

Botany" in two volumes, afterwards expanded to three. Cowles contributed the volume dealing with ecology covering the branch of the subject known as autecology. In it, the theory of mechanical causation was stressed rather than teleology and adaptation which had previously been somewhat widely accepted.

No teacher brought his students more directly to nature than Cowles. Field trips, varying in length from one day to many weeks, inspired others to use the out-of-doors classroom. This led to his useful activities in all lines of conservation. No one was more influential than he in establishing the State Park system of Illinois and the Forest Preserves of Cook County, Ill. For many years he was president of the Chicago Academy of Sciences and a charter member and an active supporter of the Illinois State Academy of Science. He was also a patron and trustee of the Geographic Society of Chicago and president of the society for a term of years.

A member of many other scientific societies he served as president of the Association of American Geographers in 1910, as president of the Botanical Society of America in 1922 and vice-president of Section G of the American Association for the Advancement of Science in 1913.

In 1935 the July issue of *Ecology*, the official journal of the Ecological Society, was dedicated to Cowles by his students and friends. It was filled with articles from students and colleagues from America and from several European countries. From an appreciation of their friend and teacher, written for that issue of *Ecology* by W. S. Cooper, we quote the following paragraph:

"A man may be a great scientist and a great teacher and yet inspire in his colleagues and students little affection or none at all. With Cowles it was far otherwise. Something more than mere respect for high scientific attainment is necessary to account for the fact that, when the plan of this special number of *Ecology* was made public, more than three hundred persons responded. With almost every contribution came a letter expressing admiration for Cowles as a scientist, as a teacher, and above all, as a man. These facts speak for themselves; formal tribute is superfluous. And yet, merely because it is a joy to do so, we make mention of a few of his many lovable traits—his unflinching good humor, his far-famed ability in telling a story, his readiness to give ungrudgingly of time and effort in the service of students and friends, his eagerness to discover and commend whatever was

meritorious in the work of a fellow scientist or admirable in the man himself.

"He relinquished his active labors secure in the consciousness of work well done, confident of achievement beyond the ordinary lot. He laid the foundation for a new and useful branch of science, he constructively influenced the thought of hundreds of investigators and teachers, and in his professional and personal contacts he made for himself a multitude of devoted friends."

GEORGE D. FULLER

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RECENT DEATHS AND MEMORIALS

JOHN ALLEN FULTON, director of the Mackay School of Mines of the University of Nevada, who at one time was Republican nominee for Governor of Nevada, died on October 9 at the age of sixty-one years.

DR. H. O. KNIGHT, professor and head of the department of anatomy at the University of Texas, died on October 5 at the age of fifty-eight years.

DR. ROBERT ALEXANDER CRAIG, since 1904 professor of veterinary science at Purdue University, died as the result of a motorcycle accident on October 12. He was sixty-seven years old.

JOHN STUART CAMPBELL, assistant professor of optics at the University of Rochester, died by suicide on September 26. He was thirty-five years old.

FREDERIC THEODORE BIOLETTI, professor of viticulture at the University of California, died on September 12. A correspondent writes: "He was one of a group of young men who in the 1890s at Berkeley developed under the influence of Professor Edward L. Greene a permanent interest in botany. He made many critical plant collections which have been cited in Engler's 'Pflanzenreich' and other works. His vocation was viticulture. In this subject he was for nearly fifty years instructor and professor in the College of Agriculture of the University of California, save for an interruption of two years' teaching in South Africa. He published many papers in his field."

A PICTURE of Dr. Warren P. Lombard, a member of the faculty of the Medical School of the University of Michigan from 1892 to 1923, was recently presented to the Medical School library in honor of his memory by a close friend, Colonel Ambrose Pack. Dr. Lombard was eighty-four years old at the time of his death last July. An obituary appreciation by Dr. Robert Gesell appears in the issue of *SCIENCE* for October 13.

SCIENTIFIC EVENTS

BIRD PROTECTION IN THE BRITISH EMPIRE

REPORTS on the present state of legislation for the protection of birds and its effectiveness in more than

twenty different countries are printed in the fifth bulletin of the International Committee for Bird Preservation. The *London Times* gives an account of several relating to countries in the British Empire.