



## Wind Energy and Wildlife Workshop

October 10 – 13, 2017

National Wind Technology Center, Louisville, CO

### Workshop Location:

National Wind Technology Center  
[18299 West 120th Avenue](#)  
[Louisville, CO 80027](#)<sup>1</sup>

### Hotel:

Hyatt House  
[13351 W. Midway Blvd.](#)  
[Broomfield, CO 80020](#)

### Sponsored and Planned by:

Association of Fish and Wildlife Agencies  
American Wind Wildlife Institute

Bat Conservation International  
National Renewable Energy Laboratory

## Agenda

*(As of August 2 - subject to change)*

### Tuesday, October 10 (Day 1)

1:00 pm	Leave Hotel for NWTC (Vans provided)	
1:45–2:15 pm	Welcome & Introductions	Karin Sinclair (NREL) Davia Palmeri (AFWA)
2:15–2:45 pm	Overview of Wind Turbine Technology	Robert Thresher (NREL)
2:45–3:15 pm	Environmental Impacts of Wind Energy	Karin Sinclair (NREL)
3:15–4:00 pm	Wind Energy Development: From Site Selection to Decommissioning	Michael Speerschneider (AWEA)
4:00–4:15 pm	Break	
4:15–4:45 pm	Mandatory Safety Training	NREL/NWTC Staff
4:45–5:15 pm	Q&A/Group Discussion	
5:15–6:15 pm	Dinner @ NWTC	Provided by NREL
6:15–6:45 pm	Acoustic Detectors	Michael Schirmacher (BCI)
6:45–7:30 pm	Thermal Video Cameras	Paul Cryan (USGS)
7:45 pm	Return to Hotel (Vans provided)	

<sup>1</sup> GPS Coordinates N 39 degrees 54' 49.35" and W 105 degrees 12' 49"

## Wednesday, October 11 (Day 2)

6:30 am	Breakfast available for those staying at the Hyatt House	
7:45 am	Leave Hotel for NWTC (Vans provided)	
8:30–9:00 am	Thermal Video Analysis	Michael Schirmacher (BCI)
9:00–9:45 am	Study Methods & Results for Bats	Michael Schirmacher (BCI)
9:45–10:30 am	Study Methods & Results for Raptors	Chris Farmer (DNV GL)
10:30–10:45 am	Break	
10:45–11:30 am	Study Methods Results for Grassland Birds	Chad LeBeau (WEST, Inc.)
11:30–11:45 am	Q&A/Group Discussion	
11:45–1:00 pm	Lunch & Prepare for Field Demonstrations	Provided by NREL
1:00–3:00 pm	Field Demonstrations for Raptors, Grassland Birds, and Bats (e.g. Point counts, telemetry, acoustics, fatality surveys)	Chris Farmer (DNVGL) Chad LeBeau (WEST, Inc.) Michael Schirmacher (BCI)
3:00–3:30 pm	Break (Return inside)	
3:30–4:15pm	Impact Reduction Strategies for Bats	Michael Schirmacher (BCI)
4:15–5:00 pm	Impact Reduction Strategies & Mitigation Options for Birds	Ian Evans (AWWI)
5:00–5:15 pm	Q&A/Group Discussion	
5:25 pm	Return to Hotel (Vans provided)	
7:00 pm	Optional Group Dinner (Individual pay)	

## Thursday 12 October (Day 3)

6:30 am	Breakfast available for those staying at the Hyatt House	
7:45 am	Leave Hotel for NWTC (Vans provided)	
8:30–9:00 am	Introduction to Estimating Fatality	Manuela Huso (USGS)
9:30–10:30 am	Fatality Estimator Software	Manuela Huso (USGS)
10:30–10:45 am	Break	
10:45–12:30 pm	Working Groups: Fatality Estimators	
12:30–1:00 pm	Lunch	Provided by NREL
1:00–2:00 pm	Review Working Group Results (15 min/group)	
2:00–2:30 pm	Logistics of Setting up Projects	Multiple Instructors
2:30–3:00 pm	Interpreting Proposals & Reports	Manuela Huso (USGS)
3:00–3:30 pm	Q&A/Group Discussion	
3:30–3:45 pm	Break	
3:45–4:45 pm	Tour of NWTC	
5:00 pm	Return to Hotel (Vans provided)	
7:00 pm	Optional Group Dinner (Individual pay)	

## Friday 13 October (Day 4)

6:30 am	Breakfast available for those staying at the Hyatt House	
7:45 am	Leave Hotel for NWTC (Vans provided)	
8:30–9:15 am	Comparison Between Common & Rare event Fatality Estimation	Manuela Huso (USGS)
9:15–10:00 am	Case Study for Estimating Rare Events	Manuela Huso (USGS)
10:00–10:30 am	Q&A/Group Discussion	
10:30–10:45 am	Break	
10:45–11:15 am	Multi-stakeholder Perspective: Moving Forward Collaboratively to Address Wind/Wildlife Issues	Facilitated Discussion
11:15–12:15 pm	Group Discussion/ Lunch	Provided by NREL
12:15–12:30 pm	Closing Remarks/Workshop Evaluation	
12:45 pm	Leave NWTC & Drive to Hotel (Vans Provided)	