Bayliss, launched his Principles of General Physiology, which aimed at application of physical and physicochemical principles, rather outside the knowledge or interests of most medically qualified physiologists at that time, to the functions of cells, tissues and animals. Moreover, he ranged widely over the animal kingdom beyond the frog, cat and dog, which were the conventional objects of physiological investigation. This stirred almost explosive interest among physiologists, many of whom, from home and abroad, were welcome guests at Sir William and Lady Bayliss's hospitable house in Hampstead. Into this setting, Leonard grew up to hear much discussion and to gain practical experience in his father's private laboratory and workshop, in addition to formal education at University College School and later in Trinity College, from which he took his degree in physiology at Cambridge and then his Ph.D.

After a year as physiologist at the Marine Biological Laboratory at Plymouth, he became lecturer in physiology in the University of Edinburgh. By 1939, however, physical chemistry, physiology and experimental zoology had advanced mightily in the twenty-five years since the original publication of the Principles, and Bayliss resigned from his salaried post to devote himself to study so as to produce a new synthesis of the cognate parts of these subjects; this he did at his father's professional home, University College, London. The War intervened, and during these years he must have been immensely active in the Army Operational Research Group, about which he spoke with real enthusiasm (see following note).

With the shortage of university staff after the War, he became reader in physiology at University College and managed, practically single-handed, in 1946 to restart the Hons. B.Sc. course which had perforce lapsed during the war years. Having set that on its feet, he resigned in 1950 in order to have leisure to pursue his ambition to create a new synthesis in the form of the Principles of General Physiology. This he achieved in two volumes published in 1959 and 1960, although he had continued teaching and research in an honorary capacity much as

He and his wife, Dr. M. Grace Eggleton, who survives him, were a devoted couple, both working in the same department and nearly always together, either in London or at their cottage in Sussex. He was a modest, frugal and exceedingly kind person, always ready to interrupt what he was doing to discuss someone else's problem; unambitious and reluctant to publish papers, though he published quite a few about widely diverse branches of physiology from water-diuresis to action-potentials. glimpse of his generous character appears in a quotation from his preface to the Principles of General Physiology, 1, in the acknowledgments: "But the most valuable of all my assistance has come, whether they knew it or not, from my colleagues and students in the course of discussion and instruction". F. R. WINTON

ONE morning in the autumn of 1940 I was gazing ruefully at the smoking ruins at University College, when Leonard Bayliss came and stood beside me. I had been looking for scientific people for Blackett's party at Anti-Aircraft Command and said, "Leonard, do you want a job?" The job seemed particularly pertinent then, and he said "Yes" at once. For nearly five years he worked with the Army Operational Research Group under its various titles, and was a leading member of its establishment throughout the War, contributing greatly to its success

The efforts of this Group were of tremendous value to the A.A. Command. As General Pile wrote in his despatch (London Gazette, December 16, 1947), "While full credit must be given to the troops of all kinds, and indeed their conduct . . . was beyond all praise, the foundation of success was laid by the scientist, both civilian and in uniform". In his book Ack-Ack is a photograph of Pile

talking to Bayliss, with other members of the team brung

The original party was split early into two sections: (a) those engaged in radar problems; (b) those dealing more generally with fire control and analysis. Bayliss was put in charge of the latter. A colleague of those days writes that he was "always delightfully helpful and stimulating"; and he was himself the author of many reports on A.A. gunnery, A.A. predictors, accuracy of fire against aircraft at various heights, and later against flying bombs. These were enlivened occasionally by touches of the gentle irony that his friends will recall.

It may seem remarkable that one who had no previous experience of war and its problems should have been able, immediately, to take so active and successful a part. But this does not seem so remarkable to those who knew Bayliss's breadth of knowledge and ingenuity, and his engaging readiness to help.

A. V. Hill. engaging readiness to help.

Dr. Arvid Hjalmar Uggla

By the recent death of Dr. Arvid Uggla in his eightysecond year, the learned world has lost a great authority on everything connected with Linnæus. When Dr. J. M. Hulth of the University Library, Uppsala, published his excellent Bibliographia Linnaeana in 1907, he stated his intention of undertaking a work on Linnæus's manuscripts, but his promotion to the head librarianship of the University Library, Uppsala, and his early death prevented him from carrying out this project. his service in the Swedish Army during the First World War, Arvid Uggla returned to the University Library. Uppsala, becoming one of its principal librarians. about the year 1928, when Uggla published his first paper on Linnæus, he began a series of visits to England with the purpose of a close study of the Linnæan manuscripts. His profound study of these numerous manuscripts solved some problems long overdue. Some of these solutions were published in the year-book (Arsskrift) of the Swedish Linnean Society (Svenska Linné-Sällskapet) but many remain unpublished. Unlike previous research workers, he also thoroughly investigated the many manuscripts of the younger Linnæus, and was able to show that, although lacking the elder Linnæus's genius, that somewhat denigrated young man was quite a considerable naturalist. Although he prepared a valuable hand-list in manuscript and deposited a copy at the Linnean Society of London, his projected catalogue of the Linnxan manuscripts remains unpublished. hoped that Svenska Linné-Sällskapet will publish this catalogue as its tribute to his memory.

Only those who have made some study of the Linnaan manuscripts can form any idea of the difficulties connected with them. Apart from the fact that many of the manuscripts still consist of loose leaves (at times in doubtful order) there are the ever-present difficulties connected with reading the sometimes almost illegible handwritings. Uggla had the quick mind and keen eye necessary to do such work to perfection. In addition, he had wonderful powers of memory, which enabled him to associate immediately with other manuscripts the one he was investigating.

Apart from the numerous papers published in the Arsskrift and elsewhere, Uggla published several separate works. Among them, with E. Malmeström (now Bishop of Uppsala), he collaborated in a revised edition of Linnaus's several autobiographies in Vita Caroli Linnaei (1957).

Svenska Linné-Sallskapet devoted its Arsskrift for 1962, published in 1963, as a festschrift to Dr. Uggla on his eightieth birthday, February 13, 1963. In it will be found the reproduction of an excellent bas-relief portrait of Dr. Uggla, and a bibliography of his writings. From 1927 he was secretary of the Swedish Linnean Society and editor of its Arsskrift, as well as superintendent of the Linné Museum, Uppsala.