

PROCEEDINGS OF THE SEVENTY-EIGHTH STATED
MEETING OF THE AMERICAN ORNITHOLOGISTS' UNION

H. G. DEIGNAN, SECRETARY

THE Seventy-eighth Stated Meeting of The American Ornithologists' Union was held from 23 to 27 August 1960, at The University of Michigan, Ann Arbor. Business sessions were held on 23 August, papers sessions on 24, 25, and 26 August, and field trips were made on 27 August. Sponsoring organizations were the Detroit Audubon Society, the Michigan Audubon Society, the Museum of Zoology of The University of Michigan, and The Museum of Michigan State University.

BUSINESS SESSIONS

On 23 August, the Council met throughout most of the day, the Fellows met late in the afternoon, and the Fellows and Elective Members met together in the evening. The Council held a second meeting in the afternoon of 25 August, at which time there was also held a brief extraordinary meeting of Council and Fellows.

1961 meeting. The Seventy-ninth Stated Meeting will be held from 17 to 20 October 1961, at Washington, D.C., by invitation of The United States National Museum and the Bureau of Sport Fisheries and Wildlife, U.S. Fish and Wildlife Service, as host organizations, and the Audubon Naturalist Society of the Central Atlantic States, a sponsoring organization.

Tentative consideration is being given to Salt Lake City, Utah, for the 1962 meeting, and to Gainesville, Florida, for the one of 1963.

Amendment of the Bylaws. An amendment concerning the cost of Life Membership in the Union was given preliminary approval by the Fellows and Council. It will receive final action by the Fellows at the 1961 meeting. The amendment will require change in the wording of the Bylaws as follows

Article V, Section 6, now worded "Life Membership, exempting the holder from all further dues or assessments, may be obtained by members of all classes upon a single payment of one hundred dollars or payment of a like sum in four equal annual installments," to read "Life Membership, exempting the holder from all further dues or assessments, may be obtained by members of all classes upon a single payment of thirty (30) times the current annual dues. This sum may be paid in

a single payment or in four equal, annual installments, over four successive years."

Awards. The Brewster Memorial Award, by action of the Council, was made to Donald S. Farner, with the following citation:

"His experimental work has probed deeply into the fundamentals of avian physiology. He also has made a signal contribution to the ornithology of the Western Hemisphere by bringing abstracts of significant foreign literature to the attention of American ornithologists, and he has carried out important analyses of bird-banding data. His published work has been distinguished by its insight and its scholarship, and, in many ways, he epitomizes the modern approach to ornithological research."

Marcia Brady Tucker Awards, assisting young ornithologists of promise to attend the annual meeting, were given by vote of the officers to Peter L. Ames, Yale University; William G. George, University of Arizona; and Mary Anne Heimerdinger, Yale University.

Van Tyne Memorial Awards were given, by action of the Committee on Research, to Frances T. Hamerstrom, Plainfield, Wisconsin; James Enderson, University of Wyoming; and Denis F. Owen, University of Michigan.

Membership. The Secretary reported that 3,036 copies of *The Auk* are being mailed; this mailing list includes all classes of members, subscriptions, and exchanges with other journals. The Treasurer's records showed members by classes, before the elections in this meeting, as follows:

Fellows	79
Fellows Emeriti	2
Honorary Fellows	20
Corresponding Fellows	69
Elective Members	195
Honorary Life Elective Members	8
Honorary Life Members	18
Members	2120
Student Members	79
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Total	2590

Finances. The report of the Treasurer appears in full elsewhere in *The Auk*.

The dues for all dues-paying classes of members were continued at five dollars per year by vote of the Council.

Stephen S. Gregory, resigning Chairman of the Investment Trustees, reported that the appraised value of the endowment holdings, as of 31 July 1960, was \$159,836. This figure includes \$7,270 received in cash during the fiscal year. Without the additional monies received, the endowment holdings would have totalled only \$152,566, a decline in value, from 31 July 1959, of \$6,133.

Editorial matters. The Editor, Donald S. Farner, reported that three numbers of Volume 77 of *The Auk* have appeared so far in 1960, and that the fourth is in press. He stated that page proofs of the "Ten-Year Index of *The Auk* (1941-1950)" are now being corrected and that publication is expected before the end of 1960.

The Editor of *The Handbook of North American Birds*, Ralph S. Palmer, reported that the Yale University Press is now setting the first volume in type.

Reports of committees. W. J. Breckenridge, Chairman of the Committee on Biography, reported that one memorial to a Fellow and three obituaries (two of Corresponding Fellows, one of an Elective Member) had been published during the year ending with the July 1960 issue of *The Auk*.

During the year ending July 1960, the Committee had learned of the deaths of one Patron, one Corresponding Fellow, one Elective Member, two Life Members, ten Members, and one Student Member :

Jesse D. Anthony, Member, 1959
Albert L. Apfeld, Member, 20 November 1959
Arthur Edward Aronoff, Student Member, 12 June 1960
Paul Bartsch, Elective Member, 24 April 1960
Evelyn Vida Baxter, Corresponding Fellow, 1 October 1959
Sidney Fay Blake, Member, 31 December 1959
George Howard Burrows, II, Member, 1960
Stephen Emerson, Member, June 1959
Edith Krieger Frey, Life Member, 2 December 1959
Raymond Gano Guernsey, Patron, 19 May 1959
Solomon Paul Jones, Member, 26 January 1959
Hermann Francis Kortheuer, Member, August 1959
Horace G. Mack, Member, 25 May 1959
Walter Wehle Naumburg, Member, 17 October 1959
Flora S. Richardson, Life Member, 5 July 1960
Jerry E. Stillwell, Member, 4 September 1959

Joseph C. Howell, Chairman of the Committee on Student Memberships, reported by letter that 80 students had been named to receive *The Auk* free of charge for one year. Of the awards, five were renewals for applicants of earlier years. In 1959 the number of awards was 38.

S. Charles Kendeigh, Chairman of the Committee on Research, presented the report of his committee. It appears separately in full on pp. 242 ff.

Clarence Cottam, Chairman of the Committee on Bird Protection, presented his report, which appears separately in full on pp. 244 ff.

ELECTION OF OFFICERS

At the meeting of Fellows and Elective Members, George H. Lowery, Jr., was re-elected President, Austin L. Rand was advanced automatically to First Vice-President, John T. Emlen, Jr., was elected Second Vice-President, Herbert G. Deignan was re-elected Secretary, and Charles G. Sibley was re-elected Treasurer.

Three men were elected to the Council, with terms expiring in 1963: Dean Amadon, Roger T. Peterson, and Harrison B. Tordoff.

Donald S. Farner was re-elected Editor of *The Auk* by action of the Council. The Council also re-elected to the Board of Investing Trustees Cyrus Mark, Chairman, Arlie W. Schorger, and Stephen S. Gregory (if the last named could be induced to reconsider his resignation). The complete list of officers and members of the Council appears at the end of the Proceedings.

ELECTION TO SPECIAL CLASSES OF MEMBERSHIP

The following persons were elected to special classes of membership:

FELLOW

George A. Bartholomew, Jr.
Eugene Eisenmann
Joe T. Marshall, Jr.

CORRESPONDING FELLOW

Francisco Bernis, Spain
Jean Dorst, France
Finnur Gudmundsson, Iceland
J. Allen Keast, Australia

ELECTIVE MEMBER

James R. King, Pullman, Washington
Daniel S. Lehrman, Newark, New Jersey
David F. McKinney, Delta, Manitoba
L. Richard Mewaldt, San Jose, California
Val Nolan, Jr., Bloomington, Indiana
Miklos D. F. Udvardy, Vancouver, British Columbia

HONORARY LIFE ELECTIVE MEMBER

Winthrop Sprague Brooks, Orleans, Massachusetts

ATTENDANCE

Attendance at the meeting included 374 persons from six provinces of Canada, 36 states and the District of Columbia, Brazil, Great Britain, Mexico, Nigeria, and Southern Rhodesia, as follows:

BRAZIL—Mr. and Mrs. Augusto Ruschi.

GREAT BRITAIN—Philip Ashmole, N. G. Burton-Jones, Janet Kear.

MEXICO—Allan R. Phillips.

NIGERIA—Mr. and Mrs. Fred Sibley.

SOUTHERN RHODESIA—Mr. and Mrs. Rudyerd Boulton.

CANADA—*Alberta*: Mr. and Mrs. Robert Lister, Robert W. Turner. *Manitoba*: Frank McKinney. *New Brunswick*: A. J. Erskine, Robert Squires, Mr. and Mrs. W. Austin Squires. *Ontario*: Mr. and Mrs. A. E. Allin, James L. Baillie, C. H. D. Clarke, Dr. and Mrs. J. B. Falls, Mr. and Mrs. Rowley Frith, W. Earl Godfrey, Dr. and Mrs. William W. H. Gunn, Paul Hahn, David Hussell, Mr. and Mrs. L. E. Jaquith, Mr. and Mrs. Hoyes Lloyd, Mr. and Mrs. James K. Lowther, Dr. and Mrs. George M. Stirrett, Mr. and Mrs. James Woodford. *Quebec*: Mr. and Mrs. G. H. Montgomery, J. M. Montgomery. *Saskatchewan*: Margaret Belcher, Dr. and Mrs. George Ledingham, Robert W. Nero.

UNITED STATES: *Alaska*: Brina Kessel. *Arizona*: Richard S. Crosein, William G. George, Joe T. Marshall, Jr. *Arkansas*: Mrs. Hilery E. Hanna, Dr. and Mrs. Douglas James, Mr. and Mrs. W. S. Sugg. *California*: George A. Bartholomew, Nicholas E. Collias, Gerald Collier, John Davis, Jean Delacour, Earle E. Greene, John William Hardy, Junea W. Kelly, L. R. Mewaldt, Alden H. Miller, Robert T. Orr. *Colorado*: Paul H. Baldwin, A. Sidney Hyde, Mr. and Mrs. E. R. Kalmbach. *Connecticut*: Peter L. Ames, Mary Heimerdinger, Mrs. Harold Hibbert, Philip S. Humphrey, Roger Tory Peterson. *District of Columbia*: Shirley A. Briggs, Herbert G. Deignan, Herbert Friedmann, Dr. and Mrs. Alexander Wetmore. *Florida*: O. L. Austin, Jr., Pierce Brodtkorb. *Georgia*: Herbert L. Stoddard, Sr., Ivan R. Tompkins. *Illinois*: Karl E. Bartel, L. C. Binford, Emmet R. Blake, George E. Chaniot, Philip Doerr, Dr. and Mrs. Richard R. Graber, S. Charles Kendeigh, Mr. and Mrs. L. B. Nice, Don Smith Prentice, Dr. and Mrs. A. L. Rand, Floyd Swink, Dr. and Mrs. Albert Wolfson. *Indiana*: Wilson Baker, Mildred Campbell, Mrs. S. G. Campbell, Jack Confer, James G. Cope, Robert A. Johnson, Russell E. Mumford, Val Nolan, Jr., Henry West, Nixon Wilson. *Iowa*: Peter Peterson, Jr., Mr. and Mrs. Fred J. Pierce, Milton Weller. *Kansas*: Jon Barlow, Abbott Gaunt, Richard Johnston. *Kentucky*: Mr. and Mrs. Burt L. Munroe, Burt L. Munroe, Jr., Anne L. Stamm. *Louisiana*: Douglas A. Lancaster, Dr. and Mrs. George H. Lowery, Jr., Robert Newman, Mr. and Mrs. Stephen M. Russell. *Maine*: Dr. and Mrs. Olin Sewall Pettingill, Jr., and daughter, Mr. and Mrs. Burton Whitman, Richard L. Zusi. *Maryland*: Daniel L. Leedy, Robert M. McClung. *Massachusetts*: Mr. and Mrs. L. M. Bartlett, Raymond Coppinger, William Drury, Carl Helms, Ernst Mayr, Dr. and Mrs. R. A. Paynter, Jr.

Michigan: Max Adler, G. A. Ammann, Dr. and Mrs. Ormsby Annan, Keith Arnold, Dr. and Mrs. Rollin Baker, H. Lewis Batts, Jr., Dr. and Mrs. Andrew J. Berger, Robert Bernard, Helen Blanchet, Mr. and Mrs. E. G. Boyes, Richard Brewer, Dr. and Mrs. W. H. Burt, Dr. and Mrs. W. P. Cottrille, Edward Cutler, Lee R. Dice, Marie Donegan, Dr. and Mrs. Donald Douglass, Mr. and Mrs.

William Dyer, Mary Ellsworth, Monica Ann Evans, Mr. and Mrs. Norman Ford, Ursula Freimarck, Lowell Getz, Norma Guezen, Dr. and Mrs. Harry Hann, Priscilla Hazen, M. Catherine Hinchey, Mr. and Mrs. Fenn Holden, John Howell, Maude Hukill, Marion L. Hundley, Bette Jane Johnston, Irene F. Jorae, Mrs. Neil T. Kelley, Robert Kirkendall, Justin Leonard, Dr. and Mrs. William A. Lunk, Harold D. Mahan, Joseph H. Martin, Dr. and Mrs. Daniel McGeen, James McLaughlin, Dr. and Mrs. Clarence Messner, Mr. and Mrs. Vaden Miles, Walter P. Nickell, Mr. and Mrs. Denis F. Owen, Robert Payne, Mrs. Thomas Petts, Miles D. Pirnie, Sergej Postupalsky, William Prychodko, David Rocheleau, Jon P. Rood, Donald B. Savery, Mrs. David Smith, Haven H. Spencer, Peter Stettenheim, Dr. and Mrs. Robert W. Storer, William Thompson, Heather Thorpe, Dr. and Mrs. Harrison B. Tordoff, Elsie Townsend, Mrs. Josselyn Van Tyne, Willet T. Van Velzen, James Vanden Berge, Charles F. Walker, Dr. and Mrs. Lawrence H. Walkinshaw, Dr. and Mrs. George J. Wallace, LaRue Wells, Harold F. Wing, Dr. and Mrs. Leonard Wing, Larry Wolf, Mark Wolf, Mr. and Mrs. J. T. Woolfenden, Jean Wright. *Minnesota*: James Beer, Dr. and Mrs. W. J. Breckenridge, Mr. and Mrs. Robert W. Dickerman, Arnold B. Erickson, Dr. and Mrs. P. B. Hofslund, Dr. and Mrs. Dwain Warner. *Missouri*: William Elder, Hazel Philbrick. *Nebraska*: Mr. and Mrs. John Lueshen. *New Jersey*: Mrs. Herbert E. Carnes, Ann Chamberlain, Charles T. Collins, Mrs. J. Y. Dater, Frank Gill, Bertram G. Murray, Jr., Norman B. Pilling, Jeff Swinebrod, Peter Westcott, Helen J. Williams. *New Mexico*: John P. Hubbard, Ralph J. Raitt, Jr., Dale A. Zimmerman.

New York: Dr. and Mrs. Dean Amadon and daughter, Mr. and Mrs. Harold H. Axtell, Mr. and Mrs. Winston B. Brockner, John Bull, Roland C. Clement, William Dilger, David Dunham, Stephen W. Eaton, Don R. Eckelberry, Eugene Eisenmann, Mr. and Mrs. Robert W. Ficken, Lion Gardiner, E. Thomas Gilliard, Helen Hays, James M. Hartshorne, Mr. and Mrs. Keith Stuart, Dr. and Mrs. Peter Paul Kellogg, Wesley E. Lanyon, Ethel E. Little, Mr. and Mrs. Harold D. Mitchell, D. Bruce Murray, Theodora Nelson, Ralph S. Palmer, Richard H. Pough, Mr. and Mrs. Lester L. Short, Jr., Charles G. Sibley, Paul Slud, Walter R. Spofford, Robert C. Stein, Mrs. Dayton Stoner, Mr. and Mrs. Edward Ulrich, Mr. and Mrs. Charles Vaurie, Jayson A. Walker, Joshua Wallman. *North Carolina*: Charles H. Blake, William S. James, G. Thomas Taylor. *Ohio*: Howard E. Blakeslee, Mr. and Mrs. Robert V. D. Booth, Vera Carrothers, Adela Gaede, Harold Mayfield, John Mayfield, Henri C. Seibert, Mildred Stewart, Mr. and Mrs. Milton B. Trautman. *Oklahoma*: Dr. and Mrs. Robert Burns, John A. Weins. *Pennsylvania*: Dorothy L. Bordner, Mr. and Mrs. Earl R. Bordner, Frederick V. Hebard, Kenneth C. Parkes, Frank W. Preston, W. E. Clyde Todd, Charles Trost, Mr. and Mrs. Rodman Ward, Merrill Wood. *Rhode Island*: Mr. and Mrs. Waldemar H. Fries. *South Dakota*: Byron Harrell. *Tennessee*: Albert Ganier, Mrs. Amelia R. Laskey. *Texas*: Clarence Cottam, Allan Hayse, Margaret Louise Hill, Mrs. L. T. Hill, Pauline James. *Vermont*: Mrs. James R. Downs. *Virginia*: Joseph H. Magee. *Washington*: Donald S. Farner. *Wisconsin*: John T. Emlen, Mr. and Mrs. A. C. Epple, Mr. and Mrs. Cleveland P. Grant, Joseph L. Guerino, Mr. and Mrs. Frederick Hamerstrom, Mr. and Mrs. Joseph Hickey and daughter, L. Barrie Hunt, Mr. and Mrs. Clarence S. Jung, Robert A. McCabe, Orrin J. Rongstad, Mr. and Mrs. Arlie W. Schorger, James G. Teer, Charles M. Weise.

PUBLIC SESSIONS

Papers sessions were held in the morning and afternoon of each of the three days beginning Wednesday, 24 August, in the auditorium of the Rackham Building of The University of Michigan.

WEDNESDAY MORNING SESSION

The meeting was opened by an address of welcome by Dr. Burton D. Thuma, Associate Dean of the College of Literature, Science and the Arts, The University of Michigan. George H. Lowery, Jr., President of The American Ornithologists' Union, responded. The Secretary, Herbert G. Deignan, summarized the results of the previous day's business sessions, including elections.

HAROLD F. MAYFIELD, Waterville, Ohio, *Cowbird Behavior at the Nest of the Kirtland's Warbler.*

MILTON B. TRAUTMAN, Ohio State University, Columbus, Ohio, *Habitat Changes in the Nesting Area of the Kirtland's Warbler, in 1926, 1934, 1935, and 1960.*

JOE T. MARSHALL, JR., University of Arizona, Tucson, Arizona, *Comparative Behavior of Five Forms of Brown Towhees.*

KEITH L. DIXON, Utah State University, Logan, Utah, *Extent of Utilization of Territory by Nesting Plain Titmice.*

J. BRUCE FALLS, University of Toronto, Toronto, Ontario, *Determination of Territorial Boundaries Using Tape-Recorded Songs.*

RICHARD BREWER, Western Michigan University, Kalamazoo, Michigan, *Reproductive Relationships of Black-capped and Carolina Chickadees.*

WEDNESDAY AFTERNOON SESSION

WILLIAM R. DAWSON and FRANCIS C. EVANS, The University of Michigan, Ann Arbor, Michigan, *Relation of Growth and Development to Temperature Regulation in Nestling Vesper Sparrows.*

ALDEN H. MILLER, University of California, Berkeley, California, *The Double Molt Cycle of the Andean Sparrow.*

JOHN DAVIS, Hastings Reservation, University of California, Carmel Valley, California, *Annual Weight Cycle in a Resident Population of the Rufous-sided Towhee.*

ALBERT WOLFSON, Northwestern University, Evanston, Illinois, and HIDESHI KOBAYASHI, University of Tokyo, Tokyo, Japan, *Some Observations on the Mechanism of the Photoperiodic Response.*

- L. RICHARD MEWALDT and MARTIN L. MORTON, San Jose State College, San Jose, California, *Comparative Reactions of Migratory and Non-migratory White-crowned Sparrows to Like Environmental Conditions.*
- CARI W. HELMS, Massachusetts Audubon Society, South Lincoln, Massachusetts, and Bucknell University, Lewisburg, Pennsylvania, *Gonadotropins and Migratory Activity.*
- S. CHARLES KENDEIGH, University of Illinois, Champaign, Illinois, *Energy Conserved by Roosting in Cavities.*
- GEORGE W. COX and S. CHARLES KENDEIGH, University of Illinois, Champaign, Illinois, *The Relation of Energy Requirements of Tropical Finches to Distribution and Migration.*
- GEORGE J. WALLACE, Michigan State University, East Lansing, Michigan, *Dutch Elm Disease and the Robin Dilemma.*
- RICHARD F. BERNARD, Michigan State University, East Lansing, Michigan, *The Presence of DDT in Avian Tissues.*

THURSDAY MORNING SESSION

- NICHOLAS E. COLLIAS and ELSIE C. COLLIAS, University of California, Los Angeles, California, *Some Mechanisms of Nest Building by the African Village Weaverbird, *Textor cucullatus*.*
- WILLIAM C. DILGER, Cornell University, Ithaca, New York, *The Evolution of Displays with Special Reference to Precopulatory Displays of *Agapornis*.*
- MRS. WILLIAM KEETON, Cornell University, Ithaca, New York, *Evolution of Nest Building in the Parrot Genus *Agapornis*.*
- JOHN WILLIAM HARDY, University of California, Los Angeles, California, *Pupil Flexion Display and Associated Behavior in the Orange-fronted Parakeet, *Aratinga canicularis*.*
- MILLICENT S. FICKEN, Cornell University, Ithaca, New York, *Courtship of the American Redstart.*
- ROBERT W. FICKEN, Cornell University, Ithaca, New York, *An Analysis of the Precopulatory Display of the Common Grackle.*
- GERALD COLLIER, University of California, Los Angeles, California, *Comparative Ontogeny of Behavior in Young Red-winged and Tricolored Blackbirds.*

THURSDAY AFTERNOON SESSION

- WESLEY E. LANYON, American Museum of Natural History, New York, *The Middle American Populations of the Crested Flycatcher, *Myiarchus tyrannulus*.*

- WILLIAM G. GEORGE, University of Arizona, Tucson, Arizona, *Two New Taxonomic Characters for Passerine Birds and Their Application to the Systematic Position of the Olive Warbler.*
- MARY A. HEIMERDINGER, Yale University, New Haven, Connecticut, *An X-ray Technique for the Study of Feather Tracts.*
- PHILIP S. HUMPHREY and GEORGE A. CLARK, JR., Yale University, New Haven, Connecticut, *Pterylosis of the Mallard.*
- RICHARD L. ZUSI, University of Maine, Orono, Maine, *Functional Aspects of Upper Jaw Structure in Shorebirds.*
- PETER L. AMES, Yale University, New Haven, Connecticut, *Syringeal Anatomy and Relationships of the Palm Chat, Dulus.*
- CHARLES G. SIBLEY, Cornell University, Ithaca, New York, *The Phylogeny of Birds as Indicated by Protein Structure.*
- WALTER R. SPOFFORD, State University of New York Medical College, Syracuse, New York, *Hawks, Falcons, and Owls: Comparative Electrophoresis of Their Egg-White Proteins.*
- A. SIDNEY HYDE, Western State College, Gunnison, Colorado, *Nesting of Virginia's Warbler in Colorado.*

THURSDAY EVENING SESSION OF MOTION PICTURES

- G. STUART KEITH, American Museum of Natural History, New York, *The Cranes of Japan, Winter.*
- HELEN HAYS, Cornell University, Ithaca, New York, *The Ruddy Duck.*
- DEAN AMADON, American Museum of Natural History, New York, *An Ornithologist's Argentina.*

FRIDAY MORNING SESSION

- DANIEL L. LEEDY, U. S. Fish and Wildlife Service, Washington, D. C., *Some Federal Contributions to Bird Conservation from 1885 to 1960.*
- LESTER L. SHORT, JR., Adelphia College, Garden City, New York, *Introggression in Flickers.*
- RICHARD F. JOHNSTON, The University of Kansas, Lawrence, Kansas, *Dispersion and Spacing in Birds.*
- A. J. ERSKINE and L. G. SUGDEN, Canadian Wildlife Service, Sackville, New Brunswick, and Edmonton, Alberta, *Nest Site Tenacity and Homing in the Bufflehead.*
- R. A. McCABE, University of Wisconsin, Madison, Wisconsin, *Selection of Colored Nest Boxes by House Wrens.*
- TOM J. CADE, Syracuse University, Syracuse, New York, *Food and Feeding Habits of the Northern Shrike.*

DANIEL S. MCGEEN and JEAN MCGEEN, Pontiac, Michigan, *The Cow-bird-Host Relationship*.

JAMES K. LOWTHER, University of Toronto, Toronto, Ontario, *Nest Habitat Selection by the White-throated Sparrow in Algonquin Park, Ontario*.

FRIDAY AFTERNOON SESSIONS

(Session 7-A—Concurrent)

PETER PAUL KELLOGG, Cornell University, Ithaca, New York, *Vocalizations of the Black Rail and the Yellow Rail*.

ROBERT C. STEIN, Cornell University, Ithaca, New York, *Sounds Used in Aggressive Behavior by Traill's Flycatchers*.

JAMES M. HARTSHORNE, Cornell University, Ithaca, New York, *Learned and Unlearned Components of the Eastern Bluebird's Vocal Repertoire*.

ANNE HINSHAW WING and LEONARD W. WING, Ann Arbor, Michigan, *Song Patterns of the Carolina Chickadee at College Station, Texas*.

A. W. SCHORGER, University of Wisconsin, Madison, Wisconsin, *An Ancient Pueblo Turkey*.

PAUL HAHN, Royal Ontario Museum, Toronto, Ontario, *My Search for Specimens of Certain Extinct North American Birds*.

WILLIAM A. DYER, Union City, Michigan, *Nesting of the Connecticut Warbler in Michigan*.

HELEN HAYS, Cornell University, Ithaca, New York, *Typical Intensity in the Bubbling Display of the Ruddy Duck*.

WILLIAM H. DRURY, JR., CARL W. HELMS, and RAYMOND P. COPPINGER, Massachusetts Audubon Society, South Lincoln, Massachusetts, *The Effects of Weather on Migration*.

WALTER P. NICKELL, Cranbrook Institute of Science, Bloomfield Hills, Michigan, *Net-Banding. An Effective Technique in Determining Homing and Longevity in Bank Swallows*.

(Session 7-B—Concurrent)

PIERCE BRODKORB and DAVID B. WINGATE, University of Florida, Gainesville, Florida, *Extinct Flightless Rails of Bermuda*.

LAWRENCE H. WALKINSHAW, Battle Creek, Michigan, *Attentiveness of the Sandhill Crane in Michigan*.

ROBERT W. NERO and FRED W. LAHRMAN, Saskatchewan Museum of Natural History, Regina, Saskatchewan, *Arctic Terns Found Nesting in Saskatchewan*.

JANET KEAR, The Wildfowl Trust, Slimbridge, Gloucestershire, England, *Food Selection in British Finches.*

MRS. JOHN Y. DATER, Ramsey, New Jersey, *Esophageal Diverticula of the Common Redpoll.*

PAUL SLUD, American Museum of Natural History, New York, *Ecological Distribution of Birds in a Tropical Wet Forest Area.*

GEORGE A. BARTHOLOMEW and THOMAS R. HOWELL, University of California, Los Angeles, California, *Temperature Regulation in Laysan and Black-footed Albatrosses.*

SOCIAL EVENTS

A luncheon for the Council and a dinner for Fellows and members of the Council were held on 23 August; in the evening a reception, sponsored by the host organizations, was held for those not attending the business session.

In the evening of 24 August a reception was held for members and guests at the Michigan Union.

Wives of members and other guests were given a special tour of the campus, followed by a tea, on the afternoon of 24 August, and, on the morning of 25 August, were taken by bus to visit Greenfield Village and the historic Botsford Inn.

The Annual Banquet took place in the Ballroom of the Michigan Union on the evening of Friday, 26 August.

FIELD TRIPS

On Saturday, 27 August, two all-day field trips were offered: one, to visit the new General Motors Technical Center and the Cranbrook Institute of Science; the other, to East Lansing and its vicinity, to visit the United States Department of Agriculture Poultry Research Laboratory, the Museum of Michigan State University, and the Rose Lake Wildlife Experiment Station of the Michigan Department of Conservation.

RESOLUTIONS

The following resolutions were submitted by the Resolutions Committee (John T. Emlen, Jr., Chairman; Kenneth C. Parkes; and Burt L. Monroe) and approved by the General Session on 26 August 1960:

1. *Whereas*, The American Ornithologists' Union, here assembled at Ann Arbor, Michigan, has taken note of the appalling destruction of bird life associated with the current widespread use of chemical pesticides, particularly in programs designed to suppress the Dutch Elm

Disease in the Northern States and the Fire Ant Problem in the Southern States; and

Whereas, Basic research during the past few years has demonstrated that serious threats of ecological unbalance exist in the prevailing insect control practices;

Therefore, Be It Resolved, That agencies concerned with the regulation of pesticide dissemination take prompt action to examine research findings and to re-evaluate and modify existing regulations in accordance with an objective evaluation of these findings; and

Be It Further Resolved, That research institutions be encouraged to continue and expand investigations on the effect of pesticide practices on wildlife and the potential dangers of the continued use of such materials; and

Be It Further Resolved, That, in formulating new regulations, responsible agencies be urged to take full cognizance of *specific* insecticides and other devices for minimizing the destruction of wildlife, and to place drastic restrictions on the use of cheap general pesticides where less dangerous materials are available; and

Be It Further Resolved, That the Secretary of The American Ornithologists' Union be instructed to transmit copies of this resolution to those departments of government whose responsibility it is to formulate and carry out the regulation of insect control activities, and to such other agencies, organizations, and officials as should be informed of this problem as the President of the Union shall designate.

2. *Whereas*, The value of any meeting is dependent upon the facilities of the meeting place and upon the energy and efficiency of the individual members of the local committee in performing their respective assignments; and

Whereas, The benefits and enjoyment of such meetings are enhanced by the cordiality and hospitality of the hosts;

Therefore, Be It Resolved, That The American Ornithologists' Union in session at its Seventy-eighth Stated Meeting commends the Museum of Zoology of The University of Michigan, the Department of Zoology of Michigan State University, the Michigan Audubon Society, and the Detroit Audubon Society for contributing greatly to the outstanding success of this meeting; and

Be It Further Resolved, That The American Ornithologists' Union expresses its appreciation to each committee member of these several groups for his or her efforts to make the 1960 meeting a memorable and profitable occasion.

OFFICERS AND TRUSTEES OF THE AMERICAN ORNITHOLOGISTS' UNION

Expiration of Term

George H. Lowery, Jr., <i>President</i>	1961
Austin L. Rand, <i>First Vice-President</i>	1961
John T. Emlen, Jr., <i>Second Vice-President</i>	1961
Herbert G. Deignan, <i>Secretary</i>	1961
Charles G. Sibley, <i>Treasurer</i>	1961
Donald S. Farner, <i>Editor of The Auk</i>	1961

ELECTIVE MEMBERS OF THE COUNCIL

Oliver L. Austin, Jr.	1961
Harold F. Mayfield	1961
Lester L. Snyder	1961
Joseph J. Hickey	1962
Arlie W. Schorger	1962
Robert W. Storer	1962
Dean Amadon	1963
Roger T. Peterson	1963
Harrison B. Tordoff	1963
Robert T. Orr, Cooper Ornithological Society Representative	1961
H. Lewis Batts, Jr., Wilson Ornithological Society Representative	1961

James P. Chapin, 1939-42	} EX-PRESIDENTS
Herbert Friedmann, 1937-39	
Hoyes Lloyd, 1945-48	
Ernst Mayr, 1957-59	
Alden H. Miller, 1953-56	
Robert Cushman Murphy, 1948-50	
Alexander Wetmore, 1926-29	

INVESTING TRUSTEES

Turner Biddle	1961
Cyrus Mark	1961
Arlie W. Schorger	1961

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