

p. 14). The chair will be held concurrently with the headship of the Chemical Engineering Department of the Heriot-Watt College. Dr. Calderbank, who is forty-one years of age, was educated at Palmer's School, Essex, and at King's College, London, where he graduated in 1940 with first-class honours in chemistry. He then joined the Ministry of Supply (Explosives Division), where he was concerned with the maintenance and operation of heavy chemicals plant. Afterwards, he joined the firm of Bakelite, Ltd., in Birmingham, and engaged in several research and development projects connected with the manufacture of synthetic resins and polymers. In 1946, Dr. Calderbank was appointed lecturer in the Chemical Engineering Department at University College, London. At University College, Dr. Calderbank undertook research on the kinetics of reactions in fluidized beds of catalysts and was awarded the degree of Ph.D. In 1952, he was appointed professor of chemical engineering in the University of Toronto, where he was an active member of the American Institute of Chemical Engineers. He joined the Department of Scientific and Industrial Research in 1955, and, after a four-month study tour of American universities and research establishments, returned to the National Chemical Laboratory at Teddington, where he proceeded to form and direct a research group of chemical engineers. This research group was transferred to the Warren Spring Laboratory at Stevenage in 1958, and under Dr. Calderbank's direction evolved into a team of forty workers engaged in many aspects of chemical engineering and process development research. Dr. Calderbank is a member of the Institution of Chemical Engineers and has been the recipient of the John Millar Medal for chemistry and the senior Moulton Medal for chemical engineering.

Atomic Energy Research Establishment Appointments

DR. F. A. VICK, at present deputy director of the Atomic Energy Research Establishment, Harwell, has been appointed director. Dr. R. Spence, at present chief chemist, has been appointed deputy director, and Mr. L. Grainger, now head of the Metallurgy Division, has been appointed assistant director, with special responsibilities for applied research. The new appointments will take effect on September 1. Sir Basil Schonland continues as director of the Research Group, of which the Atomic Energy Research Establishment is a part.

Overseas Civil Service

Supplementary Pay and Allowances

IN statements made simultaneously in the House of Commons and in the House of Lords on July 28, it was announced that, subject to Parliamentary approval of the expenditure involved, the Government has decided to offer to take over, where necessary in Colonial territories, the inducement pay and allowances of overseas staff broadly on the lines of the arrangements followed in most technical assistance schemes. Although financial arrangements have already been reached with Nigeria and Sierra Leone in the light of their coming independence, it is also proposed to offer them agreements on those lines and it is intended to apply the arrangements to the High Commission territories. The effect of these proposals would be that, while the local Govern-

ment would continue to bear the local rates of salary and other conditions of service, the British Government would bear the cost of supplementary pay and allowances which prove to be needed for overseas officers. The statement also recognized the direct responsibility of the Government to maintain stable administration throughout the years of change preceding self-government, while pressing forward with the recruitment and training of officers from the local population. These new arrangements, which will not cease with independence, demonstrate the importance which the Government still attaches to the maintenance of an efficient Overseas Civil Service. They would apply to all its 15,000 members, and the cost is estimated by the Secretary of State for the Colonies, Mr. Iain Macleod, at £10–20 million a year over ten years.

Agricultural and Scientific Research Overseas

IN reply to a question in the House of Lords on July 28, about agricultural and scientific research overseas, Lord Hailsham stated that both the Agricultural Research Council and the Department of Scientific and Industrial Research, like the Medical Research Council, have powers to maintain research workers in overseas territories where this is in the national interest, and the Department of Scientific and Industrial Research has some research staff in stations overseas. Both the Department and the Agricultural Research Council assist overseas territories by seconding staff for definite periods within the limits of their resources, and proposals for extending these arrangements are under examination. While it is considered that existing powers should be adequate for any such extension, Lord Hailsham said that the Government would not hesitate to seek additional powers if necessary.

India's First Agricultural University

THE Government of India has approved the establishment of an Agricultural University, the first of its kind to be planned in the country, at Rudrapur, in Uttar Pradesh. The University, a product of Indo-American co-operation, will be set up on the model of land grant colleges in the United States and is expected to cost Rs. 1.90 crores. The 16,000-acre Tarai State Farm will be attached to the University for use as a laboratory for research and experiment. The University will have three constituent colleges, an Agricultural College, a College of Animal Husbandry and Veterinary Science, and a College of Agricultural Engineering and Technology, and will train 325 students each year. It will provide comprehensive education in agriculture and allied subjects on the basis of an integrated system of teaching, and will pay particular attention to developing rural leadership and competence. The decision to establish the Agricultural University is to be welcomed, particularly at the present juncture, when considerable emphasis is being laid on self-sufficiency in food in the third Five-Year Plan.

Dental Research

THE Minister for Science, Lord Hailsham, stated in the House of Lords on July 27 that current annual expenditure on dental research of the Medical Research Council exceeds £35,000, and a considerable proportion of this sum is used to support investigations into the early development of dental caries at