

THE SIXTH NORTH AMERICAN SYMPOSIUM  
ON BAT RESEARCH

OCTOBER 10 and 11, 1975

at

THE UNIVERSITY OF NEVADA

LAS VEGAS, NEVADA

W. Glen Bradley and Michael J. O'Farrell,  
Co-Chairmen, Local Committee  
Roy Horst, Chairman, Program Committee

Friday, October 10, 1975

- 8:30-9:00 Registration
- 9:00 Opening Remarks and Announcements, Roy Horst
- 9:15 Welcome, Dr. Donald Baepler, President, University of Nevada  
introduced by W. Glen Bradley
- Session on Anatomy and Physiology,  
Brock Fenton, Chairman
- 9:30 COMPARATIVE ANATOMY OF THE VOMERONASAL ORGAN COMPLEX IN BATS.  
J. Gregory Cooper and Kunwar Bhatnagar. University of Louisville,  
Louisville, Kentucky 40201
- 9:50 FLIGHT MECHANICS AND AERODYNAMICS OF BIRDS AND BATS. Carl Brandon,  
University of Massachusetts, Amherst, Massachusetts 01002
- 10:10 WING MUSCLE CONTRACTION IN RELATION TO AMBIENT TEMPERATURE IN SOME  
SPECIES OF DESERT BATS. Zachary C. Nelson, Joseph R. Hirshfeld,  
Donald O. Schreiweis, and Michael J. O'Farrell. University of Nevada,  
Las Vegas, Nevada 89154
- 10:30 Coffee Break
- 11:00 SCANNING ELECTRON MICROSCOPY OF VAMPIRE BAT TEETH. Ira Greenbaum and  
Barry Steinberg. Texas Tech University, Lubbock, Texas 79409
- 11:20 CYTOLOGICAL EVIDENCE OF SEASONAL FUNCTIONAL CHANGES IN PINEAL AND  
CIRCUMVENTRICULAR TISSUES OF MYOTIS LUCIFUGUS AND M. SODALIS.  
Wilbur B. Quay. University of Wisconsin, Madison, Wisconsin 53706
- 11:40 SEASONAL CHANGES IN BROWN FAT DEPOSITS IN PIPISTRELLUS HESPERUS AND  
MYOTIS CALIFORNICUS. Donald O. Schreiweis. University of Nevada,  
Las Vegas, Nevada 89154
- 12:00 VARIATIONS IN CARIBBEAN POPULATIONS OF MOLOSSUS. Judy Eger, Royal  
Museum, Toronto, Ontario.
- Lunch
- Session on Behavior, Terry Vaughan, Chairman
- 1:45 SUMMER ACTIVITY PATTERNS OF SOME DESERT BATS. Caris L. Carow,  
W. G. Bradley and M. J. O'Farrell. University of Nevada, Las Vegas,  
Nevada 89154
- 2:00 PRECISION IN PREY SELECTION BY THE AFRICAN TRIDENT-NOSED BAT.  
Hal Black, Brigham Young University, Provo, Utah 84601.

- 2:20 ASPECTS OF SOCIAL BEHAVIOR IN CAROLLIA. Fran Lang Porter, Washington University, St. Louis, Missouri 63130.
- 2:40 RESPONSES OF BATS TO PLAYED BACK SOUNDS: FORAGING AND DISTRESS. M. Brock Fenton, Carleton University, Ottawa, Ontario.
- 3:00 Coffee Break
- 3:30 PRELIMINARY OBSERVATIONS ON THE FORAGING BEHAVIOR OF CAROLLIA PERSPICILLATA IN WESTERN COSTA RICA. Theodore H. Fleming and E. Raymond Heithaus. University of Missouri, St. Louis, Missouri 63121 and Northwestern University, Evanston, Illinois 60201
- 3:50 NIGHT ROOST UTILIZATION IN MYOTIS LUCIFUGUS. Edythe L.P. Anthony, Boston University, Boston, Massachusetts 02215.
- 4:10 NIGHT ROOSTING BEHAVIOR IN SOME SPECIES OF DESERT BATS. Joseph R. Hirshfeld, Zachary C. Nelson, and Michael J. O'Farrell. University of Nevada, Las Vegas, Nevada 89154
- 4:30 Short Business Meeting: Roy Horst  
Evening "Activities" to be announced: M. J. O'Farrell.

Saturday, October 11, 1975

Session on Ecology, James Findley, Chairman

- 9:00 FORAGING STRATEGY OF THE GIANT LEAF-NOSED BAT HIPPOSIDEROS COMMERSONI. Terry A. Vaughan, Northern Arizona University, Flagstaff, Arizona 86001
- 9:20 ECOLOGICAL INFERENCES FROM THE MORPHOLOGICAL STRUCTURE OF BAT FAUNAS. Michael Schumm, Inhalation Toxicology Research Institute, Albuquerque, New Mexico 87115.
- 9:40 PHILOPATRY AND MOVEMENT PATTERNS IN SOUTHEASTERN POPULATIONS OF MYOTIS GRISESCENS. Merlin D. Tuttle, Milwaukee Public Museum, Milwaukee, Wisconsin 53233.
- 10:00 FEEDING ECOLOGY OF AN INSECTIVOROUS BAT: A TIME-ENERGY APPROACH. Thomas H. Kunz, Boston University, Boston, Massachusetts 02215
- 10:20 Coffee Break
- 11:00 COMMENTS ON MOLOSSID USE OF TWO WATERHOLES IN MERIDA, YUCATAN, MEXICO. John B. Bowles, Keith Erickson and Jane Groen. Central College, Pella, Iowa 50219.

- 11:15 LEPTONYCTERIS IN ARIZONA: FEEDING STRATEGIES, POPULATION DECLINES AND AGAVE REPRODUCTION. Donna J. Howell. University of Florida, Gainesville, Florida 32601.
- 11:25 ECOLOGICAL STUDIES OF THREE SPECIES OF AFRICAN TADARIDA. Richard K. LaVal and Margaret L. LaVal, University of Missouri, Columbia, Missouri 65201.
- 11:45 THE MOLOSSIDAE: A MORPHOMETRIC OVERVIEW WITH ECOLOGICAL INFERENCES. Patricia W. Freeman, University of New Mexico, Albuquerque, New Mexico 87131.

Lunch

Section on Conservation, Donna J. Howell, Chairman

- 2:00 STATUS, WINTER HABITAT, AND MANAGEMENT OF THE ENDANGERED INDIANA BAT, MYOTIS SODALIS. Stephen R. Humphrey, Florida State Museum, Gainesville, Florida 32611.
- 2:20 STATUS AND MOVEMENTS OF MYOTIS GRISESCENS IN THE SOUTHERN OZARKS. Michael J. Harvey, Michael L. Kennedy, and James W. Hardin, Memphis State University, Memphis, Tennessee 38152 and Southern Illinois University, Carbondale, Illinois 62901.
- 2:35 ORGANOCHLORIDE RESIDUES AND REPRODUCTION IN THE BIG BROWN BAT, EPTESICUS FUSCUS. Donald R. Clark, Jr. and Thair G. Lamont. Patuxent Wildlife Research Center, Laurel, Maryland 20811.
- 2:50 THE STATUS OF TWO ENDANGERED BAT SPECIES IN WEST VIRGINIA. John S. Hall, Albright College, Reading, Pennsylvania 19604.
- 3:10 PESTICIDE RESIDUE LEVELS IN TADARIDA BRASILIENSIS FOLLOWING A SIMULATED MIGRATORY FLIGHT. Kenneth N. Geluso, J. Scott Altenbach and Don E. Wilson, University of New Mexico, Albuquerque, New Mexico 87131 and U. S. National Museum of Natural History, Washington, D.C.
- 3:30 A PROGRESS REPORT: BAT CONSERVATION. Pheobe Wray, Endangered Species Productions, Leominster, Massachusetts 01453.
- 3:45 Business Meeting: Roy Horst

Agenda:

1. Site for Next Meeting
2. Worldwide Bat Conference: James Simmons
3. Bat Research News
4. Budget Report
5. Other Business

Adjournment.