

**PROCEEDINGS OF THE
ONE HUNDRED AND FOURTH STATED MEETING**

**OF THE
AMERICAN ORNITHOLOGISTS' UNION**

18–21 August 1986
Mississippi State, Mississippi

SUPPLEMENT TO

THE AUK

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PROCEEDINGS OF THE ONE HUNDRED AND FOURTH
STATED MEETING
OF THE
AMERICAN ORNITHOLOGISTS' UNION

Stephen M. Russell, *Secretary*

The One Hundred and Fourth Stated Meeting of the American Ornithologists' Union was held 18–21 August 1986 at Mississippi State University, Mississippi State, Mississippi, at the invitation of the Department of Biological Sciences and the Department of Wildlife and Fisheries. The meeting was cosponsored by the Mississippi Ornithological Society and the Audubon chapters of Mississippi. Financial support was also received from the Mississippi State University Chapter of Sigma Xi and from the Memphis Audubon Society. Business and scientific sessions, workshops, symposia, and guest lecture were held in the Colvard Memorial Union and in McCool Hall. Most of the participants were housed in Hull Hall and Evans Hall on campus. Meals were provided in the Union.

BUSINESS SESSIONS

The Council met the evening of August 17, the morning and afternoon of August 18, and again in the morning of August 20. The Fellows met late in the afternoon of August 18 and again in the early afternoon on August 20. Fellows and Elective Members met in the evening on 18 August. A summary of the important actions of these meetings follows.

Future meetings.—The One Hundred and Fifth Stated Meeting will be held in San Francisco 10–13 August 1987, at the invitation of San Francisco State University and the California Academy of Sciences. The Fellows and Elective Members voted to accept an invitation from the University of Arkansas to meet in Fayetteville 15–18 August 1988 and to meet in 1989 in Pittsburgh 7–11 August at the invitation of the University of Pittsburgh and the Carnegie Institution.

Council elections.—Charles G. Sibley took office at the end of the One Hundred and Fourth Stated Meeting, following the completion of the two year term of Frances C. James as President. At the meeting of Fellows and Elective Members, Glen E. Woolfenden was elected President-Elect, Richard C. Banks was elected Vice-President, Stephen M. Russell was re-elected Secretary, Marion A. Jenkinson was re-elected Treasurer; Mercedes S. Foster, Eugene S. Morton, and J. Van Remsen were elected to three year terms as Elective Councilors. The new officers assumed office at the end of the Stated Meeting.

Awards.—Val Nolan, Jr. received the William Brewster Memorial Award and Fernando Nottebohm was the recipient of the Elliot Coues Award. (For the citations see *The Auk*, Vol. 104, No. 2.)

The Committee on Student Awards granted Marcia Brady Tucker Awards in support of travel to the Annual Meeting in Mississippi State to 11 of 18 applicants. Recipients were Jeb Barzen, Delta Waterfowl and Wetlands Research Station, Portage la Prairie, Manitoba; Randall Breitwisch, Univ. of Miami, Coral Gables, FL; Thomas C. Edwards, Univ. of Florida, Gainesville, FL; Susan Haih, Univ. of North Dakota, Grand Forks, ND; Geoffrey Hill, Univ. of New Mexico, Albuquerque, NM; Kristine Johnson, Univ. of New Mexico, Albuquerque, NM; Mark Opp, Washington State Univ., Pullman, WA; Pamela C. Rasmussen, Univ. of Kansas, Lawrence, KS; Frank Rohwer, Univ. of Pennsylvania, Philadelphia, PA; Michele Tennant, Wayne State Univ., Detroit, MI; David Westmoreland, Iowa State Univ., Ames, IA. Awards of 1-year memberships in the A.O.U. were made to 21 students.

The Research Awards Committee made Josselyn Van Tyne Awards to 7 individuals as follows: Craig L. Berman, Univ. of Delaware, Newark, DE: "Tactics of intraspecific brood parasitism in the House Sparrow (*Passer domesticus*)" \$444; Joseph Van Buskirk, Duke Univ., Durham, NC: "Effects of genotype and brood size on nestling growth in the Carolina Chickadee, *Parus carolinensis*" \$450; Dale H. Clayton, Field Museum of Natural History, Chicago, IL: "Experimental study of avian-ectoparasite coevolution" \$300; David Lemmon, SUNY at Albany, Albany, NY: "Social dominance and scanning behavior in Black-capped Chickadees (*Parus atricapillus*)" \$444; Donna J. Milinkovich, Florida State Univ., Tallahassee, FL: "Sources of variation in the repro-

ductive characteristics of the House Wren (*Troglodytes aedon*)" \$1300; Reed F. Noss, Univ. of Florida, Gainesville, FL: "A critical evaluation of edge effects on North Florida forest birds: the influences of habitat juxtaposition, heterogeneity and predation" \$1000; Mark D. Reynolds, Hastings Reservation, Carmel Valley, CA: "Coloniality and social behavior of Yellow-billed Magpies" \$1150.

The Committee made Alexander Wetmore Awards to: Kenneth Ira Warheit, Univ. of California, Berkeley, CA: "Phylogeny of recent and fossil Sulidae" \$675; Mara A. McDonald, Savannah River Ecology Lab, Aiken, SC: "The evolution and biology of Hispaniolan Palm Tanagers, genus *Phae-nicophilus*" \$1000 (McDonald was unable to accept award because of political unrest in Haiti).

Awards for the best student papers presented during the meeting were made during the banquet. The Nellie Johnson Baroody Award was given to David McDonald of the Univ. of Arizona for his paper "Spatial, temporal, and behavioral patterns of male-male associations in Long-tailed Manakins." Kristine Johnson of the Univ. of New Mexico received the A.O.U. Council Award for the paper "Sexual selection in the Pinyon Jay."

Membership.—The membership report from the Ornithological Societies of North America indicated that active membership again declined slightly. On 4 June 1986 there were 4282 active members: 3311 Members, 352 Student Members, 360 Elective Members, 155 Fellows, 74 Corresponding Fellows, and 30 Honorary Fellows. New Patrons are Ruthven Deane (posthumously), Glen and Jan Woolfenden, and Charles and Frances Sibley. Wilbur Yocum Gary was elected a Benefactor (posthumously).

Deaths of the following members had become known since the last meeting: Honorary Fellow Jean Delacour; Corresponding Fellows Claes Christian Ulrog, Augusto Ruschi, and Peter Skovgaard; Fellow John Davis; Elective Members Donald L. Bleitz, Frank Richardson, George C. Wallace, and Joel Carl Welty; Members Eugene M. Heitzman, Hollis T. Ross, and Robert E. Smolker.

The Fellows filled five vacancies in that membership class: Carl E. Bock, F. Graham Cooch, John W. Fitzpatrick, Jerome A. Jackson, and Herbert W. Kale. William H. Phelps was elected an Honorary Fellow. New Corresponding Fellows were Javier Castroviejo, Joseph M. Forshaw, Alan Charles Kemp, F. Gary Stiles, and Weishu Hsu.

At the meeting of Fellows and Elective Members, new Elective Members were named as follows: Stanley H. Anderson, David F. Balph, William Belton, David M. Bird, Cynthia K. Bluhm, R. Wayne Campbell, Jane P. Church, Calvin L. Cink, Michael R. Conover, Francesca J. Cuthbert, Richard A. Dolbeer, Susan Roney Drennan, Rosendo M. Fraga, Gary R. Graves, Donald C. Heintzelman, Larry C. Holcomb, Douglas H. Johnson, Michael D. Kern, James R. Koplín, Roger L. Kroodsma, Scott M. Lanyon, W. Bruce McGillivray, Martin K. McNicholl, William A. Montevocchi, James A. Mosher, Edward C. Murphey, Dennis R. Paulson, Lewis Petrinovich, Stephen G. Pruett-Jones, H. Ronald Pulliam, James C. Rice, Scott K. Robinson, David F. Sherry, Thomas W. Sherry, James N. M. Smith, Pepper W. Trail, Reto Zach.

Finances.—Details and closing balances of the various funds appear at the end of these proceedings. The Council re-appointed Howard Brokaw, Joel Cracraft, and Phillips Street as Investing Trustees.

Publications.—Editor Alan Brush of *The Auk* reported receipt of 222 manuscripts for review. The rates of submission and acceptance (46%) of material have been approximately the same as the preceding year. Vol. 103, 1986, should contain approximately 900 pages. Dr. Brush was re-elected Editor. The Royal Australasian Ornithological Society has joined with the A.O.U. and the B.O.U. in publication of the Recent Ornithological Literature supplement, providing more thorough coverage of Australia and the southwestern Pacific area.

Editor of *Ornithological Monographs* David W. Johnston reported that monographs Nos. 37–39 were published and No. 40 is in press. Only one manuscript awaits publication. Dr. Johnston was re-elected editor.

The *Ornithological Newsletter* reached its tenth year of publication, all under the editorship of Richard C. Banks.

Amendments to the Bylaws.—The Fellows gave final approval to the amendment to the Bylaws recommended last year (and published in the Proceedings of the 103rd Stated Meeting). This change to Article I, Section 4 raises the limit to the number of Fellows under age 60 to 125.

The Fellows voted preliminary approval to the amendments that follow.

Proposition 1

Extends voting rights for election of officers to all members.

Article II. Of Officers

Section 6. Only Fellows shall be eligible to hold the offices of President, President-Elect, and Vice-President, to take part in the election of Fellows, including Honorary and Corresponding Fellows, and to make final decisions regarding amendments to the Bylaws. **The voting body for election of officers and Elective Councilors and final approval of resolutions will be those members of the Union in attendance at the annual business meeting at Stated Meetings.** Elective Members shall have the right to vote in all other elections in which the Fellows vote and share with Fellows the eligibility to hold the offices of Secretary and Elective Councilor. Elective Members shall convene annually with the Fellows to pass upon such business as the Council may refer to the joint meeting. Elective Members shall not participate in amending the Bylaws except in an advisory capacity or as Elective Councilors. All Members, along with Fellows and Elective Members, are eligible to serve on any Committee except those the membership of which is specifically restricted by the Bylaws.

Article III. Of Meetings

Section 4. The scientific meetings of the Union shall be open to the public, ~~unless otherwise ordered by a majority of the Fellows and Elective Members present.~~

Article IV. Of Elections, Resignations, and Expulsion

Section 1. The President-Elect, the Vice-President, the Secretary, the Treasurer, and three Elective Councilors shall be elected by vote of the ~~Fellows and Elective Members assembled~~ **members present at the business session** at Stated Meetings. All elections shall be by ballot except that with unanimous consent the reelection of a Secretary or a Treasurer may be made by open vote.

Section 2. Each Fellow and Elective Member shall be invited in advance of the Stated Meeting at which an election is to be held, to nominate, in writing to the Secretary, one person for President-Elect, one person for Vice-President, **one person for Secretary, one person for Treasurer**, and three persons for Elective Councilors. These nominations shall **be received by the Secretary three months before the Stated Meeting and shall** be presented at the **business session of the** Stated Meeting, ~~of Fellows and Elective Members. Additional nominations may be made from the floor.~~ For each office, ~~Fellows and Elective Members~~ **members** may vote for as many candidates as there are positions to be filled. Those candidates who receive the votes of a majority of the ~~Fellows and Elective Members~~ **members** voting shall be declared elected, unless the number of persons receiving such a majority exceeds the number of vacancies to be filled. In that event, only the candidates receiving the highest majorities, up to the number still eligible for election, shall be declared elected. Additional ballots may be taken as necessary until all positions are filled.

Section 5. The Secretary and the Treasurer shall be elected annually. ~~Nominations for these officers shall be made from the floor with the consent of the nominee. Formal elective ballots shall be taken, and the candidate receiving a majority of the ballots cast shall be declared elected. If no candidate receives a majority on the first ballot, additional ballots shall be taken until the offices are filled.~~

The terms of office of the Secretary and Treasurer shall begin at the end of the Stated Meeting at which election takes place and shall continue to the close of the next Stated Meeting.

Section 6. Three elective Councilors shall be elected annually by vote of the ~~Fellows and Elective Members~~ **members** assembled at each Stated Meeting. The Elective Councilors shall serve for terms of approximately three years, beginning at the close of the Stated Meeting at which they are elected and ending at the close of the third Stated Meeting thereafter. If one or more additional vacancies arise, a corresponding number of Elective Councilors shall be elected to fill the unexpired term(s).

Article V. Of Fees and Assessments

Section 3. No ~~Fellow or Elective Member~~ **member** in arrears for dues shall be entitled to vote or take part in the business of any meeting.

Proposition 2

1. Requires nominees for all offices to agree in writing to serve if elected.
2. Allows only one term per individual as Vice-President.

Article IV. Of Elections, Resignations, and Expulsion

Section 2. Each Fellow and Elective Member shall be invited in advance of the Stated Meeting at which an election is to be held, to nominate, in writing to the Secretary, one person for President-Elect, one person for Vice-President, and three persons for Elective Councilors. These nominations shall be presented at the Stated Meeting of Fellows and Elective Members. Additional nominations may be made from the floor. **Nominations for all officers must be accompanied by written consent of the nominee.** For each office, Fellows and Elective Members may vote for as many candidates as there are positions to be filled. Those candidates who receive the votes of a majority of the Fellows and Elective Members voting shall be declared elected, unless the number of persons receiving such a majority exceeds the number of vacancies to be filled. In that event, only the candidates receiving the highest majorities up to the number still eligible for election shall be declared elected. Additional ballots may be taken as necessary until all positions are filled.

Section 4. The Vice-President shall be elected annually and ~~may not succeed himself or herself~~ **serve only one term.** The term of office shall begin at the close of the Stated Meeting at which election takes place and end at the close of the next Stated Meeting.

Proposition 3

Simplifies election of Elective Members.

Article IV. Of Elections, Resignations, and Expulsion

Section 10. Election to the class of Elective Members shall be held in the following manner: Official ballots for Elective Members shall be sent with the nomination information to all Fellows and Elective Members in good standing, by the Secretary at least three months before the next Stated Meeting. Those Fellows and Elective Members wishing to vote shall return their marked ballots so that the Secretary receives them not later than three weeks before the ~~meeting of Fellows and Elective Members at that Stated Meeting.~~ **Electors may vote for up to 75% of the number of the nominees.** ~~The Secretary shall not open any ballots until the deadline for their submission has passed.~~ **Those candidates receiving votes on more than half the ballots cast shall be declared elected.**

~~At the meeting of Fellows and Elective Members during the next Stated Meeting, the Secretary shall announce the number of candidates who have qualified for election by virtue of having received votes on more than half of the ballots cast. A vote shall then be taken as to the number of Elective Members to be elected at that meeting, not to exceed 75% of the number nominated. When this figure has been ascertained, the Secretary, having already counted the ballots and prepared a confidential list of the qualified candidates in descending order of the number of mailed votes each received, shall announce the names of those from the top of the list down to the number that the Fellows and Elective Members have agreed to try to elect. These candidates shall be declared elected.~~

Note. Article IV, Section 2 is involved in both Propositions 1 and 2. Approval of both Propositions will result in the following changes:

Each Fellow and Elective Member shall be invited in advance of the Stated Meeting at which the election is to be held, to nominate, in writing to the Secretary, one person for President-Elect, one person for Vice-President, **one person for Secretary, one person for Treasurer,** and three persons for Elective Councilors. **Nominations for all officers must be accompanied by written consent of the nominee.** These nominations shall **be received by the Secretary three months before the Stated Meeting and shall** be presented at the **business session of the** Stated Meeting ~~of Fellows and Elective Members.~~ Additional nominations may be made from the floor. For each office, ~~Fellows and Elective Members~~ **members** may vote for as many candidates as there are positions to be filled. Those candidates who receive the votes of a majority of the ~~Fellows and Elective Members~~ **members** voting shall be declared elected, unless the number of persons receiving such a majority exceeds the number of vacancies to be filled. In that event, only the candidates receiving the highest majorities, up to the number still eligible for election, shall be declared elected. Additional ballots may be taken as necessary until all positions are filled.

Other actions.—The Committee on Classification and Nomenclature anticipates publication of a 2-volume 7th Edition of the *Check-list of North American Birds* in 1993 consisting of a complete update and treatment of subspecies. Supplements to the 6th Edition are projected for publication in July 1987, 1989, and 1991. In response to the lack of growth in endowment, a “Second Century Endowment Campaign” is to begin soon. The Council approved a new publication venture,

consisting of species accounts of North American birds in loose-leaf fascicle form. Peter Stettenheim was appointed Editor. It is anticipated that 50 accounts will be prepared in the next two years, each by an author with extensive field experience with the species described. A Special Committee on Humane Handling of Birds in the Field, including representation from the Cooper and Wilson Ornithological Societies, will produce guidelines for the humane care of birds during field research. Council merged the Herbert and Betty Carnes Committee and the Research Awards Committee and established guidelines for making research and travel awards. Student Membership Awards will be discontinued.

ATTENDANCE

Registration at the meeting totaled 317 (including 193 members, 105 students, and 39 spouses and guests) from 40 states, the District of Columbia, Puerto Rico, 3 provinces of Canada, Brazil, the Peoples Republic of China, Israel, Japan, Peru, and Venezuela. The largest representations were from Mississippi (38), Florida (20), Louisiana (20), California (16), and Texas (16).

SPECIAL EVENTS

On the evening of 19 August Fellows and Council Members had dinner at the University Inn. During the meeting, tours were offered to various local points of interest including the M.S.U. Dairy Science Laboratory, School of Veterinary Medicine, A. B. McKay Food and Enology Laboratory, and the Cobb Institute of Archaeology. In cooperation with the Department of Art, a special exhibit had been arranged featuring the birds of Walter Inglis Anderson. An informal reception was held on the evening of 19 August and the Annual Banquet was held in the Mississippi State Union Ballroom on the evening of 21 August.

FIELD TRIPS

Early morning birding trips were organized by Malcolm Hodges and Danny Ingold. On 22 August, members enjoyed a canoe trip led by Jerome Jackson down the Tombigbee River, including passage through the lock and dam at Columbus, Mississippi. On August 22–23, members participated in a trip to the Mississippi Gulf coast and Horn Island, a part of Gulf Islands National Seashore. The trip was organized by Ted Simons and Jerome Jackson and ended with dinner at the home of Dr. and Mrs. C. D. Taylor of Pass Christian. Transportation to Horn Island was provided by the U.S. National Park Service.

PUBLIC SESSIONS

General paper sessions were held in the Student Union on the campus of Mississippi State University. At the opening session on the morning of 19 August, President Donald W. Zacharias of Mississippi State University welcomed the A.O.U. and President Frances C. James responded for the Union. Secretary Russell reported on actions taken at the several business meetings and Jerome A. Jackson, Co-chair of the Committee on Local Arrangements, made brief comments as did Robert M. Zink, Chair of the Scientific Program Committee. Symposia were held on the evolutionary significance of geographic variation and on migratory birds in the tropics. There was a workshop on the analysis and interpretation of avian growth data. A plenary lecture on "Current status of waterfowl populations and current needs" was given by Dr. Laurence R. Jahn, Wildlife Management Institute, Washington, D.C. The complete scientific program appears on the following pages.

TUESDAY MORNING, 19 AUGUST

IA. SYMPOSIUM MIGRATORY BIRDS IN THE TROPICS

John H. Rappole, Convenor

Opening remarks. JOHN H. RAPPOLE

Habitat segregation between Hooded Warbler sexes is innate. EUGENE S. MORTON, Natl. Zool. Park, Washington, DC.

A conservation strategy for Nearctic-Neotropical migrants: the Western Hemisphere Shorebird Reserve Network. J. P. MYERS, R. I. G. MORRISON, P. Z. ANTAS, T. E. LOVEJOY, M. SALLABERRY, S. E. SENNER, and A. TARAK, Acad. Nat. Sci., Philadelphia, PA.

- Non-breeding behaviors as they relate to the affinities of the thrush genus *Hylocichla*. KEVIN WINKER, Univ. Minnesota, Bell Mus. Nat. Hist., Minneapolis, and JOHN H. RAPPOLE, Texas A&I Univ., Caesar Kleberg Wildl. Res. Inst., Kingsville.
- Distribution and relative abundance of migrants in southeastern Peru. JOHN W. FITZPATRICK, Bird Div., Field Mus. Nat. Hist., Chicago, IL, and SCOTT K. ROBINSON, Illinois Nat. Hist. Surv., Urbana.
- Closing remarks. JOHN H. RAPPOLE

IB. SYMPOSIUM

EVOLUTIONARY SIGNIFICANCE OF GEOGRAPHIC VARIATION

Robert M. Zink and George F. Barrowclough, Convenors

- Opening remarks. ROBERT M. ZINK
- The relevance of geographic variation to avian speciation: the secrets of allopatry. NED K. JOHNSON, Mus. Vert. Zool. & Dep. Zool., Univ. California, Berkeley.
- Geographic variation in birds: selection, environmental induction or epigenetics? ALLAN J. BAKER, Dep. Ornithol., Royal Ontario Mus., Toronto, ON, Canada.
- Geographic variation in birds: issues and directions. ROBERT M. ZINK, Mus. Zool., Louisiana State Univ., Baton Rouge.
- Population structure and intraspecific phylogenies. JOHN C. AVISE, Dep. Genet., Univ. Georgia, Athens.
- Geographic variation in the Spotted Owl, *Strix occidentalis*. GEORGE F. BARROWCLOUGH, Dep. Ornithol., Am. Mus. Nat. Hist., New York, NY.
- Closing remarks. FRANCES C. JAMES

TUESDAY AFTERNOON, 19 AUGUST

IIA. MATING & PARENTAL INVESTMENT

Martin L. Stephens, Chr.

- *Sexual selection in the Pinyon Jay (*Gymnorhinus cyanocephalus*). KRISTINE JOHNSON, Dep. Biol., Univ. New Mexico, Albuquerque.
- *Sex differences in defense of eggs and nestlings by Northern Mockingbirds (*Mimus polyglottos*). RANDALL BREITWISCH, Dep. Biol., Univ. Miami, Coral Gables, FL.
- Seasonal changes in bill length in White-crowned Sparrows. MARTIN L. MORTON, Dep. Biol., Occidental Col., Los Angeles, CA.
- Distribution of offspring defense among families by polyandrous female Northern Jacanas (*Jacana spinosa*). MARTIN L. STEPHENS, Humane Soc. of U.S., Washington, DC.
- Vocal responses of Tree Swallows (*Iridoprocne bicolor*) to models of nest predators. BRADLEY M. GOTTFRIED, Dep. Biol., Armstrong State Col., Savannah, GA.
- Secondary sex ratios of nestling Golden Eagles (*Aquila chrysaetos*). MICHAEL W. COLLOPY and THOMAS C. EDWARDS, JR., Dep. Wildl. & Range Sci., Univ. Florida, Gainesville, and MICHAEL N. KOCHERT and KAREN STEENHOF, Boise District, Bur. Land Manage., Boise, ID.
- The adaptive significance of creching behavior in the White-winged Scoter. F. P. KEHOE, Dep. Zool., Univ. Guelph, Guelph, ON, Canada.
- Nesting phenology and competition among Red-headed and Red-bellied woodpeckers and European Starlings for nest sites in east-central Mississippi. DANNY J. INGOLD, Dep. Biol. Sci., Mississippi State Univ., Mississippi State.
- The role of male aggression and female location in determining spatial organization and mating success of male Sharp-tailed Grouse (*Tympanuchus phasianellus*) in southeastern Montana. HANS LANDEL, Dep. Biol. Sci., Purdue Univ., W. Lafayette, IN.
- Nest site selection in Acorn Woodpeckers. MARK T. STANBACK, PHILIP N. HOOGE, and WALTER D. KOENIG, Hastings Nat. Resource Reservation, Carmel Valley, CA.
- Extra-pair copulations in the Indigo Bunting: who gets them and how? DAVID F. WESTNEAT, Dep. Biol., Univ. North Carolina, Chapel Hill.

- * Student eligible for a Student Presentation Award.

Multiple paternity in a wild population of Mallards (*Anas platyrhynchos*). SUSAN EVARTS, Bell Mus. Nat. Hist., Minneapolis, MN, and CHRIS WILLIAMS, Dep. Genet., Univ. Georgia, Athens.

IIB. FORAGING & SPACING

Susan Hannon, Chr.

- A test of mean/variance tradeoff predictions with foraging Bananaquits. JOSEPH M. WUNDERLE, Dep. Biol., Univ. Puerto Rico, Cayey, Puerto Rico.
- Field evaluation of correlates of optimal foraging. GODFREY R. BOURNE, Detroit Zoological Park, Royal Oak, MI.
- *Time minimization in territorial Willow Flycatchers. D. R. C. PRESCOTT, Dep. Zool., Univ. Guelph, Guelph, ON, Canada.
- *Foraging behavior and sexual dimorphism in Emerald Toucanets (*Aulacorhynchus prasinus*) in Costa Rica. CECILIA M. RILEY, Dep. Zool., Univ. Arkansas, Fayetteville.
- Optimal foraging: patch depletion by Ruddy Ducks (*Oxyura jamaicensis*). MICHAEL W. TOME, Sch. Nat. Resources, Univ. Michigan, Ann Arbor.
- Foraging patterns among kingbirds (*Tyrannus*): influences of weather and habitat. MICHAEL T. MURPHY, Dep. Life Sci., Indiana State Univ., Terre Haute.
- Acquisition of territories by floaters in cooperatively breeding Purple Gallinules. LAURIE A. HUNTER, Zool. Dep., Univ. Montana, Missoula, MT.
- Aggression and habitat segregation among diving ducks wintering in South Carolina. JAMES F. BERGAN and LOREN M. SMITH, Dep. Range & Wildl. Manage., Texas Tech Univ., Lubbock, and JOHN J. MAYER, Savannah River Ecol. Lab., Aiken, SC.
- Movements and site-fidelity of American Coots (*Fulica americana*) on their wintering grounds. I. LEHR BRISBIN, JR., Savannah River Ecol. Lab., Aiken, SC.
- Effects of group size on vigilance in Ostriches (*Struthio camelus*): antipredator strategy or mate competition. JOANNA BURGER, Dep. Biol. Sci., Rutgers Univ., Piscataway, NJ, and MICHAEL GOCHFELD, Environ. & Community Medicine, UMDNY-Rutgers Med. Sch., Piscataway, NJ.
- Evidence for resource-based communal roosting by starlings and Common Grackles. ALAN D. MACCARONE, Dep. Zool., Rutgers Univ., Newark, NJ.
- Consumption of algae by land birds. DOUGLAS A. JAMES and JOSEPH C. NEAL, Dep. Zool., Univ. Arkansas, Fayetteville.

IIC. COMMUNITY ECOLOGY

J. V. Remsen, Jr., Chr.

- Effects of sand shinnery oak control on meadowlark densities. CRAIG D. OLAWSKY and LOREN M. SMITH, Range & Wildl. Dep., Texas Tech Univ., Lubbock.
- Prey availability and the impact of birds on scale insects during winter. MICHAEL L. MORRISON, Dep. Forestry & Resource Mgmt., Univ. California, Berkeley, and DONALD L. DAHLSTEN, SUSAN M. TAIT, and DAVID L. ROWNEY, Div. Biol. Control, Univ. California, Berkeley.
- Bird communities of oak-gum-cypress forests. JAMES G. DICKSON, U.S. Forest Serv., Southern Forest Exp. Stat., Nacogdoches, TX.
- Foliage height diversity and bird species richness revisited. PAUL B. HAMEL, Tennessee Dep. Conserv., Nashville.
- Bird communities along an elevational transect (50–850 m) in San Blas, Panama. JOHN G. BLAKE, Nat. Resources Res. Inst., Univ. Minnesota, Duluth.
- The effects of various burning and grazing treatments on upland habitat use by Whooping Cranes and Sandhill Cranes on the Aransas National Wildlife Refuge. HOWARD E. HUNT and R. DOUGLAS SLACK, Dep. Wildl. & Fish. Sci., Texas A&M Univ., College Station.
- *The effect of phenotype-limited competition for space on dispersal distance in age-structured avian populations. D. ARCHIBALD McCALLUM, Dep. Biol., Univ. New Mexico, Albuquerque.
- *Songbird responses to forest disturbances in large tracts of northern hardwoods. DOMINICK A. DELLASALA, Sch. Nat. Resources, Univ. Michigan, Ann Arbor.
- *The scale of habitat selection by birds in the New Jersey pine barrens: effects of fine-grained landscape heterogeneity within a forest ecosystem. EMILE D. DEVITO, Dep. Zool., Univ. Wisconsin, Madison.

- 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.

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

RECOGNIZING that both the United States and Canada are preparing recovery plans for this species, and

RECOGNIZING that this species can be preserved as part of our natural heritage only if swift, decisive, and cooperative international action is taken,

THEREFORE BE IT RESOLVED that the American Ornithologists' Union urges those officials involved with these recovery efforts to assess continent-wide populations, winter and summer; preserve areas with viable populations and ameliorate the impact of human intrusion on the breeding and wintering grounds; and determine the racial distinctness of populations.

**Resolution 2: IMPACT ON AVIAN SPECIES OF ENVIRONMENTAL CONTAMINATION
CAUSED BY THE CHERNOBYL ACCIDENT**

WHEREAS the unfortunate, recent reactor accident at the Chernobyl nuclear power plant provides a historic opportunity to investigate short- and long-term biological impacts of radioactive contamination on plant and animal populations, and

WHEREAS recent meetings with European ornithologists confirm that extensive radioactivity has reached a number of habitats where ornithological studies have been in progress,

THEREFORE BE IT RESOLVED that the American Ornithologists' Union strongly urges concerned agencies and governments, including the International Atomic Energy Agency, to monitor and study those areas of avian ecology, behavior and migration, that may be affected by this radioactive contamination.

**Resolution 3: PROVISIONS TO BE INCLUDED IN BILLS TO BAN
THE SALE OF WILD-CAUGHT BIRDS**

RECOGNIZING that longstanding problems associated with the commercial trade in live wild birds have generated the need for stricter trade controls, and

RECOGNIZING that commercial trade threatens the survival of many bird species in the wild, and

WHEREAS in the past year several states have reviewed and either accepted or rejected legislation banning the importation and/or sale of live wild-caught birds, and

RECOGNIZING that such state bills should contain certain provisions to allow for scientific and educational purposes that are not now provided by these bills,

THEREFORE BE IT RESOLVED that the American Ornithologists' Union recommends the following provisions be included in any such state bills:

- (1) Appropriate exemptions for scientific and educational institutions;
- (2) Appropriate exemptions for licensed private aviculturists or, if licenses are not required, those aviculturists with acceptable standards of humane care and scientific record-keeping;
- (3) A list of exempted species of birds based on the list included in the New York Regulations "Sale of Wild Birds I.D. No. ENV-39-856-00031-P," with special consideration given to endangered and threatened species to enhance the probability of their survival;
- (4) A method for adding or deleting species from the exempted species list within a reasonable time under specified justifiable circumstances;
- (5) Scientific identification of birds and adequate record-keeping systems;
- (6) A clear definition of terms used in the legislation.

**Resolution 4: TO ESTABLISH AN INTERNATIONAL RESERVE SYSTEM TO
PROTECT MIGRATORY SHOREBIRDS IN THE WESTERN HEMISPHERE**

WHEREAS many species of North American shorebirds depend upon a small number of essential migratory stopover places for their staging and feeding during annual migration between the Northern and Southern hemispheres, and

WHEREAS Federal, State, and Provincial wildlife agencies are responsible for the protection and management of the shorebird resource under the terms of the Migratory Bird Treaty Act, and

WHEREAS the World Wildlife Fund-U.S., the International Association of Fish and Wildlife Agencies, the International Council for Bird Preservation-Pan American Section, the Academy of Natural Sciences of Philadelphia, the Wader Study Group, and a number of other agencies and institutions have shown an interest in developing a network of localities, to be known as the Western Hemisphere Reserve System, that are essential to the survival and well-being of shorebirds,

THEREFORE BE IT RESOLVED that the American Ornithologists' Union encourages efforts of countries and agencies to develop an international shorebird management plan for identifying and preserving essential shorebird habitat and for establishing a series of reserves throughout the Western Hemisphere.

Resolution 5: ESTABLISHMENT OF THE NATIONAL MARINE PARK OF
FERNANDO DE NORONHA

WHEREAS Fernando de Noronha is the main island of an archipelago located 360 kilometers off the coast of Northeastern Brazil and is inhabited by three endemic land bird taxa and ten species of nesting seabirds, and
RECOGNIZING that island avifaunas are particularly fragile, and the history of their decimation by man has been a tragic story, and
RECOGNIZING that Fernando de Noronha is classified as a Federal Territory and managed by the Air Force Ministry of Brazil, and the possibility for tourist development is great,
THEREFORE BE IT RESOLVED that the American Ornithologists' Union supports the efforts of Brazilian conservationists to establish Fernando de Noronha as a National Marine Park in order to enforce protection for the wildlife of the island.

Resolution 6: COMMENDATION

WHEREAS The American Ornithologists' Union has held its One Hundred and Fourth Stated Meeting on the campus of and at the invitation of Mississippi State University and
RECOGNIZING that the Local Committee on Arrangements, under the capable direction of Jerome A. Jackson and Bette J. S. Jackson, provided us with an exceptionally diverse assemblage of exhibits, special events, tours, field trips, and evening social gatherings, and
RECOGNIZING that the Committee on the Scientific Program under the equally capable direction of Robert M. Zink, Douglas W. Mock, and Gary D. Schnell arranged outstanding scientific paper and poster sessions, symposia, films, a plenary lecture, and an Avian Growth Workshop, and
WHEREAS all who have attended this meeting have been enriched by it,
THEREFORE BE IT RESOLVED that the American Ornithologists' Union extends its sincere appreciation to the staffs, members, and friends of the Department of Biological Sciences, the Department of Wildlife and Fisheries and the Department of Art at Mississippi State University, the Mississippi Ornithological Society, and the Audubon Society chapters of Mississippi for all their efforts contributed on our behalf for a memorable meeting, and
THEREFORE BE IT FURTHER RESOLVED that the American Ornithologists' Union also commends the Committee on Scientific Program and the Local Committee on Arrangements for their efforts toward this meeting.

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AMERICAN ORNITHOLOGISTS' UNION
FINANCIAL STATEMENTS
For the Year Ended July 31, 1986

To the Membership
American Ornithologists' Union

We have examined the balance sheet of the American Ornithologists' Union as of July 31, 1986, and the related statements of support and revenue, expenses, capital additions, and changes in fund balances and of changes in financial position for the year then ended. Our examination was made in accordance with generally accepted auditing standards and, accordingly, included such tests of the accounting records and such other auditing procedures as we considered necessary in the circumstances.

In our opinion, the financial statements referred to above present fairly the financial position of the American Ornithologists' Union at July 31, 1986, and the results of its operations, and the changes in fund balances and its financial position for the year then ended, in conformity with generally accepted accounting principles applied on a consistent basis.

October 3, 1986

Schehrer, Harrod & Bennett
Professional Association
Certified Public Accountants
Lawrence, Kansas

AMERICAN ORNITHOLOGISTS' UNION
BALANCE SHEET
As of July 31, 1986

	Operating Funds	Endowment Funds	Total All Funds
Assets			
Cash.....	\$ 112,049	\$	\$ 112,049
Refunds receivable.....	1,796		1,796
Inventories (Note 1)*.....	201,078		201,078
Investments (Note 2).....	732,493	362,332	1,094,825
Total Assets.....	\$1,047,416	\$362,332	\$1,409,748
Liabilities and Fund Balances			
Deferred amounts-restricted (Note 3).....	\$ 175,200	\$	\$ 175,200
Total Liabilities.....	175,200		175,200
Fund Balances			
Unrestricted			
Designated by the governing board for long-term investment.....	557,293		557,293
Undesignated.....	305,000		305,000
	862,293		862,293
Restricted.....	9,923	362,332	372,255
Total Fund Balances.....	872,216	362,332	1,234,548
Total Liabilities and Fund Balances.....	\$1,047,416	\$362,332	\$1,409,748

* The notes to the financial statements are an integral part of this statement.

AMERICAN ORNITHOLOGISTS' UNION
STATEMENT OF SUPPORT AND REVENUE, EXPENSES, CAPITAL ADDITIONS AND
CHANGES IN FUND BALANCES

For the Year Ended July 31, 1986

	Operating Funds			Endowment Funds-	Total All Funds
	Undesignated	Designated	Restricted	Restricted	
Support and Revenue					
Membership dues and subscriptions.....	\$121,302	\$	\$	\$	\$121,302
Sale of publications.....	53,865				53,865
Investment income.....	12,162	27,874			40,036
Contributions and bequests.....	25,475		1,887		27,362
Net gain on investments.....		38,435			38,435
Unrealized gains on investments.....		69,848			69,848
Other income.....	5,902				5,902
Total Support and Revenue.....	<u>218,706</u>	<u>136,157</u>	<u>1,887</u>		<u>356,750</u>
Expenses					
Program Services					
Printing and publications.....	207,464				207,464
Membership maintenance.....	13,560				13,560
Meetings.....	8,350				8,350
Grants and donations.....	11,691		6,717		18,408
Total Program Services.....	<u>241,065</u>		<u>6,717</u>		<u>247,782</u>
Supporting Services					
Contract labor.....	8,784				8,784
Other administration costs.....	13,147				13,147
Total Supporting Services.....	<u>21,931</u>				<u>21,931</u>
Total Expenses.....	<u>262,996</u>		<u>6,717</u>		<u>269,713</u>
Excess [deficiency] of support and revenue over expenses before capital additions.	<u>[44,290]</u>	<u>136,157</u>	<u>[4,830]</u>		<u>87,037</u>
Capital Additions					
Unrealized gain on investments.....				45,413	45,413
Investment income.....				18,123	18,123
Net gain on investments.....				<u>24,989</u>	<u>24,989</u>
Total Capital Additions.....				<u>88,525</u>	<u>88,525</u>
Excess [deficiency] of support and revenue over expenses after capital additions.....	<u>[44,290]</u>	<u>136,157</u>	<u>[4,830]</u>	<u>88,525</u>	<u>175,562</u>
Fund Balance at Beginning of the Year..	313,586	444,599	11,738	289,063	1,058,986
Realized gains on endowment funds utilized.....	12,241		3,015	[15,256]	
Transfers from designated funds.....	23,463	[23,463]			
Fund Balances at End of the Year.....	<u>\$305,000</u>	<u>\$557,293</u>	<u>\$ 9,923</u>	<u>\$362,332</u>	<u>\$1,234,548</u>

AMERICAN ORNITHOLOGISTS' UNION
STATEMENT OF CHANGES IN FINANCIAL POSITION
For the Year Ended July 31, 1986

	Operating Funds			Endowment	Total All Funds
	Undesignated	Designated	Restricted	Funds Restricted	
Resources Provided					
Excess [deficiency] of support and revenue over expenses before capital additions.....	\$[44,290]	\$136,157	\$ [4,830]	\$	\$ 87,037
Capital additions:					
Unrealized gains on investments.....				45,413	45,413
Investment income.....				18,123	18,123
Net gain on investments.....				24,989	24,989
Excess [deficiency] of support and revenue over expenses after capital additions.....	[44,290]	136,157	[4,830]	88,525	175,562
Items that do not use [provide] resources					
Net gain on investments.....		[38,435]		[24,989]	[63,424]
Unrealized gains on investments.....		[69,848]		[45,413]	[115,261]
Proceeds from sale of investments.....		315,343		205,025	520,368
Total Resources Provided.....	<u>[44,290]</u>	<u>343,217</u>	<u>[4,830]</u>	<u>223,148</u>	<u>517,245</u>
Resources Used					
Purchases of investments.....		305,934		198,907	504,841
Increase in receivables.....	1,796				1,796
Increase in inventories.....	67,542				67,542
Total Resources Used.....	<u>69,338</u>	<u>305,934</u>		<u>198,907</u>	<u>574,179</u>
Transfers					
Realized gains on endowment funds utilized.....	12,241		3,015	[15,256]	
Transfers from designated funds.....	23,463	[23,463]			
Total Transfers.....	<u>35,704</u>	<u>[23,463]</u>	<u>3,015</u>	<u>[15,256]</u>	
Increase [Decrease] in Cash.....	<u>\$[77,924]</u>	<u>\$ 13,820</u>	<u>\$ [1,815]</u>	<u>\$ 8,985</u>	<u>\$[56,934]</u>

AMERICAN ORNITHOLOGISTS' UNION
NOTES TO FINANCIAL STATEMENTS
For the Year Ended July 31, 1986

Note 1—*Summary of Significant Accounting Policies*

The financial statements of the American Ornithologists' Union have been prepared on the accrual basis. The significant accounting policies followed are described below to enhance the usefulness of the financial statements to the reader.

Income Taxes

The organization is exempt from federal income tax under Internal Revenue Code Section 501(c)(3) and from state income tax under applicable state law.

Fund Accounting

To ensure observance of limitations and restrictions placed on the use of resources available to the organization, the accounts are maintained in accordance with the principles of fund accounting. This is the procedure by which resources for various purposes are

classified for accounting and reporting purposes into funds established according to their nature and purpose. The assets, liabilities and fund balances of the organization are reported in two self-balancing funds as follows:

1. Operating funds, which include restricted and unrestricted resources, represent the portion of expendable funds that are available for support of organization operations.
2. Endowment fund, which is subject to restrictions of gift instruments requiring in perpetuity that the principal be invested and only income be used.

Inventories

Inventories are valued at the lower of cost (first-in, first-out) or market.

Membership Dues

Membership dues are recognized as revenue in the applicable membership period.

Note 2—*Investments*

Investments are presented in the financial statements in the aggregate at fair market value.

	<u>Cost</u>	<u>Market</u>
Deferred amounts—restricted.....	\$ 23,388	\$ 175,200
Operating funds—designated.....	428,705	557,293
Endowment funds—restricted.....	<u>278,729</u>	<u>362,332</u>
	<u>\$730,822</u>	<u>\$1,094,825</u>

Investments are composed of the following:

	<u>Cost</u>	<u>Market</u>
Money market account.....	\$ 39,540	\$ 39,540
U.S. Government obligations.....	99,254	116,125
Corporate debentures.....	16,069	20,250
Equity mutual funds.....	96,348	136,846
Corporate stocks.....	<u>479,611</u>	<u>782,064</u>
	<u>\$730,822</u>	<u>\$1,094,825</u>

The following tabulation summarizes the relationship between cost and market values of investment assets (except restricted deferred amounts):

	<u>Cost</u>	<u>Market Value</u>	<u>Excess of Market Over [Cost]</u>
Balance at end of year.....	<u>\$707,434</u>	<u>\$919,625</u>	\$212,191
Balance at beginning of year.....	<u>\$654,041</u>	<u>\$750,971</u>	96,930
Increase in unrealized appreciation.....			115,261
Realized net gain for year.....			<u>63,424</u>
Total net gain for year.....			<u>\$178,685</u>

Note 3—*Deferred Amounts—Restricted*

This account presents the fair market value of a gift of shares of General Electric common stock under a life income agreement. The only change in the balance of this account from the beginning of the year is due to the increase in its fair market value.

AMERICAN ORNITHOLOGISTS' UNION
TREASURER'S REPORT
For the Year Ended July 31, 1986

Our examination was made for the purpose of forming an opinion on the basic financial statements taken as a whole. The following supplementary information, Treasurer's Report, is presented for the purposes of additional analysis and is not a required part of the basic financial statements. Such information has been subjected to the auditing procedures applied in the examination of the basic financial statements and, in our opinion, is fairly stated in all material respects in relation to the basic financial statements taken as a whole.

October 3, 1986

Schehrer, Harrod & Bennett
Professional Association
Certified Public Accountants

	Beginning Balances	Receipts	Disburse- ments	Ending Balances
General Operating Account	\$ 20,781	\$	\$	\$
Prior period adjustments:				
Transfer from merged assets in transit at July 31, 1985, but not recorded	22,805			
Inventories of publications at July 31, 1985, not recorded	133,536			
Dues and subscriptions		118,658		
Advertising income		6,193		
Realized gains on endow- ment funds		15,123		
Investment income		12,162		
Sale of back issues and royalties		2,100		
Publication contributions		27,294		
Donations		4,133		
Other		104		
The Auk, production and distribution			117,174	
The Auk, editorial expense			28,839	
President's office			3,673	
Secretary's office			5,111	
Treasurer's office			5,528	
Membership maintenance			15,356	
Committees			3,975	
Student paper awards			200	
Contribution-Tucker Travel Award			2,500	
Contribution-Van Tyne Award			2,500	
Dues (AIBS, ASC)			450	
Donation to IOC			5,000	
Annual meeting			9,993	
Other			1,779	
Current period adjustment:				
Increase in inventories during the year ended July 31, 1986			[67,542]	
Increase in investment income allocated for use in fiscal year ending July 31, 1987		14,532		
	<u>177,122</u>	<u>200,299</u>	<u>134,536</u>	<u>242,885</u>
Ornithological Monographs Account	83,617			
Realized gains on endowment funds		7,568		
Sales		35,955		
Donations		660		
Printing and distribution			114,303	

Advertising.....			517	
Editorial expenses.....			1,112	
Computer equipment.....			1,350	
	<u>83,617</u>	<u>44,183</u>	<u>117,282</u>	<u>10,518</u>
Special Publications Account.....	33,155			
Realized gains on endow- ment funds.....		464		
Sales.....		12,711		
Printing and distribution.....			10,230	
Computer equipment.....			728	
	<u>33,155</u>	<u>13,175</u>	<u>10,958</u>	<u>35,372</u>
Handbook of North American Birds Account.....	\$ 15,734	\$ 435	\$ 177	\$ 15,992
Brewster Awards Account.....	<u>-0-</u>	<u>724</u>	<u>724</u>	<u>-0-</u>
Alexander Wetmore Research Awards Accounts.....	<u>1,941</u>	<u>2,458</u>	<u>675</u>	<u>3,724</u>
Josselyn Van Tyne Research Awards Account.....	\$ 3,352	\$ 3,514	\$ 5,088	\$ 1,778
Herbert and Betty Carnes Research Awards Account.....	<u>6,314</u>		<u>2,000</u>	<u>4,314</u>
Nellie J. Baroody Award Account.....	<u>130</u>	<u>78</u>	<u>100</u>	<u>108</u>
Marcia Brady Tucker Travel Grants Account.....	<u>-0-</u>	<u>3,000</u>	<u>3,000</u>	<u>-0-</u>
Bird Protection Account.....	<u>-0-</u>	<u>130</u>	<u>130</u>	<u>-0-</u>
Education Account.....	<u>249</u>	<u>361</u>	<u>378</u>	<u>232</u>
Endowment Contribution Account.....	<u>-0-</u>			
Life memberships.....		3,045		
Patrons.....		1,000		
Other donations.....		505		
Transfer to endowment funds.....			4,550	
	<u>-0-</u>	<u>4,550</u>	<u>4,550</u>	<u>-0-</u>
Total.....	<u>\$321,614</u>	<u>\$272,907</u>	<u>\$279,598</u>	<u>\$314,923</u>
Corresponding fund balances as of July 31, 1986:				
Unrestricted and undesignated funds.....				\$305,000
Restricted operating funds.....				9,923
Total.....				<u>\$314,923</u>

**AMERICAN ORNITHOLOGISTS' UNION
MERGED ASSETS ACCOUNT
For the Year Ended July 31, 1986**

(Investments Managed by Investing Trustees)

Market Values

Designated by the governing board:

Educational Fund.....	\$ 12,507
Ruthven Deane Fund.....	14,438
Bird Protection Fund.....	4,506
General Endowment Fund.....	509,748
Special Publications Fund.....	16,094
	<u>557,293</u>

Restricted endowment funds:

William Brewster Memorial Fund.....	25,106
Josselyn Van Tyne Fund.....	26,853
Alexander Wetmore Fund.....	28,048
Marcia Brady Tucker Fund.....	279,658
Nellie J. Baroody Student Award Fund.....	2,667
	<u>362,332</u>
Total.....	<u>\$919,625</u>