

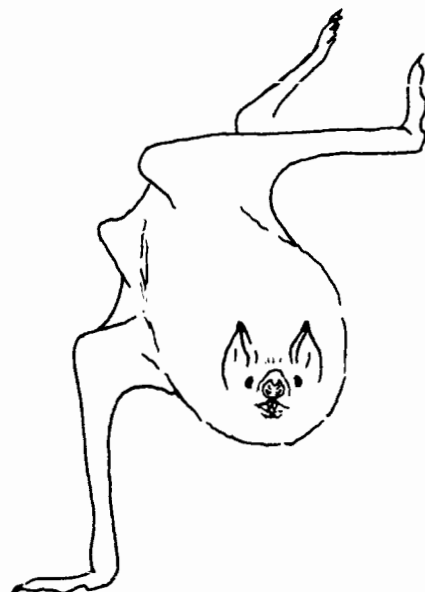
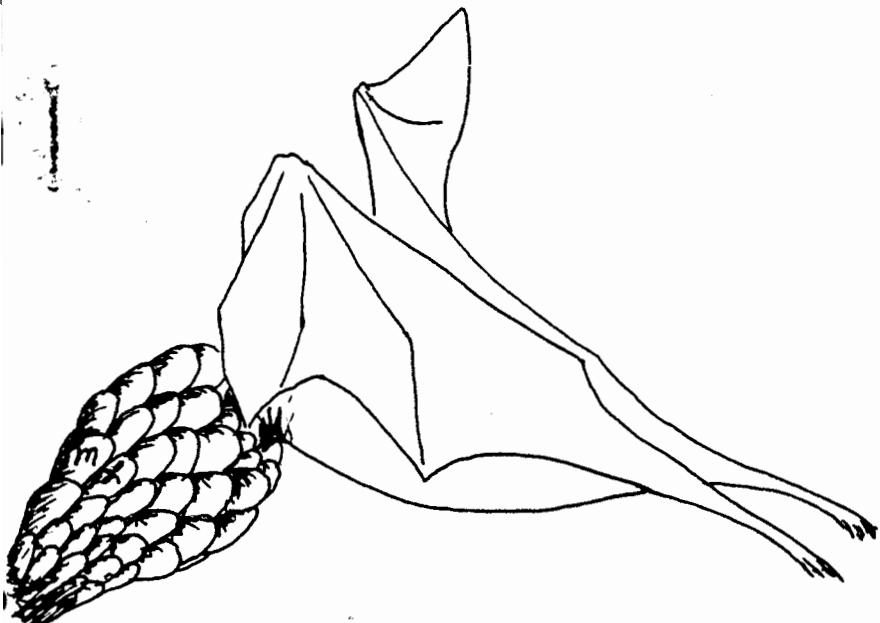
THE SECOND SOUTHWESTERN SYMPOSIUM
ON BAT RESEARCH

NOVEMBER 26 and 27, 1971

at

THE UNIVERSITY OF NEW MEXICO

James S. Findley, Chairman, Local Committee
Roy Horst, Chairman, Program Committee



Friday, Nov. 26, 1971

9:00-12:00

Registration, Get Acquainted, Get Organized

1:00

Opening Remarks
Roy Horst and James S. Findley

Session on Morphology, Philip H. Krutzsch, Chairman

1:10

ENAMEL AGENESIS IN SPECIES OF PTEROPUS. Carleton J. Philips,
Hofstra University and Hugh H. Genoways, Texas Tech University.

1:25

THE FLIGHT AND PECTORAL ANATOMY OF THE LONG-NOSED BAT LEPTONYCTERIS
SANBORNI. J. Scott Altenbach, Colorado State University.

1:40

THE BACULUM OF BATS OF THE GENUS MYOTIS. James S. Findley, The
University of New Mexico.

1:55

HIND LIMB MORPHOLOGY IN THE GENUS NOCTILIO. Timothy Strickler,
The University of Chicago.

2:10

GASTRIC MORPHOLOGY IN SELECTED MORMOOPID AND GLOSSOPHAGINE BATS
AS RELATED TO SYSTEMATIC PROBLEMS. G. Lawrence Forman, Rockford
College.

2:25

MORPHOLOGICAL DIVERSITY AND ECOLOGICAL INFERENCE IN THE GLOSSOPHAGINAE.
John R. Winklemann, Gettysburg College.

2:40

INDICATIONS OF ADAPTIVE SIGNIFICANCE IN BAT HAIRS SHOWN BY STEREOSCAN
PHOTOGRAPHY. Donna J. Howell and Norman Hodgkins, The University of
Arizona.

3:00

Coffee Break.

Session on Physiology, Eugene Studier, Chairman

3:20

THE ENERGETICS OF TEMPORATE CAVE BATS IN A SUBTROPICAL ENVIRONMENT.
Brian K. McNab, University of Florida.

3:40

FLIGHT PHYSIOLOGY OF FLYING FOXES: A PROGRESS REPORT. Roger E.
Carpenter, San Diego State College.

4:00

URINE CONCENTRATING ABILITY OF SOME INSECTIVOROUS BATS: A PROGRESS
REPORT. Kenneth N. Geluso, The University of New Mexico.

4:15

ECHOLOCATION IN BATS: DOPPLER-SHIFTED ECHOES. James A. Simmons,
Princeton University and Donna J. Howell, University of Arizona.

4:35

BODY WEIGHT AND FAT LEVELS OF THE FREE-TAILED BAT IN LOUISIANA.
John F. Pagels, Virginia Commonwealth University.

4:50

REPRODUCTIVE BIOLOGY OF THE PTEROPID EONYCTERIS SPELAEA.
Philip H. Krutzsch, University of Arizona.

- 5:10 REPRODUCTION IN LASIONYCTERIS NOCTIVIGANS. Jay Dee Druecker,
The University of New Mexico.
- 5:20 Several movie films will be shown at this time. Location and titles
will be announced.
- 6:00 Dinner as per James Findley's instructions.
- 8:30 Soapbox meeting on any and all topics related to Chiroptera by
any and all who care to stick their necks out! Location will be
announced.

Saturday, Nov. 27, 1971

Session on Taxonomy, Terry Vaughan, Chairman

- 8:45 a.m. WILL THE REAL CALIFORNICUS PLEASE STAND UP? Michael A. Bogan,
The University of New Mexico
- 9:05 A REVIEW OF THE LARGE SPECIES OF ARTIBEUS from western South
America. Donald R. Patten, Natural History Museum of Los Angeles
County.
- 9:20 A PRELIMINARY REVIEW OF THE SYSTEMATIC STATUS OF THE TADARIDA
AFRICANA-FULMINANS-MASTERSONI complex. R.L. Peterson, Royal Ontario
Museum.
- 9:35 Notes on MYOTIS AUSTRORIPARIUS in Indiana.
Russell E. Mumford, Purdue University.
- 9:50 Coffee break

Session on Behavior, Robert J. Baker, Chairman

- 10:10 Vocal Communication in the Pallid Bat, ANTROZOUS PALLIDUS.
Patricia Brown, University of California, Los Angeles.
- 10:25 REPRODUCTIVE BEHAVIOR IN A CAPTIVE COLONY OF MOLOSSUS ATER.
Margaret Langworthy and Roy Horst, University of Vermont.
- 10:40 DIURNAL BEHAVIOR PATTERNS OF THE EVENING BAT, NYCTICEUS HUMERALIS.
Larry C. Watkins, The University of Kansas.
- 11:00 THE USE OF ULTRASONIC SENSORS IN MONITORING BAT ACTIVITY.
M. Brock Fenton, Carleton University.
- 11:15 THE VERTICAL STRATIFICATION OF BATS IN NEOTROPICAL FORESTS.
Frank J. Bonaccorso, University of Florida and Dennis C. Turner,
The Johns Hopkins University.

- 11:30 RANDOMNESS IN BAT HOMING. Don Wilson, Universidad de Costa Rica, and James S. Findley, University of New Mexico.
- 11:45 HIGH ALTITUDE FLIGHTS OF MEXICAN FREE-TAILED BATS DETECTED BY RADAR. Timothy C. Williams, et al, State University of New York at Buffalo.
- 12:00 Lunch
- Session on Ecology, E. Lendell Cockrum, Chairman
- 1:30 THE STATUS OF SOME POPULATIONS OF NORTH AMERICAN BATS. Clyde Jones, U.S. National Museum.
- 1:45 Population Ecology of MYOTIS LUCIFUGUS in Indiana and Kentucky. Stephen R. Humphrey and James B. Cope, University of Florida.
- 2:05 HOST RELATIONSHIPS OF THE BATFLY, MEGISTOPODA ARANAE, a parasite of ARTIBEUS JAMAICENSIS in Panama. William L. Overal, The University of Kansas.
- 2:15 INTERESTING AND CRYPTIC PARASITES OF BATS. Albert J. Beck, University of California, Berkeley.
- 2:25 SOME ASPECTS OF NICHE ECOLOGY IN SELECTED COSTA RICAN BATS. Michael A. Mares and Thomas B. Keyse, University of New Mexico.
- 2:40 A PRACTICAL TRAP FOR TEMPERATE AND TROPICAL BATS. Merlin D. Tuttle, University of Kansas.
- 2:55 RESOURCE EXPLOITATION BY THE CAVE BAT, MYOTIS VELIFER. Thomas H. Kunz, Boston University.
- 3:10 Coffee break.
Ecology Session continued.
- 3:30 FOOD HABITS OF CERTAIN BATS OF BIG BEND NATIONAL PARK. David A. Easterla, Purdue University, and John O. Whitaker, Jr., Indiana State University.
- 3:45 BAT FOOD HABITS IN TWO HABITATS OF COSTA RICA. Alberto Cadena, The University of Kansas.
- 4:00 A STRATIGRAPHIC TECHNIQUE FOR DATING BAT GUANO DEPOSITS. Michael Petit and J. Scott Altenbach, Colorado State University.
- 4:15 MOVEMENT PATTERNS OF SEVERAL SPECIES OF COSTA RICAN BATS. Theodore H. Fleming, University of Missouri - St. Louis and Don Wilson, Universidad de Costa Rica.