

- Patterns of elevational and latitudinal distribution, including a "niche switch," in guans (Cracidae) of the Andes. J. V. REMSEN, JR., and STEVEN W. CARDIFF, Mus. Zool., Louisiana State Univ., Baton Rouge.
- Habitat associations of waterfowl wintering on Mississippi catfish ponds. JAMES A. DUBOVSKY, Dep. Wildl. & Fish., Mississippi State Univ., Mississippi State.
- \*On the design of tropical forest reserves: army ant-following birds use corridors and stepping stones to maintain marginal populations. LEE H. HARPER, Dep. Biol. Sci., State Univ. New York at Albany, Albany.

### WEDNESDAY MORNING, 20 AUGUST

#### IIIA. SYSTEMATICS & EVOLUTION I

Gary D. Schnell, Chr.

- Genetic identity of Blue-winged and Golden-winged warblers. FRANK B. GILL, Acad. Nat. Sci., Philadelphia, PA.
- \*The relationship of the Ground Warbler (*Microligea palustris*) to Hispaniolan Palm Tanagers (genus *Phaenicophilus*). MARA A. McDONALD, Dep. Zool., Univ. Florida, Gainesville, and Savannah River Ecol. Lab., Aiken, SC.
- Syllable sharing among North American populations of the Eurasian Tree Sparrow (*Passer montanus*). ANTHONY L. LANG, Dep. Zool., Univ. Toronto, Toronto, ON, Canada, and JON C. BARLOW, Dep. Ornithol., Royal Ontario Mus., Toronto, ON, Canada.
- Species limits in the "black-tailed" gnatcatcher complex. JONATHAN L. ATWOOD, Dep. Biol., Univ. California, Los Angeles.
- Is the Timberline Sparrow (*Spizella breweri taverneri*) really a subspecies of Brewer's Sparrow? W. BRUCE MCGILLIVRAY, Dep. Ornithol., Prov. Mus. of Alberta, Edmonton, AB, Canada, and JON C. BARLOW, Dep. Ornithol., Royal Ontario Mus., Toronto, ON, Canada.
- \*Reconsideration of the taxonomic status of the King Shag (*Phalacrocorax albiventer*). PAMELA C. RASMUSSEN, Mus. Nat. Hist. and Dep. Syst. & Ecol., Univ. Kansas, Lawrence.
- \*Differentiation of Piping Plover populations across North America. SUSAN M. HAIG, Dep. Biol., Univ. North Dakota, Grand Forks, and Delta Waterfowl and Wetlands Res. Stat., Portage la Prairie, MB, Canada.
- Eastern Bluebird response to a population bottleneck. T. DAVID PITTS, Biol. Dep., Univ. Tennessee at Martin, Martin.
- Systematic revision of the Pittidae: the *erythrogaster* subspecies complex. BRUCE W. MILLER, Dep. Ornithol., Oklahoma City Zoo, Oklahoma City.
- Palatal morphology and cranial kinesis in hesperornithiform birds. LAWRENCE WITMER, Mus. Nat. Hist., Univ. Kansas, Lawrence.

#### IIIB. BREEDING BIOLOGY

Scott K. Robinson, Chr.

- Nest success of Eastern Bluebirds: how important is nestbox location? R. CRAIG HENSLEY, Dep. Zool., Univ. Arkansas, Fayetteville.
- Spatial and chronological aspects of reproduction in a North Carolina Osprey colony. JOHN M. HAGAN, Dep. Zool., North Carolina State Univ., Raleigh.
- Breeding bioenergetics of female Canvasbacks (*Aythya valisineria*) in southwestern Manitoba. JEROME R. SERIE, Office Migratory Bird Manage., Patuxent Wildl. Res. Center, Laurel, MD, and JEB A. BARZEN, Dep. Biol., Univ. North Dakota, Grand Forks.
- \*Are fence rows for the birds? Cardinal nest success in fence row habitat. L. KAROLEE OWENS, Dep. Wildl. & Fish. Sci., Texas A&M Univ., College Station.
- \*Age structure and male settlement pattern in a breeding population of Black-headed Grosbeaks. GEOFFREY E. HILL, Dep. Biol., Univ. New Mexico, Albuquerque.
- Why do Mourning Doves lay only two eggs? DAVID WESTMORELAND and LOUIS B. BEST, Dep. Animal Ecol., Iowa State Univ., Ames.
- Does egg production limit clutch size in waterfowl? FRANK C. ROHWER, Dep. Biol., Univ. Pennsylvania, Philadelphia.
- Egg viability, nest predation, and the adaptive significance of clutch size in prairie ducks. TODD W. ARNOLD, Delta Waterfowl and Wetlands Res. Stat., Portage la Prairie, MB, Canada.

Group structure, habitat structure, and reproductive success of Grey-crowned Babblers: a multivariate analysis. TIMOTHY G. O'BRIEN, Dep. Wildl. & Range Sci., Univ. Florida, Gainesville, SCOTT R. WINTERSTEIN, Dep. Exp. Stats., Louisiana State Univ., Baton Rouge, and JERAM L. BROWN, Dep. Biol., SUNY at Albany, Albany.

Inheritance of muscle shape in Eastern Kingbirds (*Tyrannus tyrannus*). MARY C. MCKITRICK, Mus. Zool., Univ. Michigan, Ann Arbor, and GEORGE F. BARROWCLOUGH, Dep. Ornithol., Am. Mus. Nat. Hist., New York, NY.

### WEDNESDAY AFTERNOON, 20 AUGUST

#### IVA. BEHAVIORAL ECOLOGY

Joseph M. Wunderle, Chr.

Dominance, food supply, and territory abandonment in the cooperatively breeding Acorn Woodpecker. SUSAN HANNON, RON MUMME, and WALTER KOENIG, Hastings Nat. Hist. Reservation, Univ. California, Berkeley.

Habitat selection in a tropical folivorous bird: the Hoatzin. BEATRIZ TORRES, Zool. Dep., Ohio State Univ., Columbus.

Comparative foraging behavior of male and female American Kestrels (*Falco sparverius*) in central Kentucky. CHRIS KELLNER, Dep. Zool., Univ. Arkansas, Fayetteville.

Food habits and season- and sex-related mortality of Barred Owls. JEROME A. JACKSON, Dep. Biol. Sci., Mississippi State Univ., Mississippi State.

\*Red-cockaded Woodpecker helpers at the nest: increasing clan fitness by stabilizing reproductive success. J. MICHAEL REED, Dep. Zool., North Carolina State Univ., Raleigh.

\*The ontogeny of foraging in Ospreys. THOMAS C. EDWARDS, JR., Dep. Wildl. & Range Sci., Univ. Florida, Gainesville.

Philopatry in the Eastern Phoebe. CALVIN L. CINK, Biol. Dep., Baker Univ., Baldwin City, KS. The role of food abundance in egret siblicide. TIMOTHY C. LAMEY, DOUGLAS W. MOCK, and BONNIE J. PLOGER, Dep. Zool., Univ. Oklahoma, Norman.

Hatching asynchrony in the Pied-billed Grebe: evidence for the brood-reduction hypothesis. MARK R.L. FORBES, Dep. Zool., Univ. Western Ontario, London, ON, Canada.

Brood reduction for fun and profit. DOUGLAS W. MOCK, Dep. Zool., Univ. Oklahoma, Norman, and GEOFFREY A. PARKER, Dep. Zool., Univ. Liverpool, Brownlow Hill, England.

Bill color and foraging behavior of North American songbirds: an adaptation to reduce reflectance. EDWARD H. BURTT, JR., Dep. Biol. Sci., Ohio Wesleyan Univ., Delaware, OH.

#### IVB. PHYSIOLOGY/MIGRATION

Frank R. Moore, Chr.

Molt chronology of Northern Pintails wintering on the Southern High Plains of Texas. DOUGLAS G. SHEELEY and LOREN M. SMITH, Dep. Range & Wildlife Manage., Texas Tech Univ., Lubbock.

Aggressive females and domestic males: hormonal correlates of "sex-role reversal." LEWIS W. ORING and ALBERT J. FIVIZZANI, Dep. Biol., Univ. North Dakota, Grand Forks.

Annual molt cycles of central Amazonian forest understory birds. RICHARD O. BIERREGAARD, JR. and RANDALL H. LeB. DOWNER, World Wildl. Fund-U.S., Washington, DC.

The sulphur amino-acid requirements and metabolism in the Dark-eyed Junco (*Junco hyemalis*). JEFFREY MERRITT and ELDEN W. MARTIN, Dep. Biol. Sci., Bowling Green State Univ., Bowling Green, OH.

Nutrient reserves and reproduction in White-winged Scoters. G. R. DOBUSH, Dep. Zool., Univ. Guelph, Guelph, ON, Canada.

Atmospheric influences on olfactory navigation in birds. JERRY A. WALDVOGEL, Dep. Biol. Sci., Univ. Pittsburgh, Pittsburgh, PA.

Nutrient preferences of migratory (*Junco hyemalis*) vs. non-migratory (*Passer domesticus*) bird species exposed to long vs. short photoperiods. JANE A. FITZGERALD, Dep. Zool., Univ. Arkansas, Fayetteville.

Expansion of the wintering range of the Eared Grebe into southeastern United States. RICHARD C. BANKS and ROGER B. CLAPP, Biol. Surv. Section, U.S. Fish & Wildl. Serv., Natl. Mus. Nat. Hist., Washington, DC.