



MERLIN TUTTLE'S
BAT CONSERVATION



BAT SURVEY
SOLUTIONS
Think. Do. Succeed.



SWIFT RIVER PECANS
LLC
FENTRESS, TEXAS



Join the Nightlife!

Get immersed in the amazing world of bats and their role in pest control with leading experts, Merlin Tuttle, Janet Tyburec, Troy Swift, and Charles Rohla. Learn hands-on bat house building, bat mist netting and acoustics, and sustainable agriculture techniques! Limited Capacity Event

\$275
before Sept 1
\$750 value

Includes

- ✓ Private Tour of Bracken Cave
- ✓ Expert Guided Lectures and Field Trips
- ✓ Meals
- ✓ Signed First Copy of The Bat House Guide
- ✓ 1 Year of Leadership Membership to MTBC
- ✓ Student and Early Bird Discounts

Dates



September 22-24, 2022

Location



Courtyard Marriott, San Marcos
625 Commercial Lp,
San Marcos, TX 78666

<https://jointhenightlife.eventbrite.com>

Contact Us: Danielle@MerlinTuttle.org

Scan QR to Register



JOIN THE NIGHTLIFE!

By: *Swift River Pecans, Bat Survey Solutions, and Merlin Tuttle's Bat Conservation*
22-24 September 2022 · Courtyard Marriott, San Marcos, TX

DAY 1: THURSDAY, SEPTEMBER 22

6:00p — Kick-off Picnic Dinner Bat Emergence at Bracken Cave

DAY 2: FRIDAY, SEPTEMBER 23

9:00a — Check-in, Introductions, and Set-up for Instruction
9:30 — Lecture/Discussion: *Introducing the Amazing World of Bats*
10:45 — Coffee Break
11:00 — Lecture/Discussion: *Pecan History & The Pecan Belt*
12:00 — Lunch Break (not included)
1:00 — Lecture/Discussion: *Bat House Characteristics & Uses*
2:00 — Field Trip: Bat House Building, Lumber Mill, Retail Shop, Pecan Orchard Tour
5:30 — Dinner (included)
6:30 — Bat Capture & Detector Demo Swift River Pecans, Site 1

DAY 3: SATURDAY, SEPTEMBER 24

9:00a — Lecture/Discussion: *Introduction to Texas Bats*
10:00 — Lecture/Discussion: *Echolocation 101*
10:45 — Coffee Break
11:00 — Lecture/Discussion: *Bat Survey Methods*
12:00 — Lunch Break (not included)
1:00 — Lecture/Discussion: *Swift River Pecans Survey Results*
2:00 — Lecture/Discussion: *Citizen Science Opportunities*
2:45 — Coffee Break
3:00 — Lecture/Discussion: *Bats in Agriculture*
4:00 — Field Trip: Hands-on Netting, Trapping, & Acoustic Demonstration
5:30 — Dinner (included)
6:30 — Bat Capture & Detector Demo Swift River Pecans, Site 2

MERLIN TUTTLE

Founder and Executive Director, Merlin Tuttle's Bat Conservation – Austin, TX



Merlin Tuttle is an internationally recognized leader in research, conservation, and photography of bats. He founded and led Bat Conservation International (BCI) for nearly 30 years before founding Merlin Tuttle's Bat Conservation, where he now provides the world's finest bat photo gallery and resources. With more than 60 years of experience, he has authored numerous scientific and popular articles and several books about bats. Merlin will lead:

Introducing the Amazing World of Bats

- Bat Diversity, Behavior, and Needs
- Ecosystem Contributions
- Agricultural Values
- Threats to Survival
- Benefits of Conservation

Bat House Characteristics & Uses

- Successful Designs and Materials
- Ideal Locations for Installation
- Common Bat House Species
- Bat Houses in Agriculture
- Tools for Conservation

Introduction to Texas Bats

- Diversity and Distribution
- Feeding and Roosting Behavior
- Nuisance and Public Health Concerns

Citizen Science Opportunities

- Bat Walks
- Bat House Testing and Monitoring
- Local Programs for Schools, Garden Clubs, Libraries, etc.

JANET DEBELAK TYBUREC

Owner, Bat Survey Solutions, LLC – Tucson, AZ



Janet Tyburec worked at Bat Conservation International for over 15 years, teaching bat study, management, and conservation techniques before founding, Bat Survey Solutions, in 2016. She has provided over 600 training classes for more than 3,500 students in the United States, Mexico, and Central and South America. She is co-author of *Bats of Oklahoma* (2021), and author of many prominent book chapters on the bats of Arizona. Janet will lead:

Echolocation 101

- How Bats Use Sound to Navigate and Forage
- How Humans Interpret Sound Using Pictures
- How High-frequency Sound Behaves in Air and is Recorded
- How Wildlife Biologists Use Echolocation to Survey for Bats

Bat Survey Methods

- Pros and Cons of Surveying Bats Using:
 - Roost Surveys
 - Capture Surveys
 - Acoustic Surveys
 - Species-specific Survey Methods

Swift River Pecans Survey Results To-date

- Relative Species Diversity Results from April 2022
- Capture Surveys
- Acoustic Surveys
- Species Suspected to Occur yet to be Documented

Field Trip: Netting, Trapping, & Acoustic Survey Demonstrations

- Single- and Triple-high Mist Net Setting and Micro-siting Tips
- Double- and Triple-banked Harp Traps
- Stationary Point, Long-term Acoustic Monitoring
- Simultaneous Active Monitoring while Conducting Capture Surveys

TROY SWIFT

Owner, Swift River Pecans, LLC – Lockhart, TX



Troy Swift is the owner and operator of 266 acres of native and improved pecan orchards along the San Marcos River. Since 1998, he has planted and over 1,000 irrigated trees, established a sawmill and kiln, and received state-wide accolades for his work. He has been a member of the Texas Pecan Growers Association for over 20 years and a board member for 6. He is also a member of the Oklahoma Pecan Growers Association and the Texas Pecan Board. Troy will lead:

Pecan History & the Pecan Belt (with Charles Rohla)

- The Pecan Industry
- The Swift River Pecan Story
- Pecan Orchard Types: Native vs Improved
- Orchard Establishment and Understanding the Impact on Bats

Field Trip: Bat House Building, Lumber Mill, Retail Shop, Pecan Orchard Tour

- Ideal Bat House Characteristics
- Lumber Mill Operations, Custom Slabs, and Pecan Based Products
- Pecan Orchard and Experimental Bat House Tour

Bats in Agriculture

- Pecan Pests and Bats
- Regenerative Efforts and How Bats Can Help
- Expanding Use of Bats to Bigger Agriculture

CHARLES ROHLA

Manager of Pecans, Noble Research Institute – Ardmore, OK



Charles Rohla conducts pecan research and provides data-driven results to producers. He leads efforts to bring specialty agriculture groups together to address progressive agricultural issues and is active in various state and national agriculture organizations. His research projects include innovative growing methods, increased crop production, and new technologies. He has also worked at the Animal Science Nutrition Physiology Research Center.

