

ELECTIONS

The Council at their meeting on 21 April, 1959, in accordance with By-law 14, declared that the following had been duly elected as Associate Members.

ALLARDYCE, WILLIAM FRANK GRAY, B.Sc. (<i>Aberdeen</i>), Grad.I.C.E.	NAUGHTON, AIDEN JOSEPH, B.E. (<i>National</i>), Grad.I.C.E.
BRIAN-BOYS, KEITH CHARLES, Grad.I.C.E.	PERRET, JOSEPH DOUGLAS, B.Sc. (<i>Birmingham</i>).
CARLTON-JONES, DENNIS, B.Sc.(Eng.) (<i>London</i>), Grad.I.C.E.	RUMIANZEFF, VLADIMIR DMITRIEVITCH.
CRAIG, WILLIAM GORDON, B.Sc. (<i>Glasgow</i>), Grad.I.C.E.	RYDZEWSKI, JANUSZ RYSZARD, Ph.D. (<i>Cantab.</i>), B.Sc. (<i>Cape Town</i>), Grad.I.C.E.
HULLY, LESLIE, B.Sc. (<i>Belfast</i>).	TRIGG, RICHARD TODD, B.Sc.(Eng.) (<i>London</i>), Grad.I.C.E.
INGRAM, JOHN, Grad.I.C.E.	TUCH, ERNEST GÜNTHER, B.Sc. (<i>Birmingham</i>), Grad.I.C.E.
KEMP, CHARLES IAN TAGGART, Grad. I.C.E.	WARBURTON, HENRY BRIAN, B.Sc. (<i>Bristol</i>), Grad.I.C.E.
KNOX, JAMES ANDERS JOHN, B.Sc.(Eng.) (<i>London</i>).	WILLIAMS, TREVOR JAMES, B.E. (<i>New Zealand</i>).
MACKEY, JAMES PATRICK, B.Sc.(Eng.) (<i>London</i>), Grad.I.C.E.	WILSON, ROBIN LEE, B.Sc. (<i>Glasgow</i>), Grad.I.C.E.
MILLIGAN, VICTOR, M.Sc. (<i>Belfast</i>), Grad.I.C.E.	

DEATHS

It is with deep regret that intimation of the death of the following has been received.

Members

Colonel Sir (ARTHUR) STANLEY ANGIN, K.C.M.G., K.B.E., D.S.O., M.C.,
T.D., D.Sc.(Eng.) (E. 1913, T. 1946) (former Member of Council).
HAROLD CLIFFE, B.Sc.(Eng.) (E. 1925, T. 1933).
JAMES GIBSON CUTHBERT (E. 1906, T. 1935).
GEORGE MARTIN SWAN, B.Sc.(Eng.) (E. 1937, T. 1952).
FRANCIS STANLEY WOODCOCK (E. 1918, T. 1939).

Associate Members

FRANCIS CHARLES BUSCARLET (E. 1894).
Sir HAROLD FORTESCUE FLANNERY, Bart. (E. 1910).
LEONARD ARTHUR GIBSON (E. 1954).
HOWARD KENNEDY LAMB (E. 1908).
ARTHUR ERIC SMITH, B.Sc.(Eng.) (E. 1919).
WILFRED L. SPENCE (E. 1894).
RODNEY ROBERT WELLER, B.Sc.(Eng.) (E. 1955).

OBITUARY

SIR ALFRED CHATTERTON, C.I.E., who was born on 10 October, 1866, died on 26 July, 1958.

He was educated at Finsbury Technical College and the Central Institution, South Kensington, and obtained a B.Sc. degree.

After joining the Indian Education Service in 1888, he became Professor of Engineering at Madras, a post he held until 1900. From 1900-1908 he was Director of Industries, Madras, then Director of Industries and Commerce in Mysore until 1912. He was a Member of the Indian Industrial Commission from 1916 to 1918, and in 1917 he was Controller of the Indian Munitions Board. He was Industrial Adviser to the Mysore Dubar in 1918 and to the Tate Industrial Bank, Bombay. After retiring from Government Service in 1918 he practised as a Consulting Engineer in India and England until 1933.

He was awarded the Kaisar-i-Hind gold medal in 1901. An Honorary Fellow of Imperial College, he became a Companion of the Most Eminent Order of the Indian Empire in 1912, and was knighted in 1919.

He was the Author of two Papers^{1, 2} presented to the Institution, he also presented many Papers to other scientific societies.

He was elected an Associate Member in 1892.

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1. "Flour-mills and their machinery", Min. Proc. Instn civ. Engrs, vol. 90 (1886-87), p. 366.
 2. "The prevention and the extinction of fires", Min. Proc. Instn civ. Engrs, vol. 93 (1887-88), p. 437.
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PROFESSOR ANGUS ROBERTSON FULTON, M.B.E., D.Sc., LL.D., who was born in Dundee on 24 June 1871, died on 20 November, 1958.

Trained as an engineer, Professor Fulton was in 1901 appointed Assistant to the Professor of Engineering in University College, Dundee, where in 1907 he obtained the degree of B.Sc.(Eng.) with special distinction. In 1911 he became a Lecturer in the same department.

From 1917 until 1919 Professor Fulton was Secretary to the Accidents Sub-committee of the Advisory Committee for Aeronautics, and was responsible for the investigations of all flying accidents in Britain. For this work he was mentioned in dispatches, and was awarded the M.B.E. (Military).

In 1920, he received from the University of St Andrews the degree of D.Sc., and was appointed to the Chair of Engineering, a position which he retained on his appointment in 1939 as Principal of University College, Dundee. He relinquished these appointments in 1946, at which time St Andrew's University conferred on him the degree of LL.D.

In addition to his work on Aeronautics, Professor Fulton made a particular study of the theory of structures and strength of materials, with special regard to the fatigue of metals, and earth pressures. In the field of mechanics, he carried out research work on water turbines and centrifugal pumps.

Professor Fulton was awarded a Telford Premium in 1920 for his Paper¹ on retaining walls, and presented Papers^{2, 3} to the Royal Society of Edinburgh in 1912 and 1914. He also contributed articles on hydraulic machinery to the "Dictionary of Applied Physics".

He was a Fellow of the Royal Aeronautical Society, a Member of the British Association Committee for the Investigation of Complex Stresses, and a Member of the Committee on Earth Pressures.

Elected an Associate Member in 1908, Professor Fulton was made a Life Member in 1958.

He is survived by a daughter and two sons.

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1. "Overturning moment on retaining-walls". Min. Proc. Instn civ. Engrs, vol. 209 (1919-20), p. 284.
 2. "Experiments to show how failure under stress occurs in timber, its cause, and comparative values of the maximum stresses induced when timber is fractured in various ways". Trans roy. Soc. Edinb., vol. 48 (1911-12), p. 417.
 3. "Rupture stresses in beams and crane hooks". Trans roy. Soc. Edinb., vol. 50 (1913-14), p. 211.
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