

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.