

monds.

- (ii) 'TORCO-Breakthrough'. The treatment of refractory copper ore.

These proved to be both entertaining and informative and were well received.

At this stage the Chairman, Mr E. T. Wilson, joined the Meeting and apologised for his late arrival. He took the Chair.

Main Business

Talk by Mr D. MacLeod on 'The Gravity Concentration of Gold'. The Chairman introduced Mr MacLeod

and called upon him to address the Meeting.

Mr MacLeod gave a detailed account of the various aspects of gravity concentration methods of gold recovery as practised over the years in the gold mining industry in this country. He went on to describe the improvements in overall gold recovery that had been brought about in reduction plants on mines of the Anglo American Corporation which incorporated gravity concentration circuits.

This talk was well received and

resulted in numerous questions from the floor.

The Chairman called upon Mr G. J. C. Young to thank the guest-speaker. In his vote of thanks Mr Young congratulated Mr MacLeod on his excellent presentation of a subject of which the speaker obviously had considerable expertise.

Closure

The Chairman thanked members and visitors for their attendance and declared the Meeting closed at 6.00 p.m. after which refreshments were served.

NIM reports

The following reports are available free of charge from the National Institute for Metallurgy, Private Bag 7, Auckland Park 2006.

Report No. 1615

Fluorspar pellets. A survey of the world market and an assessment of future South African production.

Dwindling world reserves of metallurgical-grade fluorspar are causing concern about future supplies of CaF_2 to the steel industries. Because there are no substitutes that can compare economically with fluorspar, the use of pelletized acid-grade fluorspar is becoming increasingly

important.

A preliminary analysis of probable production costs indicates that South Africa should be able to produce metallurgical-grade pelletized fluorspar for export at an economically competitive cost, particularly if pellets with more than a 95% effective CaF_2 content are produced. An export market of at least 100 000 tonnes per annum (at a value of R4,34 million) could be contemplated.

Report No. 1621

Correction for matrix effects in the analysis of solutions by X-ray-fluo-

rescence spectrometry.

The technique described involves the insertion, in the solution to be analysed, of a solid disc containing the required element, and the use of the intensity thus obtained for matrix correction. It is applicable to the determination of elements heavier than titanium for which the internal-standard technique of matrix correction is not applicable and in which the matrix variations are unusually large. It has been successfully applied to the analysis of titanium, iron, and rubidium in solutions of widely varying matrices.

Notices

Questionnaire on Technicians

The Department of National Education's committee of enquiry into the education, training, utilization, and status of engineering technicians in the Republic of South Africa was established as a result of Resolution 6.3 taken at the Sixth Conference on Engineering Education: The Education and Training of Engineering Technicians.

This committee will be distributing a questionnaire on technicians to the employers of technicians. The Federation of Societies of Professional Engineers urge members who receive these questionnaires to co-operate by completing the questionnaire and returning it promptly.

Vraelys oor Tegnici

Die Departement van Nasionale Opvoeding se komitee wat ondersoek instel na die opleiding, gebruik en status van ingenieurstechnici in die Republiek van Suid-Afrika is gestig as gevolg van Besluit 6.3 wat geneem is tydens die Sesde Konferensie oor Ingenieursopleiding: Die Opleiding van Ingenieurstechnici.

Hierdie komitee sal binnekort 'n vraelys oor tegnici na werkgewers van tegnici stuur. Die Federasie van Verenigings vir Professionele Ingenieurs versoek lede wat hierdie vraelys ontvang, om saam te werk deur die vraelys te voltooi en onmiddellik terug te stuur.

Competition for Student Members of the South African Institute of Mining and Metallurgy

Each year the Institute offers a prize (or prizes should the entries warrant it) of up to R100 for the best paper or dissertation on a topic appropriate to the interests of the Institute. The competition is open to all Student Members of the Institute.

A Student Member who is in full-time study at a university may submit the dissertation or thesis he has to write in part fulfilment of his university degree, provided that it is presented in a manner and on a topic suitable for publication in the journal.

Entries for 1974 should reach the Institute by 31st December, 1974.