

## SUMMARIES OF WORKSHOPS

### **WS 1. Simplifying Data Management by Using SonoBat From Recording to Report – Workshop**

**Leaders:** John Chenger, Bat Survey Solutions, and Joe Szewczak, SonoBat.

**Meeting Time:** 12:00 PM, Wednesday afternoon. 2 hours.

**Location:** Windward-Port room

**Workshop Size:** Limited to size of the room

**Registration:** Register for a seat and free trial of SonoBat via the [www.batmanagement.com](http://www.batmanagement.com) website.

**Description:** This will be a guided tour on how to use the SonoBatLIVE family of recorders with sophisticated GUANO integration for data management. For legacy detectors such as all Wildlife Acoustics, Pettersson D500, and Binary Acoustics, we will demonstrate using the SonoBat Data Wizard to achieve the same level of metadata management, how to fix a number of common post-processing problems, and how to use the SonoBatch classify tool, explaining why you might deviate from default settings. We will introduce the SonoVet tool and produce an initial summary report. Actual vetting of bat calls will take place from 3-5 PM. What to Bring: Participants can follow along if desired by bringing their pre-installed SonoBat-enabled laptop to this session, files Joe and John will be demonstrating will be available to copy prior to the event..

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### **WS 2. Full Spectrum and Zero Crossings: making the most of their different strengths – Workshop**

**Leader:** Chris Corben, Titley Scientific

**Meeting Time:** 12:30 PM, Wednesday afternoon. 1 hour.

**Location:** Anchor room

**Workshop Size:** Limited to 20

**Registration:** Register to participate in this workshop by sending an email to Kim Livengood at [kim@titley-scientific.us](mailto:kim@titley-scientific.us).

**Description:** Zero-crossings and full-spectrum methods have somewhat complementary strengths, and the best approach to acoustic analysis of bat calls is to use whichever is more appropriate for a specific task. We will demonstrate how the methods compare, which suits what roles best, and how to get the most from them.

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### **WS 3. Understanding Bat Calls and Improving Acoustic Monitoring – Workshop**

**Leaders:** John Chenger, Bat Survey Solutions, and Joe Szewczak, SonoBat.

**Meeting Time:** 3:00 PM, Wednesday afternoon. 2 hours.

**Location:** Windward-Port room

**Workshop Size:** Limited to size of the room

**Registration:** Register for a seat and free trial of SonoBat via the [www.batmanagement.com](http://www.batmanagement.com) website.

**Description:** With almost 50 years of experience with bat call ID, acoustic monitoring, software development, and training workshops across the US between them, Joe Szewczak and John Chenger will focus on manual vetting of calls to recognize species, steps to improve the quality of the calls that are recorded, equipment problems, and overcoming insects, birds, and other non-bat noise. Presented partly as software tutorial, participants will pick up tips and tricks of the manual review workflow including the SonoVet tool, GUANO metadata protocols, filters, using reference views, data management, and more. Workshop leaders will be available for 1:1 discussions after the workshop. Participants will be able to submit call files for review during the workshop. What to Bring: Participants can follow along if desired by bringing their pre-installed SonoBat-enabled laptop to this session; files Joe and John will be demonstrating will be available to copy prior to the event.

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**WS 4. Complete Solutions for Bat Research from Wildlife Acoustics: Hands-on Workshop featuring the Song Meter SM4BAT, Echo Meter Touch 2 PRO, and Kaleidoscope Pro 5 software for bat analysis work – Workshop**

**Leader:** Mona Doss, Wildlife Acoustics

**Meeting Time:** 3:00 PM, Wednesday afternoon. 1.5-2 hours.

**Location:** Tug room

**Workshop Size:** Limited to 20

**Registration:** Register to participate in this workshop at [www.wildlifeacoustics.com/sbdn](http://www.wildlifeacoustics.com/sbdn).

**Description:** Wildlife Acoustics' well known analysis software and detectors continue to benefit from a number of technology, performance and UI enhancements. This hands-on workshop provides an opportunity to see and try the full suite of products. Use Kaleidoscope Pro 5's improved bat auto ID software and learn more about new features such as the Cloud Database, high speed Cloud-based Computing and File Sharing/Collaboration capabilities. Experience first-hand how easily you can deploy a Song Meter SM4BAT with easy Quick Start schedules. For advanced users, learn how to create and protect customized schedules, get tips on how to extend deployments and much more. Learn about the second generation Echo Meter Touch expanded and improved list of bat classifiers and UI enhancements and superior microphones. See why the Echo Meter Touch 2 PRO is the most advanced handheld bat detector regardless of price and why it should be part of your field kit.

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**WS 5. The New Anabat Insight Analysis Software Introduction – Workshop**

**Leader:** Kim Livengood, Titley Scientific

**Meeting Time:** 3:00 PM, Wednesday afternoon. 2 hours.

**Location:** Anchor room

**Workshop Size:** Limited to 25

**Registration:** Register to participate in this workshop by sending an email to Kim Livengood at [kim@titley-scientific.us](mailto:kim@titley-scientific.us).

**Description:** Insight offers an innovative way to view, identify, label, and create reports from Full Spectrum and Zero Cross data. We will offer an overview of the features and allow participants to follow along on their own machines or watch us manipulate files. If you wish to follow along, we can provide the files and software before the workshop to allow you to be prepared to participate. Nothing needed to view the workshop. Those wanting to follow along need either a PC or Mac laptop with the latest Anabat Insight software installed along with the example files (contact us for the software version and files).

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**WS 6. Automated Software Accuracy Testing: Understanding and Improving the Process – Workshop**

\*Cancelled\*

**WS 7. From Haircuts to Origin Models: A Guide to Emerging Tools to Study Animal Movement by Stable Isotope Analysis – Workshop**

**Leader:** Caitlin J. Campbell, Univ. of Florida

**Meeting Time:** 8:00 AM, Thursday morning. 1.5 hours.

**Location:** Tug room

**Workshop Size:** Limited to size of the room

**Registration:** Registration is not required for this workshop.

**Description:** This workshop will introduce participants to stable isotopes as a means of creating spatially-explicit models of animal origin. We will cover the research and management applications of stable isotopes; study design and sample analysis; obtaining environmental isotope data; relating tissue to environmental isotope data; creating probabilistic models of individual origin; new methods of validating probabilistic models; and, time permitting, emerging methods to group and compare individuals by varying origins. Participants will be encouraged to bring their own computers and will be provided with instructions as to how to load R packages and datasets to perform example analyses during the workshop. We also encourage participants to, when applicable, bring application questions and their own data for consultation during or after the workshop.

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