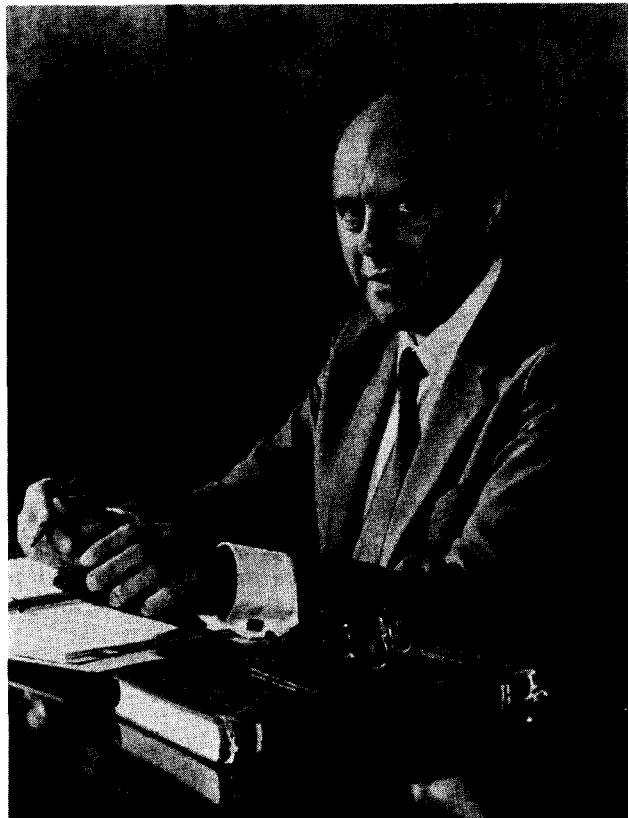


AIME award for Professor Salamon



Professor M. D. G. Salamon, who is a Past President of The South African Institute of Mining and Metallurgy and who serves on the Council of the Institute.

Professor Miklos Salamon, Research Adviser to the Chamber of Mines of South Africa, has won the Rock Mechanics Award for 1983 of the American Institute of Mining, Metallurgical and Petroleum Engineers 'for

applications of analysis to many varied practical mine design problems'.

Professor Salamon was born in Hungary, where he received his education, graduating in 1956 as a mining engineer. In 1956 he emigrated to Britain and joined the National Coal Board, participating in its mining engineering training scheme. In 1959, he was appointed Research Associate in the Mining Department of the University of Durham, where he gained a Ph.D. in 1962 for research done in the field of mining rock mechanics.

He became Director of Research for the South African Coal Mining Research Controlling Council in 1963, a post he held for the next three years, directing research into the stability of South African coal mines. He was then appointed Director of the Collieries Research Laboratory of the Chamber of Mines of South Africa, and since 1974 has been Research Adviser to the Chamber of Mines of South Africa and Director General of its Research Organization. He is therefore responsible for research and development on behalf of the South African mining industry. (The budget of the Research Organization for 1984 is about 35 million rands.)

Professor Salamon has contributed about 70 papers to the technical literature, and has been co-author of two books on rock mechanics problems in mines.

He was joint recipient in 1971 of a Gold Medal of the Associated Scientific and Technical Societies of South Africa, which is the premier scientific award in South Africa. He was also awarded a Gold Medal (1964) and Certificate of Merit (1965) of The South African Institute of Mining and Metallurgy.

In 1979 the Council of the University of the Witwatersrand appointed Dr Salamon (as he then was) as Honorary Professor in its Department of Mining Engineering.

Professor Salamon is a member of Council of The South African Institute of Mining and Metallurgy, and served as its President in 1976-1977.

Mintek reports

The following reports are available free of charge from the Council for Mineral Technology, Private Bag X3015, Randburg, 2125 South Africa.

● Report M119

A versatile computer programme for data capture in multi-element analysis by a sequential X-ray spectrometer.

The X-ray Section at the Council for Mineral Technology (Mintek) has a programme that enables all parts of the instrument, such as the collimator, analysing crystal, detector, and filters, to be set automatically. However, this programme does not allow for the collection of intensity measurements for subsequent off-line calculation, or the multi-element analysis of successive batches of different materials.

A versatile computer programme has been written in BASIC to carry out these additional operations, especially with regard to the successive analysis of different batches of material. This feature permits more conti-

nuous, unattended operation of the instrument.

● Report M120

South African costs of equipment for the metallurgical industry (1983).

The average selling prices of the equipment used for metallurgical processing are given in the form of graphs, which are based on prices prevailing during the first quarter of 1983. Costs of materials of construction are also given.

● Report M125

Commissioning of an automated microphotometer used in spark-source mass spectrometry.

A description of the automated microphotometer and its operation is given, which includes measurement under computer control. Speed and precision tests indicate that the system is superior in every respect to that in which an analyst reads the photoplates in spark-source mass spectrometry.