

BATS AND WIND ENERGY WORKSHOP

WESTERN BAT WORKING GROUP
APRIL 6-8, 2011 AT LAS VEGAS, NEVADA



Draft Bats and Wind Energy Schedule

Wed 6 April 2011

- 1:30–1:45 **Welcome and Opening Remarks**
Ken Mayer -Director Nevada Department of Wildlife
- 1:45–2:30 **Future Wind Energy Technology Development in the United States and Implications for Wildlife**
Robert Thresher-National Renewable Energy Laboratory
- 2:30–3:15 **Wind energy Development and Wildlife: Industry Challenges and Perspectives**
Stu Webster-Iberdrola Renewables
- 3:15–3:30 **Q&A**
- 3:30 – 4:00 Break
- 4:00–4:30 **Patterns of Bat Fatality at Wind Energy Facilities in North America**
Cris Hein-Bat Conservation International
- 4:30–5:00 **An Overview of Guidelines and Protocols for Wind Energy Development: Implications for Bats and Other Wildlife**
(Angie McIntire- Ariz Dept. of Game & Fish and/or Bronwyn Hogan – Calif. DFG)
- 5:00–5:30 **USFWS guidelines and Avian & Bat Protection Plans**
TBA
- 5:30–5:45 **Q&A**
- 5:45–7:00 **Dinner on your own**
- 7:00–10:00 **Social**

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Thurs 7 April 2011

- 8:00–8:20 **Overview of Tools for Assessing Bat Activity**
Jeff Gruver-WEST, Inc.
- 8:20–8:30 **Overview of Acoustic Technologies and Analysis**
Cori Lausen-Birchdale Ecological
- 8:30–8:50 **Comparison of Acoustic Detector Systems**
Donald Solick-WEST, Inc.
- 8:50–9:20 **Pre-construction Studies: Study Design & Lessons Learned**
Cris Hein-Bat Conservation International
- 9:20–9:40 **Employing Standard Metrics for Assessing Bat Activity Using Acoustics**
Jeff Gruver-WEST, Inc.
- 9:40–10:00 **Using Marine Radar for Wind Energy Studies**
Todd Mabee-ABR, Inc.
- 10:00–10:20 Use of Merlin Radar System for Bat & Wind Studies
TBA
- 10:20–10:40 **Q&A**
- 10:40–11:00 **Break**
- 11:00–11:30 **Evaluation of Study Design, Biases, and Limitations of Post-construction Studies**
Includes plot layout, bias trials, etc.
Wally Erickson-WEST, Inc.
- 11:10–11:30 **Handling Carcasses & Injured Bats, Collecting Ancillary Data**
Erin Baerwald-University of Calgary
- 11:30–12:00 **Post-construction Fatality Studies & Estimators of Wildlife Fatality**
Wally Erickson-WEST, Inc.
- 12:00–12:20 **Q&A**

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- 12:20–1:30 **Lunch**
- 1:30–1:45 **Options for Mitigating Bat Fatalities**
Ed Arnett-Bat Conservation International
- 1:45–2:25 **Reducing Bat Fatalities at Wind Energy Facilities by Changing Turbine Cut-in Speed**
Erin Baerwald-University of Calgary
Ed Arnett-Bat Conservation International
- 2:25–2:30 **The Potential for Acoustic Broadcasts to Deter Bats from Approaching Wind Turbines**
Joe Szewczak-Humbolt State University
Ed Arnett-Bat Conservation International
- 2:30 – 2:50 **Using Pre-construction Data to Optimize Mitigation Options**
Ed Arnett
- 2:50–3:20 **Q&A**
- 4:30-10:30 **Dinner / Equipment Demo: Spring Mtn Ranch State Park: Transportation Provided**
- Night Vision Goggles**
Todd Mabee-ABR, Inc.
- Thermal Imaging**
Rick Sherwin –Christopher Newport University
- Acoustic Detectors**
Chris Corben& Kim Livengood-Titley Electronics
Joe Szewczak- Humbolt State University
Mark Jensen-Binary Acoustic Technology
- Radar**
Rick Sherwin-Christopher Newport University

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Friday 8 April 2011

- 8:00–12:00 **Break Out Groups-Choose 1 Topic for Each Session**
- 8:00–8:50 **Session 1**-Radar, Carcass Searching, Wildlife Acoustics, Binary Acoustic Technology
- 8:55–9:45 **Session 2**-Radar, Carcass Searching, Wildlife Acoustics, Binary Acoustic Technology
- 9:45–10:15 **Break**
- 10:15 – 11:05 **Session 3**-Fatality Estimation, Acoustic Field Methods, Anabat, Petterson/Sonobat
- 11:10–12:00 **Session 4**-Fatality Estimation, Acoustic Field Methods, Anabat, Petterson/Sonobat

Anabat Detectors, Software, and Analysis

Chris Corben & Kim Livengood-Titley Electronics

Petterson Detectors, & Sonobat Software

Joe Szewczak-Humbolt State University

Wildlife Acoustics

Ian Agranat-Wildlife Acoustics

Binary Acoustic Technologies

Mark Jensen-Binary Acoustic Technology

Field Methods for Deploying Detectors

Donald Solick-WEST, Inc.

Fatality Estimation

Wally Erickson-WEST, Inc.

Carcass Searches

Ed Arnett-Bat Conservation International

Erin Baerwald-University of Calgary