

PROCEEDINGS OF THE NINETIETH
STATED MEETING OF THE
AMERICAN ORNITHOLOGISTS' UNION

RICHARD C. BANKS, SECRETARY

THE Ninetieth Stated Meeting of the American Ornithologists' Union was held 14-18 August 1972 at Grand Forks, North Dakota, under the sponsorship of the University of North Dakota and the North Dakota Natural Science Society. Business and technical sessions were held on the campus of the University; some social activities were held at the Westward Ho Motel. Day-long field trips were taken to Lake Itasca, Minnesota, State Park and to saline lakes and prairie potholes in central North Dakota. A longer post-meeting trip to western North Dakota was offered.

BUSINESS SESSIONS

The Council met in the morning and afternoon of 14 August and again in the afternoon and evening of 15 August. The Fellows met in the late afternoon on 14 August and on 16 August. Elective Members and Fellows met in the evening of 14 August. A summary of important actions at these meetings follows:

Future meetings.—The Ninety-first Stated Meeting will be held 8-12 October 1973 at Provincetown, Cape Cod, Massachusetts, at the invitation of the Nuttall Ornithological Club, which will celebrate its centennial at that time. The Ninety-second Stated Meeting will be held at Norman, Oklahoma, 14-18 October 1974 at the invitation of the University of Oklahoma, the Oklahoma Ornithological Society, and the Cleveland County Bird Club.

Election of officers.—At the meeting of Fellows and Elective Members, Joseph J. Hickey was elected President; George A. Bartholomew was advanced to First Vice-President; Harrison B. Tordoff was elected Second Vice-President; Richard C. Banks was reelected Secretary; and Burt L. Monroe, Jr., was reelected Treasurer. Elected to three-year terms on the Council were John William Hardy, Lester L. Short, and Richard L. Zusi.

Awards.—The William Brewster Memorial Award was made to David W. Snow and Barbara K. Snow of England for their studies on the biology of Neotropical birds. The citation reads as follows:

“The recipients of the William Brewster Memorial Award for 1972 have earned this honor on a number of counts. They are among a handful of ornithologists who have made monographic studies of the biology of various Neotropical land bird species; they are preeminent in their contributions on evolutionary consequences of fruit-eating in tropical birds; they have compared the breeding displays of various manakins and theorized on the evolution of lek and communal displays; and they have studied breeding and molt cycles of numerous tropical American birds in relation to the environment.

David and Barbara Snow amassed the data for this body of work during their residence in Trinidad and the Galápagos Archipelago. They have worked closely together and co-authored papers on a variety of subjects. Despite the diversity of their interests, they have sought to synthesize their detailed studies of feeding ecology, breeding biology, and behavior into a unified fabric of interacting adaptations. In so doing they have left us not only with classic studies on the oilbird, the cotingas, and the manakins, but with a theoretical framework that will enrich future research in the Neotropics."

The Elliott Coues Award was established a year ago to honor contributions that have had an important impact on the study of birds in the Western Hemisphere, but that have not received the Brewster Award (see *Auk* 1972, 89: 437). The first award was made at this meeting, to Alexander Wetmore for his contribution to the classification of birds of the world. The citation reads as follows:

"In 1930 Alexander Wetmore published an 8-page paper entitled "A systematic classification for the birds of the world." This list and its subsequent revisions have had a profound influence on avian systematics throughout the world, and especially in the New World. It is particularly appropriate that we honor Dr. Wetmore in this first year of the Elliott Coues Award because, like Coues, his authority in systematic matters rests on an encyclopaedic knowledge and on a breadth of experience known to few ornithologists. Dr. Wetmore has continually revised his classification on the basis of his own studies and those of others, but in his wisdom he has used a conservative approach that has helped to stabilize classification to everyone's benefit, without inhibiting significant advances in systematics."

A second Elliott Coues Award was made to Niko Tinbergen for his ornithological contributions to the development of the discipline of ethology. The citation reads as follows:

"One of the exciting developments of the last half century has been the emergence of the discipline of ethology. The study of birds contributed much to the development of this discipline, and ethological theory and methods have revolutionized the study of bird behavior. No one has played a larger role in this drama than Niko Tinbergen. Among his many personal contributions and those of his students spanning many years we may cite his 1939 paper entitled "On the analysis of social organization in vertebrates, with special reference to birds," and another in 1948, "Social releasers and the experimental method required for their study," for their special influence on subsequent studies of behavior of New World birds. The American Ornithologists' Union is happy to bestow the Elliott Coues Award on Dr. Tinbergen in recognition of these contributions."

The Committee on Student Awards announced that Marcia Brady Tucker Travel Awards in support of travel to the A.O.U. meeting in Grand Forks were made to Stuart L. Pimm of New Mexico State University, Las Cruces, New Mexico, and to Godfrey R. Bourne of Ohio Wesleyan University, Delaware, Ohio. One-year memberships in the A.O.U. were awarded to 40 students (25 graduate students, 10 seniors, 1 junior, 3 sophomores, and 2 freshmen) enrolled in 27 institutions in 19 states and Canada.

Membership.—An interim report (through 30 June 1972) showed that the membership stood at 3,135, a decrease of seven from a year previous. Numbers in the various classes were:

Members	2,726
Elective Members	226
Fellows	96
Corresponding Fellows	68
Honorary Fellows	19

Total membership included 1 Benefactor (+ 3 deceased), 18 Patrons (+ 20 deceased), 411 Life Members, 90 Life Elective Members, and 48 Life Fellows. Resignations were received in the year from 51 members.

During the year between meetings the officers learned of the deaths of 14 Members, 3 Elective Members (including 1 Patron), 1 Fellow (also a Patron), and 4 Corresponding Fellows:

- Ray J. Beasley, Member
- James R. Beer, Member
- Arnoldo Bertoni, Corresponding Fellow
- G. Clifford Carl, Member
- Manton Copeland, Honorary Life Member
- Rudolf Drost, Corresponding Fellow
- T. Scott Fillebrown, Member
- William George F. Harris, Member
- Frank A. Hartman, Life Elective Member, Patron
- Mrs. Roscoe C. Hauser, Jr., Member
- Derek G. Helmboldt, Member
- John P. Holman, Member
- Lester King Kirk, Member
- Maria Koepcke, Corresponding Fellow
- Nathan Leopold, Member
- H. W. Murdy, Member
- Theed Pearse, Member
- Leonid A. Portenko, Corresponding Fellow
- Arlie William Schorger, Life Fellow, Patron
- George M. Seeley, Member
- Walter P. Taylor, Honorary Life Elective Member
- Ralph E. Yeatter, Elective Member

In the meetings of 14 August, the following persons were elected to special classes of membership:

CORRESPONDING FELLOW

Klaus Immelmann (Germany)

FELLOW

George E. Hudson

ELECTIVE MEMBER

Elizabeth S. Austin

Daniel D. Berger

ELECTIVE MEMBER (cont.)

Carl Bock

Jerram L. Brown

Stephen T. Emlen

Anthony J. Erskine

J. Bruce Falls

Hubert Frings

Sidney A. Gauthreaux, Jr.

Helen Hays

E. Otto Höhn
 Laurence Irving
 Frances C. James
 Donald Alison Jenni
 H. G. Lumsden
 Robert Ohmart
 Gordon H. Orians

Oscar T. Owre
 David B. Peakall
 Richard Lee Penney
 Dennis M. Power
 Robert E. Ricklefs
 Frank G. Stiles, III
 John A. Wiens

Finances.—The Investing Trustees, chaired by Cyrus Mark, reported that the value of the Merged Assets Account as of 31 July 1972 was \$311,734, representing an increase of 13 percent in the fiscal year. In the same year the income collected from investments amounted to \$12,676.

The Council reelected Cyrus Mark, Chairman, Melvin A. Traylor, and James A. Ware as Investing Trustees.

The report of Treasurer Burt L. Monroe, Jr., appears in full at the conclusion of these proceedings.

Editorial matters.—Oliver L. Austin, Jr., Editor of *The Auk*, reported that Volume 89 (1972) will contain approximately 970 pages, slightly fewer than the previous volume. Manuscripts sufficient for two issues of Volume 90 have been set in galleys. The time lag between acceptance and publication of papers continues to be a problem. The index for Volume 89 was prepared by Mrs. Willeta Lueshen.

Council approved the policy that wholly subsidized papers be published in the next available issue of *The Auk* after acceptance. Such papers will be in addition to the number of pages that would otherwise be published and will not affect priority of publication of any other paper.

A ten-year index for *The Auk*, 1961–1970, is in press, and should be available early in 1973. This index was prepared by Col. L. R. Wolfe. The Editor and Council would be happy to communicate with someone interested in serving the A.O.U. by compiling the next ten-year index.

Oliver L. Austin, Jr., was reelected Editor of *The Auk*. The Periodical Literature section will continue under the guidance of Herbert W. Kale, II, and John P. Hubbard replaces John W. Hardy as Editor of the Reviews section.

Robert M. Mengel, Editor of the Ornithological Monographs, reported that difficulties of revision and editing have delayed publication of pending monographs more than had been anticipated. Three monographs are in final stages and should be published this year; five others are in earlier stages. John W. Hardy was elected Editor of the Monograph series, but Dr. Mengel will continue work on those papers presently in his hands.

Eugene Eisenmann, Chairman of the Committee on Classification and Nomenclature, reported that Lloyd Kiff, of the Western Foundation of Vertebrate Zoology, will be working with the committee on a half-time basis to compile distributional information for the sixth edition of the check-list. A supplement to the fifth edition, covering relatively noncontroversial nomenclatural matters, will be submitted to *The Auk* soon.

Ralph S. Palmer, Editor of the Handbook of North American Birds, indicated that the time is nearing when Volume 2 will be submitted to the publishers.

Amendments to the Bylaws.—Council and Fellows gave preliminary approval to a series of amendments to the Bylaws that would have the following effects: 1) increase the number of Fellows under the age of 60 years to 75 from the present 50; 2) remove the delegates of the Wilson Ornithological Society and the Cooper Ornithological Society from the A.O.U. Council; and 3) provide for nomination by mail prior to the Stated Meeting of candidates for Second Vice-President and Elective Councilors. The present Bylaws are given in full in *The Auk* 1972, 89: 171–174. Specific amendments are as follows:

Article I, Section 4. Change word “fifty” in second sentence to “seventy-five.”

Article II, Section 1. Change part of second sentence to read: “These officers, together with the Editor of ‘The Auk’ and the Ex-Presidents, shall constitute the board of management, or Council . . .”

Article IV, Section 2. Change first sentence to read: “The President, the Second Vice-President, the Secretary, the Treasurer, and three Elective Councilors shall be elected annually by vote of the Fellows and Elective Members assembled at each stated meeting.”

Article IV, Section 3, paragraph 1. The first sentence is deleted. In the present third sentence, change the word “each” to “these.”

Article IV, Section 3, paragraph 3. Delete the first sentence and substitute the following: “Each Elective Member and Fellow shall be invited in advance of the annual meeting to nominate, in writing to the Secretary, one person for Second Vice-President and three persons for Elective Councilors. These nominations shall be presented at the stated meeting of Elective Members and Fellows. Additional nominations may be made from the floor. For each office, Fellows and Elective Members may vote for as many candidates as there are positions to be filled.” Add to the end of the paragraph the following sentence: “Additional ballots may be taken as necessary until all positions are filled.”

ATTENDANCE

Registration at the meeting totaled 334 people, from 5 provinces of Canada and 40 states and the District of Columbia of the U.S.A. Attendance was as follows:

CANADA—*Alberta*: Hugh and Joyce Smith. *Manitoba*: Herbert Copland, P. Cowan, R. M. Evans, Ken Severson, Jim Shapiro. *Ontario*: Dr. and Mrs. Jon Barlow, William Creighton, Dr. and Mrs. W. W. H. Gunn, John Harcus, Allen Keast, Hoyes Lloyd, R. D. Lockwood, Mr. and Mrs. Dan Loncke, Stewart MacDonald, Gerald Shields. *Quebec*: N. A. M. Verbeek. *Saskatchewan*: Mr. and Mrs. C. Stuart Houston, David V. Houston, Donald S. Houston, Margaret S. Houston, J. R. and Shirley Jowsey, William J. Maher.

UNITED STATES—*Alaska*: Dave Norton. *Arizona*: Betty Carnes, R. Roy Johnson, Gale Monson. *Arkansas*: Douglas James. *California*: David and Helen Ainley, Enid Austin, Laurence Binford, Pat Breckenridge, Dr. and Mrs. Howard Cogswell, Nicholas E. and Elsie Collias, Charles T. Collins, John Davis, David Dodds, John W. Hardy, Charles Jerde, Ned K. Johnson, Lloyd F. Kiff, Richard and Frances Mewaldt, Mr. and Mrs. Gary Page, Don Schroeder, Lynne Stenzel. *Colorado*: Delwin Benson, Mr. and Mrs. Winston Brockner, Phil Creighton, Warren Flock, David Porter, R. A. Ryder, Donald and Hazel Thatcher. *Connecticut*: Helen Hunt, Charles and Frances Sibley. *Delaware*: John Hubbard, Roland Roth. *District of Columbia*: Dr. and Mrs. Richard C. Banks, Marshall Howe, Storrs Olson, Dr. and Mrs. Alexander Wetmore, Francis S. L. Williamson, Richard L. Zusi. *Florida*: Elizabeth S. and Oliver L. Austin, Jr., Pierce Brodkorb, Herbert W. Kale, John Ogden, Carole Sumner, Glen E. Woolfenden. *Georgia*: Frances Hames, Charles and Karen Thompson.

Illinois: Clark Casler, Joel Cracraft, Thomas and Maria Dunstan, Mildred and Harvey Fisher, Mr. and Mrs. Ed Franks, Dr. and Mrs. William George, Dr. and Mrs. Melvin A. Traylor. *Indiana*: Michael and Jan Monahan. *Iowa*: Mr. and Mrs. Steven Byers, Richard and Gelinda Crawford, Bill Eldridge, Robert Ernst, Mike Pech, Peter and Mary Lou Peterson, Charles Steffan. *Kansas*: Charles and Janice Ely, Philip S. and Mary Lou Humphrey. *Louisiana*: Robert E. and Allene Noble. *Maryland*: Carole Christian, Erwin Klass, Chandler Robbins, Brian Sharp, Sam and Gloria Weeks. *Massachusetts*: Richard T. Darby, Gordon and Edith Johnson, Susan M. Smith. *Michigan*: Ralph Babcock, Peter Borchelt, Gerald Brow, Steven and Linda Cohen, Mr. and Mrs. N. L. Cuthbert, William and Virginia Dawson, Eldon Greij, Thomas Heatley, Mr. and Mrs. Timothy Nowicki, Robert and Karen Payne, Sergej Postupalsky, William Scharf, Robert W. and Louise Storer, Gus Van Vliet.

Minnesota: W. J. and Dorothy Breckenridge, Scott Derrickson, Mark Fuller, Dana Gardner, Jon Gerrard, Walter Graul, Lee Grim, Mic Hamas, Vonnie Hagen, Arlen Harmoning, Nikki Higgins, P. B. Hofslund, Mark LeRud, Gladwin Lynne, Terry Mace, William Marshall, Pat and Judy McIntyre, Frank McKinney, Doug Mock, Mrs. Violet Nagle, Sarah O'Conner, David and Jean Parmelee, Richard Phillips, Philip Regal, Daniel Svedarsky, John Tester, H. B. Terodoff, James Vanden Berge, Dwain and Gloria Warner, Bill and Nancy Wenstrom, Elsie M. Welter, Pauline Wershofen, Joseph Wunderle. *Mississippi*: Tom L. Darden, Jerome A. Jackson. *Missouri*: Ted Anderson, Leigh and Judy Fredrickson, William Goodge, James Hansen, Mr. and Mrs. Dean F. Knauer, James Mulligan. *Montana*: D. A. Jenni, P. L. Wright. *Nebraska*: Paul Johnsgard, Mr and Mrs. John Lueshen.

New Hampshire: Peter Stettenheim. *New Jersey*: Joanna Burger, Bertram Murray. *New Mexico*: Robert Beason, Stuart Pimm, Ralph J. Raitt. *New York*: Kenneth Able, Robert Arbib, Walter Bock, Lois Buck, Eugene Eisenmann, Stephen Emlen, Helen Hays, Thomas Howe, Douglas A. Lancaster, Wesley and Vernia Lanyon, Mercedeth Lovelace, Harold D. Mitchell, Richard R. Olendorff, Ralph S. Palmer, Frances Rew, W. J. Richardson, Lester L. Short, Francis J. Singer, Mr. and Mrs. James Tate, Alice E. Ulrich, William C. and Lois Vaughan, Jayson Walker. *North Carolina*: Charles H. Blake, Alan Feduccia, Helmut Mueller. *North Dakota*: Mrs. George Anderson, John and Mary Bluemle, Mr. and Mrs. William A. Buresh, Frank Cassel, Charles Dane, Dennis Dirud, Mr. and Mrs. Dan Eades, Adrian C. Fox, Robert and Ann Gammell, Eleanor Hart, Mrs. John Hart, Douglas Johnson, Frank and Carol Kelley, Merle Knudson, Gary Krapu, Paul Lago, Robert W. Lewis, Lewis and Kay Oring, Mr. and Mrs. Robert Randall, Virginia Scheel, Paul Springer, Robert and Marjorie Stewart, Mr. and Mrs. Robert Stewart, Jr., Mrs. Bob Stiles, Elizabeth Styrvoky, Lawrence Summers, Marta E. Terlecki.

Ohio: Mrs. Robert Booth, Godfrey Bourne, Abbot and Sandra Gaunt, Mr. and Mrs. Dwight Hector, Mr. and Mrs. Harold Mayfield, Bruce McLean, Doug Wechsler. *Pennsylvania*: Richard and Joan Clark, Mary Clench, Frank Gill, Thomas Lovejoy, Kenneth C. Parkes, Robert Raikow. *Rhode Island*: Frank Heppner, Ruth Peckham. *South Carolina*: Sidney Gauthreaux. *South Dakota*: Bruce Harris, Esther Serr, Mr. and Mrs. Nathaniel Whitney. *Tennessee*: J. C. Howell, Gary Wallace. *Texas*: Keith A. Arnold, Mr. and Mrs. L. Irby Davis, James and Deva Swim. *Utah*: Joe Platt. *Vermont*: Patricia Fowler, Earl McKinley. *Virginia*: John W. Aldrich, Charles and Leann Blem, Mr. and Mrs. Mitchell Byrd, Mr. and Mrs. C. W. Hacker, Roxie Laybourne, Gary Seek, Jerry Via, Benjamin G. and Lucille Warfield. *Washington*: Robert Furrer, Flash Gibson, Mr. and Mrs. Helmut Klein. *Wisconsin*: Mark Davis, John Emlen, Mr. and Mrs. Jack Hailman, Frances Hamerstrom, Vincent Heig, Joseph J. Hickey, Margaret B. Hickey, Eric Nelson, Stan Skutek. *Unknown*: Tom Hays.

PUBLIC SESSIONS

General business sessions and most papers sessions were held in the Auditorium (Room 100) of Leonard Hall. Additional papers sessions were held in Room 116 of nearby Witmer Hall.

TUESDAY MORNING SESSION

Lewis W. Oring, Co-Chairman of the Local Committee on Arrangements, made several general announcements and introduced Dr. Bernard O'Kelly, Dean of the College of Arts and Sciences of the University of North Dakota, who welcomed the A.O.U. to the campus. President Robert W. Storer responded for the Union. Secretary Richard C. Banks summarized the business sessions of the previous day. The following papers were then presented:

- Morphs, inversion polymorphism, and selective mating in the White-throated Sparrow (*Zonotrichia albicollis*). DANIEL J. LONCKE and J. BRUCE FALLS, Department of Zoology, University of Toronto, Toronto, Ontario.
- Breeding and hybridizing meadowlarks in captivity. WESLEY E. LANYON, American Museum of Natural History, New York, New York.
- Delayed breeding in Adélie Penguins (*Pygoscelis adeliae*). DAVID G. AINLEY, Point Reyes Bird Observatory, Bolinas, California.
- Timing of settlement and movements of Yellow-breasted Chats (*Icteria virens*) during the breeding season. CHARLES F. THOMPSON and VAL NOLAN, JR., Department of Zoology, Indiana University, Bloomington, Indiana.
- Phenologies of the breeding seasons of the House Sparrow and the European Tree Sparrow at Portage des Sioux, Missouri. TED R. ANDERSON, Department of Biology, Saint Louis University, Saint Louis, Missouri.
- The effects of Brown-headed Cowbird control on the fledging success of Kirtland's Warblers. NICHOLAS L. CUTHBERT and BRUCE E. RADABAUGH, Department of Biology, Central Michigan University, Mt. Pleasant, Michigan and Waterford, Michigan.
- 1972 Kirtland's Warbler census. HAROLD F. MAYFIELD, 9235 River Road, Waterville, Ohio.

TUESDAY AFTERNOON SESSION

- Bird migration and losses at the Omega Navigation Station, La Moure, North Dakota. PAUL F. SPRINGER and MICHAEL L. AVERY, Bureau of Sport Fisheries and Wildlife, Northern Prairie Wildlife Research Center, Jamestown, North Dakota.
- Correlations between migratory itinerary and temporal and spatial patterns of climate in a long-distance and a short-distance European migrant. HELMUT KLEIN, Department of Zoology, Washington State University, Pullman, Washington.
- Environmental influences of the nocturnal migration and orientation of birds. KENNETH P. ABLE, Department of Biological Sciences, State University of New York, Albany, New York.
- The influence of wind on the orientation and evolution of bird migration. SIDNEY A. GAUTHREUX, JR., Department of Zoology, Clemson University, Clemson, South Carolina.
- Radar tracking: a new technique for navigation studies of free-flying migrants. STEPHEN T. EMLEN, Division of Biological Sciences, Cornell University, Ithaca, New York.
- How many eggs do parasitic cuckoos lay? ROBERT B. PAYNE, Museum of Zoology, University of Michigan, Ann Arbor, Michigan.
- Habitat selection, breeding strategy, and dispersal of the young in a population of Brewer's Blackbirds. ROBERT K. FURRER, Department of Zoology, University of Washington, Seattle, Washington.
- Breeding success of the Yellow-headed Blackbird in Barnes County, North Dakota. LEE H. GRIM, Rainy River State Junior College, International Falls, Minnesota.
- Nesting success of the Great-tailed Grackle (*Cassidix mexicanus*) in relation to colony density. ROBERT F. GOTIE and KEITH A. ARNOLD, Department of Wildlife and Fisheries Sciences, Texas A&M University, College Station, Texas.

WEDNESDAY MORNING SESSION

- Social system of the Central American Jacana. DONALD A. JENNI, Department of Zoology, University of Montana, Missoula, Montana.
- The adaptive nature of the Mountain Plover social system. WALTER D. GRAUL, Department of Ecology and Behavioral Biology, University of Minnesota, Minneapolis, Minnesota.
- The role of aerial chases in breeding Wilson's Phalaropes. MARSHALL A. HOWE, Bird and Mammal Laboratories, Bureau of Sport Fisheries and Wildlife, National Museum of Natural History, Washington, D.C.
- Polyandry in the Spotted Sandpiper (*Actitis macularia*). HELEN HAYS, American Museum of Natural History, New York, New York.
- Comments on polyandry in the Spotted Sandpiper. LEWIS W. ORING, Department of Biology, University of North Dakota, Grand Forks, North Dakota.
- Radio telemetry studies of Woodcock activity and movements. WILLIAM P. WENSTROM and WILLIAM H. MARSHALL, Department of Entomology, Fisheries and Wildlife, University of Minnesota, St. Paul, Minnesota.

Bioenergetic determinants of productivity and growth in Arctic Calidridine sandpipers. DAVID W. NORTON, Institute of Arctic Biology, University of Alaska, College, Alaska.

A time budget for the American Avocet. FLASH GIBSON, Department of Biology, Eastern Washington State College, Cheney, Washington.

Patterns of adaptation in the skull of shorebirds. RICHARD L. ZUSI, National Museum of Natural History, Washington, D. C.

WEDNESDAY AFTERNOON SESSIONS

CONCURRENT SESSION A

Parental calls and the behaviour of Canada Goose pulli—a laboratory study. P. J. COWAN, Department of Zoology, The University of Manitoba, Winnipeg, Manitoba.

Responsiveness to auditory stimuli in young Ring-billed Gulls. ROGER M. EVANS, Department of Zoology, University of Manitoba, Winnipeg, Manitoba.

Song learning in the House Finch (*Carpodacus mexicanus*). PAUL MUNDINGER and LAURA WADDICK, The Rockefeller University, New York, New York.

Development of prey-recognition and killing behavior in hand-reared Sparrow Hawks. HELMUT C. MUELLER, Department of Zoology, University of North Carolina, Chapel Hill, North Carolina.

Factors directing prey-attack by the young of three passerine species. SUSAN M. SMITH, Department of Biological Sciences, Wellesley College, Wellesley, Massachusetts.

Why do birds dustbathe? PETER L. BORCHELT, Department of Psychology, Michigan State University, East Lansing, Michigan.

A motivational analysis of Great Blue Heron pair-formation behavior. DOUGLAS MOCK, Department of Ecology and Behavioral Biology, University of Minnesota, Minneapolis, Minnesota.

The function of song in the breeding biology of the Catbird (*Dumetella carolinensis*, family Mimidae). J. L. HARCUS and J. B. FALLS, Department of Zoology, University of Toronto, Toronto, Ontario.

CONCURRENT SESSION B

Feeding ecology of Pintail hens during reproduction. GARY KRAPU, Bureau of Sport Fisheries and Wildlife, Northern Prairie Wildlife Research Center, Jamestown, North Dakota.

Eye coloration of Lesser Scaup in relation to age. DAVID L. TRAUGER, Northern Prairie Wildlife Research Center, Jamestown, North Dakota.

Growth and development of Long-billed Curlew chicks. DENNIS M. FORSYTHE, Department of Biology, The Citadel, Charleston, South Carolina, and Department of Zoology, Clemson University, Clemson, South Carolina.

The behavior of the Red-winged Tinamou (*Rhynchotus rufescens*) in captivity. SAM E. WEEKS, U. S. National Zoological Park, Smithsonian Institution, Washington, D. C.

- Anti-predator mechanisms in Tinamous. DOUGLAS A. LANCASTER, Laboratory of Ornithology, Cornell University, Ithaca, New York.
- Functional anatomy of the respiratory system of the Starling (*Sturnus vulgaris*). DWIGHT H. HECTOR, Department of Zoology, Ohio State University, Columbus, Ohio.
- Locomotor mechanisms in North American ducks. ROBERT J. RAIKOW, Department of Biology, University of Pittsburgh, Pittsburgh, Pennsylvania.
- The Vee formation of Canada Geese: geometry. LISA LOFLAND GOULD and FRANK HEPNER, Department of Zoology, University of Rhode Island, Kingston, Rhode Island.
- Metabolized energy in the Japanese Quail (*Coturnix coturnix*). CHARLES R. BLEM, Virginia Commonwealth University, Richmond, Virginia.

THURSDAY MORNING SESSIONS

CONCURRENT SESSION A

- Life expectancy of adult passerines in the DDT era. EDWIN C. FRANKS, Department of Biological Sciences, Western Illinois University, Macomb, Illinois.
- Desert wintering Bald Eagles in Utah. JOSEPH B. PLATT, Department of Zoology, Brigham Young University, Provo, Utah.
- Application of radio-telemetric techniques to studies of strigiform and falconiform birds. THOMAS C. DUNSTAN, STEVE D. SAMPLE, and M. KENT FROBERG, Department of Biological Sciences, Western Illinois University, Macomb, Illinois.
- A Great Horned Owl banding program in Saskatchewan. C. STUART HOUSTON, 863 University Drive, Saskatoon, Saskatchewan.
- Population and behavioral studies of the Saw-whet Owl in Arizona. R. ROY JOHNSON and STEVEN W. CAROTHERS, Prescott College Ecological Survey, Prescott, Arizona.
- What birds really winter near Fargo, North Dakota? J. FRANK CASSEL, Zoology Department, North Dakota State University, Fargo, North Dakota.
- The distribution of male and female *Fregata magnificens* along the Gulf Coast of Florida. BRIAN A. HARRINGTON, RALPH W. SCHREIBER, and GLEN E. WOOLFENDEN, Department of Biology, University of South Florida, Tampa, Florida.
- Habits, taxonomy, and conservation of the Okinawan Woodpecker. LESTER L. SHORT, American Museum of Natural History, New York, New York.
- Habitat preferences and competition of wintering Juncos and Golden-crowned Sparrows. JOHN DAVIS, Hastings Reservation, University of California, Carmel Valley, California.
- Feeding territoriality in sunbirds. FRANK B. GILL and LARRY L. WOLF, Academy of Natural Sciences, Philadelphia, Pennsylvania, and Department of Zoology, Syracuse University, Syracuse, New York.

CONCURRENT SESSION B

- Relationships of the passerine finches. JOHN MORONY and WALTER J. BOCK, American Museum of Natural History, New York, New York.

- The relationships of *Phainopepla*, *Dulus*, and *Promerops*. CHARLES G. SIBLEY, Peabody Museum of Natural History, Yale University, New Haven, Connecticut.
- The "Black-faced Antthrush." L. IRBY DAVIS, 2502 Keating Lane, Austin, Texas.
- What is *Vireo osburni*? JON C. BARLOW, Royal Ontario Museum, Toronto, Ontario.
- Morphology and relationships of the Hawaiian honeyeater *Moho*. WALTER J. BOCK, Department of Biological Sciences, Columbia University, New York, New York.
- Variation and relationships of the Yellowish Flycatcher (*Empidonax flavescens*) of Central America. NED K. JOHNSON, Museum of Vertebrate Zoology, University of California, Berkeley, California.
- The Columella Auris in the Coraciiformes. J. ALAN FEDUCCIA, Department of Biology, University of North Carolina, Chapel Hill, North Carolina.
- More similarities among tropicbirds and procellariiforms. CLARK L. CASLER and GERRIT P. KLOEK, Department of Zoology, Southern Illinois University, Carbondale, Illinois.
- Paleornithology of St. Helena Island. STORRS L. OLSON, National Museum of Natural History, Washington, D. C.
- Phylogeny and evolution of the ratites. JOEL CRACRAFT, Department of Anatomy, University of Illinois, Chicago, Illinois.

THURSDAY AFTERNOON SESSION

At a short general session before the papers session, Secretary Banks summarized business sessions of the previous two days. Allen Keast discussed possible travel plans for persons attending the International Ornithological Congress to be held in Australia in 1974. One resolution was adopted (see beyond).

- Species diversity measures in low diversity situations. STUART L. PIMM, Department of Biology, New Mexico State University, Las Cruces, New Mexico.
- Some aspects of diversity of avian communities in Texas brush-grasslands. ROLAND R. ROTH, Department of Entomology and Applied Ecology, University of Delaware, Newark, Delaware.
- Impact of urbanization on desert birdlife. JOHN T. EMLÉN, Zoology Department, University of Wisconsin, Madison, Wisconsin.
- Breeding bird populations in a native coastal hammock and golf course subdivision: a before and after study. HERBERT W. KALE, II, and LAWRENCE A. WEBBER, Entomological Research Center, Florida Division of Health, Vero Beach, Florida.
- Effect of man on the nesting of raptors in shortgrass prairie. RICHARD R. OLENDORFF, American Museum of Natural History, New York, New York.
- Seasons of occupancy of some grassland birds on the International Biological Program site in Colorado. RONALD A. RYDER and DAVID K. PORTER, Department of Fishery and Wildlife Biology, Colorado State University, Fort Collins, Colorado.

Habitat exploitation patterns of a ground foraging guild. PHILLIP D. CREIGHTON, Department of Zoology, Colorado State University, Fort Collins, Colorado.

Patterns of food exploitation in the Yellow-billed Magpie and the Scrub Jay. NICOLAAS A. M. VERBEEK, Redpath Museum, McGill University, Montreal, Quebec.

SPECIAL EVENTS

A film showing highlights of some former A.O.U. meetings, made by the late James Savage, was shown in Burntness Theater on Tuesday evening. A motion picture session on Wednesday evening featured the following excellent films:

"Grouse country." STEWART D. MACDONALD, National Museum of Canada, Ottawa, Ontario.

"Evolution of nests in the weaverbirds." NICHOLAS E. COLLIAS and ELSIE C. COLLIAS, Department of Zoology, University of California, Los Angeles, California.

"Sunbirds and the lion's paw." FRANK B. GILL, The Academy of Natural Sciences, Philadelphia, Pennsylvania.

"Farallon Light." DAVID G. AINLEY, Point Reyes Bird Observatory, Bolinas, California.

An exhibition of ornithological art, featuring work of midwestern artists, was on display in the Art Gallery of the University Center throughout the meeting. Several of the artists were present at the formal opening on Monday evening.

SOCIAL EVENTS

The Council and Fellows held their symposium and dinner on Monday at the Westward Ho Motel. Ladies enjoyed tours featuring commentary on edible wild plants on Tuesday afternoon, and reviews of Red River Valley agricultural centers on Wednesday. Tours to Honve House, the Scandinavian Culture Center, were featured on Tuesday, Wednesday, and Thursday.

Members were guests at an informal reception at the Westward Ho Motel on Tuesday evening, and at a reception at the Newman Center on Wednesday evening. The annual banquet, preceded by a punch reception, was held on Thursday, 17 August, in the ballroom of the University Center. The entertainment of the evening was a humorous talk by Luther Bjerke.

FIELD TRIPS

Two all-day field trips were held on 18 August. Seventy-four persons traveled by bus to central North Dakota native prairies, potholes, and saline lakes. Highlights of the trip included the catching of a juvenile Baird's Sparrow, and seeing hundreds of Sandhill Cranes and over 100 White Pelicans. Numerous Western and Eared Grebes, various waterfowl and shorebird species, and Chestnut-collared Longspurs were also seen.

Sixty-six persons traveled by bus to native tall and short grass prairies, and across the prairie-forest ecotone to the virgin forests of Itasca State Park in Minnesota. Red-necked Grebes, Common Loons, Bald Eagles, Sharp-tailed Sparrows, and a Black-backed Three-toed Woodpecker were seen. The trip was highlighted by a Mexican-style lamb barbecue hosted by Dwain and Gloria Warner. Scott Stalheim showed participants captive Yellow Rails and discussed his research on this species.

Ten persons participated in an extensive postmeeting trip to National Wildlife Refuges and Parks in western North Dakota under the leadership of Robert and Ann Gammell.

RESOLUTIONS

The following Message of Thanks was adopted as a Resolution at the General Session held Thursday afternoon, 17 August 1972:

We, the members of the American Ornithologists' Union, gathered for our ninetieth stated meeting, wholeheartedly express our thanks to the University of North Dakota, the North Dakota Natural Science Society, and the Local Committee on Arrangements for planning and hosting an outstanding meeting. In particular, we are grateful to Dr. Lewis W. Oring and Miss Merle Knudson and the other members of the local committee for unusually warm hospitality and for seeing to it that everything has run well. We especially appreciate their attention to the small details that contribute so to the enjoyment of a meeting. The entire meeting has been run with remarkable smoothness and efficiency.

We commend also the Committee on Scientific Program, Dr. Ralph J. Raitt, chairman, for arranging a full and stimulating program. We are impressed and grateful that Dr. Oring, in addition to his other duties, arranged the outstanding symposium on shorebird biology. Audiovisual facilities and operators for the entire meeting have been unusually good. In addition to the scientific program, many of us have enjoyed the interesting excursions and field trips.

The A.O.U. has been pleased and proud to share a 90th anniversary with the University of North Dakota, and we will long remember our hospitable hosts in Grand Forks.

OFFICIALS OF THE AMERICAN ORNITHOLOGISTS' UNION FOR 1972-73

OFFICERS

Joseph J. Hickey, *President*
 George A. Bartholomew, *First Vice-President*
 Harrison B. Tordoff, *Second Vice-President*
 Richard C. Banks, *Secretary*
 Burt L. Monroe, Jr., *Treasurer*

ADDITIONAL MEMBERS OF THE COUNCIL

	Term Expires
Editor of <i>The Auk</i>	
Oliver L. Austin, Jr.	1973

Elective Councilors

Eugene Eisenmann	1973
Wesley E. Lanyon	1973
Charles G. Sibley	1973
Thomas R. Howell	1974
Robert M. Mengel	1974
Glen Woolfenden	1974
John W. Hardy	1975
Lester L. Short	1975
Richard L. Zusi	1975

Society Representatives

Nicholas E. Collias, Cooper Ornithological Society	1973
Pershing B. Hofslund, Wilson Ornithological Society	1973

Past Presidents

John W. Aldrich, 1968-70	Ernst Mayr, 1957-59
Dean Amadon, 1964-66	Robert C. Murphy, 1948-50
Herbert Friedmann, 1937-39	Austin L. Rand, 1962-64
Hoyes Lloyd, 1945-48	Robert W. Storer, 1970-72
George H. Lowery, Jr., 1959-62	Alexander Wetmore, 1926-29
Harold F. Mayfield, 1966-68	

A.O.U. COMMITTEES 1972-73

- INVESTING TRUSTEES: Cyrus Mark, *Chairman*. Melvin A. Traylor, Jr., James A. Ware.
- COMMITTEE ON ARCHIVES: Gorman M. Bond, *Chairman*. Dean Amadon, Elizabeth S. Austin, Earle R. Greene.
- COMMITTEE ON BIOGRAPHY: Charles H. Blake, *Chairman*. F. Graham Cooch, Mary M. Erickson, Helen Hays, Rev. James A. Mulligan, S. J.
- COMMITTEE ON BIRD COLLECTIONS: Richard C. Banks, *Chairman*. Peter L. Ames, Jon C. Barlow, Mary H. Clench, Robert W. Dickerman, Richard L. Zusi.
- COMMITTEE ON BREWSTER AND COUES AWARDS: Nicholas E. Collias, *Chairman*. Frank B. Gill, Gordon H. Orians, William R. Dawson, Harold F. Mayfield.
- COMMITTEE ON BYLAW CHANGES: George A. Bartholomew, Jr., *Chairman*. Marguerite H. Baumgartner, George H. Lowery, Jr.
- COMMITTEE ON CAREER OPPORTUNITIES: Frances Crews James, *Chairwoman*. F. Graham Cooch, Millicent S. Ficken, C. Eugene Knoder, Wesley E. Lanyon, Paul F. Springer.
- COMMITTEE ON CLASSIFICATION AND NOMENCLATURE: Eugene Eisenmann, *Chairman*. Dean Amadon, Richard C. Banks, Emmet R. Blake, Thomas R. Howell, Ned K. Johnson, George H. Lowery, Jr., Kenneth C. Parkes, Robert W. Storer.
- COMMITTEE ON CONSERVATION: Stephen M. Russell, *Chairman*. Miguel Alvarez del Toro, Lawrence C. Binford, L. Irby Davis, Robert W. Dickerman, Ernest P. Edwards, Thomas R. Howell, Lloyd F. Kiff, Burt L. Monroe, Jr., Allan R. Phillips, Alexander F. Skutch, Neal G. Smith, Frank G. Stiles.
- EDITORIAL COMMITTEE: Oliver L. Austin, Jr., *Chairman*. James Dinsmore,

- Eugene Eisenmann, John W. Hardy, John P. Hubbard, H. W. Kale, II, Robert M. Mengel, Ralph S. Palmer, Florence Pettis, Francis S. L. Williamson.
- COMMITTEE ON ENDOWMENT: Peter Stettenheim, *Chairman*. John S. Dunning, Cyrus Mark, William C. Vaughan.
- COMMITTEE ON FINANCE: Burt L. Monroe, Jr., *Chairman*. Hoyes Lloyd, Cyrus Mark, Robert J. Newman, Peter Stettenheim, Melvin A. Traylor, Jr.
- COMMITTEE ON FOREIGN TRANSLATIONS: George E. Watson, *Chairman*. Donald S. Farner, Robert S. Hoffmann, Sergej Postupalsky, M. D. F. Udvardy.
- LOCAL COMMITTEE ON ARRANGEMENTS: Richard T. Darby and Norman P. Hill, *Chairmen*. Kathleen S. Anderson, Margaret L. Argue, Oliver L. Austin, Jr., W. Wallace Bailey, Richard J. Eaton, Ruth P. Emery, Robert P. Fox, David L. Garrison, Joseph A. Hagar, W. Wayne Hanley, Bennett R. Keenan, Raymond A. Paynter, Jr., Wayne R. Petersen, James O. Seamans.
- COMMITTEE ON THE NOMINATION OF ELECTIVE MEMBERS: L. Richard Mewaldt, *Chairman*. Jon C. Barlow, Barbara B. DeWolfe, Stephen W. Eaton, Chandler S. Robbins.
- COMMITTEE ON THE NOMINATION OF MEMBERS: Lester L. Short, *Chairman*. Russell P. Balda, Winston E. Banko, Donald J. Borer, Gene M. Christman, Charles T. Collins, Kendall W. Corbin, Philip A. DuMont, Anthony J. Erskine, Frank B. Gill, Richard R. Graber, Joseph C. Howell, Charles E. Huntington, Spencer G. Sealy, Fred G. Sibley, Paul W. Sykes, Jr., George C. West.
- COMMITTEE ON THE NOMINATION OF FELLOWS: Tom J. Cade, *Chairman*. Ned K. Johnson, Robert J. Newman.
- COMMITTEE ON THE NOMINATION OF HONORARY AND CORRESPONDING FELLOWS: Richard F. Johnston, *Chairman*. Walter Bock, Nicholas E. Collias, Rodolphe Meyer de Schauensee.
- COMMITTEE ON PROGRAM AT ANNUAL MEETING: H. Lewis Batts, Jr., *Chairman*. Richard C. Banks, Richard D. Brewer, Richard T. Darby, Norman P. Hill, Lewis W. Oring, William R. Dawson.
- COMMITTEE ON PUBLICATIONS: Oliver L. Austin, Jr., *Chairman*. Richard C. Banks, Eugene Eisenmann, John W. Hardy, Robert M. Mengel, Burt L. Monroe, Jr., Ralph S. Palmer.
- COMMITTEE ON RESEARCH: William G. George, *Chairman*. Jack P. Hailman, Charles G. Sibley.
- COMMITTEE ON RESOLUTIONS: Frederick Greeley, *Chairman*. Mary H. Clench, Stephen M. Russell.
- COMMITTEE ON STUDENT AWARDS: William L. Thompson, *Chairman*. Russell P. Balda, David A. Boag, Sidney A. Gauthreaux, Jr., Robert C. Stein, John W. Wiens.
- REPRESENTATIVES TO THE A.A.S. COUNCIL: Richard T. Holmes, Helmut C. Mueller.

TREASURER'S REPORT

1 AUGUST 1971-31 JULY 1972

INCOME TO ACTIVE FUND

Dues	\$20,575.95
Subscriptions	8,530.50
Sale of back issues of <i>The Auk</i>	678.00
Royalties	239.02
Advertising	958.21
Donations to Active Fund	568.20
Sale of reprints	41.26
Income from General Endowment	9,974.85
Income from Ruthven Deane Fund	380.46
Income from surplus	2,525.60
Refund from annual meeting	356.00
TOTAL INCOME	\$44,828.05
Balance in account, 31 July 1971	14,932.01
TOTAL	\$59,760.06

DISBURSEMENTS FROM ACTIVE FUND

Expenses, publication of <i>The Auk</i>	\$38,459.24
Expenses, Treasurer	3,628.26
Expenses, Secretary	449.95
Cost of dues notices	603.79
Cost of annual meeting	401.20
Purchase and mailing of back issues of <i>The Auk</i>	1,215.80
Cost of reprints	51.71
Cost of Membership List	1,344.00
Donations from Active Fund	100.00
TOTAL DISBURSEMENTS	46,253.95
Balance in Active Fund, 1 August 1972	\$13,506.11

SPECIAL FUNDS

Brewster Memorial Fund:

Income from investments	\$ 614.01	
Expenses of producing medal		\$ 80.82
Award		\$ 533.19
	\$ 614.01	\$ 614.01

Bird Protection Fund:

Balance forward	\$ 6.26	
Income from investments	119.29	
To Intern. Council for Bird Protection		\$ 100.00
Balance in account		25.55
	\$ 125.55	\$ 125.55

Educational Fund:

Balance forward	\$ 75.21	
Income from investments	331.49	
Memberships for 40 students		\$ 320.00
Balance in account		86.70
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	\$ 406.70	\$ 406.70

General Endowment Fund:

Balance forward	\$ 321.21	
Life membership payments	4,032.50	
Donation, Alexander Wetmore	500.00	
Other donations	386.50	
Bounced check		\$ 37.50
To Investing Trustees		5,000.00
Balance in account		202.71
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	\$ 5,240.21	\$ 5,240.21

Handbook of North American Birds Fund:

Balance forward	\$ 1,071.66	
Royalties	19.50	
Expenses, Regents Research Fund		\$ 1,000.00
Balance in account		91.16
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	\$ 1,091.16	\$ 1,091.16

Special Publications Fund:

Balance forward	\$15,297.73	
Income from investments	425.66	
Sale of Checklists	1,208.80	
Sale of Proceedings	248.00	
Sale of Indexes	249.50	
Editorial expenses		\$ 61.75
Mailing and shipping of publications		98.47
Refund on sales		7.20
Balance in account		17,262.27
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	\$17,429.69	\$17,429.69

A.O.U. Monographs Fund:

Balance forward	\$30,918.08	
Sale of Monographs	1,429.24	
Donation from Tucker Foundation	5,000.00	
Editor's expenses		\$ 187.00
Mailing and packaging costs		45.12
Balance in account		37,115.20
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	\$37,347.32	\$37,347.32

Marcia B. Tucker Fund:

Balance forward	\$ 175.00	
Donation from Tucker Foundation	500.00	
1972 Awards: Stuart L. Pimm		\$ 314.00
Godfrey R. Bourne		186.00
Balance in account		175.00
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	\$ 675.00	\$ 675.00

Van Tyne Memorial Fund:

Balance forward	\$ 53.10	
Income from investments	710.70	
Balance in account		\$ 763.80
	<u>\$ 763.80</u>	<u>\$ 763.80</u>

CLOSING BALANCES

Active Fund	\$13,506.11	
Brewster Memorial Fund	-0-	
Bird Protection Fund	25.55	
Educational Fund	86.70	
General Endowment Fund	202.71	
Handbook of North American Birds Fund	91.16	
Special Publications Fund	17,262.27	
A.O.U. Monographs Fund	37,115.20	
Marcia B. Tucker Fund	175.00	
Van Tyne Memorial Fund	763.80	
	<u>TOTAL</u>	<u>\$69,228.50</u>

Checking Account, Liberty National Bank and Trust Co., Louisville, Kentucky	\$ 7,893.90	
Uninvested cash, National Boulevard Bank, Chicago, Illinois	334.60	
General Finance Corporation Variable Demand Note	61,000.00	
	<u>TOTAL</u>	<u>\$69,228.50</u>

BURT L. MONROE, JR., *Treasurer*

REPORT OF THE A.O.U. COMMITTEE ON TRANSLATION OF FOREIGN PUBLICATIONS

THE A.O.U. Committee on Translation of Foreign Publications advises the Smithsonian Institution and the Department of the Interior on foreign ornithological publications that are worth translating under the U. S. Foreign Currency Translation Program through the National Science Foundation. These translations are done abroad with excess currency funding that is available in only a few countries. In the past, the main effort in bird translations was Dementiev and Gladkov's six-volume "Birds of the Soviet Union," which was translated in Israel. As excess currency is no longer available for translation in Israel, Russian translations are now being done only in India. The level of translation competence into readable English in India such that the Program demands a responsible U. S. scientist who is willing to edit the translation before publication. This has severely reduced our flexibility in recommending Russian works for translation. In particular, pending for consideration are Bannikov and Kozlovsky "Zapovednik Sovetskogo Soyuza" (Natural reserves in the Soviet Union) and Doluschin et al. "Ptitsy Kazakhstana" (Birds of Kazakstan) for which we lack a U. S. editor. In the future, NSF is attempting to have Russian publications translated in Egypt. This may permit us to recommend additional works without a U. S. editor. In general, the ground rules within the program have only allowed translation of books and complete journals. It may also be possible in the future to have individual articles translated, something that will greatly increase flexibility for the A.O.U. Committee.

The only active bird translation projects at present, therefore, are in Yugoslavia and Poland, where we are translating the journals *Larus* and *Acta Ornithologica*. Volumes 1-27 of *Larus* have been translated. We are therefore up-to-date in this series. Volumes 9, 10, and 11 of *Acta* have been translated, and Volume 12 is in the works. These may be purchased from the National Technical Information Service, Springfield, VA 22151. In addition, the Committee has recommended Eugeniusz Nowak, 1971, "O Rozprzestrzeleniu sie Zwierzat i jego Przyczynach" (The range expansion of animals and its causes), published by the Ecological Institute of the Polish Academy of Sciences. Few ornithological publications in Polish or Serbo-Croatian are of general enough interest to justify translation under a national program.

The Committee would be delighted to receive translation suggestions from any A.O.U. members.—DONALD S. FARNER, ROBERT S. HOFFMANN, MIKLOS D. F. UDVARDY, and GEORGE E. WATSON, Chairman.