HARLOW BURGESS MILLS
1906 - 1971

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FIGURE 1. H. B. Mills, March, 1963.

Harlow Burgess Mills (Figure 1), re-ired Chief of the Illinois Natural History Survey, retired visiting professor of ento-nology at the University of Wisconsin, Racine, and a long time member of the llinois State Academy of Science, died n Breckenridge Hospital, Austin, Texas, n April 5, 1971, at the age of 64 years, months, and 16 days. Dr. Mills had uffered a stroke five days before his death.

Harlow B. Mills was born August 20, 906, in Le Grand, Marshall County, Iowa, on of E. M. and Anna Burgess Mills. His oyhood was spent in this small, central owa community. After graduation from igh school, he entered Iowa State Col-ege of Agriculture and Mechanic Arts now Iowa State University) and received is B.S. degree in 1929 and his M.S. de-gree from the same institution in 1930. During the year 1929-1930, he was also n assistant in the Iowa Experiment Sta-ion.

On August 27, 1930, Harlow B. Mills and Esther Winifred Brewer of Central City, Iowa, were married. They moved to Texas where he served as assistant professor of entomology at Texas Agricultural and Mechanical College (now Texas A. & M. University) for the year 1930-1931. He was also associated with the Texas Experiment Station. The couple returned to Iowa in 1931 and Harlow continued his studies at Iowa State. In 1932 he was field assistant in the experiment station. He completed his Ph.D. degree in 1934. His doctoral dissertation was "A monograph of the Collembola of Iowa."

Dr. Mills spent the next 13 years in the west. From 1934-1935 he was Ranger Naturalist and Wildlife Technician at Yellowstone National Park. In 1935, he became Assistant State Entomologist for Montana and, in 1937, he joined the faculty of Montana State College (now Montana State University), Bozeman, as professor of zoology and entomology and head of the department. The same year he received a grant from the Bache Fund for a study of Collembola. During his professorship at Montana State he published numerous articles on economic entomology.

On March 1, 1947, Dr. Mills took over the duties of Chief of the Illinois Natural History Survey. His broad biological background plus his ability to get people to cooperate were instrumental in the development of the Survey during his administration. He retired from the Survey on September 30, 1966.

After retiring from the Survey, Dr. Mills became visiting professor of entomology at the University of Wisconsin, Racine, and also served as acting dean for a time. He retired from university duties in 1970, and moved to San Marcos, Texas.

Dr. Mills was active in the Illinois State Academy of Science. He had been in Illinois but two months when he spoke at the Peoria meeting, May 2, 1947, in the general session on "The Newer Concept of Predation." He was a member of the Conservation Committee from 1947-1963, its chairman from 1947-1949. He was also a member of the Public Relations Committee from 1948-1957, the Research Development Committee, 1948-1949, and the Nominating Committee,

1961-1962. He became First Vice-President for 1957-1958 and President, 1958-1959. He was a member of the Council for the year 1959-1960.

Other professional societies in which Dr. Mills was active included the American Association for the Advancement of Science, the American Fisheries Society, the American Ornithologists Union, the Ecological Society of America, the Entomological Society of America, and the Wildlife Society (editor of its journal, 1947-1949). He served as President of the Montana Academy of Science in 1943. He was a member of honor and professional fraternities: Gamma Sigma Alpha, Phi Mu Alpha, Phi Sigma, and Sigma Xi. His civic activities included membership on the Council of the University Y.M.C.A. and he was for many years active in Rotary.

In 1950, Dr. Mills was a Gugenheim Fellow and spent six weeks in Jamaica, Haiti and eastern Cuba in the study of the Collembola. In 1958, he was a consultant for both the U.S. Department of Agriculture and the Department of Interior on the fire ant control programs in the southern states. His duties were to find the strong and weak points of the program and to effect a reconciliation between divergent viewpoints. From August 1962 to August 1963, he was Chief Scientist in the Latin American Office of the National Science Foundation, Rio de Janerio, Brazil. In this position he represented American science to the Latin American scientist, and *vice versa*, and sought to obtain the best possible rapport between these two groups. From January 14, 1964 to September 30, 1966, he was an advisor to the Illinois Nature Preserves Commission.

Dr. Mills had a broad knowledge of plants and animals. It was a pleasure to be in the field with him and he enjoyed being in the field with Survey staff members. He had a great interest in birds and, as a result of that interest, one never traveled with Harlow Mills without listing the birds observed during the trip. He knew the birds of the midwest by sight and many by their song. A visit in the woods with him was a rewarding experience. His biological knowledge and his love for children resulted in approximately 25 articles on scientific matters, published in children's magazines. He enjoyed poetry and was, himself, a poet by avocation. His love of birds was reflected in his poems: The Nighthawk, The Wood Thrush, The Horned Lark.

Usually Dr. Mills was a happy man but tragedies strike all families. Tragedy struck Dr. Mills in June 1969, when his beloved and devoted wife passed away. That year he published a booklet of poems, "Eleven Personal Poems of Harlow B. Mills,", dedicated to the memory of Esther Brewer Mills. The love and devotion of this couple are reflected in these poems. Following his wife's death, Harlow went back to Wisconsin and then to Texas where his life came to a close.

Dr. Mills is survived by three children: Dr. David Mills of Silver Spring, Maryland, Gary Mills of Edina, Minnesota, Mrs. Timothy (Judith Anne) Lewis of Champaign, Illinois, and 5 grandchildren. He is also survived by three brothers—Max of Marshalltown, Iowa, Ralph of Marion, Iowa, and Glenn of King Hill, Idaho—and three sisters—Mrs. Helen Grimes of Marshalltown, Iowa, Mrs. Ursula Johnson of LeGrand, Iowa, and Mrs. Marjorie Vendervelde of Emmetsburg, Iowa.

The world has lost a gentle man and a gentleman.

Technical Publications of Harlow Burgess Mills

1930

A preliminary survey of the Collembola of Iowa. Can. Entomol. 62(9):200-203.

Biological notes on aphids affecting apples with special reference to vitality of eggs (Aphididae, Homoptera) (with D. L. Moody). J. Econ. Entomol. 23 (5):822-825.

1931

New nearctic Collembola. Am. Museum Novitates 464. 11 p.

Notes on the oviposition of Metapterus annulipes (Stal). (Hemiptera, Reduviidae.) Bull. Brooklyn Entomol. Soc. 26(2):84.

Springtails as economic insects. Proc. Iowa Acad. Sci. 37:389-392.

1932

Catalogue of the Protura. Bull. Brooklyn Entomol. Soc. 27(2):125-130.

New and rare North American Collembola. Iowa State Coll. J. Sci. 6(3):263-276.

The life history and thoracic development of Oligotoma texana (Mel.) (Embiidina). Ann. Entomol. Soc. Am. 25 (3):648-652.

1933

Collembola from the State of Washington (with A. R. Rolfs). Pan-Pacific Entomol. 9(2):77-83.

1934

A monograph of the Collembola of Iowa. Iowa State Coll. Div. Industr. Sci.

Monogr. No. 3, Collegiate Press, Inc., Ames, Iowa. 143 p.
Cotton flea hopper: varietal resistance (with F. L. Thomas and S. E. Jones). Texas Agr. Exp. Sta. Forty-sixth Ann. Rept., 1933, p. 43.
Cotton bollworm: biological studies (with F. L. Thomas). Ibid. p. 47.

1935

New Collembola from western North America. Bull. Brooklyn Entomol. Soc. 30(4):133-141.

1936

The Virginia creeper leafhopper (with J. H. Pepper). Mont. Agr. Sta. Bull. 314, 4 p.
Observations on Yellowstone elk. J. Mammal. 17(3):250-253.
Heat radiation of domestic animals during severe cold weather. Ibid. 17(3): 282-283.

1937

A North American Oncopodura (Collembola). Can. Entomol. 69(3):67-69.
A preliminary study of the bighorn of Yellowstone National Park. J. Mammal. 18(2):205-212.
Observations on Grylloblatta campodeiformis Walker (with J. H. Pepper). Ann. Entomol. Soc. Am. 30(2):269-275.
Bugs, birds and blizzards in the Yellowstone. Iowa State Coll. Press, Ames, Iowa. 76 p.
Some Montana birds Their relationship to insects and rodents. Mont. Agr. Exp. Sta. Circ. 151, 48 p.

1938

Control of Mormon crickets in Montana (with O. B. Hitchcock). Mont. State Coll. Ext. Serv. Bull. 160, 19 p.
Cyanide for household pests. Mont. State Coll. Ext. Serv. Circ. 90, 7 p.
Key to the grasshoppers of Montana. Mont. Agr. Exp. Sta. Mimeo. Circ. 9.
Collembola from Yucatan caves. Carnegie Inst. Wash. Pub. 491:183-190.
Contributions to the knowledge of the genus Sminthurides Borner (with J. W. Folsom). Bull. Museum Comp. Zool. 82(4):229-274.
The use of tillage methods in grasshopper control (with Ralph D. Mercer). Mont. State Coll. Ext. Serv. Circ. 99, 4 p.

1939

Montana insect pests for 1937 and 1938. Twenty-seventh report of the State Entomologist of Montana. Mont. Agr. Exp. Sta. Bull. 366, 32 p.
Remarks on the geographical distribution of North American Collembola. Bull. Brooklyn Entomol. Soc. 34(3):158-161.
Insects in relation to soil conservation. A supplement in M. P. Hansmeier, Soil drifting on cropland in the plains area of Montana. Mont. State Coll. Ext. Serv. Bull. 176:42-46.

1940

The effects on humans of the ingestion of the confused flour beetle (with J. H. Pepper). J. Econ. Entomol. 32(6):874-875.
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1941

Montana insect pests, 1939 and 1940. Twenty-eighth report of the State Entomologist. Mont. Agr. Exp. Sta. Bull. 384, 28 p.
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Two human diseases which may be contracted from Montana rodents. Mont. State Board Entomol. Misc. Pub. 1, 8 p.
The effect of tillage on grasshopper eggs. J. Econ. Entomol. 34(4):589.
Another infestation of a school building by *Oeciacus vicarius* Horvath (with D. J. Pletsch). Ibid. 34(4):575.
The genus Oncopodura (Collembola). Mont. Acad. Sci. Proc. 2:61-63.
Recently introduced livestock parasites (Abstract). Ibid. 2:63.

1942

Montana insect pests, 1941 and 1942. Twenty-ninth report of the State Entomologist. Mont. Agr. Exp. Sta. Bull. 408, 36 p.
Investigations in economic zoology and entomology by the Montana station. Mont. Agr. Exp. Sta. Bien. Rept. 1941-42, 37 p.

1943

Siphonaptera - Species and host list of Montana fleas (with Wm. L. Jellison and Glen M. Kohls). Mont. State Board Entomol. Misc. Pub. 2, 22 p.
Starlings nesting in Montana. Condor 45 (5):197.
An outbreak of the snipe fly *Symphoromyia hirta*. J. Econ. Entomol. 36(5):806.

1944

The wheat stem sawfly in Montana. Mont. Agr. Exp. Sta. War Circ. 6, 7 p.
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1945

Montana insect pests, 1943 and 1944. Thirtieth report of the State Entomologist (with J. A. Callenbach and J. F. Reinhardt). Mont. Agr. Exp. Sta. Bull. 425, 30 p.

Some Montana birds: their relationship to insects and rodents. Mont. State Coll. Ext. Bull. 229, 48 p.

1946

Cattle grubs in Montana (with Hadleigh Marsh and Fred S. Wilson). Mont. Agr. Exp. Sta. Bull. 437, 16 p.

1947

Montana insect pests, 1945 and 1946. Thirty-first report of the State Entomologist (with O. B. Hitchcock and Ralph Schmiedeskamp). Mont. Agr. Exp. Sta. Bull. 442, 22 p.

1948

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Shot alloys and poisoning in waterfowl. Sports Afield 123(6):122-123.

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Hunting and fishing in 2000 A.D. Outdoor America 16(5):4-6.

The arborist's job. Arborist's News 16 (10):93-101.

Duck hunting in 2000 A.D. Wildlife in North Carolina 15(12):9, 20.

For legislators—kill doves or not. Outdoors in Illinois 17(1):3.

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1953

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The unity of animal populations. Trans. Ill. State Acad. Sci. 46:197-202.

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1955

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1961

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1966

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Errata:

In the article, "The First Record in Illinois of a population of *Stethaulax marmoratus* (Say) (Hemiptera: Scutelleridae) with information on Life History." 64:198-200, the photograph for Fig. 1 is reversed in terms of caption, i.e. read left for right.