

memberships: Jacques-Emile Blamont, director of the Service d'Aeronomie, Centre National de la Recherche Scientifique, Verrieres-le-Buisson, France; John G. Bolton, division of radiophysics, Commonwealth Scientific and Industrial Research Organization, Epping, New South Wales, Australia, and Paul Erdős, Mathematical Research Institute, Hungarian Academy of Sciences, Budapest, Hungary.

Institute of Physics presents annual awards

The Institute of Physics (UK) awarded a series of prizes at its annual dinner held on 7 May in London. Among those honored were the following eight scientists.

Alan E. Costley, principal scientific officer at the National Physical Laboratory, was awarded the Charles Vernon Boys Prize for his work on the development of rapid-scan Fourier transform spectroscopy for characterizing electron cyclotron emissions from pulsed plasmas. Costley studied applied physics at Brunel University where he earned a BTech in 1968. He did his doctoral studies at NPL and has remained there since earning his PhD in 1976.

The Duddell Medal and Prize was given to Albert V. Crewe of the University of Chicago for his development of an ultra-high resolution scanning transmission electron microscope. In addition to his physics professorship at Chicago, Crewe is dean of the physical science division and member of the Enrico Fermi Institute staff. Crewe received a BSc (1947) and a PhD in cosmic-ray physics (1950) from the University of Liverpool. He lectured at Liverpool until 1955 when he joined the Chicago faculty. From 1961 to 1967 Crewe directed Argonne National Laboratory.

Paul G. Murphy, professor of physics at the University of Manchester, and John J. Thresher, head of high-energy physics at the Rutherford Laboratory shared the Rutherford Medal and Prize for "their contribution to elementary-particle physics, through the measurement of elastic scattering and polarization differential cross sections for pion-proton scattering." Murphy was awarded a bachelor's degree by Cambridge University in 1953, and master's and doctoral degrees by the University of Chicago in 1957. He spent the next two years at the University of Liverpool and the five succeeding years at the Rutherford Laboratory. Murphy has been at Manchester since 1965. Thresher obtained his BSc at Cape Town University and his DPhil in nu-

clear physics at Oxford University. In 1955 he accepted an appointment at AERE, Harwell, moving to the Rutherford Laboratory a few years later.

The Glazebrook Medal and Prize was presented to Michael C. Crowley-Milling for "the development, design and construction of the multi-computer control system of the 400 GeV proton synchrotron at CERN." Crowley-Milling studied mechanical sciences at Cambridge University. In 1943 he received his MA and three years afterward he became leader of the accelerator section of Metropolitan-Vickers Research Laboratory. Crowley-Milling was group leader at Daresbury Nuclear Physics Laboratory from 1963 until 1971, when he joined the CERN staff.

Michael E. Fisher, Horace White Professor of Chemistry, Physics and Mathematics at Cornell University, won the Guthrie Medal and Prize for "his outstanding contributions to the theory of phase transitions and critical phenomena." Fisher graduated with a BSc from King's College, London in 1951. Six years afterwards the same institution granted him a doctoral degree in physics. He remained at King's until coming to Cornell in 1966.

David J. Wallace of the University of Edinburgh physics department was awarded the Maxwell Medal and Prize for "his studies of critical phenomena in statistical physics using quantum

field theory." Wallace received a BSc and PhD from Edinburgh. From 1970 to 1972 he was a Harkness Fellow at Princeton University and upon his return from the US, he joined the University of Southampton physics department. In 1979 Wallace was appointed to the Tait Chair of Mathematical Physics at Edinburgh.

Honorary Fellowship of the Institute of Physics was conferred upon Victor F. Weisskopf, Institute Emeritus Professor at MIT. The Institute cited "his theoretical work in quantum electrodynamics, the structure of the atomic nucleus, and elementary particle physics." Weisskopf earned his PhD from the University of Göttingen in 1931. He worked at the Universities of Copenhagen and Zurich until 1937 when he left Europe to join the University of Rochester faculty. Weisskopf stayed there until he was appointed to the Manhattan Project in 1945. In that same year he became associate professor at MIT. From 1960 to 1966 Weisskopf served as director-general of CERN. He received the US Medal of Science in 1979.

The 1979 Washington Academy of Sciences Award in Physical Sciences has been presented to E. Joseph Friebele, research physicist at the Optical Sciences division of the Naval Research Laboratory.

obituary

Allen Goodrich Shenstone

Allen Goodrich Shenstone, Class of 1909 Professor of Physics, Emeritus at Princeton University died on 16 February 1980.

Shenstone was born on 27 July 1893 in Toronto. He was admitted to Princeton in the fall of 1910 (the only Canadian among 400 freshmen) and perhaps as expected of a Canadian, he played on the hockey team. He graduated in June 1914 and was continuing his studies of physics at the Cavendish Laboratory, Cambridge, at the outbreak of World War I. Shenstone immediately joined the British army as a second lieutenant in the Royal Engineers, and participated in most of the major battles on the British front in France from 1915 to 1918. He was promoted to captain and won the British Military Cross for Bravery. Shenstone was demobilized in 1919, after serving as commanding officer of the 56th Field Company of Royal Engineers of the Army of Occupation in Germany. This extensive experience

with British comrades in arms, added to his deep British loyalties, led him to maintain his Canadian citizenship throughout a life spent mainly in the United States. Shenstone returned to Princeton and received his MA in 1920 and PhD in 1922. During this period he also spent part of one year at Cambridge working with Sir Ernest Rutherford.

After three years as an instructor at Toronto University, Shenstone returned to Princeton in 1925. So continued his lifelong association with Princeton, interrupted again only by World War II, during which he was a special assistant to the president of the National Research Council of Canada, first as a scientific liaison officer between the Council and American scientific organizations, and later as liaison officer between the Council and British scientific organizations. For this service he was made an Officer of the Order of the British Empire.

The Princeton physics department of the 1920's and 1930's included such notables as Henry D. Smyth, Karl T.