

Effect of radio package on bird flight performance. COLIN J. PENNYCUICK, Dep. Biol., Univ. Miami, Coral Gables, FL.

Effects of circadian phase on oxygen consumption, body temperature, and thermal conductance in Glaucous-winged Gulls (*Larus glaucescens*). MARK R. OPP and NIGEL J. BALL, Dep. Zool., Washington State Univ., Pullman, and Univ. Arkansas, Fayetteville.

Delayed maturation and neoteny in two manakins of the genus *Chiroxiphia*. MERCEDES S. FOSTER, Fish & Wildl. Serv., Natl. Mus. Nat. Hist., Washington, DC.

THURSDAY MORNING, 21 AUGUST

VA. EVOLUTION & SYSTEMATICS II

Mercedes S. Foster, Chr.

Average genomic rates of evolution in birds. CHARLES G. SIBLEY and JON E. AHLQUIST, Peabody Mus. Nat. Hist., Yale Univ., New Haven, CT.

Rates of single-copy DNA evolution in herons. FREDERICK H. SHELDON, Dep. Biol., Yale Univ., New Haven, CT.

Patterns of genetic differentiation in the Laridae. SHANNON J. HACKETT and ROBERT M. ZINK, Mus. Zool., and Dep. Zool. & Physiol., Louisiana State Univ., Baton Rouge.

Chromosome-banding homologies of North American doves and pigeons. HOLLY H. HOBART, Dep. Ecol. & Evol. Biol., Univ. Arizona, Tucson, and A. D. STOCK, City of Hope Natl. Med. Center, Duarte, CA.

Genetic variability in large vs. small populations of the Red-cockaded Woodpecker. PETER W. STANGEL, Savannah River Ecol. Lab., Aiken, SC.

*Phylogenetic relationships of avian orders as ascertained by amino acid sequence data. MICHELE R. TENNANT, Dep. Biol. Sci., Wayne State Univ., Detroit, MI.

Population structure of Neotropical forest birds: inferences from electrophoretic data. A. P. CAPARELLA, Mus. Zool., and Dep. Zool. & Physiol., Louisiana State Univ., Baton Rouge.

Results of avian surveys in the forest zone of Maranhao, Brazil. DAVID C. OREN, Departamento Zoologia, Museu Paraense Emilio Goeldi, Belem, Para, Brazil.

Genic population structure and gene flow in the Northern Flicker (*Colaptes auratus*) hybrid zone. THADDEUS A. GRUDZIEN and WILLIAM S. MOORE, Dep. Biol. Sci., Wayne State Univ., Detroit, MI.

The Northern Flicker hybrid zone. WILLIAM S. MOORE, Dep. Biol. Sci., Wayne State Univ., Detroit, MI.

Geographic variation in *Oporornis* warblers. JAY PITOCHELLI, Dep. Ornithol., Am. Mus. Nat. Hist., New York, NY.

VB. POPULATION ECOLOGY

Paul B. Hamel, Chr.

Geographic variation in clutch size of the Red-winged Blackbird (*Agelaius phoeniceus*): a continental view. R. TODD ENGSTROM, Dep. Biol. Sci., Florida State Univ., Tallahassee.

A statistical model of the cost of flight. GONZALO CASTRO and J. P. MYERS, Acad. Nat. Sci., Philadelphia, PA, and Biol. Dep., Univ. Pennsylvania, Philadelphia.

The impact of winter bird-feeding on survival rates of Black-capped Chickadees (*Parus atricapillus*). MARGARET BRITTINGHAM and STANLEY TEMPLE, Dep. Wildl. Ecol., Univ. Wisconsin, Madison.

Population numbers, distribution, and movement patterns of the endangered Brown Pelican in the Puerto Rican Bank region, 1980-83. JAIME A. COLLAZO and ERWIN E. KLAAS, Dep. Animal Ecol., Iowa State Univ., Ames.

Seasonal changes in bird populations along an elevational gradient, La Selva-Braulio Carillo extension, Costa Rica. BETTE A. LOISELLE, Dep. Zool., Univ. Wisconsin, Madison, and JOHN G. BLAKE, Nat. Resources Res. Inst., Univ. Minnesota, Duluth.

Nonhunting mortality of postbreeding Wood Ducks in north Alabama. JOHN D. THOMPSON and GUY A. BALDASSARRE, Dep. Zool.-Entomol. & Alabama Agric. Exp. Stat., Auburn Univ., Auburn, AL.

An analysis of observer differences in the Breeding Bird Survey. JOHN R. SAUER, SAM DROEGE, and DANNY BYSTRAK, Office Migratory Bird Manage., U.S. Fish & Wildl. Serv., Laurel, MD.

Avian mortality associated with Hurricane Elena. THEODORE R. SIMONS, USNPS, Gulf Islands Natl. Seashore, Ocean Springs, MS.

The ecology of female Mallards (*Anas platyrhynchos*) wintering in the Lower Mississippi Valley. KEN REINECKE, U.S. Fish & Wildl. Serv., Vicksburg, MS.

Florida Scrub Jay dynasties. JOHN W. FITZPATRICK, Bird Div., Field Mus. Nat. Hist., Chicago, IL, and GLEN E. WOOLFENDEN, Dep. Biol., Univ. South Florida, Tampa.

THURSDAY AFTERNOON, 21 AUGUST

VIA. BEHAVIOR

Colin J. Pennyquick, Chr.

Activity budgets of Mallards and American Wigeon wintering in east-central Alabama. GUY A. BALDASSARRE, Dep. Zool.-Entomol., Auburn Univ., Auburn, AL, and RICHARD E. TURNBULL, Florida Game & Fresh Water Fish Comm., Okeechobee.

*Spatial, temporal, and behavioral patterns of male-male association in Long-tailed Manakins *Chiroxiphia linearis*. DAVID B. McDONALD, Dep. Ecol. & Evol. Biol., Univ. Arizona, Tucson.

Influence of environmental conditions, sex, age, and paired status on behavior of Common Goldeneyes (*Bucephala clangula*) in winter. DIANE ROTH EGGEMAN and PATRICK W. BROWN, Wildlife Dep., Univ. Maine, Orono.

The White-winged Trumpeter: anomalous behavior in a member of the previously unstudied family Psophiidae. PETER T. SHERMAN, Dep. Zool., Univ. California at Davis, Davis, and JENNIFER PRICE, 601 S. Meramec, Clayton, MO.

Anti-social behavior in adolescent male Yellow-rumped Caciques. SCOTT K. ROBINSON, Illinois Nat. Hist. Survey, Champaign.

VIB. VOCALIZATIONS

Ronald L. Mumme, Chr.

Development and divergence of Tree Swallow and Violet-green Swallow vocalizations. ROBERT R. COHEN, Dep. Biol., Metropolitan State Col., Denver, CO.

Do nestling Mourning Doves recognize perch coos of their male parents? RONALD R. HITCHCOCK, RALPH E. MIRARCHI, and ROBERT S. LISHAK, Dep. Zool.-Entomol. & Alabama Agric. Exp. Stat., Auburn Univ., Auburn, AL.

Effect of food supplementation, song playback and temperature on winter vocal behavior of Carolina Wrens. JOY E. GRINDER and RONALD L. MUMME, Dep. Biol., Memphis State Univ., Memphis, TN.

Florida Scrub Jays' responses to playbacks of "hawk alarm" and other calls. A. MARGARET ELOWSON and JACK P. HAILMAN, Dep. Zool., Univ. Wisconsin, Madison.

Length-constraint in combinatorial "chick-a-dee" calls. JACK P. HAILMAN, Dep. Zool., Univ. Wisconsin, Madison, and MILLICENT S. FICKEN and ROBERT W. FICKEN, Dep. Biol. Sci., Univ. Wisconsin, Milwaukee.

RESOLUTIONS

Six resolutions were adopted at the General Session held Wednesday afternoon, 20 August. The resolutions are distributed appropriately to individuals and organizations, including governmental agencies. Resolutions adopted are as follows:

Resolution 1: PIPING PLOVER CONSERVATION

RECOGNIZING that the Piping Plover (*Charadrius melodus*) has suffered a radical continent-wide decline in numbers, and

WHEREAS this decline has been recognized by the United States Fish and Wildlife Service of the Department of the Interior by classification of this species as "Endangered" in the Great Lakes Region and as "Threatened" in the rest of its range, and

WHEREAS the Committee on the Status of Endangered Wildlife in Canada and the concerned provincial and federal agencies in Canada have recognized this species as endangered throughout Canada, and