NATIONAL ACADEMY OF SCIENCES

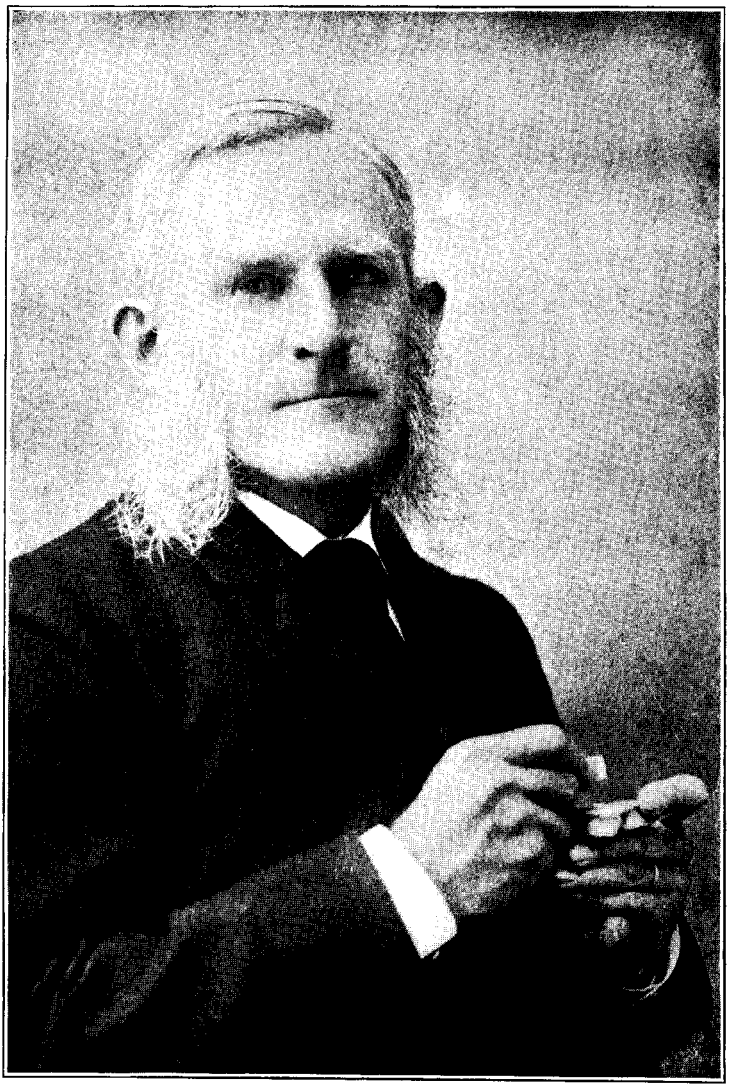
SAMUEL HUBBARD SCUDDER

1837—1911

A Biographical Memoir by

ALFRED GOLDSBOROUGH MAYOR

Biographical Memoir



Yours very sincerely

David D. Judd

SAMUEL HUBBARD SCUDDER.

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By ALFRED GOLDSBOROUGH MAYOR.

On both sides of his house Samuel Hubbard Scudder was of Puritan origin, the first American ancestor on his father's side being John Scudder, who coming from London in 1635, settled in Charlestown, and from there went to Barnstable on Cape Cod. Here certain of his descendants still live, and have for generations followed the sea. Charles Scudder, the father of the subject of this biography, escaped the family calling through the accident of having come to Boston too late to join the vessel in which he was to serve as a cabin boy. He therefore remained in the city and entered upon a commercial career, becoming a well-known hardware and commission merchant. After living thus for fully 30 years he married for his third wife Sarah Lathrop Coit, daughter of a distinguished Puritan lineage, who traced her descent through the Manwarings and Saltonstalls to Gov. Winthrop of colonial fame.

Both Charles Scudder and his wife were firm supporters of the orthodox religion of their ancestry; he being a deacon in Union Church, of the Congregational faith, in Boston; and in this faith were their seven children reared, with all that strictness consistent to the salvation of their souls. It was a stern faith that of his ancestors, who had braved the storms of the North Atlantic to win a secure anchorage for their creed along the bleak shores of Massachusetts Bay, yet there was nothing of the sour æscetic in Charles Scudder, for the health-giving enjoyments of this world were as essential according to his views as were the exacting duties of religion, and a man of the world he was in the sense that he won and kept the cordial esteem of his fellow townsmen throughout a long and useful life in the business affairs of Boston.

Into this morally healthful atmosphere Samuel Hubbard Scudder was born on April 13, 1837. Among brick walls and stone pavements the great student of nature was first to see the light, but fortunately the family soon moved to "Roseland," a pleasant country home in Roxbury, 3 miles from the town of Boston. Here among the woods and fields of a 30-acre estate young Scudder spent his early years, his only known adventure being a successful attempt to jump over a cow, which resulted, however, in a broken arm on his part, but no recorded injury to the cow. He tells us, however, that wild nature made no appeal to his imagination in those days, yet somehow we suspect it registered its appeal unheeded at the time, but to be sprung into his conscious recognition later. Possibly it was the compelling force of indifference or ill-defined opposition that helped to move him to his life work, for when a child of 10 he, marveling at the beauty of a forest stick covered with brightly-colored fungi, brought it as a treasure to his father, who promptly threw it in the fire, calling it a "dirty stick." How many a career is in early life determined in response to the spur of misunderstanding? Yet for some years, bright boy though he was, nature made no conscious appeal to him, perhaps because at this time he was the admiring companion of his elder brother David, in whose footsteps as a potential naturalist he was content to walk unheedingly.

Had he not chosen the self-sacrificing career of a missionary in India, one thinks David might also have become a naturalist of distinction so replete is his journal with the mystery of the tropical jungle and interest in the forgotten races of the prehistoric past of India,[1] but he was destined to die in his youthful manhood in attempting to swim a flooded river in the mountains of southern India.

[1] See life and letters of David Coit Scudder, missionary in Southern India, by Horace E. Scudder, 1864, Hurd & Houghton, Boston.

Yet another brother in this gifted family was Horace Elisha Scudder, the well-known author, and editor for several years of the Atlantic Monthly.

Types they all were of the best that the heredity and the environment of New England produced in those epoch-making mid decades of the nineteenth century when culture came to soften the austere isolation of the Puritan, and the intolerance of old creeds gave place to an expanded sense of service toward all mankind.

At the age of 16 Samuel was sent to Williams College in order that he might come under the intellectual guidance of that great educator, Mark Hopkins. His elder brother David had preceeded him two years before, and in the following year Horace also entered the college. Thus in the congenial companionship of relatives and friends he was to spend the four pivotal years within which the trend of his life work was to be determined.

He entered apparently without plans for the future, but about six weeks after college had opened his sense of the beautiful was profoundly stirred by the sight of a glass case of butterflies upon the wall of a friend's room. He tells of his surprise to find that these beautiful things existed in such numbers in the immediate region of his home. At once he constructed a net and proceeded to collect, and although the frosts of autumn soon put a check upon his plan he had found his life interest and when a junior in college had definitely decided to devote his energies to the study of insects.

In 1857 he graduated from Williams College at the head of his class; receiving the degree of A. B., which the college very appropriately supplemented with an A. M., in 1860, and doctor of science in 1890.

One thinks that his choice of so unusual an interest for a life work was largely influenced by his ardent love of the open air and all that pertained thereto, for although not a wide traveler, Europe and Egypt marking the confines of his wanderings, yet, he knew New England thoroughly, and the rural beauty of her peaceful valleys, and the majestic boldness of her mountain peaks were the delight of all his years. His whole life was dominated by the charm of this intimate association with that New England wherein in his day so much of untrammeled nature still remained. Steeped in the charm of the Berkshire Hills he had spent his college years, and as a lover of the wild in all New England he was to live his manhood through. Thus while in college he became the leading spirit of the "Alpine Club of Williamstown" and later he was to become a founder, and the first vice president of the Appalachian Club and to succeed Prof. E. C. Pickering as its second president. It was he who suggested the name "Appalachia" for the Journal of the club, and for nine years he served as chairman of its publication committee. He himself contributed some charmingly composed articles, among them: "A climb on Mount Adams in winter"; "The Alpine Club of Williamstown, Massachusetts"; "A winter excursion to Tuckerman's Ravine"; "The White Mountains as a home for butterflies"; "The Alpine Orthoptera of North America"; "Retiring address as president of the club, 1878"; and "The showiest butterfly of Glen Ellis, Basilarchia arthemis."

Through deliberate choice when only 19 years of age he had definitely elected the field for his life work. Yet in view of his high moral and mental character, the rare charm of his personality, his remarkable mental balance, his energy, and mastery of detail in executive work he might have won success in almost any field of human endeavor wherein judgment, reliability, and erudition were required.

Within all scientific organizations with which he was connected he held high place in executive or business councils, and so remarkable was his organizing ability that every one of the twelve serial numbers composing his great work upon the butterflies of New England appeared promptly on the day announced for its publication.

Having graduated from Williams College it was but natural that he should enter the Lawrence Scientific School of Harvard University in order that he might become a pupil of the incomparable Louis Agassiz. So to Agassiz he went with the statement that he intended to devote his entire life to the study of insects. The great master shook his head, and drawing a very dead and discolored fish out of a bottle of alcohol he deposited it in the hands of young

Scudder telling him to observe and report. For 10 minutes he studied this unattractive object, and then endeavored to report, but fortunately the professor was away. For three whole days he gazed at that single fish before he could satisfy the professor upon the important point that it possessed "symmetrical sides with paired organs." Then followed eight months entirely devoted to the study of somewhat similar fishes, all Hæmulons, until the pupil saw Hæmulons in his dreams, and grew to associate the odor of preserving fluids with pleasant memories. One thing seemed thereafter to have been burned into his very nature; devotion to all but infinite detail. Indeed throughout his scientific career one wonders not so much at the great bulk of his writings, as at the vast mass of minute and accurate details of observation therein presented.

He was keen to appreciate the dependence of theory upon fact, and to recognize the broader significance of the former, but it is as an accurate recorder of minute details of structure in the insect world that he stands preeminent and apart from all other entomologists of the past or the present, and while in this respect he may in future be equaled he can hardly be excelled. The religious zeal, reverence, and devotion to faith that had characterized his ancestry appeared now in the ardor of his labor for science. With the controversial side of the theory of evolution he had but little to do, nor was he in any sense an experimentalist, but on the other hand almost our whole accurate knowledge of American orthoptera and of American fossil insects is due to Scudder's painstaking examination and description of the most minute details of structure exhibited by these forms.

A strange contrast there was between the two pupils of Agassiz, Scudder and Hyatt; for intimate friends though they were throughout life, the one spent his days in recording facts, and the other in building theories. The one profoundly influenced by his master, devoted a lifetime to the extension of a principle which had seemingly overwhelmed him in a single course; while the other reflecting almost nothing of the school which had trained him built always in generalities of the imagination.

For four years Scudder studied under Agassiz, and graduated in 1862 with the degree of B. S.

Then began his long association with the Boston Society of Natural History in which he served as recording secretary from 1862–1870, librarian 1864–1870, custodian 1864–1865, and 1866–1870; vice president 1874–1880, and president 1880–1887; when he declined reelection in order to devote his entire energies to scientific work.

His interest in library administration led to his appointment as assistant librarian of Harvard College 1879–1882, and he also held the office of librarian of the American Academy of Arts and Sciences. Also in 1877 the Massachusetts Horticultural Society elected him professor of entomology and ex-officio member of the committee on the library. In 1874 he founded the Cambridge Entomological Club, which under his guidance was for many years one of the most active and important entomological societies in America, numbering practically all of the ablest American students of insects among its members. Many important papers he published in Psyche, the journal of the club. For many years the regular meetings of this society took place in the genial warmth that emanated from the great open fireplace of his excellently equipped private laboratory, which was in a specially designed building apart from his residence at 156 Brattle Street, Cambridge. Scudder himself was always unconsciously the leading spirit of these happy occasions, and many an animated discussion took place lasting until far into the night.

His working collection and the excellent library he possessed contributed in no small measure to enhance the interest of these occasions, but it was his own rare unconscious charm, simple man of science that he was, that shone as a beacon to welcome us all, great and small, to the door of the seemingly enchanted chamber wherein his kindly spirit dominated, with never a thought that his own face shone as that of a great leader in the science he always loved with that same ardor that had inspired his college days at Williams.

Not only was he a founder of Psyche but he acted in the same beneficent capacity to the weekly journal Science and was its editor from 1883 to 1885. Indeed wherever his interest led him men delighted in his leadership. For years he remained most prominent in the affairs of the Boston Society of Natural History, to whose publications he contributed no less than 163 scientific papers.

The extensive explorations conducted by the United States Geological Survey in the decades following the Civil War had led to the discovery of many fossil insects, and no more fortunate choice of a specialist to study these could have been made than that of Scudder who remained attached to the staff of the survey as paleontologist from January 1, 1886, to July 31, 1892. Not only did he make a thorough study of American forms, but in 1891 he prepared a valuable index to the known fossil insects of the world.

It was but natural that his high attainments and unsurpassed productiveness in publication should attract world-wide attention and win for him the highest scientific recognition.

In 1898 he received the Walker grand prize of $1,000 from the Boston Society of Natural History in recognition of his preeminent contributions to entomology. In 1890 the Western University of Pennsylvania conferred upon him the degree of LL. D. In 1877 he was elected a member of the National Academy of Sciences, and of the American Philosophical Society in 1878.

He was also a fellow of the American Association for the Advancement of Science, being its general secretary in 1875, and becoming a life member in 1880. Other associations of which he was a member were the American Academy of Arts and Sciences, the New York Academy of Sciences, the Philadelphia Academy of Natural Sciences, the Davenport Academy of Sciences, Microscopical Society of Boston, the Entomological Society of Washington, and the Troy Scientific Association.

He was also recognized abroad by being elected to honorary fellowship in the Royal Society of Canada, Fellow of the Entomological Society of London, corresponding member of the Zoological Society of London, and of La Société Physique et d'Histoire Naturelle de Genève; and he was a foreign associate of the national entomological or zoological societies of The Hague, Petrograd, Vienna, Moscow, Madrid, Buenos Aires, and Brussels.

On June 25, 1867, he married Ethelinda Jane Blatchford the daughter of Edgcumbe Heath Blatchford and Mary Ann Hubbard. She died on June 9, 1872, leaving a son Gardiner Hubbard Scudder, born September 3, 1869.

After graduating with honors from Harvard University this young man entered the Harvard Medical School where his indefinable charm of manner coupled as it was with earnestness, industry, and exceptional mental ability gave high promise for the future; but he graduated only to be stricken with acute tuberculosis from which he died on December 26, 1896.

Broken by the weight of this appalling deprivation Samuel Scudder never recovered in health or spirit, for in the same year in which his son died, he had developed symptoms of paralysis agitans. Calmly preparing for the invalidism which awaited him he gave his books and pamphlets to the scientific societies in which his had so long been the leading spirit; and then with a patience which only so noble a character as his could show he spent the long years of waiting ministered to in all kindliness and care by his sister-in-law, Miss Blatchford, authoress of "Little Jane and Me," who in order to cheer the painful hours read to him day after day as he sat on the verandah of his home in Cambridge.

That remarkable interest in system and fascination for detail that had characterized his active life still survived in these passive years, for at his request Miss Blatchford read to him every word of the original folio edition of Dr. Johnson's Dictionary, including the preface and the definition of each and every word; almost the entire time between January 12 and October 24, 1905, being consumed in this manner. Finally the end came on May 17, 1911.

Far more he was than the most learned entomologist of his generation, for few men of science have endeared themselves to those around them as did he, endowed as he was with an innate quality of kindliness that seemingly unknown to him graced his every word and act. One

recalls his tall handsome form and the strong interesting features so wonderfully relieved by the happy soul that seemed ever ready to burst forth in a bright flash of interest over any and all things of that manifold nature to the observation of which his life had been devoted.

He was the author of 791 scientific publications, chiefly systematic descriptions of Lepidoptera, Orthoptera, Neuroptera, Hemiptera and Coleoptera, and devoting special attention to fossil forms.

Yet such a brief summary gives a wholly imperfect idea of the wide scope of his interests, much less of the sunny charm of his more popular writings which always seemed to have caught the generous cheer of a June day of his native New England.

He was perhaps the only man of science in America who could write a deeply technical work upon Lepidoptera and at the same time without incongruity crowd the volumes with quotations from poetry and with popular excursuses upon all manner of fascinating subjects related to New England and its butterflies. Yet such is his incomparable three volume work upon the "Butterflies of the eastern United States and Canada with special reference to New England." He proposed popular names for at least 77 species of American butterflies and curiously so aptly chosen were these that most of them are now better known to the American public than are the older scientific designations which they supplanted in the popular imagination. Among his interesting discoveries he showed that *Basilarchia proserpina* is a hybrid between *B. arthemis* and *B. astyanax*. Also that we now have stranded as it were upon Mount Washington, N. H., and on Pikes Peak and other high mountains of Colorado above 12,000 feet, a butterfly (*Oeneis semidea*) which in the glacial epoch was widely spread over the Northern States but upon the retreat of the ice became confined to these two isolated regions. He also demonstrated that the group-genus Papilo is composed of butterflies of relatively primitive organization, and more closely related to the Hesperidæ than to the more recent and highly specialized Nymphalinæ.

The migrations, feeding habits, life histories, geographical distribution, dimorphism, morphology, and early larval and egg characters are all most philosophically yet fascinatingly dealt with in this great work which, had he produced no other, would have made him one of the world's leading entomologists. But he was the author of many other voluminous works which from the standpoint of systematic zoology, or paleontology were even more important.

The following list may give some rough idea of the extent of his activities and of the enormous energy he possessed. The numbers represent the number of papers he published upon each subject:

Lepidoptera, 168; Orthoptera, 180; fossil insects, 122; anatomy of insects, 19; evolution, 15; geographical distribution, 29; biographical, 25; reviews, 63; geological, 13; general entomological subjects, 85; habits of insects, 24; catalogues and lists of species, 28; nomenclature, 8; geography and exploration, 16; economic entomology, 17; embryology of insects, 6; songs of insects, 6; ethnology, 4; food plants of insects, 4; regeneration in insects, 2; public questions, 2; mammals, 1; fishes, 1; crustacea, 1; mollusca, 1.

It is remarkable that in his first paper, published immediately after leaving Williams College, he enumerates 28 species of snails, yet of all his following zoological papers only 7 are upon subjects other than insects. On the other hand, almost all the accurate knowledge we possess of American grasshoppers, cockroaches and crickets, and of fossil insects is due to Scudder. Indeed, according to Cockerell, the original descriptions of 1,884 species of animals are found in Scudder's writings. Of these 1,144 species and 233 genera are fossil insects, and 630 species and 106 genera are living Orthoptera, the remainder being chiefly fossil arachnids and myriopods, Coleoptera and the living butterflies of North America.

Scudder believed that generic names should be used to indicate differences rather than to show relationships. He was thus one of the type of systematists known as "splitters," and nowhere does this tendency appear in his works in a more accentuated degree than in his treatment of the generic names of butterflies.

Naturally in the vast mass of his writings, especially upon fossil insects, which must often be described from mere fragments, there are mistakes, many of which he himself corrected as

the work progressed. An amusing instance of this sort is his description of Trichiulus, which he mistook for part of the hairy leg of a fossil centipede, but later, upon discovering that the specimen was more probably part of a fern leaf, he told his friends that it should be called "Tricky" ulus.

His work upon fossil insects was of the pioneer sort and thus much of it had perforce to be accomplished in haste; yet few naturalists who have been obliged to study under these adverse conditions have done as well as did Scudder. Mistakes must mar the pages of all leaders of science, and can be avoided only by the cardinal sin of doing nothing.

An excellent feature of Scudder's work upon fossil insects is the frequency of figures in his papers, which were provided despite the fact that he himself was unable to draw.

He believed the relationship between the paleozoic and the quaternary insects to be more remote than is now conceded to be the case; but withal he laid the foundation of the world's knowledge of American fossil insects and future work must be erected upon the structure resulting from his tireless labor and his genius for classification.

A notable set of useful publications are represented by his lists and catalogues, the most important being a catalogue of scientific serials of all countries from 1633 to 1876, and his well-known and widely used Nomenclator Zoologicus, first published in 1882 and 1884 and giving a list of generic names used in zoology.

He seemed to have but little desire to conduct experiments, nor was he much interested in economic entomology, and as a breeder of insect larvæ he was surpassed by Edwards and others, but in the accurate systematic recording of minute detail of external structure he had no peer in his time nor has any entomologist ever attained to his excellence in this respect. Deeply interested as he was in butterflies, he seemed to have almost an aversion to moths.

A biographical notice of Scudder, giving portrait and written by Prof. C. E. Fay, appears in Appalachia, volume 12, pages 276–279, 1911. Also in 1911, T. D. A. Cockerell published in Science, volume 34, pages 338–342, an interesting commentary upon Scudder's scientific labors, and a series of papers of somewhat similar purport were published in Psyche, volume 18, 1911, pages 175–192, the authors being J. S. Kingsley, W. L. W. Field, T. D. A. Cockerell, and Albert P. Morse. Biographical notices also appeared in the Canadian Entomologist, the Entomological News, and in the Harvard Graduate's Magazine.

In 1879 Dr. George Dimmock published a pamphlet upon "The Writings of Samuel Hubbard Scudder," in which he records 311 publications with brief reviews of the contents of each paper, and of references to it by other authors. Dr. Dimmock has kindly permitted me to make full use of this valuable list. In addition Dr. Samuel Henshaw permitted me to inspect Scudder's personal notebook, now deposited in the library of the Museum of Comparative Zoology at Cambridge, in which he records and numbers each of his papers as it appeared, the last entry being upon Lepidoptera and numbered 791. The list of papers herewith published is derived from these sources.

It is a pleasure to acknowledge my appreciation of the kindly interest and aid in the preparation of this biography shown by Miss Blatchford, Mrs. Horace Elisha Scudder, and other members of the family.

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