



NASBR NEWSLETTER

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Welcome

Welcome to the second edition of *Lasiurus*, the official newsletter of the North American Society for Bat Research! In this issue, we describe the major happenings at our 2015 meeting in Monterey, as well as the planned highlights of our upcoming 2016 meeting in San Antonio. The past few months have seen some depressing bat news (see "In Focus" below), yet there is lots to be positive and hopeful about in terms of WNS management and bat conservation worldwide. For example, recent findings suggest that bats in Asia are resistant to *P. destructans*, which may indicate that some declining bat species in North America will eventually evolve resistance to the pathogen. On other fronts, a group of bat experts recently met to establish a research and conservation plan for the endangered Mexican long-nosed bat, *Leptonycteris nivalis*, which is native to Mexico and the United States. I am sure that we will hear about even more exciting bat research at our upcoming annual conference in October!

As in the past, please send story ideas, announcements and other contributions to me at Erin.Gillam@ndsu.edu.

Erin Gillam

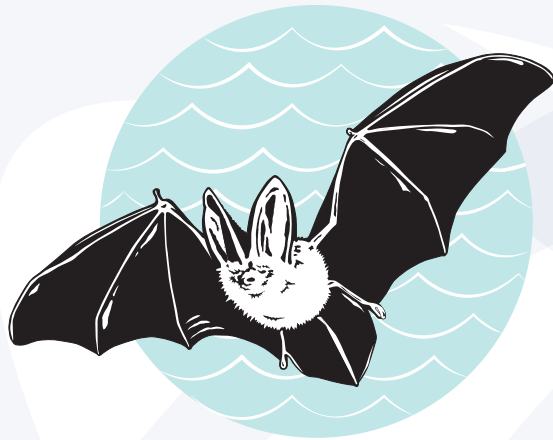
Board Member and Editor of *Lasiurus*

IN FOCUS

On March 31, 2016, The Washington Department of Wildlife and the US Fish and Wildlife Service made an announcement that was a shock to bat researchers and enthusiasts around the country - a little brown bat, *Myotis lucifugus*, had been confirmed to have died of White-Nose Syndrome in Washington state. The sick bat had been found by a hiker earlier that month and was submitted to the Progressive Animal Welfare Society (PAWS) for care. This is the first documentation of White-Nose Syndrome in the Western United States and represents a major jump from the next closest location in NE Minnesota, which is more than 1,500 miles to the East. At the upcoming NASBR meeting in San Antonio, TX, we will surely learn more about this spread to Washington and what this means for the management of this deadly pathogen.



May 2016 White-nose syndrome map courtesy U.S. Fish & Wildlife Service. Little brown bat found in western Washington. The fungus damaged the bat's wings making it unable to fly. Photo: Progressive Animal Welfare Society (PAWS)



LOCAL HOST REPORT

The 2015 North American Society for Bat Research convened their annual symposium in Monterey, California at the Monterey Plaza Hotel from Wednesday October 28th through Saturday October 31st. Field trips started on Tuesday with a whale watching trip in the bay and a kayak trip into nearby Elkhorn Slough on Wednesday morning. Local hosts Dave Johnston and Shahroukh Mistry worked closely with Program Directors Frank Bonaccorso and Gary Kwiecinski for the record breaking attendance for NASBR of 427 registrants. While 344 participants were from the 50 states of USA, another 83 were representing other countries or overseas U.S. territories comprising Argentina, Australia, Austria, Brazil, Canada, Costa Rica, Czech Republic, Finland, Germany, Guatemala, Italy, Japan, Kenya, Madagascar, Mexico, Panama, Puerto Rico, U.S. Virgin Islands, and the United Kingdom. There were 148 oral papers (41 student and 107 regular), 78 posters (26 students and 52 regular) for a total 226 presentations. The 427 registrants comprised 153 students, 262 regular, and 12 exhibitor attendees.

Local committee: Dave Johnston, Shahroukh Mistry, Winifred Frick, and Dave Wyatt. Registration volunteers included Samantha Chavez, Tina Cheng, Rebekah Christiansen, Elizabeth Gruenstein, Brian Kornelly, Elissa Olimpi, and Savannah Robinson. The NASBR 2015 logo was designed by Kelly Terry, a teacher from nearby Pacific Grove Middle School.

Conference Sponsors - We are grateful for the support of Pettersson Elektronik, Sonobat, Titley Scientific, Bat Conservation International, Wildlife Acoustics, and H. T. Harvey & Associates. Exhibitors at the conference included Wildlife Acoustics, Titley Scientific, CR Rainforest Experience, EcoTech, Lotek Wireless, Bat Conservation International, Holohil systems, Sonobat, and the U.S. Bureau of Reclamation.

Preconference Events: Both the whale watching trip with 52 persons and the kayaking trip with 26 participants sold out early. Participants on the kayaking trip observed 38 bird species and 3 mammal species and the participants on the whale watching trip listed 26 bird species and 6 mammal

species including great looks at humpback whales and Risso's dolphins. Dave Johnston organized and guided the trips.

Teacher's Workshop: Pat Morton coordinated a group of educators including Cindi Myers, Rob Mies, Dave Johnston, Stephanie Remington, and Janet Tyburec for a very successful workshop on Halloween. Teachers built 35 bat houses coordinated by Lee Mackenzie as a part of a record for Guinness World Record Contest, and Rob Mies brought spectacular live bats to share with the group.

Integrating Local Middle School Students with NASBR: As an additional education project for NASBR 2015, 8 middle school students and their teacher, Kelly Terry, from the nearby Pacific Grove Middle School worked with Dave Johnston to do a research project and presented a poster. The project took about 12 months from start to finish and Wildlife Acoustics provided a small grant to cover transportation costs.

Professor Robert Barclay asking local middle school students questions about their poster. (Photo: Peter Mounteer)



Publicity: The Monterey symposium received some great publicity thanks to several reporters and NASBR members including Rob Mies, Rick Adams and Paul Cryan, with at least one evening news spot on Salinas television featuring Paul Cryan, as well as the following eight newspaper articles"

Interest in bats takes wing on Monterey Peninsula – San Jose Mercury News

Bat conference lands of Cannery Row: – Monterey Herald

Interest in bats takes wing on Monterey Peninsula – Monterey Herald

Pacific Grove students hear what bats have to say – Monterey Herald

Vampire bats running for blood – Monterey Herald

Students present bat research at symposium in the Cedar Street Times

Interest in bats takes wing on Monterey Peninsula – East Bay Times

Interest in bats takes wing on Monterey Peninsula – Santa Cruz Sentinel

We give special thanks to our dedicated Board of Directors of NASBR, and in particular, the program committee. Co-hosts Dave Johnston and Shahroukh Mistry.

SPALLANZANI AWARDS

RUBEN BARQUEZ & PAUL WEBALA

2015 MONTEREY

In 2015, NASBR was excited to award two Spallanzani fellowships to exceptional bat researchers that are doing very important research on the biology and conservation of bats in their respective regions of the world.

Dr. Ruben Barquez was awarded a Senior Spallanzani Fellowship for this pioneering work on the biodiversity of bats in Argentina. Dr. Barquez is a Professor at the University of Tucumán, Argentina. It is difficult to fit all of Dr. Barquez' accomplishments and contributions in a small space. He serves as the Director of the Program for Investigations of Biodiversity of Argentina and Principle Researcher for the National Council of Scientific and Technical Research. In terms of bat conservation, he is a member of the Board of Directors of RELCOM and has been key in spearheading the AICOM initiative, which focuses on identifying key areas for bat conservation in Latin America. He was also a founding member and president of the Argentine Society of Mammalogists and the Program for Conservation of Bats of Argentina. Dr. Barquez' research on the bats of Argentina has covered a diverse array of topics, from documenting the bat communities of little-studied areas to investigating the diet of frugivorous bats in Argentinian rainforests to making new discoveries about the distribution of species in South America.

Dr. Paul Webala was awarded a Spallanzani Fellowship for his ongoing research program focused on the conservation, ecology and biodiversity of bats in Central and Eastern Africa. Dr. Webala is a senior lecturer in the Department of Tourism and Wildlife Management at Massai Mara University in Narok, Kenya. He is currently the co-chair of Bat Conservation Africa and is a member of the Bat Specialist Group of the IUCN Species Survival Commission. Dr. Webala is primarily a community ecologist, although his research addresses a

variety of important questions for improving bat conservation in Africa. His research also spans several subfields of biology, as his work examines behavioral, ecological and systematic/taxonomic questions. Dr. Webala has collaborated with prominent biologists around the world, further emphasizing the high quality of his work and his commitment to bat research and conservation.

In Monterey, Drs. Barquez and Webala gave excellent presentations about their research programs, which were both enthusiastically received by the NASBR membership. Dr. Barquez gave an exciting overview of his long-standing research program in Argentina, in a presentation entitled "Conserving the Bats of Argentina: a Challenge of 40 Years." His talk described his efforts to not only study one of the most poorly documented groups of mammals in Argentina, but also to fight against strong negative public perceptions of bat in Argentina based on myths and widespread fears. Dr. Webala gave an outstanding talk entitled "Bat Research and Conservation in Kenya," which focused on his work addressing key research questions about the incredibly rich bat fauna of Kenya. Specifically, he described his work on the taxonomy and distribution of two major bat families found in Eastern Africa. He also discussed his ongoing conservation work aimed at understanding how forest degradation and fragmentation are impacting bat communities in western Kenya.

Overall, Drs. Barquez and Webala both embody the spirit of the Spallanzani award and we are very grateful that they were able to attend the conference. While we certainly hope that the experience of attending NASBR was a great one for each of them, we know that many people enjoyed interacting them and their presence enriched our annual conference.

- Erin Gillam



MONTEREY 2015

VILLA AWARD

CRYSIA MARINA RIVERO HERNANDEZ

The recipient of the 2015 Bernardo Villa award was Marina Rivero, a Mexican student of the Faculty of Sciences at Universidad Nacional Autónoma de Mexico (UNAM). She has participated in several conservation and research projects with many different species, such as jaguars, medium-sized mammals and especially with bats. Her undergraduate thesis focused on documenting seed dispersal by tent-making bats, as well as tent density and habitat selection by this group of bats. Currently, she is carrying out research projects in the Selva Lacandona, southeastern Mexico, and Sierra Madre del Sur, working with species such as tapirs, white-lipped peccaries and jaguars.

The call of the Bernardo Villa award 2015 started in January, with different posts in social networks, electronic web pages, etc. We had the participation of eight different students, both graduate and undergraduate, from five distinct universities. The close of the call was March, and a panel of four judges were selected to evaluate the different proposals. These judges were originating from countries outside Mexico, to avoid bias in the selection of the awardee. We notified the recipient by May. Marina presented an outstanding platform talk during the 45th NASBR Meeting in Monterey, California, talking about how bats establish and select trees for making tents. We awarded Marina Rivero with an honorary plaque during the closing ceremony of our meeting.

- Jorge Ortega Reyes



STUDENT AWARDS

Bat Research News Award

Quinn Webber

Personality Affects Pathogen Dynamics in Bats



Karl F. Koopman Award

Kelly Speer

Dispersal of Bats in an Island Ecosystem



2015 MONTEREY

Basically Bats, Wildlife Conservation Society Award

Citlally Jimenez

Identifying and Characterizing Roosts of *Lasiurus ega* and *Lasiurus intermedius*



Titley Scientific Award

Robert Arndt

Factors Influencing Emergence Times of Indiana bats in Central Indiana



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Luis F. Bacardi Bat Conservation Award

Jaclyn Aliperti

Cactophily Extends to Frugivory in *Antrozous pallidus*



Avinet Award

Sierra Sell

Isotopic Insight into Foraging by Two Very Different Species of Bats



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Speleobooks Award

Julia Hoeh

Social Behavior of Indiana Bats Selecting Artificial Roosts



Bat Conservation International Award

Melinda Ng

The intracellular entry receptor Niemann-Pick C1 control filovirus susceptibility in African Pteropodid bats



Organization for Bat Conservation Award

Christina Bienz

Surface Texture Discrimination by Bats: Implications for Reducing Mortality at Wind Turbines



TEACHERS WORKSHOP

The 2015 teacher workshop in California was the 20th anniversary of NASBR's annual event in association with the North American meeting. This year's workshop was also special because it fell on Halloween—always a great day to promote bats and conservation. Many groups around the country hold special activities in association with Halloween and this year numerous groups/ organizations came together as part of the "Bat Week" collaboration and promoted a Guinness World Record contest for most number of bat houses built in a single day. NASBR was able to incorporate the contest into the teacher workshop.

Dave Johnston, NASBR meeting co-chair, opened the workshop with his presentation, "Bat Conservation in California: A Review of Species and Emerging Challenges." His talk enabled teachers to become acquainted with their local bat species. Following his presentation to the group the teachers then moved on to interactive stations.

To facilitate building bat houses with other planned interactive education activities this year's format was designed to rotate groups of teachers around five stations. The 35 educators from the greater Monterey area were divided into five groups and they spent about 25 minutes at each site. A large room enabled this workshop design to work well despite the constant hammering going on in the back of the room.



The five workshop faculty at stations provided exceptionally interesting and informative experiences to groups. Cindy Myers, SD Humane Society/Project Wildlife Bat Team (San Diego) provided an exhibit and hands-on training for teachers

2015 MONTEREY

at her station, "Bountiful Benefits of Bats." Janet Tyburec, Janet Debelak Tyburec Consulting (Tucson, AZ) gave a fascinating demonstration, "Exploring How Bats Use Echolocation," with bat echolocation calls and sonograms displayed on her computer. A key concept at all teacher workshops is bat anatomy and this year Stephanie Remington (bat specialist, Costa Mesa, CA) provided a hands-on presentation using museum study skins, "What Bat is That? Bat Diversity, Structure and Identification." Teachers are always amazed to better understand bats using a key to identification and diversity. Dave Johnston, Bat Biologist and Wildlife Ecologist, H.T. Harvey & Associates (Los Gatos, CA) provided microscopes for a fascinating station, "What's for Dinner? Using Bat Guano to Identify Bat Species." Educators were able to identify insect parts attributed to diets of certain kinds of bats. The final and most prominent station was the noisy pounding of hammers used to construct a total of 35 bat houses as part of a Guinness World Record contest for the most number of bat houses made in a single day (record was 1,341 built). The "Make and Take Home a Bat House" activity was possible thanks to sponsorship dollars. Pre-cut bat house kits were purchased and only needed to be caulked and nailed together. Masterminding the bat house building—5-6 at a time—was Lee Mackenzie (Austin Bat Refuge, Austin, TX).



Following the completion of round-robin stations teachers all came back together for a final presentation, "Batman, Bananas and Bugs," given by Rob Mies, Executive Director, Organization for Bat Conservation (Bloomfield Hills, MI). Rob is a regular presenter at the NASBR Teacher Workshop and provides a lively program using live bats including a large flying fox bat. Many teachers were able to take a cell phone selfie with one of his captive bats.

- Pat Morton

SAN ANTONIO

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Welcome to San Antonio, Texas, host to the 46th Annual North American Symposium for Bat Research! The conference will be from October 12th to October 15th at the Hyatt Regency in the heart of the scenic River Walk. Stroll along five meandering miles of waterfront, exploring shopping, dining, entertainment, history and even bats. Sample our famous Tex-Mex and margaritas on the banks of the river, while being serenaded by roving mariachi bands. Visit the Alamo, River center Mall, Arneson River Theatre, Historic La Villita, San Antonio Museum of Art, and The Pearl, a brewery which has been transformed into a beautiful multi-use complex. Arts and culture are plentiful along the Riverwalk's Museum Reach. Our local hosts, Rebecca Patterson and Mylea Bayless, of Bat Conservation International, have an exciting array of conference tours and activities scheduled, including a trip to Bracken cave. Welcome to San Antonio- Bienvenidos! We hope you enjoy your stay.

THE LOCATION

The 46th Annual Symposium on Bat Research will be held at the Hyatt Regency San Antonio Riverwalk. San Antonio is a captivating city full of culture, charm, history and exciting activities to discover. The hotel offers an unbeatable location that overlooks the historic Alamo and the picturesque River Walk, two of the most popular attractions in San Antonio. Walk right out the front doors to discover all the

iconic sights and attractions, including over 100 wonderful restaurants, bars, and clubs and plentiful shopping. The hotel room rate for the conference is \$179+tax (single/double/triple/quadruple). This rate is also available for three days before and after the conference for those arriving early or staying late.

Local attractions include: the Alamo, Rio San Antonio River Tours, San Antonio Missions National Historical Park, the Witte Museum, Pearl Brewery and the Japanese Tea Garden. A full guide to the Riverwalk lists all the activities and sites.

The average maximum and minimum October temperatures in San Antonio are 82/59F (28/15C).

GETTING TO SAN ANTONIO

San Antonio International Airport (SAT) provides commercial airline service for the South Texas region with more than 30 non-stop domestic and international destinations on 10 airlines (including AeroMexico, Alaska, Allegiant, American, Delta, Frontier and Southwest). Taxi to the hotel is approximately \$24 one-way per car.

SPALLANZANI GOLF IS BACK

As we have done in the past, a group of pseudo-golfers will take to the links just before the NASBR meeting in San Antonio. This is one of the events that raises funds for the Spallanzani Award that sponsors researchers from developing countries to at-



tend the NASBR meeting. We will play at the Brackenridge GC on Wednesday October 12 starting at 10 am (leaving the hotel at 9 am) so that we are done by the time registration and the social are on. Everyone donates \$75 towards the green fees, transportation and the Spallanzani award. You pay for your club rentals (if necessary, ~\$40), and lost golf balls (often necessary).

TOURS AND WORKSHOPS

Bracken Cave Preserve

Tuesday October 11, 4:00 pm to 10:00 pm - \$55 per person. Bracken Cave is home to the largest colony of bats in the world. This maternity colony of Mexican free-tailed bats (*Tadarida brasiliensis*) is one of the largest concentrations of mammals on Earth. The emergence of these millions of bats, as they spiral out of the cave at dusk for their nightly insect hunt, is an unforgettable sight. In addition to the bats, Bracken Cave Preserve is home to a vast array of wildlife. Visitors may get the chance to see red-tailed hawks, great horned owls, coach whip snakes and more. Field trip includes transportation via charter bus, bat talk, viewing of the emergence, and a BBQ dinner on site.

Selah, Bamberger Ranch Preserve

Wednesday October 12, 7:00 am to 3:00 pm - \$55 per person. Bamberger Ranch is a 5,500-acre ranch in Blanco County that has been restored to its original habitat. Their mission is to teach ethical land stewardship through example and outreach. On this 3 1/2 hour tour of the ranch you will see the results of 37 years of habitat restoration. You will see dinosaur tracks, fossil beds, the "Chiroptorium" which is a man-made bat cave designed to hold a million Mexican Free-tailed bats. You may also spot a herd of endangered Scimitar-horned Oryx. Transportation is on the Bluebonnet, an open air trailer with a shade bonnet. Field trip includes transportation via charter van, 3 1/2 hr tour, and a picnic lunch on site.

VISIT WWW.NASBR.ORG TO REGISTER

OCT. 12-15, 2016



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IMPORTANT DATES

Aug. 10	Early Registration Deadline & Abstracts due
Sep. 13	Last day to order t-shirts, tattoos, caps and mugs
	Program and Abstracts available online
Sep. 20	Last day to sign up for Tours & Golf
Sep. 23	Last day to get conference rates at the hotel
Oct. 10	Last day to order banquet tickets



NASBR HISTORY

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REELING IN THE YEARS: NASBR HISTORY AND THE AP- PROACHING GOLDEN ANNIVERSARY

This year our conference in San Antonio will mark the *46th Annual North American Symposium for Bat Research*. Over the previous 45 conferences more than 5,000 oral and poster presentations on bat biology have been presented by our members! Our society has come a long way since its founding and, with growing membership, appears to have a vibrant and exciting future. Let's take a brief look at where we have come from and what we have accomplished as a scientific society.

In 1970, 42 scientists from the USA and Mexico met for a two day *Symposium on Bat Research* in the Southwest held at the University of Arizona in Tucson. The program consisted of 26 oral presentations. Those in attendance were enthusiastic to meet again in the following year. Thus, the *Second Southwestern Symposium on Bat Research* was held over Thanksgiving weekend at the University of New Mexico in Albuquerque. The group that met in New Mexico encompassed over 70 attendees who voted by acclamation that they wanted to meet on an annual basis with a geographical reach to include all of North America. Hence this group chose the name, *North American Symposium on Bat Research* and asked E. Roy Horst to serve again as Program Director as he had done from the beginning in Tucson. Roy continued to serve NASBR as Program Director for an astounding 25 years. By his own admission, NASBR meeting organization was held by Roy in a single manila folder or in his head for most of the first quarter of a century of our glorious conferences.

As the years and decades passed the symposium grew both in size and complexity. Eventually NASBR expanded to a three day formal program from Thursday through Saturday. A further expansion saw an informal day added on Wednesdays designed for field trips, technical workshops, fund raising events such as golf or curling tournaments, and an evening ice breaker social. In recent years, the annual meeting culminates in a Saturday night gala dinner during which annual awards and special recognitions are formally presented before we all say goodbye for another year.

Until 1999, NASBR operated informally without a Board of Directors or being legally established as an incorporated society. However, at the '99 meeting in Madison, Wisconsin, a constitution was ratified by members and the first Board of Directors was elected for the *North American Society for Bat Research*. With maturation, NASBR continued to evolve its present format and a social culture encompassing activities and awards that we now cherish as NASBR traditions. Among these annual practices are Student Honors Awards with sponsoring organizations offering cash, books, and other goods as substantial prizes, the Villa Award bestowed through competitive applications on one outstanding graduate student attending

a university in Mexico, the Spallanzani Medal and Fellowships supported by the Spallanzani Auction which brings one or more distinguished scientists from countries with developing economies to our meeting who otherwise could not afford to attend, and a Teacher's Workshop to provide immersion in bat biology for local teachers in the city of the annual conference. The society also now invites an internationally acclaimed Keynote Speaker to open the formal program with a 45 minute lecture. Recent Keynote Speakers have included Jack Bradbury and James H. Brown.

NASBR now is a vibrant scientific society, over 400 members strong, and the largest regional society of bat scientists in the world. NASBR has served as a model for younger regional bat science groups in Australia, Southeast Asia, Europe, and Latin America. Every three years bat scientists from around the world meet at the *International Bat Research Conference*. The IBRC has jointly met with and been hosted by NASBR in Albuquerque and Boston (USA), Merida (Mexico), and San Jose (Costa Rica). Recent IBRC meetings have seen over 500 chiropterologists gather to exchange scientific ideas and socialize.

On a final historical note, by members vote, NASBR did not meet in the year 1983 in deference to an IBRC held in Scotland; thus 2020 will be our 51st year of existence but will mark our 50th Annual Meeting. As we approach the 50th Annual *North American Symposium on Bat Research*, which will be held in a city yet to be determined, the Program Directors already are searching for ideas and welcome your input to make that conference memorable as befits marking our half century of existence.

- Frank Bonaccorso



Three founding members of NASBR attending the 45th NASBR in Monterey: Phillip Leitner, Merlin Tuttle, and Roy Horst

UNDERSTANDING NASBR COSTS

The annual NASBR Conference is supported entirely by registration fees and generous donations from sponsors. This article briefly outlines the typical costs associated with a NASBR conference and how sponsorship monies are utilized to reduce costs.

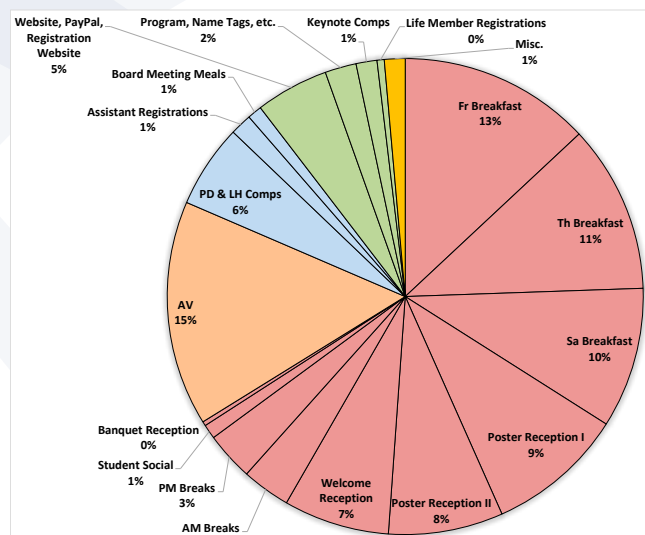
By far, the vast majority of the registration fee goes towards the costs of Food and Beverage. While hotels usually provide the conference room for free, the charges for food and beverages (breakfasts, breaks and receptions) is where they make their money, and the cost is significantly higher than what you would pay for the same items in a restaurant.

For example, the hotel for the 2016 conference in San Antonio charges \$28 per person for a basic continental breakfast that includes muffins, fruit oatmeal and juice/coffee. With a 24% service fee, this comes out to \$34.72 per registrant. Thus, if we did this basic breakfast each day, over \$100 of the registration fee would go to just breakfast. If we opted for a more expansive breakfast with eggs and meat, it would be significantly higher.

Similarly, a welcome social with just four hors d'oeuvres per person and a cash bar would be \$36 per person. Three such socials (welcome and 2 poster socials) adds another \$100 to the registration fee.

Adding alcoholic drinks to the social, a frequent request in post-meeting surveys, would be considerably more. A 1 hr open bar would be \$24.80 per person. In addition to the food costs, it is also quite expensive to rent audio-visual gear from hotels. The typical cost of renting projectors, screens and audio is about \$11,000 to \$14,000. Plus, student fees are subsidized so as to make our conference more attractive to students and maintain our student-centric approach.

The chart below is an example of the costs of a meeting (Monterey 2015) and it describes where the registration fees go. Almost 66% of the registration fees go towards food and beverages, while 15% is spent of Audio-visual equipment and technical support.



While many registrants and sponsors recognize that the food at the social events is not unlimited, and that the drinks are often very expensive, the Board does try to provide as much value as possible given the constraints of high costs and the desire to keep registration costs down to a reasonable amount.

- Shahroukh Mistry

NASBR FINANCIAL SUMMARY:

	2011	2012	2013	2014	Current*
General Fund	\$16,440	\$73,574	\$72,824	\$89,163	\$77,842
Spallanzani Fund	\$12,215	\$9,106	\$5,503	\$9,524	\$9,490
Teacher's workshop	\$5,574	\$5,619	\$5,660	\$6,389	\$6,636
Koopman Fund	\$12,007	\$12,682	\$12,182	\$12,238	\$12,431
Bernardo Villa Fund	\$11,308	\$9,087	\$7,995	\$6,820	\$5,718
Student Awards					\$1,000
Total	\$57,544	\$110,067	\$98,661	\$124,134	\$113,217

*as of 4/25/2016

ANNOUNCEMENTS

UPCOMING CONFERENCES

Here are some upcoming conferences that may be of interest to those in the NASBR community:

17th International Bat Research Conference

July 31 - August 5, 2016

Durban, South Africa

<http://ibrc2016.co.za/>

Annual Meeting of the Northeast Bat Working Group

January 10-14, 2017

Amherst, MA, USA

<http://www.nebwg.org/meetings.html>

22nd Annual Meeting of the Southeastern Bat Diversity Network

Feb 16-17, 2017

Asheville, NC, USA

<http://sbdn.org/upcoming-meeting/>

14th European Bat Research Symposium

August 2017

Donostia, Basque Country

26th International Bioacoustics Congress

October 8-13, 2017

Haridwar, India

<http://www.ibac.info/>

47th North American Symposium on Bat Research

Oct./Nov. 2017 (dates tbd)

Knoxville, TN, USA

<http://www.nasbr.org>

II Congreso Latino Americano y del Caribe de Murciélagos (Second Congress of Latin American and Caribbean Bats).

El Salvador, November 20-23, 2017.

<http://www.relcomlatinoamerica.net>

SCHOLARSHIPS

Below is a list of grant and scholarship opportunities that focus on research and conservation, often related to bats:

Western Bat Working Group: Bob Berry Fund

This scholarship provides various technology to assist in research (transmitters, detectors, etc.).

<http://wbwg.org/>

Western Bat Working Group: Dixie Pierson Memorial Fund

This scholarship consists of two \$500 awards every other year to defray travel costs to the WBWG meeting.

<http://wbwg.org/>

The Bat Conservation International Scholarship

This scholarship of up to \$3,000 funds research aimed at bat conservation.

<http://www.batcon.org/our-work/initiatives/award-grants-scholarships>

American Society of Mammalogists Grants in Aid of Research

ASM provides various funding opportunities available to members.

<http://www.mammalsociety.org/grants>

AMNH Theodore Roosevelt Memorial Grants

Seed research grants are available for students and young professionals intending to do field-based research, as well as to use the AMNH collections.

<http://www.amnh.org/our-research/richard-gilder-graduate-school/academics-and-research/fellowship-and-grant-opportunities/research-grants-and-student-exchange-fellowships>

The Animal Behavior Society Research Grants

The Animal Behavior Society manages several different types of grants and awards including Meeting Related Awards, Student Related Awards, Developing Nations Research Grants, Travel Awards, and Career Awards.

<http://www.animalbehaviorsociety.org/web/awards.php>

The Society of Systematic Biology

The Society of Systematic Biologists (SSB) Graduate Student Research Awards assist students in the initiation (first two years) of their systematics projects and in the collection of preliminary data.

<http://www.systbio.org/graduate-student-research-awards.html>

EPA Star and GRO Fellowships

EPA provides support for fellowships and professional development opportunities that will help ensure that environmental solutions are based on quality training and sound science. Information here.

<https://www.epa.gov/research-fellowships>

Sigma Xi Grants in Aid of Research

The program awards grants of up to \$1,000 to students from all areas of the sciences and engineering. Designated funds from the National Academy of Sciences allow for grants of up to \$5,000 for astronomy research and \$2,500 for vision related research.

<https://www.sigmaxi.org/programs/grants-in-aid>

Wildlife Acoustics

Scientific Product Grant

Up to \$5,000 in products (some exclusions apply) each quarter. Quarterly deadlines (Feb 15, May 15, Aug 15, Nov 15)

<http://www.wildlifeacoustics.com/grant>

MEET THE NEW ASSOCIATE PROGRAM DIRECTORS

NASBR is excited to have Dr. Riley Bernard and Dr. Luis Viquez come on board as Associate Program Directors! Both Riley and Luis have been active student members of NASBR, both serving as student representatives on the Board of Directions - as a result, they are well positioned to make excellent and valuable contributions to the society for years to come.

Dr. Bernard completed her Ph.D. in 2015 under the supervision of Dr. Gary McCracken at the University of Tennessee; her dissertation research focused on tracking the spread of White-Nose Syndrome in the Eastern United States. Dr. Bernard has since gone onto a postdoctoral position at the University of Tennessee in which she is tasked with collaboratively building a species action plan for threatened and endangered bats species in Great Smoky Mountain National Park.

Dr. Bernard is excited to be working as an Associate Program Director. "Starting out as a student board member, I have been given the opportunity to continue to work in the society, assisting the PDs with making each NASBR better than the last. I am very eager to learn from Gary, Shahroukh, Frank and the Board, and am looking forward to working as an Associate PD for many years to come."



ANNOUNCEMENTS

Mr. Viquez is currently pursuing a Ph.D. at the Universität Ulm in Germany under the supervision of Dr. Marco Tschapka. His dissertation research focuses on how long-distance migration and associated major shifts in diet impact the gastrointestinal microbiome of the Lesser Long-nosed Bat (*Leptonycteris yerbabuenae*) and Pallas's Long-Tongued Bat (*Glossophaga soricina*). Luis also has an M.Sc. degree from Universidad Nacional Autónoma de México, during which he worked under Dr. Rodrigo Medellín and studied prevalence patterns of two bat intestinal parasites in anthropogenically-disturbed bat populations.

As an Associate program director, one of Mr. Viquez' major goals in the coming years is to bring the use of new social media technologies to the NASBR annual meeting, such as broadcasting presenter-approved content over Twitter. "This will help us to reach a bigger audience and share the cutting edge science being presented in the conference with members that could not attend the meeting and with bat enthusiasts in the NASBR's social networks."



ANNOUNCEMENTS

NASBR POLICIES

Summer 2016

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Vol. 2, Issue 1

In the past couple of years, the NASBR Board has approved various policies that help bring into line our society with other scientific societies as well as non-profit organizations. These policies are available on the NASBR web page as well as the registration site.

Intellectual Property

NASBR considers the information contained in presentations to be the property of the authors. To limit potential distractions during presentations and unauthorized dissemination of others' work, the Board of Directors requests registrants to refrain from taking photographs or video of oral or poster presentations during sessions at the annual conference. We encourage audience members to contact the author to request further information about their presentation.

Code of Conduct

It is the policy of the North American Society for Bat Research (NASBR) that all participants in NASBR activities will enjoy an environment free from all forms of discrimination, harassment, and retaliation. As a professional society, NASBR is committed to providing an atmosphere that encourages the free expression and exchange of scientific ideas. In pursuit of that ideal, NASBR is dedicated to equality of opportunity and treatment for all members, regardless of gender, gender identity or expression, race, color, national or ethnic origin, religion or religious belief, age, marital status, sexual orientation, disabilities, veteran status, or any other reason not related to scientific merit. Harassment, sexual or otherwise, undermines the integrity of NASBR meetings and activities.

Definition of Sexual Harassment- Sexual harassment refers to unwelcome sexual advances, requests for sexual favors, and other conduct of a sexual nature. Behavior and language that are welcome or acceptable to one person may be unwelcome or offensive to another. Consequently, all individuals must use discretion to ensure that their words and actions communicate respect for others. This is especially important for those in positions of authority or seniority, such as faculty and established professionals, since students and other aspiring scientists may be reluctant to express their objections or discomfort regarding unwelcome behavior.

Sexual harassment does not refer to occasional comments and actions generally considered to be of a socially acceptable nature. It instead refers to behavior that is not welcome, is personally offensive, debilitates morale, and therefore, interferes with one's ability to participate freely and effectively in NASBR meetings and activities. The following is a non-exhaustive list of examples of behavior that, when unwelcome, may constitute sexual harassment: sexual flirtations, advances, or propositions; verbal comments or physical actions of a sexual nature;

sexually degrading words used to describe an individual; a display of sexually suggestive objects images, or gestures; sexually explicit jokes; and unnecessary or unwanted touching.

Definition of Other Harassment - Harassment on the basis of any other protected characteristic is also strictly prohibited. This conduct includes, but is not limited to: epithets, slurs, or negative stereotyping; threatening, intimidating, or hostile acts; denigrating jokes and display or circulation of written or graphic material that denigrates or shows hostility or aversion toward an individual or group.

Scope of Policy - This policy applies to all attendees at NASBR activities, including scientists, students, guests, and exhibitors, participating in the scientific and educational sessions, tours, and social events of any NASBR meeting or activity.

One Presentation Policy

Each registrant is only allowed to be the presenting author on one presentation (either poster or oral). A registrant may be a coauthor and any number of presentations. A presenting author that cancels registration may not have another person present their paper unless that person is a paid registrant and is not already doing a presentation.

The Presentation Schedule will be posted on this website when it is finalized (this may take several weeks beyond the abstract deadline). Unless you hear otherwise from the Program Directors, you may assume that your abstract will be accepted as submitted (Oral or Poster, Student Honors if requested).

Abstract Acceptance Policy

NASBR will accept submitted abstracts in the order they are received. Every effort will be made to include all submitted abstracts in the program. However, if the program fills, those submitting last may be asked to present posters even if their first choice was an oral presentation. We encourage all registrants considering a presentation to submit their abstracts early and not wait until the submission deadline.

When submitting an abstract you will be asked whether you wish to present as a poster or an oral format. Please note that this is an indication of preference only, and the Program Directors will make the final decision on presentation format to best create sessions that are thematic and flow well.

Alcohol Policy

NASBR encourages all participants to enjoy the social and evening activities but to drink in a responsible manner. Please note that, as a part of the contract with the hotel, no alcohol may be brought into any of the NASBR social events, including the Banquet Dinner.

Susan M. Barnard (Sue), Founder and Executive Director of Basically Bats Wildlife Conservation Society, and author of many scientific papers and books on bats, reptiles, and parasites, died at the age of 80 after a long battle with leukemia.

Born Susan Muller in New York City on March 7, 1935, she passed away on October 5, 2015 at her home in the small town of Johnson, Florida. Sue leaves behind a daughter and son, Tamara and Brett Romaine.

A "late bloomer," Sue graduated with a Bachelor degree in liberal studies from the University of the State of New York in 1983. Sue's love for animals began as a youngster when making pets of rats and mice that scampered around her mother's apartment in Manhattan, NY.

This ultimately evolved into a professional career at Zoo Atlanta, a career that spanned 28 years. In 1982, Sue pioneered bat rehabilitation in the United States, which included being featured in the National Geographic special, *Keepers of the Wild*," and culminated in the 4-volume set of *Bats in Captivity* (links to follow later).

Anyone wishing to honor sue's life's work an do so by making donations to Basically Bats Wildlife Conservation Society, Inc. (<http://www.basicallybats.org>) to help the organization continue offering student scholarships toward the study of white-nose syndrome in North American bats."

- Tamara Romaine



MICK HARVEY

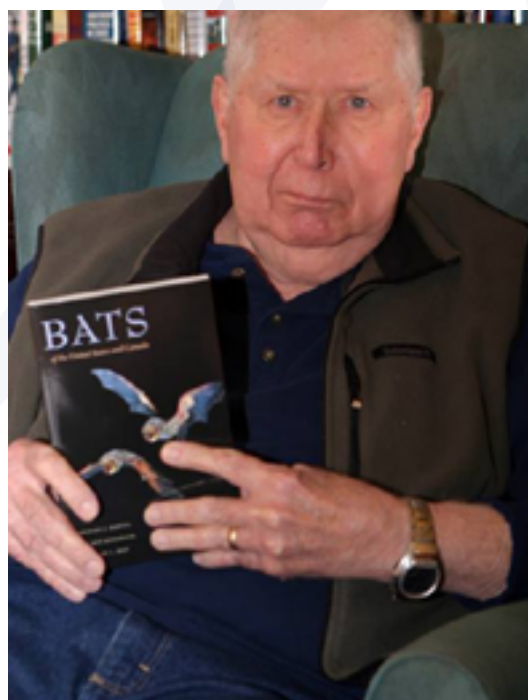
Dr. Michael J. Harvey was Professor Emeritus and former Chairman in the Department of Biology at Tennessee Technological University.

He was particularly interested in endangered bats and worked with *Corynorhinus* spp. as well as gray and Indiana bats. Along with research on bats he studied reptiles, amphibians, and other mammals, as well as various aspects of biospeleology. He authored, or coauthored, numerous publications, including "Bats of the Eastern United States" (1992), "Bats of the United States" (1999) Arkansas Game and Fish Commission, and "Bats of the United States and Canada" (2011). He was a member of numerous professional organizations and was co-founder of two influential regional groups that meet annually in the southeastern U. S.: The Colloquium on the Conservation of Mammals in the Southeastern U. S. and the Southeastern Bat Diversity Network.

Mick was instrumental in building the solid foundation of bat study and conservation efforts that now exists in the southeastern states. He worked with academics, agency personnel, non-governmental agencies and private partners to enhance our knowledge of the biology of bats and the conservation issues that affect them. There was always a joke or prank on his mind, soon to be told or set in motion. His good nature and big heart remains with us in addition to his legacy of work on natural resources.

He is survived by his wife of 54 years, Lora Conley Harvey (whom he married June 2, 1961 in Flora, IL); two sons and daughters-in-law, Doug and Ami Harvey, Rick and Julie Harvey, all of Franklin, TN.

- Mary Kay Clark and the family of Mick Harvey



BOARD OF DIRECTORS

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INVITATION TO HOST THE 50TH NASBR 2020 NASBR Meeting (West Region)

The North American Society for Bat Research invites bids for hosting the 2020 annual meeting of the society. Eligible states, provinces, and territories are those west of Ontario in Canada, US states west of the Mississippi, and all of Mexico (see map below). Intention to bid should be communicated to one of the Program Chairs (Gary Kwiecinski via Gary.Kwiecinski@Scranton.edu or Frank Bonaccorso via bonafrank@yahoo.com). Program chairs will provide detailed advice on bid preparation. Bids must be submitted by June 1, 2017 to the Chair of the NASBR Board of Directors, Al Kurta (via akurta@emich.edu). Support for locating suitable venues and obtaining hotel bids is available - contact Shahroukh Mistry (mistrysh@butte.edu). Additional information can be found on this website at the Host a Future NASBR Meeting tab. The NASBR Board of Directors will evaluate bids and successful bids meeting the basic criteria of the society will be placed before the members of the society at the NASBR business meeting in Monterey for a vote of member preference.



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www.nasbr.org

NASBR is a registered 501(c)3 non-profit organization