



**Wildlife, Fish & Conservation Biology**  
*University of California, Davis*



**Faculty: DANIEL WILLIAM ANDERSON**

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Professor of Wildlife Biology

Dr. Anderson is a former Director of the Ecotoxicology Program at UC Davis and former Chair of his department. He currently teaches an undergraduate course in Wildlife Ecotoxicology and a graduate seminar in Ecotoxicology, as well as having served as Chairperson of the Ecotoxicology "area of emphasis" in the Ecology Graduate Group. His research interests focus on avian biology, emphasizing baseline ecology to interpret effects of perturbations, and the distribution and effects of various environmental contaminants on birds. Dr. Anderson's current research involves studies of contamination effects, distribution, and dynamics of organic and inorganic materials in birds from California and Baja California coastal and wetland environments, including the Klamath Basin, Clear Lake, San Joaquin Valley, and Rio Colorado Delta/Gulf of California region. Anderson is also actively involved in the conservation and management of avian populations and their habitats.

Research interests: avian ecology, especially marine birds; raptors; waterfowl; endangered species; pollution ecology; management of endangered and non-game species.

1. Resource Inventories and Management Recommendations for Marine Birds and Mammals Utilizing State Parks on the California Coast.
2. Marine Bird Ecology and Management in the California Current Region.
3. Pollution Hazards from Agricultural and Related Practices and the Use of Wildlife as Indicators.
4. Damage Assessment Evaluation (Through Behavior and Ecology Studies) of Selected Seabird Species Affected by Oil-fouling.
5. Studies of the Swainson's Hawk: Relationships of Distribution, Behavior and Reproduction to Land-use and Flood-control Projects.
6. Effects of Organo-mercury and Organo-chlorine Contaminants on Western Grebes and Osprey in the Clear Lake Ecosystem.
7. Long-term Studies of Seabirds in the Gulf of California, Mexico.
8. Long-term Status of White Pelicans Utilizing Water-development Projects in California and the Effects of Drought.

## EDUCATION:

1957-61 North Dakota State University B.S.-Zoology  
 1965-67 University of Wisconsin, Madison M.S.-Wildlife Ecology  
 1967-70 University of Wisconsin, Madison Ph.D.-Wildlife Ecology and Zoology

M.S. Thesis: "An exploration of pesticides in cormorant and pelican populations."

Ph.D. Thesis: "Chlorinated hydrocarbons: their dynamics and eggshell effects in herring gulls and other species."

## AWARDS/HONORS

1960 Phi Kappa Phi National Honorary Fraternity  
 1961 Distinguished Military Student and Graduate  
 1964 American Ornithologists' Union student fellowship  
 1966 Sigma Xi National Honorary Fraternity  
 1976 American Men of Science  
 1977 Outstanding Contribution to Wildlife Award, The Wildlife Society (Western Section)  
 1977 American Ornithologists' Union Elective Membership  
 1978 Chairperson, Pacific Seabird Group  
 1980 Outstanding Publication Award, Denver Wildlife Research Center  
 1985 Board of Directors, Cooper Ornithological Society  
 1985 Chairperson, Pacific Seabird Group  
 1989 UCD Ecotoxicology Lead Campus Award, Participant and Co-PI  
 1989 Fellow, American Ornithologists' Union  
 1991 New World Coordinator, ICBP Pelican Working Group

## EXPERIENCE

1959-62 Natural History Museum Curator, Research and Teaching Assistant, NDSU, North Dakota  
 1962-64 Guided Missile Unit Commander, Assistant Range Officer, Post Historian, Fort Bliss, Texas  
 1964-70 Research and Project Assistant, University of Wisconsin, Madison  
 1970-76 Research Biologist (GS-13), Denver Wildlife Research Center, USFWS, Colorado  
 1976-Pr Assistant Professor, Associate Professor and Professor, Department of Wildlife and Fisheries Biology, and Wildlife Biologist in the Agricultural Experiment Station, University of California, Davis  
 1987-92 Chair, Department of Wildlife and Fisheries Biology, UCD  
 1992-95 Director, Ecotoxicology Program, University of California, Davis

## SELECTED PUBLICATIONS

1968 Hickey, J. J. and \_\_\_\_\_. Chlorinated hydrocarbons and eggshell changes in raptorial and fish-eating birds. *Science* 162:271- 273.  
 1972 \_\_\_\_\_ and J. J. Hickey. Eggshell changes in certain North American birds. *International*

Ornithological Congress Proceedings 15:514-540.

1975 \_\_\_\_\_, R. W. Risebrough, J. R. Jehl, Jr., L. A. Woods, Jr., L. R. DeWeese and W. G. Edgecomb. Brown pelicans: Improved reproduction off the Southern California coast. *Science* 190:806-808.

1976 \_\_\_\_\_ and J. J. Hickey. Dynamics of storage of organochlorine pollutants in herring gulls. *Environmental Pollution* 10:183-200.

1980 \_\_\_\_\_ and J. O. Keith. The human influence on seabird nesting success: Conservation implications. *Biological Conservation* 18:65- 80.

1981 Risebrough, R. W., \_\_\_\_\_, J. J. Hickey and J. E. McGahan. Organochlorine contamination of the Peruvian coastal ecosystem: Baseline levels in 1969. *Proceedings of the International Ornithological Congress* 17:929-934.

1982 \_\_\_\_\_, F. Gress and K. F. Mais. Brown pelicans: Influence of food supply on reproduction. *Oikos* 39:23-31.

1982 Gress, F. and \_\_\_\_\_. California brown pelican recovery plan. U.S. Fish and Wildlife Service, Portland, Oregon.

1983 Rudolph, S. G., \_\_\_\_\_ and R. W. Risebrough. Kestrel predatory behavior under chronic low-level exposure to DDE. *Environmental Pollution* 32:121-136.

1983 \_\_\_\_\_. The sea birds. Pp. 246-264 and 474-481 in *Island Biogeography in the Sea of Cortez*. T. J. Case and M. L. Cody, Editors. University of California Press, Berkeley.

1984 \_\_\_\_\_, D. G. Raveling, R. W. Risebrough and A. M. Springer. Dynamics of low-level organochlorines in adult cackling geese over the annual cycle. *The Journal of Wildlife Management* 48:1112-1127.

1995 Mora, M. A. and \_\_\_\_\_. Selenium, boron, and heavy metals in birds from the Mexicali Valley, Baja California, Mexico. *Bulletin of Environmental Contamination and Toxicology* 54:198-206.

1996 \_\_\_\_\_, F. Gress, and D. M. Fry. Survival and Dispersal of Oiled Brown Pelicans after Rehabilitation and Release. *Marine Pollution Bulletin* 32:711-718.

1997 Cahill, T. M., B. P. Perley, and \_\_\_\_\_. X-Ray analyses of elemental concentrations in feathers: Comparison of XRF and PIXE. *International Journal of PIXE* 7:53-69.

1998 Elbert, R. A., and \_\_\_\_\_. Mercury levels, reproduction, and hematology in western grebes from three California lakes, USA. *Environmental Toxicology and Chemistry* 17:210-213.

1998 Cahill, T. M., \_\_\_\_\_, R. A. Elbert, B. P. Perley, and D. R. Johnson. Elemental profiles in feather samples from a mercury-contaminated lake in central California. *Archives of Environmental Contamination and Toxicology* 35:75-81.

2000 \_\_\_\_\_, S. H. Newman, P. R. Kelly, S. K. Herzog, and K. P. Lewis. An experimental soft-release of oil-spill rehabilitated American coots (*Fulica americana*): I. lingering effects on survival, condition and behavior. *Environmental Pollution* 107:285-294.

Email Douglas Kelt at [dakelt@ucdavis.edu](mailto:dakelt@ucdavis.edu) with questions or suggestions regarding this web site.

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