

# BAT RESEARCH NEWS

Volume 41

Spring 2000

Number 1

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## Front Cover

The illustration of *Rhinolophus ferrumequinum* on the front cover of this issue is by Philippe Penicaud from his very handsome series of drawings representing the bats of France. He has kindly given his generous permission to display some of these as our front covers. Mr. Penicaud resides at 16 bis, Route de Port, F – 29252 Plouezoc’h, France. Tel/FAX 33/2 98 67 29 39

We are always eager to find new cover illustrations so if you have great line drawings or sharp contrast photos of bats that you would like to submit, please send them to us. If we use your artwork, we will add one free year to your subscription.

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## Front Cover

It seemed fitting that a bat on a postage stamp should represent our efforts at keeping our publishing costs to a minimum. As you learned from the flier insert in this issue, an electronic version of Bat Research News will be available to those who have the facility for on-line reception. This may be the last stamp you see!

If you have a good illustration you would like to see on our front cover, send it to me. If it is selected you will receive a free one-year extension of your subscription. G. Roy Horst

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The lovely bat appearing on the front cover is the artwork of Morgan Anderson from Nelson, BC, Canada. Morgan is a high school student who has worked with Robert Barclay and Mark Brigham on their projects. Happily for us, she combines her enthusiasm for bats with her considerable talents as a wildlife artist. Thank you Morgan for sharing your work with us.

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The front cover of this issue is the work of Adrian Tejedor and was the official logo of the 30<sup>th</sup> North American Symposium on Bat Research held in Miami, Florida in September 2000.

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The front cover for this issue is a copy of a plate taken from:

**Traite de L' Ostéologie et de LaMyologie du *Vespertilio murinus***

by P. Maisonneuve, Paris 1878

This illustration is one (plate II) of eleven plates in this delightful old monograph. If any of our readers can find an earlier published illustration of a bat (or bats) that would make an interesting cover for a future issue. If so please include as much information as possible, and send it to me. The original volume is part of my collection. G. Roy Horst

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The front cover artwork was provided by Kunwar Bhatnagar.

*Cynocephalus volans*, the flying lemur. Head and body 16 inches, tail 9 inches, weight up to 1.75 kg. These small animals which are like a small cat can glide up to 136 meters between trees. (Almost a bat and it almost flies)

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The front cover illustration of *Rhinolophus ferrumquinum* is the work of Philippe Penicard. Mr. Penicard is the creator of an excellent series of illustrations of the bats of France. He is an artist who specializes in illustrations of animals for educational purposes. He is active in bat protection and conservation activities in Brittany. His address is 16 bis, route du Port, F-29252, Plouezoch, France. We reproduce his handsome art with his kind and generous permission.



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## Front Cover

The front cover illustration, a handsome resident of The Lubee Foundation Research Center in Gainesville Florida invites you to come visit him in May during the Symposium on Medical Management and Captive Care of Chiroptera see page 41.

My apologies for the error in the caption (rear cover) describing the cover illustration on Volume 42: #4. The bat depicted is *Rhinolophus ferrumequinum* not *R. ferrumquinum*. GRH

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The front cover illustration was generously provided by Jacqueline J. Belwood from her Book, *The Bats of Ohio*. This artwork was created by Ann E. Geise of the Ohio Bat Survey.

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## FRONT COVER

**Our cover this issue is the logo from the  
IV<sup>th</sup> European Bat Research Symposium, Le Havre, France**

We prefer to use sharp black and white photos or line drawings of bats or great bat sites, so would you please send your favorite illustration. If your illustration is accepted as a future cover, you will receive **one free banquet ticket** at the next North American Symposium. Send your copy to: [horstgr@potdam.edu](mailto:horstgr@potdam.edu)

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## Front Cover

The front cover is a portrait of *Lasiurus cinereus* by Suzanne Lebeda of South Colton, NY. Suzanne has created many illustrations for wildlife publications as well as many beautiful posters for such agencies as the Adirondack Park Commission and The Saint Lawrence Seaway Natural History Center. This portrait was the master copy of the tee-shirt created for the recent 32<sup>nd</sup> North American Symposium. The original is in color and its attractiveness guaranteed that all the shirts were sold, the profits (nearly \$1,000) which donated to the student awards program sponsored by Bat Research News and other participants of the symposium. Thank you, Suzanne

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## Editors' Comments

BRN now includes on its web site a portable data file (PDF) which will enable electronic viewers to see each issue exactly as it appears in the printed version. This will make it much easier to copy for your records and easier to cite articles by page number and issue number. Each new electronic issue will be added to the back issues section already included on the electronic site. We are making a very strong appeal to subscribers outside the United States (and those in the U.S. who choose) to convert to the electronic edition. This will help keep the cost of your subscription to Bat Research News affordable, hopefully at our current international rate of \$15.00 per volume year worldwide, for several years in the future. If you have any comments or suggestions regarding this new arrangement please forward them to us, **and send us some news.** Thank you.

Roy Horst, Managing Editor and Publisher

[horstgr@potdam.edu](mailto:horstgr@potdam.edu)

Pat Morton, Editor, Conservation, Education

[patricia.morton@tpwd.tx.us](mailto:patricia.morton@tpwd.tx.us)

Tom and Margaret Griffiths, Editors, Recent Literature

[tgriff@titan.iwu.edu](mailto:tgriff@titan.iwu.edu)

Allen Kurta, Editor, Feature Articles & Letters

[bio\\_kurta@online.emich.edu](mailto:bio_kurta@online.emich.edu)

## Front cover

The illustration of *Ametrida centurio* was generously provided by Fiona Reid and is taken from her book "A Field Guide to the Mammals of Central America and Southeast Mexico".

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## COVER ILLUSTRATION

This is an illustration reproduced from Daubenton's work, 'Mémoire sur les Chauves-souri' (1765)

Figure 1 represents *Myotis myotis*, fig. 2, *Plecotus auritus*, fig. 3. *Pipistrellus pipistrellus*.

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We have not received any offers of a photo or drawing for our cover illustration for this issue. If you have a good black and white photo of your favorite bat or a drawing you would like to submit please send it to Roy Horst. If we use your illustration, we will reward you with a free one-year renewal of Bat Research News

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## Front Cover Illustration

Our cover illustration is a portrait of *Euderma maculatum* and was created by Lucas Navo, who is the 16 year old son of Kurt Navo. This portrait was also the cover illustration for the meetings in Durango. Thanks, Lucas for sharing your work with us.



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## Front Cover Illustration

Dick Wilkins of *Bat Rescue*, Poway, CA provided this wonderful photo of a *Nyctinomops femorosaccus*. This female bat was recovered from a local lake clinging to the side of a aluminum rental boat. After several weeks of rest and recovery it was flown on a zipline, echolocation sounds were recorded and the bat was released back at the lake.

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The illustration on the front cover is a ventral view of the deepest hyoid structures and of the larynx of the New Zealand bat, *Mystacina tuberculata*, and was drawn by Thomas A. Griffiths, Illinois Wesleyan University, Bloomington, IL. (Copyright 2006 by the artist. All rights reserved.)

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The drawing of *Rhinolophus ferrumequinum* on the front cover was provided by Tom McOwat of Llandysul, Wales. (Copyright 2006 by the artist.) Thank you, Tom, for sharing more of your work with us.

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Mexican long-tongued bat, *Choeronycteris mexicana*, by Fiona A. Reid. This distinctive nectar-feeding bat occurs in the southwestern U.S. It has a very long tapered muzzle, a small noseleaf, and a short tail. From: A Field Guide to the Mammals of North America north of Mexico, by Fiona A. Reid. 2006. Houghton Mifflin Co., Boston. Illustrations copyright Fiona A. Reid (reproduced with permission from the artist).

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Ghost-faced bat, *Mormoops megalophylla*, by Fiona A. Reid. This leaf-chinned bat occurs in southern Texas. It has rounded ears and a very peculiar face with flaps of skin on the chin. At rest its tail sticks out of the tail membrane. From: A Field Guide to the Mammals of North America north of Mexico, by Fiona A. Reid. 2006. Houghton Mifflin Co., Boston. Illustrations copyright Fiona A. Reid 2007 (reproduced with permission from the artist).

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The cover photograph of the Grey-headed Flying Fox, *Pteropus poliocephalus*, was kindly provided by Vivien Jones (<http://www.bellingen.com/flyingfoxes>), and was used as the logo for the 2007 Royal Zoological Society of New South Wales and Australasian Bat Society Symposium on the Biology and Conservation of Australasian Bats. Copyright Vivien Jones (reproduced with permission from the artist).

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Northern Yellow Bat, *Lasiurus intermedius*, by Fiona A. Reid. This attractive bat has yellowish fur, which sometimes has a grayish hue, and the thick yellow fur continues approximately halfway down the length of the tail membrane. The ears are pinkish with a broad, curved tragus. From: A Field Guide to the Mammals of North America north of Mexico, by Fiona A. Reid. 2006. Houghton Mifflin Co., Boston. Illustrations copyright Fiona A. Reid 2006 (reproduced with permission from the artist).

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## Front Cover Photograph

The SEM photograph on the front cover is that of a mite, tentatively identified as *Steatonyssus periblepharus* Kolenati, 1858 (Mesostigmata: Macronyssidae). It was collected from *Pipistrellus pipistrellus* in Oxfordshire, UK by Joel Tigner (Batworks, South Dakota) and identified by Dr. Anne Baker (Research Acarologist, Natural History Museum, London). The mite was photographed using a scanning electron microscope by David Dixon (Department of Chemical and Biological Engineering) and Ed Duke (EMES), both from South Dakota School of Mines and Technology, Rapid City, South Dakota. Many thanks to Joel and his colleagues for sharing their find with us!



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## Front Cover

The photograph of a little brown bat (*Myotis lucifugus*) was taken in January 2008 by Al Hicks, New York Department of Environmental Conservation. The little brown bat is afflicted with white-nose syndrome, which is associated with the deaths of thousands of bats in the northeastern United States again this year. A paper describing this serious problem is published in this issue. Photographs reproduced with the permission of Al Hicks. 2008. All rights reserved.

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Silver-haired bat, *Lasionycteris noctivagans*, by Fiona A. Reid. These attractive bats have black fur that is well-frosted with white and thickly haired tail membranes. The edge of the ears is yellowish. From: A Field Guide to the Mammals of North America north of Mexico, by Fiona A. Reid. 2006. Houghton Mifflin Co., Boston. Illustrations copyright Fiona A. Reid (reproduced with permission from the artist).

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## Front Cover

The cover illustration of *Pteropus livingstonii* is by Alice Hughes, a Ph.D. student at Bristol University. Livingstone's Fruit Bat (also known as the Comoro Flying Fox) has large red eyes and is one of the world's largest bat species (average wingspan 150 cm, length 30 cm, weight 700 g). This species is found only on two of the Comoro Islands and is listed as Critically Endangered. Fortunately, there are a number of captive breeding programs, which have release plans to bolster wild populations of *P. livingstonii*. Land management plans also are being developed in cooperation with the local communities and government that will help protect the habitat in which these beautiful animals live.

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The cover illustration of the big brown bat, *Eptesicus fuscus*, was drawn by Kara Lynn Pivarski. Kara is a biologist and artist who currently resides in New Hampshire. Thank you, Kara, for sharing your artwork with us. (Copyright 2008. All right reserved.)

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## Front Cover

This close-up photo of a harem of greater spear-nosed bats (*Phyllostomus hastatus*) was taken in Cueva Club de Montaña in central Panama. The cave was not long—just 46 meters of passage—but had nice speleothems, and there were six species of bats using it as a day roost (*P. hastatus*, *Artibeus jamaicensis*, *Saccopteryx leptura*, *Desmodus rotundus*, *Carollia perspicillata*, and *Glossophaga* sp.). Five harems of *P. hastatus* were noted, and this harem had 19 bats (including the dominant male). The total bat population in the cave was roughly 450 bats. Photo by Keith Christenson.

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A hairy-legged vampire bat, *Diphylla ecaudata*, peers out from the body of a pea hen in Bill Schutt's "Dark Banquet: Blood and the Curious Lives of Blood-Feeding Creatures" (reviewed in this issue). Figure copyright 2008 by Patricia J. Wynne.

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Gravid *Pteropus poliocephalus* with twins. Radiograph by Harmony Frazier, Woodland Park Zoo, Seattle, Washington. Copyright 2009.

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Hairs of *Tadarida brasiliensis* from Puerto Rico magnified 2,300 times. Photo by Brian A. Schaetz, Eastern Michigan University.