

# JANET DEBELAK TYBUREC

## PROFESSIONAL PROFILE

Experienced author, educator, photographer, presenter, and wildlife biologist specializing in environmental and nature studies, especially addressing bat conservation and research. Works in various settings: lecture halls, classrooms, and outdoor field locations. Professional development, coordination, and management of multi-day trainings, workshops, and field surveys. Excellent attention to detail, reporting, organization, and budgeting. Since 1992 has organized, conducted, and instructed at over 175 workshop venues, personally training over 2,800 students on research skills for studying and managing bat populations across North America in addition to conducting field trainings and research worldwide.

## RELEVANT EXPERIENCE

*Author, Educator, Photographer, Wildlife Biologist (September 2012 to present)*

### **Bat Survey Solutions, LLC; Janet Tyburec Consulting (JTC), Tucson AZ**

*Duties:* Provide training and instruction on bat research, inventory, and monitoring, including physical capture techniques, radio-tracking, and acoustic surveys for private, federal and state agencies, including the USDA Forest Service, USDI Bureau of Land Management, National Park Service, Fish and Wildlife Service, and the Department of Defense and Army Corps of Engineers. Perform professional bat surveys for agency directors, staff, wildlife biologists, resource managers, seasonal employees, and volunteers.

*Contract Instructor (September 2002 to September 2012)*

### **Bat Conservation International (BCI), Austin TX**

*Job Duties:* Design and teach summer field workshops for BCI and its partner agencies and organizations about bat research and conservation, advanced capture techniques, acoustic monitoring, *Myotis sodalis* survey techniques, and inventory and management techniques; using field study techniques including mist netting, harp trapping, acoustic monitoring equipment and software; radio-tracking, banding, light-tagging, species identification, habitat assessment and management, status determination, and data management tools.

*Director of Education Programs (June 1996-September 2002); Assistant Dir. (September 1989-June 1996)*

### **Bat Conservation International (BCI), Austin TX**

*Administrative Duties:* Prepare annual departmental budget for three program activities; contribute to semi-annual departmental reports and provide organizational and donor annual reports.

*Job Duties:* Organize, schedule, promote, and instruct at BCI's educational workshops. Develop and edit educational materials, posters, books, audio/visual programs.

## EDUCATION

*Trinity University, San Antonio TX. May 1989*

**B.A., Biology and English:** Undergraduate Science Studies: Botany, Plant Physiology, Vertebrate Zoology, Ecology, Oceanography, Genetics, General Biology, Chemistry, Physics, Statistics  
Undergraduate English Studies: Elizabethan Playwrights, Complete Works of Shakespeare, American Novelists, Complete Works of Faulkner, Language Arts, Magazine Writing

*University of Colorado, Boulder CO. August 1988*

Course work in Comparative Ecology of Alpine and Desert Ecosystems

*Pima Community College, Tucson AZ. August 1984 - May 1985*

Course work in Creative Writing

### PUBLICATIONS

- Tyburec, J.D. 1998. Memoirs from bat camp. *BATS* 16(3): 8-9.
- Tyburec, J.D. 1998. (Ed.) *Discover Bats!* Bat Conservation International, Austin. 228 pages.
- Tyburec, J.D. 1999. Vacation bat watching in the tropics. *BATS* 17(4): 10-13.
- Tyburec, J.D. 2000. "Bats." *In: A Natural History of the Sonoran Desert*. S.J. Phillips and P.W. Comus (Eds.) University of California Press, Berkeley. Pages 461-472.
- Tyburec, J.D. 2003. "A Gallery of Workshop Wildlife" (photo essay) *BATS* 21(3): 10.
- Tyburec, J.D., C. Weise, A. McIntire, and S. Richardson. 2011. Bat Conservation: Priorities and Initiatives in the Sonoran Desert Region. *Sonorensis* 31 (1): 20-25.
- Tyburec, J.D. 2014. "Bats." *In: Cave Creek Canyon: Revealing the Heart of Arizona's Chiricahua Mountains*. ECO Wear & Publishing, Rodeo NM 274 pages.

### SELECT PRESENTATIONS

- Tyburec, J.D. 2012. *Acoustic Monitoring: A Silver-bullet or a Sticky-wicket?* Presentation at the Northeast Bat Working Group Meeting, Carlisle PA, January 2012.
- Tyburec, J.D. 2012. *Harp trap effectiveness for the Capture of Myotis leibii, small-footed myotis*. Presentation at the Northeast Bat Working Group Meeting, Carlisle PA, January 2012.
- Tyburec, J.D. and J.D. Chengler. 2013. *Using Auto-classifiers for Acoustic Surveys: Do Results Reflect Reality?* Presentation at the Northeast Bat Working Group Meeting, Albany NY, January 2013.
- Tyburec, J.D. and J.D. Chengler. 2013. *Auto-classifiers for Acoustic Surveys: A Bat in the Hand is Worth how Many Detectors in the Bush?* Presentation at Southeast Bat Diversity Network Meeting, Pikeville TN. Feb. 2013.
- Tyburec, J.D., J.D. Chengler and J.M. Szewczak. 2014. *Comparing four acoustic analysis software packages and the accuracies of their auto-classification results for determining bat occupancy in a habitat*. Presentation at the Southeast Bat Diversity Network Meeting, Nacogdoches TX. February 2014.
- Tyburec, J.D. 2015. *A Shout in the Dark: The (Cold, Dark) Reality of Applying Automated Classifiers for Acoustic Surveys to Determine Occupancy for Bats*. An invited presentation at the 2015 Joint Conference ASMR and ARRI 32nd Annual Meeting of the American Society of Mining and Reclamation 9th annual Meeting of the Appalachian Regional Reforestation Initiative, Lexington KY. June 2015.
- Tyburec, J.D., J.D. Chengler and J.M. Szewczak. 2016. *Improving Bat Survey Efficiency and Occupancy Results by using Simultaneous Capture and Acoustic Methods*. A poster presentation at the 46th Annual Symposium of the North American Society for Bat Research, San Antonio, TX. October 2016.

### SELECT BAT-SURVEY & ACOUSTIC-MONITORING PROJECTS

- 2009 - Acoustic ID Summary for 2005-2008 Bat Surveys conducted by the USDA-Forest Service, Region 1 (ID/MT): reviewing, vetting and reporting results for over 6,500 echolocation recordings.
- 2009 - 2011 Acoustic ID Summary for Bat Surveys conducted by Sanders Environmental: reviewing, vetting and reporting results for over 470,000 echolocation call recordings.
- 2012 - Capture and Acoustic Field Survey for the US Army Corps of Engineers (IL/MO): site selection for capture and acoustic inventories to assess management needs for T&E bats, data collection, reviewing, vetting and reporting results for over 120 bats captured and 12,000 echolocation call recordings collected.
- 2014 - Acoustic Field survey for URS Corporation to assess *Myotis leibii* habitat along a proposed PA Power and Light, ROW near Wilkes-Barre PA: Over 190 bat-detectors, collecting and analyzing over 90,000 recordings from nearly 6,000 hours of monitoring.
- 2016 - Capture and Acoustic Field Survey for the Sky Island Alliance and USDA Forest Service to survey bat occurrence at man-made wetlands designed for the recovery of the Chiricahua Leopard frog in Rucker Canyon (Chiricahua Mountains) AZ; site selection for capture and acoustic inventories over a 3-site, 5-night period; over 230 acoustic monitoring hours, 20 capture survey hours, over 170 bats captured and 7,700 echolocation call recordings analyzed and manually vetted.

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### CUSTOM TRAINING CLASSES DEVELOPED & TAUGHT

- 1992-2012 “Bat Conservation and Management” workshops, “Educator” workshops and “Decision Makers” workshops for Bat Conservation International, Inc. (BCI, Austin TX) conducted at venues in Arizona, California, Kentucky, Montana, Pennsylvania, Texas and Virginia.
- 2001-2012 “Acoustic Monitoring for Bats” workshops for BCI at venues in Arizona, California, Kentucky and Pennsylvania.
- 2008-2012 “Bat Study and Survey Techniques” workshops for Bat Conservation and Management, Inc. (BCM, Carlisle PA) at venues in Arizona, California, Indiana, Kentucky, Maryland, New Jersey, New York, Ontario, Pennsylvania, Tennessee, Texas and West Virginia.
- 2008 “Forest Bat Conservation and Inventory Techniques” workshop for the United States Forest Service, Coronado National Forest in Tucson AZ, 18-19 September.
- 2009 “Acoustic Monitoring as a Non-contact Bat Survey Method” workshop for Cleveland Metroparks in Akron OH, 25 August.
- 2009 “Bat Survey Techniques for Caves, Mines, Buildings, and Bridges” workshop for the United States Forest Service, Doublehead Ranger District, in Dillon MT, 14-17 September.
- 2009 “Forest Bat Conservation and Inventory Techniques” workshop for the United States Forest Service, Coronado National Forest and local partner agencies, in Tucson AZ, 12-13 November.
- 2010 “Introduction to Bat Conservation, Survey Methods, and Management” workshop for the United States Forest Service, Guadalupe National Forest, Carlsbad Ranger District, in Carlsbad NM, 6-8 July.
- 2010 “Forest Bat Conservation: Water, Mines, and Man-made Structures” workshop for the United States Forest Service, Lincoln National Forest, Smokey Bear Ranger District in Ruidoso NM, 15-17 July.
- 2010 “AnaBat Acoustic Survey Training” workshop for the Department of Defense, Nellis Air Force Base in Las Vegas NV, 22-24 October.
- 2011 “Bat Inventory and Monitoring” workshop for the United States Forest Service, Guadalupe National Forest and the Bureau of Land Management, in Carlsbad NM, 10-13 August.
- 2011 “White-nose Syndrome in Bats, History, Prevention, and Prognosis” class for the Department of Defense, in Sierra Vista AZ, 30 August-1 September.
- 2012 “Bat Capture and Acoustic Survey Techniques” class for the United States Forest Service, North Central Research Station, in Portal AZ, 19-21 May.
- 2012 “Bat Inventory and Monitoring” workshop for the Utah Bat Conservation Cooperative, joint agency: Bureau of Land Management, National Park Service and United States Forest Service in Escalante UT, 30 July-2 August.
- 2012 “AnaBat Acoustic Inventory Methods” workshop for the United States Fish and Wildlife Service, in McBee SC, 23-24 April.
- 2013 “SonoBat Acoustic Analysis Techniques” class for the Pima County Parks Department, in Tucson AZ, 22 April.
- 2013 “Acoustic Survey Field Techniques for Bat Studies” workshop for the United States Fish and Wildlife Service, in State College PA, 20-21 October
- 2014 “Pettersson Detector and SonoBat Software Acoustic Survey Techniques” workshop for Sanders Environmental Clients and Sub-contractors, in Somerset PA, 7-9 April.
- 2014 “Bat Detectors and Acoustic Survey Protocols” workshop for the United States Fish and Wildlife Service, in Dixon IA, 3-5 June.
- 2015 “Bat Survey Protocols: A Field Training Workshop for National Parks Service Staff” in Park City KY, 31 August - 4 September 2015.

### SKILLS AND INTERESTS

Writing (non-fiction, fiction, and creative), Photography (outdoor and nature; digital and film), Design/Layout (computer assisted), Drawing, drafting, painting, Cycling (recreational road biking; racing), Sea Kayaking, Running Exercise/Health/Nutrition, Hiking, Nature Study and Travel