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A.O.U. Announcements

Fellows and Elective Members are reminded that nominations for Elective Member may be submitted to the Secretary on the prescribed form up until five months prior to the opening of the next Stated Meeting. The deadline for 1981 is **24 March**. Nominations for Fellow of the A.O.U. also must be received by that date. Nominations for Vice-President and Elective Councilors (3) may be made in writing to the Secretary at any time prior to the Annual Meeting.

The 99th Stated Meeting of the A.O.U. will be held at the **University of Alberta, Edmonton, Alberta, Canada** during the week of **August 24-27, 1981**.

The American Ornithologists' Union solicits applications for research grants from its **Josselyn Van Tyne** and **Alexander Wetmore Memorial Funds**. The Van Tyne awards will consider any aspect of avian biology; the Wetmore awards are limited to taxonomy/systematics. Grants are usually in amounts of a few hundred dollars. Preference is given to students and other persons without other sources of funds. Application forms may be obtained from **Dr. A. S. Gaunt, A.O.U. Committee on Research Awards, Department of Zoology, The Ohio State University, 1735 Neil Avenue, Columbus, Ohio 43210**. Applications must be completed before **18 March 1981**.

Marcia Brady Tucker Travel Awards to aid in the travel expenses of students presenting papers at the AOU meeting in Edmonton in August 1981 are available. To apply, submit curriculum vitae, an expanded summary of the paper to be presented (maximum of three pages, double-spaced), a budget of anticipated expenses, and a letter of evaluation from your major professor. All material must be received by **18 April**. Send to **Douglas W. Mock, Department of Zoology, University of Oklahoma, Norman, OK 73019**. Students must make their own arrangements for a place on the scientific program.

- SWANSON, G. A., & H. K. NELSON. 1970. Potential influence of fish rearing programs on waterfowl breeding habitat. Pp. 65-71 in *A symposium on the management of midwestern winterkill lakes* (E. Schneberger, Ed.). Spec. Publ. North Central Div. Amer. Fish. Soc.
- , M. I. MEYER, & J. R. SERIE. 1974. Feeding ecology of breeding Blue-winged Teals. *J. Wildl. Mgmt.* 38: 396-407.
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- WELLER, M. 1979. Wetland habitats. Pp. 210-234 in *Wetland functions and values: the state of our understanding* (P. E. Greeson, J. R. Clark, and J. E. Clark, Eds.). Minneapolis, Minnesota, Amer. Water Resources Assoc.

The **Frank M. Chapman Memorial Fund** of the American Museum of Natural History is administered by a committee that meets twice annually to review applications for grants and fellowships. While there is no restriction on who may apply, the Committee particularly welcomes applications from graduate students; management projects and projects by senior investigators are seldom funded. Applications should be submitted not later than **15 February** and **15 September**. Application forms may be obtained from the **Frank M. Chapman Memorial Fund Committee, The American Museum of Natural History, Central Park West at 79th St., New York, NY 10024**.

Dr. Timothy Crowe was appointed a Chapman Fellow for the period April 1981 through March 1982. He will study the systematics, biogeography and adaptive morphology of African gamebirds, hornbills, and diurnal birds of prey.

Dr. Philip Gaddis, also appointed a Chapman Fellow for April 1981 through March 1982, will study vocal communication systems and social behavior of the Plain and Bridled Titmice in the Chiricahua Mountains, Arizona.

Chapman grants during 1980, totalling \$41,913 with a mean of \$451, were awarded to: John P. Badgerow, use of the vee formation by Canada Geese (*Branta canadensis*) for aerodynamic advantage; Kenneth N. Baker, variation in breeding bird abundances among three state forests within the Connecticut River valley; William H. Baltosser, ecological relationships among nesting hummingbirds; Peter W. Bergstrom, incubation behavior in Wilson's Plover (*Charadrius wilsonius*); Verner P. Bingman, earth's magnetism and the ontogeny of migratory orientation; K. D. Bishop, study of Papua New Guinean *Megapodius* species and study of the West New Britain bird collections; Richard Blacquiere, age-related plumage dimorphism in male American Redstarts (*Setophaga ruticilla*); Kathleen A. Blanchard-French, social behavior of the Atlantic Puffin, *Fratercula arctica*; Peter J. Blancher, food supply and foraging behavior of Cassin's and Western kingbirds; Mary L. Bomberger, aspects of the breeding biology of the Wilson's Phalarope in western Nebraska; Michael James Braun, protein differentiation of hybridizing and reproductively isolated populations of Mexican Red-eyed Towhees; Jeffrey T. Burns, mate-switching in House Wrens; Gregory S. Butcher, coloration in orioles, genus *Icterus*; Michael D. Carter, social organization and parasitic habits of the Bronzed Cowbird (*Molothrus aeneus*); Scott L. Collins, habitat structure and habitat relationships of the Parulidae in Minnesota and Maine; Kevin J. Cook, ecology of the Flammulated Owl in Colorado; Malcolm C. Coulter, 1) importance of behavior to breeding success in terns, and 2) parental investment in breeding according to sex in Common Terns, *Sterna hirundo*; James Allan Cox, chromosomal morphology of the Red-winged Blackbird; Janice R. Crook, song variation and species discrimination in Blue-winged Warblers; James R. Cunningham, breeding biology, vocalization and social behavior of the New Zealand Brown Creeper (*Finschia novaeselandiae*); Robert Lawrence Curry, helping, behavior, breeding-group dynamics, and reproductive success in communal Galápagos mockingbirds; Carlos A. Delannoy, ecology and breeding biology of the Puerto Rican Sharp-shinned Hawk; Robert W. Dickerman, 1) avifauna of the southern Pacific lowlands of Guatemala, and 2) review of the Great Blue Heron, *Ardea herodias*; Bruce B. Edinger, behavioral isolating mechanisms in *Icterus galbula galbula* and *I. g. bullockii* in a zone of sympatry; Bonita Eliason, polygyny in the Blackpoll Warbler; Keith William Emmerson, bird community of the Laurel Forest of Tenerife (Canary

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- . 1978. Pair-formation displays of the Great Egret. *Condor* 80: 159–172.
- RODGERS, J. A. 1978. Breeding behavior of the Louisiana Heron. *Wilson Bull.* 90: 45–59.
- SIEGFRIED, W. R. 1972. Aspects of the feeding ecology of Cattle Egrets (*Ardeola ibis*) in South Africa. *J. Anim. Ecol.* 41: 71–78.
- TOMLINSON, D. N. S. 1976. Breeding behaviour of the Great White Egret. *Ostrich* 47: 161–178.
- TRIVERS, R. L. 1972. Parental investment and sexual selection. Pp. 136–179 in *Sexual selection and the descent of man, 1871–1971* (B. Campbell, Ed.). Chicago, Aldine-Atherton.
- WERSCHKUL, D. F. 1979. Nestling mortality and the adaptive significance of early locomotion in the Little Blue Heron. *Auk* 96: 116–130.
- WIESE, J. H. 1976. Courtship and pair formation in the Great Egret. *Auk* 93: 709–724.
- WISHART, R. A. 1978. Male Pintails defending females from rape. *Auk* 95: 186–187.

Islands); William Ervin, ecological correlates of song-flight behavior in birds of the short-grass prairie; Bruce Fall, winter territorial system of Brown Thrashers in south Texas; Elmer J. Finck, stabilizing selection for body size in the Dickcissel; Thomas W. French, possible age and sexual dimorphism in the Leach's Storm-petrel, *Oceanodroma leucorhoa*; Susan M. Green, nocturnal behavior of the Herring Gull during the breeding season; Ralph Grundel, feeding ecology of parent Mountain Chickadees (*Parus gambeli*); Paul Handford, multivariate analysis of morphological variation in *Zonotrichia capensis*, the Rufous-collared Sparrow; Susan Hannon, female behavior in the Willow Ptarmigan and its relation to population dynamics; James L. Hayward, reproductive strategies used by homosexual and heterosexual gulls; Linda Heald, behavioral plasticity in a Tyrannid flycatcher: effects of environmental variability; Dean P. Hector, time budgeting of the Aplomado Falcon (*Falco femoralis*) and its prey: the effect of predation on patterns of prey activity and distribution; Wallard W. Hennemann, functional significance of spread-winged behavior in Flightless Cormorants (*Nannopterum harrisi*); William Hilton Jr., behavioral ecology of the Blue Jay, *Cyanocitta cristata*; Joel D. Hubbard, resource partitioning in a tundra bird community of western Alaska; Johan Ingels, nesting behavior of the Blackish Nightjar (*Caprimulgus nigrescens*) in Surinam; Catherine H. Jacobs, 1) determining the model for song learning in a polygynous, colonial bird, and 2) anti-cuckoldry behavior of the Village Weaverbird; Paul A. Johnsgard, museum studies on grouse (Tetraonidae) and hummingbirds (Trochilidae); Walter D. Koenig, patterns of clutch size variation in North American woodpeckers; Barbara E. Kus, adaptive significance of flocking among wintering shorebirds; Phillip D. Long, behavior of Crested Tinamou; Patricia A. McGill, interspecific interactions between Great Black-backed and Herring gulls; Sheila A. Mahoney, thermal energetics of Great Frigatebirds; Timothy D. Manolis, interactions between Shiny Cowbirds and actual and potential hosts in Trinidad and Tobago; Mandy B. Medvin, helping and kin recognition in Barn Swallows (*Hirundo rustica*); Kenneth D. Meyer, sexual differences in the behavioral ecology of the Sharp-shinned Hawk (*Accipiter striatus*); Donald B. Miles, an eco-morphological analysis of pan-tropical avian communities on eight tropical lowland forest sites; Sarah J. Miller, role of the wing whistle in hummingbird territory defense; John David Moffatt, relationships among group size, territory size, and territory quality in the communally breeding Grey-crowned Babbler (*Pomatostomus temporalis*); Michael C. Moore, mate interactions in the neuroendocrine control of reproduction in birds under natural conditions; Michael L. Morrison, comparative foraging ecology and habitat selection of the *Dendroica virens* complex in the NW U.S.; Robert J. O'Hara, evolution of the longspurs (Passeriformes: Emberizinae); Patricia L. O'Neill, torsion and bending in Ostrich leg joints; Richard H. Podolsky, factors affecting nest site selection and colony formation in Leach's Storm-Petrel (*Oceanodroma leucorhoa*); Russell T. Ray, effects of hummingbird foraging behavior on patterns of pollen flow in *Heliconia imbricata*; Mark F. Riegner, foraging ecology of the Yellow-crowned Night Heron; John O. Riley, incubation behavior and temperature in three species of crane; Scott K. Robinson, within-species variation in the foraging behavior of the Yellow-rumped Cacique (*Cacicus cela*); Elizabeth D. Rockwell, function of intraspecific food robbing in Glaucous-winged Gulls; Kurt A. Rusterholz, experimental study of hummingbirds foraging at artificial flowers; Charles R. Schmid Jr., are Tree Swallows (*Iridoprocne bicolor*) in Montana one or two brooded?; Michael W. Shelton, variation in wing length to body weight ratios as a function of altitude among Northern

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- SIMONS, T. R. 1980. Discovery of a ground-nesting Marbled Murrelet. *Condor* 82: 1-9.
- SMITH, W. J. 1977. The behavior of communicating, an ethnological approach. Cambridge, Massachusetts, Harvard Univ. Press.
- WARHAM, J. 1964. Breeding behavior in procellariiformes. Pp. 389-394 in *Biologie Antarctique. Symp. Acad. Sci. de Paris* (R. Carrick, M. Holdgate, and J. Prevost, Eds.). Paris, Hermann.
- . 1977. Breeding of the Mottled Petrel. *Auk* 94: 1-15.
- WIENS, J. A., D. HEINEMANN, & W. HOFFMAN. 1978. Community structure, distribution and interrelationships of marine birds in the Gulf of Alaska. U.S. Dept. Commer. and U.S. Dept. Interior. Outer Continental Shelf Environ. Assess. Progr., Final Rept. 3: 1-178.
- WHEELWRIGHT, N. T., & P. D. BOERSMA. 1979. Egg chilling and the thermal environment of the Fork-tailed Storm-Petrel *Oceanodroma furcata* nest. *Physiol. Zool.* 52: 231-239.
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Orioles (*Icterus galbula*); Eyal Shy, evolution of songs in North American Tanagers (Thraupidae: *Piranga*); Barbara S. Simpson, communication with complex vocal repertoires among Carolina Wrens; Erik Skadhauge, osmoregulation of the African Ostrich; Allison Ann Snow, hummingbird pollination and its effect on seed set in *Passiflora vitifolia*; Anne Elder Sorensen, interrelationships between birds and fruit in temperate woodland; Carol Spaw, eggshell thickness of cowbird species as a possible adaptation to parasitic habits; Martin L. Stephens, parental behavior of female Northern Jacanas, *Jacana spinosa*: minimizing the cost of polygamy; Steve Sutherland, rate and energetics of hummingbird foraging on *Agave parryi*; J. C. Thibault, list and examine specimens of Whitehead's collection in AMNH; Jill M. Trainer, social organization of Caciques, *Cacicus cela*, and Orpendolas, *Zarhynchus wagleri* (Icteridae); Declan Troy, chemical analysis of Redpoll plumage variability; Carol Masters Vleck, comparative aspects of reproduction in desert "rain-breeding" birds; Wade Wander, breeding bird populations in southern New Jersey cedar swamps; Dora Weyer, library and skin collection study in preparation for checklist of Belizean birds; Nathaniel T. Wheelwright, fruit characteristics and the foraging behavior of frugivorous birds in response to seasonal changes in fruit availability; Morris D. Williams, rates of predation on nests containing different sized clutches in the arid tropics; Pamela L. Williams, breeding biology of the Northern Oriole in central coastal California: adaptive significance of coloniality in Northern Orioles; Richard N. Williams, breeding phenology of Prairie Falcons nesting at high altitudes in central Colorado; Lori Lynn Williamson, intraspecific agonistic and pair bonding displays in Pigeon Guillemots (*Cepphus columba*); David W. Winkler, parental investment and the reproductive ecology of the California Gull; Scott Richard Winterstein, ecology and sociobiology of the Black-throated Magpie Jay; Mark E. Wourms, avian-Lepidopteran interactions: 1) attack strategies and predation efficiency of Blue Jays, and 2) effect of butterfly wing markings on predator point of contact, and prey discrimination during attacks; Richard H. Yahner, population regulation in Black-capped Chickadees (*Parus atricapillus*): importance of cavities in farmstead shelterbelts.