



**WESTERN BAT WORKING GROUP
2009 BIENNIAL MEETING
AUSTIN, TEXAS**

Wednesday April 15, 2009

5:30 - 9:00 PM Registration – Mezzanine
5:30 - 9:00 PM Presentation Loading – LBJ Room
6:30 - 9:00 PM No Host Reception - Poolside & Congress Ave Bridge
Emergence

Thursday April 16, 2009

7:00 -11:00 AM Registration – Mezzanine
7:00 - 7:30 AM Presentation Loading – LBJ Room
7:00 - 8:00 AM Breakfast – Lakeview Room
8:00 - 8:10 AM Welcome and opening remarks – Austin Room
Pat Ormsbee, Western Bat Working Group President (out-going)

Bats and Wind Energy

*denotes speaker if more than one author

Moderator: Ed Arnett, Bat Conservation International

8:10 - 8:30 AM **Assessing the impacts of wind turbines on bats: An overview of issues and contemporary research**
Edward B. Arnett, Bat Conservation International, Austin, TX

8:30 - 8:50 AM **Bat migration and wind energy: Making the most of destructive sampling**
Erin F. Baerwald* and Robert M. R. Barclay, Department of Biological Sciences, University of Calgary, Canada

8:50 - 9:10 AM **Bat monitoring at Isthmus of Tehuantepec, Oaxaca, and their interaction with wind farms**
Rafael Villegas Patraca, Institute of Ecology, Xalapa, Veracruz, Mexico

- 9:10 - 9:30 AM **BREAK**
- 9:30 - 9:50 AM **Bats of northeastern British Columbia – overlap with wind farm projects**
Rhonda L. Millikin*, EchoTrack Inc., Vancouver, B.C., Canada
- 9:50 - 10:10 AM **Assessing bat activity and bat fatalities at wind-energy facilities in Germany**
Ivo Niermann*, Oliver Behr, and Robert Brinkmann, Leibniz Universität Hannover, Institute of Environmental Planning; University of Erlangen-Nürnberg, Department of Zoology; Universität Hannover, Institute of Environmental Planning
- 10:10 - 10:30 AM **Ideas on using forest management practices to reduce potential bat/turbine interactions in forest landscapes**
Cris D. Hein*, and Todd J. Mabee, ABR, Inc.-Environmental Research and Services, Forest Grove, OR
- 10:30 - 11:00 AM Q&A Session
- 11:00 - 1:00 PM **LUNCH** – On your own

Roosting Ecology

Moderator: Cori Lausen, WBWG vice president-elect

- 1:00 - 1:20 PM **The domino effect: Biological significance of Rose Guano Cave Nevada for the long term conservation of northern colonies of Mexican freetail bats (*Tadarida brasiliensis*)**
J. T. Agee*, J. A. Williams, J. Schmitt, R. E. Sherwin, M. Herder, and D. Waldien, Christopher Newport University, Newport News, VA^{1,3,4}; Nevada Department of Wildlife, Ely, NV; Bureau of Land Management, Ely, NV; Bat Conservation International, Austin, TX
- 1:20 - 1:40 PM **Using radio-telemetry to understand a migratory population of *Tadarida brasiliensis* in the Great Basin of Nevada**
Jason A. Williams*, Richard E. Sherwin, and Michael J. Herder, Nevada Department of Wildlife, Ely, NV; Christopher Newport University, Newport News, VA; Bureau of Land Management, Ely, NV

1:40 - 2:00 PM **Thermal ecology of roosting bats in Nevada:
Implications for management**
R. E. Sherwin* and A. Loftis, Christopher Newport University, Newport
News, VA

2:00 - 2:20 PM **BREAK**

Roosting Ecology

Moderator: Dave Johnson, WBWG At-large Board Representative-elect

2:20 - 2:40 PM **Three dimensional models of roost use by the bats of Ash
Meadows National Wildlife Refuge, Nevada**
M. Villanueva*, S. Skalak, J. Agee, M. Brigham, and R. Sherwin;
Christopher Newport University, Newport News, VA^{1,3,5}; University of
Regina, Saskatchewan, Canada^{2,4}

2:40 - 3:00 PM **Activity patterns of cave myotis (*Myotis velifer*) at two
southern Arizona hibernacula**
Debbie C. Buecher* and Ronnie Sidner, Buecher Biological
Consulting, Tucson, AZ; Ecological Consulting/University of Arizona,
Tucson, AZ

3:00 - 3:20 PM **Townsend's big eared bats on Santa Cruz Island: Preserving
historic structures as critical habitat for a rare species**
Patricia E. Brown*, Robert D. Berry, Cathy Schwemm and Tim
Coonan. Brown-Berry Biological Consulting; University of California,
Santa Barbara; Channel Islands National Park, Ventura, CA

3:20 - 3:40 PM **The business of building bat gates at abandoned mine lands in
Nevada**
Katie Erin G. Miller* and Jason Williams, Nevada Department of
Wildlife, Elko, NV; Nevada Department of Wildlife, Ely, NV

4:15 PM **Meet in lobby for Bracken Cave field trip**
Bus leaves at 4:30
(Return around 10:00 PM)

Friday April 17, 2009

7:00 - 8:00 AM Breakfast – Lakeview Room
7:00 - 9:30 AM Registration – Mezzanine
7:00 - 7:30 AM Presentation Loading – LBJ Room

Population Ecology

Moderator: Heather Johnson, WBWG secretary-elect

- 8:00 - 8:20 AM **Population genetic study of *Desmondus rotundus* in an area of high rabies incidence in cattle, San Luis Potosí State, Mexico**
Antoinette Piaggio*, Ignacio Amezcua Osorio, Alejandro Jiménez Ramírez, Luis Lecuona; USDA/WS/National Wildlife Research Center, Fort Collins, CO; Bovine Paralytic Rabies Campaign Coordinator. Pecuary Committee, San Luis Potosi State, Mexico; Coordinator of the National Campaign of Paralytic Rabies in Bovines (SAGARPA). Mexico City; USDA/APHIS/IS NAR Mexico, Mexico City
- 8:20 - 8:40 AM **Assessing the use of a night vision camcorder as a method for determining population estimates of the Townsend's big-eared bat (*Corynorhinus townsendii*) at Lewis and Clark Caverns, Montana**
Todd Caltrider, Kristi L. DuBois*, and Kerry R. Foresman. College of Forestry and Conservation, University of Montana, Missoula, MT; Montana Fish, Wildlife and Parks, Missoula, MT; University of Montana, Missoula, MT
- 8:40 - 9:00 AM **Bat banding: Trials and tribulations for estimating survival over a landscape scale**
Robert A. Schorr*, Laura E. Ellison, and Paul M. Lukacs, Colorado State University, Fort Collins, CO ; USGS BRD, Fort Collins, CO; Colorado Division of Wildlife, Fort Collins, CO
- 9:00 - 9:20 AM **Dispersal and philopatry of prairie bat species: Understanding the influence of river valleys on bat movement using landscape genetics**
Cori L. Lausen*, Isabelle Delisle, Robert M.R. Barclay and Curtis Strobeck, University of Calgary, Dept. of Biological Sciences and Birchdale Ecological Ltd., Kaslo, B.C.; University of Alberta, Campus Saint-Jean, Edmonton, AB; University of Calgary, Dept. Biological Sciences, Calgary, AB; University of Alberta, Dept. Biological Sciences, Edmonton, AB.

9:20 - 9:40 AM **BREAK**

Inventory, Monitoring and Habitat Use by Bats

Moderator: Steve Langenstein, Oregon Bat Working Group

- 9:40 - 10:00 AM **Seasonal range maps for western red bats (*Lasiurus blossevillii*) in California and wintering western red bat in red gum eucalyptus (*Eucalyptus camaldulensis*) leaf litter**
Dave S. Johnston* and Susan Whitford. H. T. Harvey & Associates, Los Gatos, CA; MCB Camp Pendleton, San Diego Co., CA
- 10:00 - 10:20 AM **Using pseudo-absence models to evaluate landscape level patterns of bat distributions in Utah**
Joel M. Diamond*, Robert N. Knight, Lauren B. Wilson, Kimberly Asmus Hersey, and Ben Sutter; General Dynamics, Inc., Natural Resources Program Manager; U.S. Army Dugway Proving Ground Biologist; U.S. Army Dugway Proving Ground, Sensitive Species Biologist, Utah Division of Wildlife Resources; Database Zoologist, Utah Natural Heritage Program
- 10:20 - 10:40 AM **Morphometrics and plasticity in echolocation calls of little brown bats (*Myotis lucifugus*) at the northern edge of their range**
Cori L. Lausen*, Thomas S. Jung, David W. Nagorsen, Jennifer M. Talerico, Lea A. Randall, Doug Burles, Brian G. Slough, and Laura Friis, Birchdale Ecological Ltd., Kaslo, B.C.; Environment Yukon, Whitehorse, Yukon; Mammalia Consulting, Victoria, B.C.; University of Calgary, Calgary, AB; University of Calgary and Environment Yukon; Parks Canada, Sandspit, Haida Gwaii; Whitehorse, B.C.; Whitehorse, Yukon; B.C. Ministry of Environment, Victoria, B.C.
- 10:40 - 11:00 AM **Using vein patterns in the tail and wing membranes of bats for species-level and individual-level identification**
Greg Falxa, Cascadia Research Collective, Olympia, WA
- 11:00 - 1:00 PM **Hosted Lunch (WBWG business meeting) – Mezzanine**

Bat Conservation Strategies

Moderator: Martin Grenier, WBWG At-large Board Representative-elect

- 1:00 - 1:20 PM **Thirsty bats and dwindling water; evaluating, restoring, and creating safe and accessible water sources for bats and other wildlife in the arid west**
Daniel Taylor, Bat Conservation International, Austin, TX
- 1:20 - 1:40 PM **South Dakota bat book project**
Bradley Phillips* and Joel Tigner, UDSA Forest Service, Rapid City, SD; Batworks, LLC., Rapid City, SD
- 1:40 - 2:00 PM **“What bat ate that? You’re guano love it!” WBWG curriculum débuts at the National Science Teacher’s Association conference in Portland**
Aimee Hart*, Deborah Crough, and Michelle Caviness, USDI BLM, Lakeview, OR; Santa Ana USD, Golden West College Huntington Beach, CA; USDI BLM, Vale, OR

2:00 - 2:20 PM **BREAK**

Bat Conservation Strategies

Moderator: Derek Hall, Nevada Bat Working Group

- 2:20 - 2:40 PM **Results of a workshop, “Conserving North American bat diversity”**
Mary K. Clark, Angela McIntire*, Tim Snow, Rodrigo Medellin, Pat Ormsbee, Jamie Stewart, and Michael Herder; Southeastern Bat Diversity Network, Raleigh, NC; Arizona Game and Fish Department^{2,3}; Instituto de Ecologia, UNAM; USFS, Eugene, OR; OMNR, Canada; USDI BLM, Ely, NV
- 2:40 - 3:10 PM **Planning for climate change in western North America**
Mark A. Hayes* and Rick A. Adams, University of Northern Colorado, Greeley, CO
- 3:10 - 3:40 PM **A primer on White Nose Syndrome, its effects on hibernating bat colonies in the northeastern U.S., and the significance to the west**

Patricia C Ormsbee and Paul Cryan USFS and BLM Regional Bat Specialist, Eugene, OR; U.S. Geological Survey Fort Collins Science Center

4:00 - 6:00 PM **Poster and Technology Sessions – Mezzanine**

6:00 - 9:00 PM **Silent and Verbal Auction – Town Lake Ballroom**
food and drinks provided

Saturday April 18, 2009

7:00 - 8:00 AM Breakfast - Mezzanine

8:00 - 12:30 PM **Working session: Raising awareness and prevention for White Nose Syndrome in the west – Austin Room**

The objective of this session is to draft our collaborative vision of a strategy to increase the awareness and prevention of spreading WNS to the west. The output will be a draft action plan that will be used by the WBWG WNS committee to take action on this issue. In addition to WBWG members, we will have participation from grotto members and the National Speleological Society.

After a brief introduction to the session, we will break in to facilitated working groups to address collaboration with the caving community, educational tools and public relations needs, site restriction recommendations, state/provincial working group roles, inventory and monitoring, research issues, and review and update of current WBWG WNS recommendations. Breakout groups will reconvene as one group and present their input which also will be submitted to the WBWG WNS committee for synthesis, further development, and implementation.

8:00 - 9:00 AM **Rules of the road**
Toni Piaggio

9:00 AM **Breakout Sessions**

10:15 - 10:45 AM **BREAK**

10:45 - 12:30 AM **Reconvene for synthesis and wrap-up**