

resulted in many papers, Dr. West has been an active member of various committees of the Society of Analytical Chemistry, the International Union of Pure and Applied Chemistry, etc., and is a founder member of the editorial board of *Talanta*. Dr. West's researches have been concerned with the development of submicro methods of organic analysis, titrimetric reagents and the application of co-ordinating and chelating agents in inorganic analysis; he has also written several monographs and has been a contributor to the *Annual Reports of the Chemical Society*. In addition to his research interests, Dr. West is deeply concerned with teaching and is running a postgraduate course in analytical chemistry at the Imperial College of Science and Technology as well as supervising numerous research students.

**Experimental Education in the University of Manchester:**  
Prof. F. W. Warburton

DR. F. W. WARBURTON, senior lecturer in education in the University of Manchester, has been appointed to the newly-established chair of experimental education at that University. Dr. Warburton entered the University of Reading in 1928 and graduated with honours in psychology in 1931. In the following year he was awarded the Diploma in Education of the University of Reading and then took up an appointment as assistant master in the London Teaching Service. He held this post until 1940 and during this time he read for, and gained, an M.A. of the University of London. In 1940 he was appointed acting headmaster of the London County Council School, Solva, Pembrokeshire, Wales. In 1945 he took up an appointment as Fellow at the London Child Guidance Clinic and in the same year was awarded a Ph.D. (London). In the following year he was appointed research officer (with the rank of major) in the Department of Personnel Selection of the War Office. In 1948 he was made officer in charge of the research team in Far Eastern Command, Singapore and Ipoh, Malaya. In 1949 he was appointed lecturer in educational psychology in the Department of Education in the University of Manchester. During 1958-59 and also the summer of 1961 he was research associate professor in the Department of Psychology in the University of Illinois. He was promoted senior lecturer in the University of Manchester in 1960 and was visiting professor in the Department of Education in the University of Illinois during the summer of 1963. Dr. Warburton has been a Fellow of the British Psychological Society since 1948 and a member of the Council of that Society since 1960. In 1960 he was appointed a member of the Committee on the New British Intelligence Test. In 1962 he became secretary of the Society of Multivariate Experimental Psychology (European Branch) and in 1963 convener of the British Psychological Society Committee on Programming of Electronic Computers.

**Electrical Engineering in the Queen's University of Belfast:**  
Prof. E. H. Frost Smith

DR. E. H. FROST SMITH has been appointed to the chair of heavy electrical engineering in the Queen's University, Belfast, rendered vacant by the resignation of Prof. J. C. West on his appointment to the University of Sussex (*Nature*, 203, 815; 1964). Born in 1923, Dr. Frost Smith received his early education at the Whitgift School, Croydon, and, after the outbreak of the Second World War, at Ardyn, Aberystwyth. Going up to Peterhouse College, Cambridge, in 1941, he graduated B.A. in the Mechanical Sciences Tripos in 1943. From Cambridge, Dr. Frost Smith joined the research staff of the Royal Aircraft Establishment, Farnborough, where he worked on automatic control systems associated with the electrical equipment of aircraft. In 1947 he took up postgraduate work at University College, London, and in 1950 was awarded the degree of Ph.D. for research into the behaviour of magnetic amplifiers. Returning to industry the same year, in the research laboratories of

Elliott Brothers, Dr. Frost Smith continued his work on automatic control systems and, in 1954, he became chief engineer of the Servo Mechanisms Division of that Company. In 1956 Staveley Industries appointed Dr. Frost Smith director of research at Bedford. Here he has been responsible for a wide range of research projects, mechanical, hydraulic and electromechanical, related largely to the design and manufacture of machine tools and control systems. Dr. Frost Smith brings to his new post a keen interest in the problems of engineering teaching in universities and an exceptionally wide experience of industrial research. One of his specialist interests which he may be expected to pursue in his new department is the problem of developing the low-inertia high-torque electric motor for use on control systems.

**Sociology in the University of Kent at Canterbury:**  
Prof. A. P. Stirling

DR. A. P. STIRLING, who has recently been appointed to the chair of sociology in the University of Kent at Canterbury, is forty-four years old. After a period at the University of Oxford, interrupted by service in the Royal Navy as Lieutenant, R.N.V.R., during 1941-45, he gained a first-class honours degree in Litt.Hum. in 1947. From 1948 until 1951 he was the holder of a senior treasury studentship for Turkish cultural studies under the Scarborough Scheme. After training in social anthropology at Oxford he carried out comparative field research on two Turkish villages. For this work he obtained his D.Phil. degree in 1951. In 1952 Dr. Stirling joined the London School of Economics and Political Science as an assistant lecturer in anthropology, becoming a lecturer in 1954. During his period at the School he made very significant contributions as a teacher, as a research worker, and as an organizer of research plans. He also served with distinction as the managing editor of the *London School of Economics Monographs on Social Anthropology*. Dr. Stirling has published a number of articles on aspects of Turkish rural society and also a book entitled *Turkish Village*, which is a substantial, meticulously documented description of two Turkish rural communities in their general social, economic and political setting.

**Scientific Director of the High Latitude Space Environment Monitoring Station, Anchorage, Alaska:**

Dr. H. J. A. Chivers

DR. H. J. A. CHIVERS has been appointed the first scientific director of the Central Radio Propagation Laboratory's High Latitude Space Environment Monitoring Station, Anchorage, Alaska. In his new position, Dr. Chivers will direct the scientific activities of the Station as it reorganizes its activities in the field of space environment monitoring and forecasting. This change is being made to allow the Anchorage facility to concentrate on monitoring and reporting solar and geophysical events of importance to users of high-frequency radio propagation and to other activities affected by solar-associated disturbances in the space environment of the Earth. Dr. Chivers, who is a graduate of the University of Manchester, has been a senior scientist with the Space Environment Task Group, and has also served as chief of the High Latitude Ionospheric Physics Section, Upper Atmosphere and Space Physics Division, for two years. His research experience includes observation of radio star scintillations at the Jodrell Bank Experimental Station, University of Manchester, and radio observation of artificial satellites by means of ground-based stations for ionospheric research, geomagnetic conjugate point studies, and D region absorption at the National Bureau of Standards Boulder Laboratories. Dr. Chivers is a member of the United States Commission III of the International Scientific Radio Union, the American Geophysical Union, and the Polar Cap Panel of the Committee on Space Research.