

Independent Scientific Advisory Board: Member Resume

Lyman L. McDonald

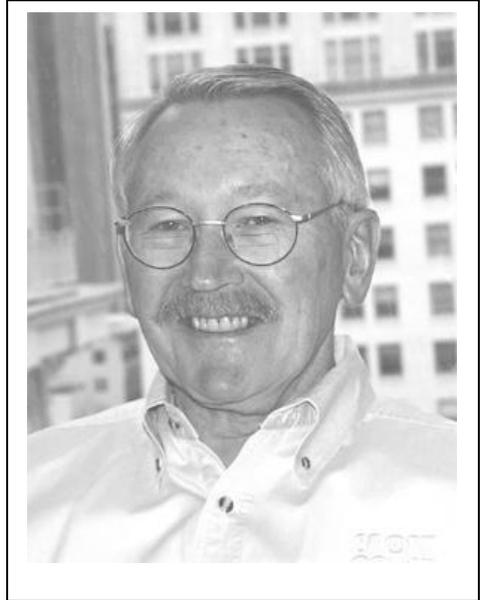
Appointed to Board: 1996

Expertise

Statistics, Monitoring and Evaluation, Habitat and Food Selection Models, Environmental Impact Assessment

Employment

Present Employment: Senior Biometrician
Western EcoSystems Technology
Cheyenne, Wyoming



Employment highlights:

Associate Professor and Professor of Statistics and Zoology, University of Wyoming, 1973 to 1990.

Head of the Department of Statistics, University of Wyoming, 1980 to 1985.

Education

Doctor of Philosophy, Statistics. Colorado State University, Ft. Collins, CO 1970
Master of Science, Mathematics. Oklahoma State University, Stillwater, OK 1964
Bachelor of Science, Mathematics. Oklahoma State University, Stillwater, OK 1963

Honors and Awards

- 1998 Fellow of the American Statistical Association for the development and application of statistical methods in fish and wildlife biology and ecology.
 - 1999 Twentieth Century Distinguished Service Award, Ninth Lukacs Symposium, for outstanding contribution to the development and direction of cross-disciplinary combination of practicality and scholarship for statistics, ecology, environment, and society in the form of Environmental Statistics.
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- McDonald, L.L., D.L. Fischer and P.A. Toll. 1998. Analysis of radiotelemetry survival data in an avian field study. In L. Brewer and K. Fagerstone, Eds. *Radiotelemetry Applications for Wildlife Toxicology Field Studies*. Society of Environmental Toxicology and Chemistry, Pensacola, FL.
- McDonald, L.L., W.P. Erickson, and M.D. Strickland. 1995. Survey design, statistical analysis, and basis for statistical inferences in Coastal Habitat Injury Assessment: Exxon Valdez Oil Spill. In P. G. Wells, J. N. Butler, and J. S. Hughes, Eds., *Exxon Valdez Oil Spill: Fate and Effects in Alaskan Waters*, ASTM STP 1219. American Society for Testing and Materials, Philadelphia.
- McDonald, L.L., and W.P. Erickson. 1994. Testing for bioequivalence in field studies: Has a disturbed site been adequately reclaimed? In D.J. Fletcher and B.F.J. Manly, eds. *Statistics in Ecology and Environmental Monitoring*. Otago Conference Series No. 2, University of Otago Press, Dunedin, New Zealand.
- Boyce, M.S., and L.L. McDonald. 1999. Relating populations to habitats using resource selection functions. *Trends in Ecology and Evolution*. 14: 268-272.
- Manly, B.F.J., L.L. McDonald, and T.L. McDonald. 1999. The robustness of mark-recapture methods: A case study for the northern spotted owl. *Journal of Agricultural, Biological, and Environmental Statistics* 4: 78-101.
- Manly, B.F.J., L.L. McDonald, and D.L. Thomas. 1993. *Resource selection by animals: Statistical design and analysis for field studies*. Chapman and Hall, London.