

SPOTLIGHT

on the design of comminution processes

by B.K. LOVEDAY*

The South African Institute of Mining and Metallurgy hosted a School on 'The Practical Design of Comminution Processes' at Megawatt Park (near Johannesburg) on 14th to 16th May, 1991.

Derek Barratt, a Senior Consultant of Wright Engineers, Canada, and the main speaker, provided a good insight into how Wright Engineers design milling circuits, particularly large semi-autogenous mills. He was ably assisted by Jens Lichter of Allis Mineral Systems, who described some interesting examples of pilot-plant testwork and summarized South African milling practice. Mike Moys of the Witwatersrand University spoke on the influence of pulp viscosity on mill performance, and Johan Engelbrecht and Jeremy Bosman of Multotech

spoke on hydrocyclones.

Emphasis was placed on the design of large autogenous and semi-autogenous milling systems and on the testwork that is required for the design of such mills. The mechanical design of large mills is no longer considered to be a problem, and the economies of scale usually point to semi-autogenous circuits. The control of run-of-mine mills (as they are called in South Africa) has always been difficult, and this subject was addressed by a lively panel discussion.

Delegates came away with a much better understanding of how to set about designing a milling system for a new mining venture. The use of large-diameter (short-length) mills, which make use of liner systems with a long life, is now receiving increasing attention locally, particularly in the light of possible improvements in power utilization and higher labour costs.

* Anglo American Corporation of South Africa Limited, P.O. Box 61587, Marshalltown, 2107 Transvaal.

Book news

The following are available from Butterworths, P.O. Box 792, Durban 4000.

● *Income tax in South Africa*, by De Koker and Urquhart.

This two-volume major work contains more than 2150 pages. Subscribers receive annually a free tax handbook to provide a complete tax library.

<i>Volume 1</i>	<i>Volume 2</i>
1 Table of Cases	1 The Income Tax Act
2 Table of Sections of Income Tax Act	2 The Regulations
3 Extensive Commentary	3 Practice Notes
4 Index	4 Income Tax Rates
	5 Index
	6 Double Taxation Agreements

Price: R260 + GST + R8 handling = R301,80.

● *Estate planning in South Africa*, by Urquhart and Davis.

The work contains the following Acts, reproduced in full:

The Estate Duty Act	The Immovable Property Act
The Matrimonial Property Act	The Succession Act
The Wills Act	The Trust Monies Protection Act.
The Subdivision of Agricultural Land Act	

The commentary deals in depth with the concept, tools, and methodology of estate planning. The work focuses on the ways that numerous legislation has to be considered. Price: R135 + GST + R4 handling = R156,55.

● *Taxation of employees*, by Urquhart.

This work deals not only with fringe benefits, but covers all aspects of employee benefits, including, for example, deferred compensation and other retirement benefits. Details of many of the forms to be submitted by employers, together with explanations, are included. Share incentive schemes are also considered. In addition to the extensive commentary, the full text of the Basic Conditions of Employment Act is included. Price: R115 + GST + R4 handling = R133,95.

● *Value added tax*, by Urquhart, Lategan, and Legg.

Now a reality, VAT is to be introduced on 30th September, 1991. The work will be in a loose-leaf format with both the legislation and the commentary in English and Afrikaans. Price: R95 + GST + R3 handling = R110,35.

● *Company law service/Maatskappyeregdiens*.

Contains the Companies Act No. 61 of 1973, and the Close Corporations Act No. 69 of 1984. It also includes schedules, regulations, fees and forms, winding up regulations, amendments, a table of cases and indexes. Price: R95 + GST + R4 handling = R111,35.