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Herbert H. Frost
Brigham Young University

Wilmer W. Tanner
Brigham Young University

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C[HARLES] LYNN HAYWARD

Herbert H. Frost¹ and Wilmer W. Tanner¹

Dr. C. Lynn Hayward, professor emeritus of zoology and entomology, Brigham Young University, Provo, Utah, died 30 August 1998. He was born 10 July 1903 in Paris, Idaho, where he spent his early years, graduating from Fielding High School in 1923. Later that same year Lynn entered Brigham Young University, receiving a B.S. degree in 1927. Following his university experience he returned to his hometown in Idaho and taught biology and English at the high school for 3 years. In May 1930 he returned to BYU on an assistantship in the Zoology and Entomology Department. On 6 August 1930 he married Elizabeth (Libbie) Cook. To them were born 2 children, Margaret and Gerald.

In 1931 he completed his master's degree in entomology at BYU and became a zoology instructor there. Lynn Hayward entered BYU as the Department of Zoology was being established, and though it was first designated as the Zoology and Entomology Department, his role was to establish and teach basic zoological classes pertaining to vertebrates. From 1931 to 1942 he taught in the department and, during the beginning years, began research in preparation for a doctoral degree. In 1935 he did graduate work at the University of California at Berkeley and in 1941 completed his dissertation in ecology at the University of Illinois under Professor Victor Shelford, one of the pioneer ecologists. His Ph.D. graduate studies emphasized systematics and ecology of birds and mammals.

During his early teaching years at Fielding High School, Lynn made a collection of 94 bird skins and several sets of eggs. These eventually became the nucleus of BYU's ornithological collection, which now numbers 9551 bird skin specimens and 9000 sets of eggs. Because of his collecting background, Lynn assumed the position of curator of the bird



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and mammal collections at BYU. In the early 1930s, with the Depression in full force, equipment funds were limited. Having been raised in a rural community, he knew how to work with his hands and so obtained plans for the construction of bird and mammal cases and built several for the growing collections. Today the mammal collection contains 15,621 skins and whole mount specimens.

Lynn had a good grasp of the English language. Thus, his lectures and research writings were clear and meaningful. He engaged his students in biological field studies that required careful observations and ecological evaluations of the environment. Many of his field classes involved preparing bird and mammal skins; as the students became proficient in mounting, their best specimens became part of the university's collections.

¹Monte L. Bean Life Science Museum, Brigham Young University, Provo, UT 84602.

He was always willing to work with his students and his door was open for them to come to him for advice. He chaired 18 students' graduate committees and was a member for many more. His graduate students were well trained and have become recognized in their fields. His research is best seen in two publications, "Biotic communities of the Wasatch chaparral" and "Alpine biotic communities of the Uinta Mountains, Utah." His "Bibliography of the mammals of Utah" and "Birds of Utah" have been used and will continue to be used as resource materials by many who are conducting research in vertebrate zoology of western North America.

In addition to his teaching and research, Lynn had, over the years, a number of administrative responsibilities at BYU. For 7 years he served on the admission and credits committee, a year on the curriculum committee, and many years as chair of the premedical and pre dental committee. He chaired the Zoology Department from 1958 to 1962 and was, for 5 years, curator of the Life Science Museum, which was the forerunner of the Monte L. Bean Museum. On 30 August 1974 he was presented the BYU Alumni Distinguished Service Award for teaching and research. During his professional years he wrote and collaborated on 147 articles. The following 42 papers, covering a 53-year period, are considered to be his most important contributions.

1. 1930 Notes on Utah Vespidae. *Entomological News* 41:204-205, 222-226.
2. 1931 A preliminary list of the birds of the sub-alpine and alpine zones of the Uinta Mountains. *Utah Academy of Science* 8:151-152.
3. 1932 The paper wasps of Utah including a description of a new variety of *Polistes canadensis* Linn. *Utah Academy of Science* 9:85-101.
4. 1933 Notes on the taxonomy and description of the wasp genus *Polistes* in the Intermountain West, with description of two new varieties. *Utah Academy of Science* 10:139-147.
5. 1933 Distribution of *Polistes* in Canada, with notes on the genus (Hymenop.). *Canadian Entomologist* 65:126-128.
6. 1934 Important heron rookeries in southeastern Idaho. *Auk* 51:39-41.
7. 1934 A biological study of the La Sal Mountains. *Utah Academy of Science* 11:209, 235 (with V.M. Tanner).
8. 1935 The breeding status and migration of the Caspian Tern in Utah. *Condor* 37:140-144.
9. 1935 Observations on some breeding birds of Mount Timpanogos, Utah. *Wilson Bulletin* 47:161-162.
10. 1935 A study of the winter bird life in Bear Lake and Utah Lake valleys. *Wilson Bulletin* 67:278-284.
11. 1936 Some observations on shore birds at Utah Lake during the summer of 1936. *Utah Academy of Science* 13:191-193.
12. 1936 A bibliography of Utah mammalogy including references to names and type localities applied to Utah mammals. *Utah Academy of Science* 13:121-146.
13. 1937 A record of *Vespa crabro* Linnaeus from North Dakota. *Entomological News* 48:120.
14. 1937 Some new and unusual bird records from Utah. *Wilson Bulletin* 69:303-305.
15. 1940 Notes on the distribution of nighthawks in Utah. *Great Basin Naturalist* 1:93-96.
16. 1940 Feeding habits of the red squirrel. *Journal of Mammalogy* 21:220.
17. 1941 Notes on the nesting habits of some mountain dwelling birds in Utah. *Great Basin Naturalist* 2:1-8.
18. 1941 Three new mammals (*Microtus* and *Ochotona*) from Utah. *Great Basin Naturalist* 2:105-108 (with E.R. Hall).
19. 1941 A bibliography of Utah mammalogy: including references to names and type localities (first supplement). *Great Basin Naturalist* 2:125-136.
20. 1942 Biotic communities of Mt. Timpanogos and western Uinta Mountains, Utah. An abstract of a thesis. 11 pp.
21. 1943 Notes on the status of the Red Crossbill in Utah. *Auk* 60:276-277.
22. 1944 Additional records of uncommon birds in Utah. *Condor* 46:205.
23. 1945 Biotic communities of the southern Wasatch and Uinta Mountains, Utah. *Great Basin Naturalist* 6:1-124.
24. 1945 Occurrence of *Perognathus faciatus* in Utah. *Journal of Mammalogy* 37:451.
25. 1948 Biotic communities of the Wasatch chaparral, Utah. *Ecological Monographs*. 336 pp.
26. 1949 The short-tailed weasel in Utah and Colorado. *Journal of Mammalogy* 30:336.
27. 1949 Nesting behavior of Nuttall's Poor-will. *Wilson Bulletin* 61:188.
28. 1951 Nature sanctuaries in the United States and Canada. *Living Wilderness* 36:46 (with several other authors).
29. 1952 Alpine biotic communities of the Uinta Mountains, Utah. *Ecological Monographs* 22:93-120.
30. 1956 Pelage color changes in *Perognathus longimembris*. *Journal of Mammalogy* 37:451-452.
31. 1958 Additional notes on the Purple Martin in Utah. *Condor* 60:406.

32. 1958 Distribution and variation of the Utah population of the Great Basin pocket mouse. *Great Basin Naturalist* 18:26-30 (with Merlin L. Killpack).
33. 1958 New and unusual records of birds from the Uinta Basin, Utah. *Great Basin Naturalist* 18:23-25 (with Merlin L. Killpack).
34. 1958 Zoology of the Upper Colorado River Basin. I. The biotic communities. *BYU Science Bulletin, Biological Series* 1(3):74 (with D. Elden Beck and Wilmer W. Tanner).
35. 1963 Birds of the Nevada Test Site. *BYU Science Bulletin, Biological Series* 3(1):1-27 (with Merlin L. Killpack and Gerald L. Richards).
36. 1965 Mammals of the Nevada Test Site. *BYU Science Bulletin, Biological Series* 6(3):1-81 (with Clive Jorgensen).
37. 1966 New and unusual bird records from Utah. *Condor* 68:305-306.
38. 1967 Birds of the Upper Colorado River Basin. *BYU Science Bulletin, Biological Series* 9(2):1-64.
39. 1968 Natural history of the desert woodrat, *Neotoma lepida*. *American Midland Naturalist* 80:458-476 (with Robert C. Stones).
40. 1970 Vasco M. Tanner. *Great Basin Naturalist* 30:181-189.
41. 1976 Birds of Utah. *Great Basin Naturalist Memoirs* 1. Brigham Young University, Provo, UT. 229 pp. (with Clarence Cottam, A.M. Woodbury, and Herbert Frost).
42. 1983 The high Uintas. Monte L. Bean Life Science Museum, Brigham Young University, Provo, UT. 101 pp.