdXEk2cybbHu1

Off-Campus Accommodations: PAST GROUP RATE DEADLINE

Note to attendees with reservations at the Chicago Marriott Medical District/UIC. The ABS has been made aware of a Union strike occurring at Chicago Marriott Medical District hotel after the reservations deadline. For more information please follow: https://www.boycottmarriottmedicaldistrict.org/

Alternative accommodations can be made at the University dorms.

Chicago Marriott at Medical District/UIC
625 S. Ashland Avenue at Harrison Street
Wheelchair-accessible rooms with 1 king bed or rooms with 2 queen beds are available.

Hotel does not offer shuttle service but are walking distance to UIC campus.

NOTE: Breakfast is not included in the rate but is available to add at $10 per person inclusive of tax and tip.

Meal Plan:
Attendees will have the opportunity to purchase at the time of registration. The Meal Plan intended to cover 4 lunches and 3 dinners over the conference dates. Delegates who purchase the plan will receive a declining balance card which can be used at 605 Commons (SCE) and JST Café (JST). Flames Fare may be used at any time in any of the participating locations. All dietary requirements can be met including vegan and gluten free. UIC offers summer guests “all-you-care-to-eat” dining in the cafeteria at Student Center East. Guests may eat all they want while in the cafeteria but nothing may be taken out of the cafeteria.

Meal Plan: $75 USD

For those who do not wish to purchase the meal plan card, there are eateries in and around campus but will be limited to Summer hours. More information regarding hours of operation will become available here as we receive information.

UIC Student Center East Eateries

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Meeting Plenary Sessions and Symposia

Keynote & Plenaries

**Georgia Mason**
University of Guelph

*Keynote Lecture: A palace or a prison? Behavioural differences between species can predict responses to life in captivity*

Animal welfare science seeks to assess and improve the well-being of the 100s of billions of animals kept or killed by humans. Like conservation biology, its research questions range from applied (e.g. what are the most humane ways to kill chickens?) to fundamental (e.g. which species and life stages are sentient?). Research approaches may involve physiology or immunology, but ethology plays a crucial role. For one, behavioral responses (e.g. alarm calls; stereotypic behavior) can be useful welfare indicators: conspicuous, easy to measure, and valid (since intrinsically linked to affective states). In addition, restricting natural behavior is a major source of welfare problems. My talk will review examples of the latter in zoo animals, and in parrots kept as pets, to show how evolved behavioural differences between species can predispose them to good or poor welfare in captivity. I will present comparative evidence that constraining natural foraging or ranging behaviour can compromise well-being in zoos and aviaries; and draw parallels between coping with 'HIREC' (human-induced rapid environmental changes, for example urbanization or habitat fragmentation) and coping with captivity.

**Tanya Berger-Wolf**
University of Illinois at Chicago

*Computational Behavioral Ecology*

Computation has fundamentally changed the way we study nature. New data collection technology, such as GPS, high definition cameras, UAVs, genotyping, and crowdsourcing, are generating data about wild populations that are orders of magnitude richer than any previously collected. Unfortunately, in this domain as in many others, our ability to analyze data lags substantially behind our ability to collect it. In this talk I will show how computational approaches can be part of every stage of the scientific process of understanding animal sociality, from intelligent data collection (crowdsourcing photographs and identifying individual animals from photographs by stripes and spots) to hypothesis formulation (by designing a novel computational framework for analysis of dynamic social networks), and provide scientific insight into collective behavior of zebras, baboons, and other social animals.

**Amy Toth**
Iowa State University

*Building the Superorganism: Integrative insights into the evolution and regulation of insect sociality*

The evolution of superorganisms, such as eusocial insect colonies composed of highly cooperative individuals working together as a single whole, has been described as a major transition in the history of life. The question of *why?* has this extreme form of cooperation evolved has been of intense interest to biologists since Darwin. Now, armed with new tools and technologies, animal behaviorists have turned to ask *how?* has this revolutionary change in life history evolved? Wasps and bees are excellent comparative study systems for addressing such
questions, because they are extremely diverse taxonomically and socially; with multiple independent origins of sociality. Using an integrative approach that blends behavior, physiology, and genomics, our studies on bees and wasps are providing new insights into the mechanisms and evolution of cooperative societies. I will discuss some of these, including: 1) elements of maternal behavior and reproductive physiology becoming “retooled” by evolution for new social purposes, 2) the role of resource limitation and nutritional inequalities in the regulation of cooperative behaviors, 3) incremental changes in social state based on evolutionary shifts in gene regulation based on existing phenotypic plasticity, 4) roles for both deeply conserved “toolkits” as well as newly evolved genes in the evolution of social traits. These studies contribute to a developing picture of the molecular, organismal, and ecological processes that have enabled the evolution of biological complexity.

Neeltje Boogert
University of Exeter

Effects Of Early-life Stress On Learning Strategies

The use of information provided by others is a common shortcut adopted to inform decision-making. However, instead of indiscriminately copying others, animals are often selective in what, when and whom they copy. How do they decide which learning strategy to use? My research suggests that stress hormone exposure early in life may be important. While developmental stress is often thought to hamper cognitive performance, I will argue that ecologically relevant levels of early-life stress may instead determine how individuals balance the use of different sources of information. Furthermore, early-life stress can also change individuals’ interactions with group members, which in turn can affect access to information sources and subsequent information use. I will argue that an information use approach may lead to different insights concerning individuals’ cognitive performance than one in which individuals are ranked based on their perceived ‘intelligence’.

Gail Patricelli
University of California, Davis

Fellow’s Lecture: Robots, Telemetry, & the Sex Lives of Wild Birds: Using technology to study courtship and conservation

Males in many species must convince females to mate by producing elaborate courtship displays tuned to female preferences, like the song of a cricket or the train of a peacock. But courtship in many species is more like a negotiation than an advertisement, thus in addition to elaborate signals, success in courtship may require tactical skills. These skills may include the ability to choose a flattering display site, respond appropriately to female courtship signals, and adjust display investment in response to the marketplace of other males and females. My lab has been investigating courtship negotiations in greater sage-grouse, which mate in an open marketplace of competing males and choosing females (the lek). I will discuss experiments using robotic females to investigate courtship interactions between the sexes. I will also discuss ongoing research investigating how off-lek foraging behaviors affect on-lek displays, and how this basic science has informed my lab's research into human impacts on lekking activities.

John P. Swaddle
College of William & Mary

Promoting animal behavior to tackle global challenges

As a discipline, animal behavior, sits at the interface of the organism and its biotic and abiotic environment. Behavioral flexibility and selection on behaviors often mediate how animals (and other organisms) persist in environments and respond to environmental change. Hence, animal behavior should be a discipline that takes the lead in tackling some of society’s largest biologically-relevant problems (e.g. health, food security, conservation, sustainable development). I will describe several case studies where we have used a fundamental understanding of animal behavior to help solve persistent global problems, all related to avian behavior and ecology. For example, I will describe how an understanding of birds’ perception of risk and threat has led to us develop a new technology that has proven useful in reducing damages by birds to crops, without habituation. This technology will also improve aviation safety by reducing bird-aircraft strikes. Further, I will describe how birds’ perception of environmental cues in flight is leading us to develop better technology for reducing birds’ risk of collision with large human-made structures, such as communication towers, wind turbines, and high-rise buildings. Broadly, I will propose that many global challenges in health, food security, conservation, and sustainable development relate to animal behavior. The integrative approaches that many behaviorists adopt and the wealth of fundamental knowledge within our community could be harnessed to produce more reliable solutions.
Symposia

Animal Behaviour On An Urbanized Planet
Organizer: James Chadwick Johnson

As more than ½ of the human population now lives in rapidly expanding urban centres, urbanization is a particularly important example of ‘human-induced rapid environmental change’ (HIREC). The impact that urbanization has on the biota and ecosystems around us has unknown consequences for the long-term sustainability of habitats (both human and non-human). We will present a symposium, well-balanced across taxa, that addresses several emerging themes in the behavioural ecology of urban organisms. In particular, we aim to highlight theory and data that address the intuitive idea that behavioural plasticity in these rapidly changing environments is key for the success of urban organisms. Second, we ask participants to emphasize the benefits of coupling mechanistic and functional approaches in studies of urban behaviour. Third, we address a relatively new theme in urban ecology by examining the implications of spatial/environmental heterogeneity within and across cities. Indeed, this latter issue has the potential to help us understand (predict) how HIREC can affect behaviour (and potentially biodiversity) differently across the landscape. We bring a vibrant and diverse group of symposium participants (e.g. researchers from varied career stages and histories of ABS participation) and a pair of seasoned urban behavior researchers as organizers that will shepherd the discussion to yield the highest impact.

Speakers: James Johnson, Megan Kobiela, Kevin McGraw, Mark McDonnell, Oriol LaPiedra, Julie Young, Seth Magle

Cross-taxa Perspectives On Behavior And Developmental Origins
Organizers: Stacy Rosenbaum, University of Notre Dame and Elizabeth Archie, University of Notre Dame

The developmental origins of later life outcomes, including health, fitness, and life history variables, are still murky in most biological systems. Although experimental work has shed some light on the physiological and (epi)genetic mechanisms regulating the connection between early (or even pre-conception) experiences and later outcomes, behavior is a relatively underexplored frontier in the developmental origins literature. This session will curate papers that integrate developmental origins questions and behavioral data in a range of animal species. Understanding how behavior mediates relationships between early experience and later outcomes is crucial for testing, shaping, and refining foundational theoretical frameworks to understand early life effects. For example, behavior contains important information about how and why organisms make the life history tradeoffs they do, helping us distinguish amongst competing models of the connection between experiences and outcomes that may be removed by months, years, or even decades.

A complete understanding of developmental origins requires both proximate and ultimate levels of explanation. Research on captive populations, which provides critical experimental control and the ability to test causality, needs to be paired with work on wild populations, where organisms are subject to the context and selective pressures that shaped their evolutionary history. Therefore, this session will contain a mix of participants who study wild and captive populations. It will include papers that focus on animals whose life histories span the slow-to-fast continuum, to highlight where (and where not) lessons learned from one end of the spectrum can be applied to the other.

Speakers: Ben Dantzer, Christopher Kuzawa, Amanda Lea, Jill Mateo, Ken Norris, Denis Reale, Stacy Rosenbaum, Oliver Schuelke, Elinor Sullivan

Proximate Mechanisms Of Complex Sociality
Organizer: Emily H. DuVal and Blake C. Jones

Complex social behaviors are an essential part of the lives of many animals, and are shaped by needs for reproduction, foraging, and survival. These social behaviors range from aggressive interactions to cooperation to parental care, and vary considerably both within and among species. The integration of molecular genetics, neurobiology, and physiology with animal behavior have garnered new insights into the proximate causes and consequences of complex sociality. Understanding the proximate mechanisms of social behaviors will help us better understand the adaptive function of these behaviors and ultimately the evolution of sociality. This symposium showcases recent advances in our understanding of the proximate regulation and mediation of animal sociality from the perspective of a variety of fields of study, and to highlight areas of developing research.

Speakers: Bruce Cushing, Alex Jordan, Jenny Tung, Aubrey Kelly, Alex Walton, Blake Jones, Emily DuVal, Rebecca Calisi

Behavioural Plasticity: Integrating Variation Within And
Among Individuals And Species
Organizers: Ned Dochtermann, Jennifer Hellmann, Kate Laskowski and Julie Morand-Ferron

Over the past several decades, significant advances have been made in documenting behavioural plasticity across individuals, populations, and species as well as identifying its proximate and ultimate mechanisms. Our symposium aims to highlight recent advances in the study of behavioural plasticity in relation to: the sources and consequences of within-individual variation; transgenerational effects; and the evolution of innovativeness and learning across populations and species. First, we will highlight recent statistical advances in modelling within-individual and genotype plasticity in behaviour, novel insights into the underlying mechanisms of this variation, and its ecological consequences. Second, we will explore how variation in parental experiences (e.g., predation) and parental care induce plasticity in offspring phenotypes. In this regard, we will discuss the relative influence of maternal and paternal effects as well as interactions between genetic variation, early life experiences, and parental experiences. Finally, we will move beyond individuals to discuss how species level variation in behavioural plasticity is crucial to species persistence in a changing environment and reflects aspects of brain function and evolution. We highlight advances in our understanding of the evolution of innovativeness, learning and the brain, stemming from a diversity of approaches including large-scale comparative studies, artificial selection experiments, and the study of intraspecific variation in natural populations. Collectively, we aim to stimulate future research into the causes of variation in behavioural plasticity and its evolutionary significance.

Speakers: Rahia Mashoodh; Abraham Kuijper; Sarah Donelan; Jennifer Hellmann; Alex Kotrschal; Louis Lefebvre; Jean-Nicolas Audet; Daniel Sol; Julie Morand-Ferron; Kate Laskowski; Julia Saltz; Judy Stamps; Benjamin de Bivort

Embracing The Complexity Of Animal Social Systems Using Multilayer Network Analysis
Organizers: Matthew Silk, David Fisher, and Matthew Hasenjager

Social network analysis has generated substantial insight into how behavioural interactions and social relationships within animal populations shape key evolutionary and ecological processes. Previously, social networks have typically been constructed that consider only a single interaction type or aggregate multiple forms of interaction or association within a single network. In reality, animal sociality is multi-faceted, e.g. animals mate, fight, cooperate and compete with one another, and important feedbacks exist between these different relationships. Moreover, animal networks are dynamic systems embedded within the physical environment and wider ecological community whose structure and properties can shift over time. New analytical tools are needed to disentangle the impacts of such interdependencies on social processes, especially given the ever-increasing availability of high-resolution data on many different interaction types. Multilayer network approaches can account for the interconnected nature of animal socio-ecological systems by enabling multiple networks to be analysed within an integrated framework. For example, multiple behavioural interactions can be combined within a multiplex network, or social and spatial networks can be combined within interconnected networks. Therefore, multilayer networks offer a powerful approach for understanding the complexity of animal sociality, from teasing apart how social relationships develop within groups to establishing how movement networks shape population connectivity. Our symposium will provide an opportunity for collaborations between network scientists working on multilayer approaches, ecologists, and animal behaviour researchers. We will set out how multilayer approaches can contribute to key questions in behavioural ecology and provide a practical introduction to key analytical approaches.

Speakers: Noa Pinter-Wollman; Kelly Finn; Louise Barrett; Sandra Smith-Aguilar; Subhadeep Paul

The when, why and how of new animal conversations
Organizers: E. Dale Broder and Robin Tinghitella

Brief session summary: Signals used in animal communication are often under stabilizing selection ensuring that senders and receivers speak the same language. Individuals that send signals outside of the norm may not be seen or heard, and receivers that do not perceive or appropriately respond to signals could be left out of the conversation. How, then, do novel signals evolve? We know very little about the mechanisms that would favor the maintenance and fixation of a new signal, and next to nothing about the matching changes that must occur in the receiver to produce a coupled response. This symposium will include ultimate musings on how interactions among selective forces may lead to novel signals as well as conversations about mechanistic approaches exploring the genetic and physical processes involved in signal production and reception.


A long-standing challenge in behavioral biology has been to explain the evolution of elaborate and conspicuous mating displays. Emerging research programs on this topic are plumbing, in new ways, the physiological and biomechanical bases of display performance, and testing if and how variation therein might influence display function. This work aims to de-emphasize generic measures of signaler quality and condition, and instead favor analyses of specific organismal traits that link directly to display attributes including vigor, skill, and consistency. Speakers in this symposium will discuss their own research on these topics, and consider how research on display mechanisms inform our broader understanding of animal communication and sexual selection.

**Speakers:** Sue Bertram; Mark Briffa; Marcela Fernandez-Peters; Franz Goller; Rebecca Koch; Lisa Mangiamele; Jeff Podos; Barney Schlinger

### Allee Symposium for Best Student Paper

Organizer: Esteban Fernandez-Juricic, ABS Second President-Elect

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 2019 ABS Allee Session, students will present their research to ABS members and talk judges.

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**ABS Newsletter**

Please send general correspondence concerning the Society to ABS Secretary, Patty Brennan (secretary@animalbehaviorsociety.org). Deadlines for materials to be included in the Newsletter are the 15th of the month preceding each issue. The next deadline is 15 September, 2019. Articles submitted by members of the Society and judged by the Secretary to be appropriate are occasionally published in the ABS newsletter. The publication of such material does not imply ABS endorsement of the opinions expressed by contributors.

**Animal Behaviour**

**Animal Behaviour, manuscripts and editorial matters:** Authors should submit manuscripts online to Elsevier’s Editorial System (http://ees.elsevier.com/anbeh/). For enquiries relating to submissions prior to acceptance, contact the Journal Manager (yanbe@elsevier.com). For enquiries relating to submissions after acceptance, visit Elsevier at http://www.elsevier.com/journals. For other general correspondence, contact Kris Bruner, Managing Editor, Animal Behaviour, Indiana University, 407 N. Park Ave., Bloomington, IN 47408, USA. E-mail: krbruner@indiana.edu. Phone: 812-345-0497

**Change of address, missing or defective issues:** ABS Central Office, 2111 Chestnut Ave., Ste 145, Glenview, IL 60025, USA. Phone: 312-893-6585, Fax: 312-896-5614, E-mail: info@animalbehaviorsociety.org.

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Pre-conference Workshop & Events

ABS 2019 Outreach Fair

Organized by the ABS Education Committee

Tuesday, July, 23 from 10:30am - 1:45pm
Keynote Speaker: Seth Magle, Lincoln Park Zoo, 2PM -3PM in Illinois A at UIC's Student Center East building
Location: East Terrace at UIC's Student Center East building

Faculty members and graduate students representing over a dozen animal behavior research laboratories from across the US, Canada, South America and Australia will offer multiple activities highlighting current research questions, as well as the tools and techniques used in field research. Using interactive displays, activities, and live animals, learn more about how insects, frogs, fish and mammals help scientists to learn more about how our brains, bodies, and world works. Listen to insects walk, get up close and personal with reptiles, make your own cricket song, blow dart a ‘baboon,’ radio-track a mouse, and hear popular songs through the ‘ears’ of other animals. Activities will be available for children of all ages!

Animal Behavior Lab Activities: Engaging Students in the Science of Animal Behavior

Organizer: Heather Zimbler-DeLorenzo, Laura Sirot, Andrea Bierema, Deborah Boege-Tobin, and Karyn Collie

Tuesday, July, 23 from 1:00pm - 5:00pm
Location: Illinois C, UIC's Student Center East building

Are you a hawk or a dove? Have you ever seen earwigs taking care of their young? Come find out and learn about other ideas for lab activities, including simulations, research skills, and experimental design. At this year’s Education Workshop, participants will learn about different potential learning goals of lab activities and will participate in three different hands-on activities. Presenters will discuss how these ideas were developed and provide opportunities to discuss ideas for adapting these ideas for your own goals, as well as challenges in implementing them. This workshop is free. To attend this workshop please, pre-register here: https://fs9.formsite.com/ASERhq/eeegqjg8jm/index.html


Organizer: Barbara Clucas, ABS Conservation Committee Chair

Tuesday, July, 23 from 9:00am - 4:00pm
Location: Room 613, UIC's Student Center East building

The Conservation Committee is hosting a workshop again this year, and more information will be posted here once details are available. Fee to attend: $25 non-students, $20 students, and $5 Developing Nations attendees.

Weaving the Future of Animal Behavior Workshop

Organizer: Emilia Martins

Tuesday, July, 23 from 8:00am - 5:00pm
Location: Room 302, UIC's Student Center East building

The Weaving the Future of Animal Behavior workshop is an annual event for early-career professionals in animal behavior.
The workshop will consist of panel discussions and other activities on topics such as developing a funding strategy, building a research group, time management, teaching strategies, and professional networking. At the end of the workshop, we will form peer-mentoring circles that will continue to meet via video-conferencing throughout the subsequent year.

Developing A Concept Inventory To Evaluate Student Learning In Undergraduate Animal Behavior Courses

Organizer: Ben Dantzer

Tuesday, July 23 from 9:00am - 1:00pm
Location: Illinois B, UIC's Student Center East building

The workshop is free and any ABS attendee is encouraged to attend.

Undergraduate courses in animal behavior are taught across the world and are often the gateway into a career in the natural sciences. However, there is currently no common tool to evaluate student learning across animal behavior courses. Concept inventories are widely used in the natural sciences as a robust way to assess comprehension of course materials. They are a jargon-free list of multiple choice questions that are developed for the core competencies of a specific discipline and are carefully validated (e.g., document misconceptions, list learning goals, evaluate efficacy). A concept inventory does not yet exist for animal behavior. The aim of this Behaviour 2019 workshop is for attendees to design a concept inventory for animal behavior. Invited workshop participants will be diverse in gender, race, career stage, level of analysis (mechanism, function) and taxonomic focus of their research. The workshop will be advertised and open to all Behaviour 2019 attendees. The outcome of the workshop will be a finalized list of core competencies and misconceptions in animal behavior. After soliciting feedback and modifying the list accordingly, we will validate the concept inventory by circulating it to instructors of animal behavior courses. After publication, this would be a widely available tool used to assess comprehension of the discipline of animal behavior.

ABS Silent Auction Reminder

Bring Items to Chicago to Donate!!

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

What kind of items or services seem to be desirable?

- Books on Animal Behavior, Biology, Ecology, Conservation, Applied Animal Behavior, etc
- Autographed books from ABS authors
- Items with animal themes (t-shirts, jewelry, calendars, decor, greeting cards, posters, etc.)
- Software useful for members (statistics, data collection, etc.)
- Videotapes for teaching or entertainment with behavior themes
- Donations from zoo gift shops
- Memorabilia from past ABS meetings and members (vintage artifacts)
- Animal Photography
- Animal Artwork
- Statistical consulting, behind-the-scenes tour of the zoo, etc.
- Items from past meetings
- Time in privately owned vacation homes
- Anything legal that appeals to ABS Members!!
- Items that you donate for the auction will be placed at the meeting on tables next to bidding forms, or described if the item is not present.

During the meeting, members will visit the tables and bid on items by entering their bid on the bidding form. The auction will continue for several days while members bid against one another. The member with the highest bid at the deadline wins the item and takes it home with them.

Drop your items at the Registration Desk! Or if you can't make it to the meeting and you would still like to participate, you can mail it ahead to the campus. Just let us know what you will donate and we can provide the mailing address.

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

Contact the ABS Central Office About Your Donations: info@animalbehaviorsociety.org

Student-Faculty Networking Lunch

Organizer: Patrick Green, ABS Graduate Student Representative

Graduate student or postdoc interested in talking with faculty about research interests, the job process, or other questions
Studenst and faculty are matched and bring or buy their own lunch while meetinf with faculty and a small group of peers on during the conference.

Please contact Graduate Student Representative, Patrick Green, gradstudentrep@animalbehaviorsociety.org with any questions.

**NSF Workshops**

**NSF Directorate for Biological Sciences News and Updates**
Wednesday July 24th @ 12:15pm

NSF Information Sign Up

**NSF Beginning Investigators: Tips for Crafting a Competitive Proposal**
Thursday July 25th @ 1pm

NSF Beginning Investigator Sign Up

**Elsevier Update and Feedback**
Thursday, July 25th @ 1pm

*Illinois B*

This meeting will provide a venue for discussing the Animal Behaviour journal’s relationship with its current publisher (Elsevier) and Elsevier’s business model. All are welcome.

**3-Minute Thesis Competition**
Friday, July 26 @ 4:15pm

*Room 613*

The Public Affairs Committee will organize the third annual 3 MT competition at the 2019 meeting. The following description is taken from the creator’s website: “Three Minute Thesis (3MT®) celebrates the exciting research conducted by PhD students around the world. Developed by The University of Queensland (UQ), the competition cultivates students’ academic, presentation, and research communication skills. Presenting in a 3MT competition increases their capacity to effectively explain their research in three minutes, in a language appropriate to a non-specialist audience. Competitors are allowed one PowerPoint slide, but no other resources or props”. We encourage all graduate students to consider participating in this event, particularly if they have fewer outreach opportunities at their home institution. Please email public.affairs@animalbehaviorsociety.org with any questions. To register please complete the application in the link below. **Please sign up by Friday, July 19.**

https://forms.gle/ER6dmWVVpthsMqabA

**Lunch with ABS Historian, Zuleyma Tang-Martinez**
Saturday, July 27 @ 1:00pm

*Room 603*

Come and chat about everything you always wanted to know about the history and inner working of the ABS. Please bring your own lunch to this event.

**2019 Public Day**

**The Modern Dog: In & Out of the Shelter**
Saturday, July 27th | Time: 9:00AM-1:00 PM | Student Center East building, Room 302
Free and open to the public. No registration required.
Organized by the ABS Applied Animal Behavior Committee and Certified Applied Animal Behaviorists

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<tr>
<th>Name</th>
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<tr>
<td><strong>Introduction</strong></td>
<td>9:00am</td>
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<tr>
<td><strong>Barbara Pezzanite, PhD, CAAB, CPDT-KA</strong></td>
<td>9:05am</td>
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<td>Improving the Well-Being of Dogs In and Out of the Shelter Through Training and Enrichment</td>
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<td><strong>Erica Feuerbacher, PhD, BCBA-D, CPDT-KA</strong></td>
<td>9:35am</td>
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<td>Foster Dogs as Temporary Pets: You, Your Dog,</td>
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and the Shelter Dog Sleepover

Victoria Cussen, PhD, CAAB
A Dog Is Not a Dog: Individual Differences and Implications for Mental Well-being

Terri Bright, PhD, BCBA-D, CAAB
Transitions: The Devilish Behavior Is in the Details

Break

Steve Dale, CABC
Fear FreeTM: Be the Change

Speaker Panel

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Christopher Templeton, Pacific University, E-mail: mematlarge3@
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Suzy Renn, Reed College, E-mail: mematlarge3@
animalbehaviorsociety.org

ABS Newsletter
Please send general correspondence concerning the Society to ABS

Animal Behaviour
Animal Behaviour, manuscripts and editorial matters: Authors
2019 Grant Awardees

ANNOUNCING THE 2019 STUDENT RESEARCH GRANT AND DEVELOPING NATIONS RESEARCH AWARDS

Melissa Hughes, 1st Member-at-Large
Chair, 2019 Student Research Grant Committee

We are pleased to announce the recipients of the 2019 Student Research Grants and the Developing Nations Research Awards. We received many high-quality proposals, but as in previous years, the number of applications exceeded the number we could fund. We received a total of 168 applications across award categories (up from 95 last year), and were able to award funding to 57.

Each proposal was reviewed independently by at least 2 referees, who provided evaluations and constructive feedback for the student grant writers. As always, members of the Society went above and beyond to provide constructive reviews. The Research Grant Committee extends a very heartfelt thank you to the following referees:


We were helped immensely by Lorena McMahon and Adam Kolm at SPLTrak, who administered the online grant submission and review system that ran very smoothly. Chris Templeton (2nd Member-at-Large) and Suzy Renn (3rd Member-at-Large) made important contributions during the entire process. Thank you to them also. Most importantly, we want to thank all the members of the Society who have supported this program over the years and who have donated funds to make this program such a success.

GEORGE W. BARLOW AWARD

Iversen, Autumn, UC Davis, Migration Across Years: How Flexible are the Connections for a North American Songbird?

DAVID TUBER APPLIED ANIMAL BEHAVIOR AWARD

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<tr>
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<td>Optimizing Vigilance with Pavlovian Instrumental Transfer in Detection Canines</td>
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**Members-at-Large:**
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- Christopher Templeton, Pacific University, E-mail: mematlarge3@animalbehaviorsociety.org
- Suzy Renn, Reed College, E-mail: mematlarge3@animalbehaviorsociety.org
Stephanie Menjivar, Sex and the City: Does Previous Exposure to Urban Noise Pollution Change Mating Behavior in Male and Female Chorus Frogs?

Amy Miles, Title: With Experience Comes Wisdom...; and Prolactin: Understanding the Mechanisms of Increased Breeding Success with Pair Experience

Tracy Montgomery, Adaptive Function of Social Play Behavior

Christina Nord, A Cross-Troop Analysis of Social Learning in Wild, Non-provisioned Vervet Monkeys (Chlorocebus pygerythrus)

Rachel Petersen, Mechanisms of Pre- and Post-copulatory Female Mate Choice in a Non-human Primate

Imran Razik, Individual Variation in Cooperation in the Common Vampire Bat (Desmodus rotundus)

Nicola Rossi, Effects of global warming on mechanisms of sexual selection, reproductive effort and social dynamics of Tropidurus spinulosus

Michael Rowley, Investigating the Cognitive Impairment Hypothesis in Wild Hybrid Populations

Amanda Savagian, The Role of Collective Signaling During Intergroup Conflict in a Cooperatively Breeding Bird

Sebastian Stockmaier, The Role of Sickness Behaviors on the Formation of a Cooperative Relationship

Katrina Switzer, The Physiological Mechanisms and Behavioral Functions of Dynamic Sexual Dichromatism in an Explosively Breeding Tropical Toad

Katherine Taylor, Genetic Underpinnings of Species-Specific Mating Songs in a Group of Insects

Silvy van Kuijk, The Effects of Anthropogenic Noise on Acoustic Communication and Social Behavior of Primates in the Ecuadorian Amazon.

Grace Vaziri, Assessing the effect of urban food supplementation on bird-parasite interactions in the Galápagos Islands

Whitney Walkowski, Retinal Physiology Influences Mate Choice Behavior in the Green Tree Frog (Hyla cinerea)

William Waller, Identification of Candidate Genes Underlying Variation of Courtship Song in a Diverse Group of Hawaiian Crickets (Genus: Laupala)

Rebecca Westwick, Aggression in Honey Bees (Apis mellifera) May Be Socially Transmitted Through Familial Care That Is Mediated by Multiple Pheromones

Sierra Williams, Long-term behavioral effects of simulated early infection in Zebra Finches

Russell Winter, How resource availability on the natal territory influences the decision to help in the cooperatively breeding acorn woodpecker (Melanerpes formicivorus)

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**DEVELOPING NATIONS RESEARCH AWARDS**

Debottam Bhattacharjee, Understanding the effects of human socialisation on behavioural outcomes of Indian free-ranging dogs

João do Valle Pereira, Cooperation and competition on the human side of a dolphin-fishermen interaction

João Menezes, Eyes in the back of their heads: investigating the function of pygmy-owls' false eyes

Rayane Oliveira, Effects of natural and anthropogenic noise on song in tropical mockingbirds

Luis Eduardo Robledo Ospina, COLOUR FIDELITY IN PREY SELECTION BY THE ARANEOPHAGIC Wasp Trypoxylon (Trypargilum) tridentatum tridentatum

Alexandre Marcel Silva Machado, Individual heterogeneity in the dynamics of dolphin-fishermen foraging

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**ANNOUNCING THE 2019 CONFERENCE TRAVEL AWARDS**

Congratulations to the recipients of the conference travel awards. These awards were administered by Chris Templeton, with the assistance of Melissa Hughes and Suzy Renn (the Members at Large or MALs). For both the Latin American Travel Awards and Graduate Student Travel Grants, two MALs independently rated each abstract, and those scores were combined with ratings of the submitted CVs to rank applications. Within those rankings, ties were broken by giving preference to PhD students and those who had not previously attended ABS. This year, we received many more deserving applications than we were able to fund, and appreciate the widespread interest in...
these awards. We were able to fund 5 of 22 applications for the Latin American Travel Awards, with each award set to $2000. LATA awardees for the 2019 conference are: [insert awardee names and institutions here] We were able to fund 24 of 188 applications for the Graduate Student Travel Grants, with each award set at $500. GSTG awardees for the 2019 conference are: [insert awardee names and institutions here] We were able to fund 5 of 17 applications for the Latin American Travel Awards. Award amounts varied this year to reflect travel costs from the students’ varied locations. LATA awardees for the 2018 conference are:

Victor Aguiar de S. Penha, Federal University of Paraná
Patricia Torres, Universidad de los Andes
Lia Kajiki, University of Brasília
Jimena Lois Milevicich, Universidad de Buenos Aires
Francesca Protti Sanchez, Universidad de Costa Rica

We were able to fund 24 of 88 applications for the Graduate Student Travel Grants, with each award set at $500. GSTG awardees for the 2018 conference are:

Victor Aguiar de S. Penha, Federal University of Paraná
Tracy Burkhard, University of Texas - Austin
Lauren Cirino, University of Florida
Katie Schroeder, University of Massachusetts
Sarah Westrick, University of Michigan
Lia Kajiki, University of Brasília
Jimena Lois Milevicich, Universidad de Buenos Aires
Francesca Protti Sanchez, Universidad de Costa Rica
Angela Riley, Oklahoma State University
Connie Rojas, Michigan State University
Shalene Shah, Columbia University
Katie Talbott, Indiana University
Iván Beltrán, Macquarie University
Debottam Bhattacharjee, Indian Institute of Science Education and Research Kolkata
Keren Klass, University of Toronto
Monica A. Mowery, University of Toronto Scarborough
Evangeline Rose, University of Maryland Baltimore County
Eduardo Sampaio, MARE - Marine and Environmental Sciences Centre
Annemarie van der Marel, University of Manitoba
Ben Vernasco, Virginia Tech
Rachael DiSciullo, Illinois State University
Elene Haave Audet, University of Alberta
Emilie Lefol, Université de Sherbrooke
Monique Pipkin, Pennsylvania State University
Tyler Pyle, Graduate Student
Patricia Torres, Universidad de los Andes
Eric Wice, Rice University
Sandra Winters, New York University
Nicholai Hensley, University of California, Santa Barbara
Hieu Pham, The University of Melbourne

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THE 2019 CAREGIVER TRAVEL GRANT
The Caregiver Travel Grant award provides financial assistance for active ABS members whose caregiving responsibilities for dependent persons would otherwise limit their ability to attend and present at the annual ABS meeting. Dependents include but are not limited to young children and aging parents and awarded funds can be used for caregiving responsibilities necessary while you're at the conference including expenses incurred for care at home or at the meeting as well as travel expenses for the dependent. Perhaps due to the increased awareness attributed to our recent survey (reported under “Caregiver Grant Survey”), we saw a substantial increase in the number of applicants for the Caregiver Travel Grant. As per the award description, we prioritized applicants presenting their work and adjusted the amount according to need (as estimated by career stage). We were able to award five graduate student members $500 each, four postdocs $350 each, two faculty $300 each and one ABS member from a developing nation was awarded $500. This distribution of funding allowed us to provide some assistance to all of the candidates who completed the application on time, were presenting at the meeting, and described a concrete need within the guidelines of the grant. The majority of these applicants described expenses surrounding childcare at the venue or travel to the venue, hence the executive committee will continue to evaluate the merits of onsite daycare at future venues. Awards were administered by Suzy Renn with assistance of Melissa Hughes and Chris Templeton (the Members at Large).

CAREGIVER GRANT SURVEY

In 2015, ABS instituted the Caregiver Grant, with the goal of supporting members whose caregiving responsibilities might limit their ability to attend and present at ABS meetings. In the years since, we’ve been surprised at the small number of applications we’ve received, and to better understand why that might be, we conducted a short survey earlier this spring.

We received 181 responses – many thanks to all who participated! Overall, support for the program appears quite high, and we look forward to working with the membership to ensure we are maximizing its effect. Below is a brief summary of the survey results. We plan on discussing these results further at this year’s Business Meeting, but of course we welcome comments and suggestions before then as well.

The responses revealed that we clearly haven’t been doing enough to inform the membership about the grant: 59% were unaware that all ABS members (students, post-docs, faculty, etc.) are eligible; 53% were unaware that funds could be used for either dependent children or other dependent family members; 73% were unaware that funds could be used for expenses associated with caregiving for the dependent at home while the ABS member is at the conference; and 52% were unaware that funds could be used to help support bringing dependent family members to the conference. Several folks noted in their comments that they were only learning about the details of this grant in the survey itself. Obviously, we need to do more to ensure that members who would benefit from these funds know to apply for them.

Most of the respondents (97%) had not previously applied for a Caregiver Grant. Of these, 49% had not applied because they did not have any dependent family members. Of the remaining 90 respondents, the responses similarly make clear the need for us to do a better job advertising this opportunity: when asked why they hadn’t applied, 47% said they were previously unaware of the grant; 29% didn’t realize they were eligible for the grant; 31% didn’t realize the flexibility in how funds could be used; and 9% didn’t realize their need for funds until after the deadline. 38% also expressed concern that if they applied for the grant, they may take funds from members who might need them more.

Most previous Caregiver awards have been for a maximum of $500; 65% of respondents thought this was an appropriate amount, 23% thought it was too small, 1% thought it was too large, and 11% choose “other”, with most of these respondents expressing uncertainty in their comments. (12 survey respondents left this question blank, and are excluded here.)

One suggestion raised at the 2018 Business Meeting was to set aside some funds for a ‘second round’ of applications closer to the meeting date, for changes in caregiving situations that occur shortly before the meeting and are therefore harder for members to plan for (note the 9% above who didn’t know they needed help until after the deadline). 72% agreed; as for what percentage of funds should be reserved for closer to the conference date, responses were quite variable and ranged from 0-80%; the median = 40%. In comments, however, several folks also noted that having an earlier deadline (before the registration deadline) could also be helpful, as some members may base their decisions as to whether they can attend the meeting on whether they receive caregiving assistance.

44 respondents left comments at the end of the survey. The majority of these comments (68%) expressed enthusiasm for the program; only 1 respondent expressed concern as to whether the use of funds in this manner was appropriate. The question of on-site childcare was raised in 6 comments; this is an issue we will continue to explore for future meetings. The issue of support for dependents other than children was raised in 4 comments, highlighting the need for flexibility in caregiving support.
Announcements

SOCIAL MEDIA AT BEHAVIOUR 2019!

We’re excited to promote a strong social media presence at the upcoming joint conference for ABS and ASAB: Behaviour 2019! Please use Twitter to advertise your presentation (oral and poster) and to discuss the amazing science you see at the conference.

The official conference hashtag is #Behaviour2019. Please also use @AnimBehSociety in your tweets, so you can reach as broad of an audience as possible. During the conference, we will be using Twitter for announcements, reminders, and for other initiatives.

ABS Social Media

We are continuing to be more active on Twitter (@AnimBehSociety) and other social media outlets. We hope to increase the exposure of the work of our society members (you!), and to take an active role in informing the public, policy-makers, and others about the importance of animal behavior research and what we do as scientists. To that end, we do need your help!

If you are active on Twitter, please mention @AnimBehSociety in tweets about your publications, outreach efforts, teaching, and other accomplishments. We will be happy to retweet them to increase the visibility of your work.

If you are not active on Twitter, please send an email to socialmedia@animalbehaviorsociety.org to let us know of your recent publications/accomplishments - we will get the word out for you!

A few other notes related to our shared efforts:

- Please do not tweet, send us, or mention @AnimBehSociety in any material that contains personal, politically-charged, or other sensitive items or opinions. We hope to keep our society’s social media presence professional.
- When sending us information about publications/accomplishments please give us a brief (~150 character) description of the work. Make sure this is accessible - avoid jargon and other things that might prevent a broad audience from understanding. Along these lines, consider sending us pictures of your research (field, lab, etc. without materials that may hurt sensitivities) along with the aforementioned brief description. We want to share with the world the enthusiasm of doing animal behavior research! Thank you in advance for your help in making our society better!

CALL FOR ABS MEETING INVITATIONS

ABS is seeking proposals for future meeting venues. Sites can be a resort or hotel, university campus or a mixture of the two. Contact ABS Past President: Jeffrey Podos: pastpresident@animalbehaviorsociety.org

CALL FOR 2020 SYMPOSIA

The 2020 Symposium/Workshop proposal form is now available here. Symposia and Workshops will be voted by the ABS Executive Committee at the 2019 meeting.

ANNOUNCING ISBE 2020

The 18th International Society for Behavioral Ecology Congress will be held in Melbourne, Australia from 27

**GIFT MEMBERSHIPS**

Consider giving your students and graduate students a gift membership to the Animal Behavior Society. It doesn’t cost much, supports your society, helps out our youngest members, and keeps our society growing. Simply contact the Central Office for more information on how to gift a membership: info@animalbehaviorsociety.org

**DONATING TO THE ANIMAL BEHAVIOR SOCIETY**

Contributions to the Animal Behavior Society are US tax-exempt under code 501(c)(3). DONATIONS make a big difference in our Society. YOU CAN HELP! The Animal Behavior Society is a non-profit organization dedicated to promoting the scientific study of animal behavior. We pride ourselves on being a top quality professional society with very low membership costs. Our Society supports and encourages animal behavior research and outreach through a number of programs and grants. With contributions from you, we can keep these programs in place and help to support animal behavior research, teaching, and outreach. Membership dues include a member’s subscription to our journal Animal Behaviour, the monthly Newsletter, and all of the operating expenses of the Society. In order to provide grants and other forms of financial support, we rely on contributions from members like you. Our members, especially our students, need your help. Please access our website to make contributions.

Thanks to a lot of hard work by SPLTrak, ABS is now set up to accept tax-deductible donations of stocks and bonds. Please consider optimizing your tax obligations and helping support ABS. Our student research grants are our biggest line item, and with the demise of the DDIG program they are more valuable than ever!

**JOIN AN ABS COMMITTEE!**

If you would you like to volunteer for one of the society's active committees listed below, contact the ABS President, E-mail: president@animalbehaviorsociety.org

**ABS STANDING COMMITTEE AND SUBCOMMITTEE CHAIRS 2019**

Animal Care Committee: Alexander Ophir, Department of Psychology, Cornell University, Ithaca, New York, US. E-mail: animalcare@animalbehaviorsociety.org

Conservation Committee: Barbara A. Clucas, Department of Wildlife, Humboldt State University, Arcata, California, US. E-mail: conservation@animalbehaviorsociety.org

Nominations Committee: Jeff Podos, Department of Biology, University of Massachusetts-Amherst, Amherst, Massachusetts, US. E-mail: nominations@animalbehaviorsociety.org

Education Committee: Heather Zimbler-DeLorenzo, Division of Biology, Alfred University, Alfred, New York, US. E-mail: education@animalbehaviorsociety.org

Film Committee: Barbara A. Clucas, Department of Wildlife, Humboldt State University, Arcata, California, US. E-mail: film@animalbehaviorsociety.org

Applied Animal Behavior Committee: Robin L. Foster, Department of Psychology, University of Puget Sound, Tacoma, Washington, US. E-mail: appliedanimalbehavior@animalbehaviorsociety.org

Public Affairs Committee: Danielle J. Whittaker, Michigan State University, Lansing, Michigan, US. E-mail: publicaffairs@animalbehaviorsociety.org

Board of Professional Certification Subcommittee: Sue Miller McDonnell, PhD, CAAB, University of Pennsylvania School of Veterinary Medicine Kennett Square, Pennsylvania US. E-mail: caab@animalbehaviorsociety.org

Latin American Affairs Committee: Lilian Tonelli Manica, Departamento de Zoologia, Universidade Federal do Paraná, Curitiba, Parana, Brazil. E-mail: latinamericanaffairs@animalbehaviorsociety.org

Student Research Grants Committee: Melissa Hughes, Department of Biological Science, Florida State University, Tallahassee, Florida, US. E-mail: studentresearchgrants@animalbehaviorsociety.org

Advancement and Investment Committee: Dan Rubenstein, Department of Ecology and Evolutionary Biology, Princeton University, Princeton NJ, US. E-mail: advanceandinvest@animalbehaviorsociety.org

Diversity Committee: Daniel Howard, Department of Biological Sciences, University of New Hampshire, Durham, New Hampshire, US. E-mail: diversity@animalbehaviorsociety.org

**Members-at-Large:**

Melissa Hughes, College of Charleston, E-mail: mematiarge2@animalbehaviorsociety.org

Christopher Templeton, Pacific University, E-mail: mematiarge3@animalbehaviorsociety.org

Suzy Renn, Reed College, E-mail: mematiarge3@animalbehaviorsociety.org
MEETINGS

BEHAVIOR 2019: A joint meeting of the 56th Annual Conference of the Animal Behavior Society and the 36th International Ethological Conference
July 23-27, 2019, University of Illinois at Chicago

OTHER MEETINGS

August 18-21, 2019- Canadian Society of Ecology and Evolution meeting, Fredericton, New Brunswick, Canada http://csee-scee.ca/category/meetings/upcoming-csee-meetings/
January 3-7, 2020- Society for Integrative and Comparative Biology (SICB) - Annual Meeting, Austin, TX. http://www.sicb.org/meetings/

ABS Newsletter

Please send general correspondence concerning the Society to ABS Secretary, Patty Brennan (secretary@animalbehaviorsociety.org).
Deadlines for materials to be included in the Newsletter are the 15th of the month preceding each issue. The next deadline is 15 September, 2019. Articles submitted by members of the Society and judged by the Secretary to be appropriate are occasionally published in the ABS newsletter. The publication of such material does not imply ABS endorsement of the opinions expressed by contributors.

Animal Behaviour

Animal Behaviour, manuscripts and editorial matters: Authors should submit manuscripts online to Elsevier’s Editorial System (http://ees.elsevier.com/anbeh/). For enquiries relating to submissions prior to acceptance, contact the Journal Manager (yanbe@elsevier.com). For enquiries relating to submissions after acceptance, visit Elsevier at http://www.elsevier.com/journals. For other general correspondence, contact Kris Bruner, Managing Editor, Animal Behaviour, Indiana University, 407 N. Park Ave., Bloomington, IN 47408, USA. E-mail: krbruner@indiana.edu. Phone: 812-345-0497

Change of address, missing or defective issues: ABS Central Office, 2111 Chestnut Ave., Ste 145, Glenview, IL 60025, USA. Phone: 312-893-6585, Fax: 312-896-5614, E-mail: info@animalbehaviorsociety.org.

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