

Size fraction (Tyler mesh)		Mass (%)	Gold content g/t	Distribution of gold (%)
	+100	2,4	7,32	34,8
-100	+200	18,4	0,49	17,8
-200	+325	16,8	0,35	11,6
-325		62,4	0,29	35,8

Gold content of residue (assayed) : 0,58 g/t
 " " " " (calculated): 0,51 g/t

the quartz and other minerals; it can therefore be concluded that much more than 70 per cent by mass of the gold in the plus 100 mesh fraction is occluded in thucholite.

Examination of the various size fractions showed that the thucholite content (around 1 per cent) of the plus 100 mesh fraction is at least ten times higher than that of the finer fractions—further evidence

that the thucholite is indeed difficult to mill to fine sizes.

Because of the low gold content of the minus 100 mesh fractions, no reliable figures relating to the distribution of gold particles between the various minerals could be obtained. It is likely, however, that a considerable proportion of the gold in the finer fractions is also contained in the thucholite.

There can therefore be no doubt that research aimed at improving the recovery efficiency of gold from thucholite would be most worth while.

Notices

THE FEDERATION OF SOCIETIES OF PROFESSIONAL ENGINEERS

It is expected that the National Institute of Personnel Research will be conducting a project, at the request of the Federation, to establish the relationship, if any, between the academic and professional achievements of engineers.

The Federation therefore requests those members of the Institute who become involved in this project to co-operate with the researchers.

INFACON 74

The National Institute for Metallurgy, the South African Institute of Mining and Metallurgy, and the Ferro Alloy Producers' Association of South Africa will hold an International Ferro-alloys Congress in Johannesburg from 22nd to 26th April, 1974.

It is the aim of INFACON 74 to stimulate technical interchange on all aspects of ferro-alloy production, and the Congress will include visits to many ferro-alloy plants, where delegates will have an opportunity of seeing the latest developments in production in this country.

Technical Sessions

The technical sessions will cover a wide range of topics in ferro-alloy technology and production, and will include the following.

1. Burden preparation, blending, pelletization, handling, reducing agents.

2. Electric smelting furnaces—design, operation, management, smelting optimization, shop practice, refractories.
3. Mineralogy, reduction behaviour, smelting reactions, slags.
4. Automation, pollution control.
5. Applications, trends in consumption, trends in composition specifications.

There will be no parallel sessions, and provision will be made for panel discussions and informal meetings.

Guest Speakers

Dr J. Nasu—Awamura Metal Industry Co., Japan

Mr W. H. Magruder—Union Carbide Corp., U.S.A.

Mr R. Björklund—A/B Ferrolegeringar, Sweden

Mr H. Franke—Gesellschaft für Elektrometallurgie, West Germany.

Registration

Registration closes on 28th Feb., 1974. Forms are obtainable from The Secretary, Organizing Committee, INFACON 74, Private Bag 7, Auckland Park, Transvaal.

INTERNATIONAL PLATINUM SYMPOSIUM OF THE SOCIETY OF ECONOMIC GEOLOGISTS

The above symposium is to be held at the U.S. Geological Survey, Denver Federal Center, Denver, Colorado, from 13th to 17th October, 1975. Papers up to 40 double-spaced typewritten pages in length, including tables and figures, are

invited, and those accepted will be published in the journal *Economic Geology*. Titles of papers should be submitted now. The subject matter of the symposium includes the occurrence of individual deposits, the regional and tectonic setting and worldwide distribution of rocks containing notable concentrations of platinum-group elements, the geochemistry of platinum-group elements, exploration techniques, resources, and reserves.

Enquiries should be directed to George A. Desborough, Convenor, U.S. Geological Survey, Bldg. 25, Denver Federal Center, Denver, Colorado 80225, U.S.A.

THIRD MEETING—CANADIAN HYDROMETALLURGY GROUP

The Hydrometallurgy Group of the Metallurgical Society, Canadian Institute of Mining and Metallurgy, will hold its Third Annual Meeting, October 1 and 2, 1973, at Edmonton Alberta.

Emphasis will be on nickel metallurgy and a field trip to the Sherritt-Gordon plants at Fort Saskatchewan is scheduled for October 2 as part of the Meeting programme.

For more information, contact Mr G. van Weert, Secretary of the Hydrometallurgy Group, Falconbridge Nickel Mines Limited, P.O. Box 900, Thornhill, Ontario L3T 4A8, or Mr H. Veltman, Sessions Chairman, Sherritt-Gordon Mines, Fort Saskatchewan, Alberta.

COLLOQUIUM ON THE CONSTRUCTION OF SLIMES DAMS

The Institute has arranged a two day colloquium on the above topic, to be held on November 14th and 15th, 1973, at Kelvin House. The following Programme has been arranged:

November 14th.

9.30-1.00 p.m.:

'A review of slimes disposal practice on South African Gold Mines', by M. Mrost.

'Theoretical and engineering aspects of slimes-dam construction', by G. W. Donaldson.

'Legal aspects of the construction of slimes dams', by N. Orsmond.

2.00-4.00 p.m.:

'Modifications necessary in slimes-

dam construction if bacterial leaching is employed', by Dr Lloyd.

'The flotation tailings disposal dams at Rustenburg Platinum Mines Ltd (Rustenburg Section)', by P. N. Roberts and A. R. Wessmann.

'Tailings dam—Consolidated Murchison Ltd', by H. J. N. Winhoff.

November 15th.

9.00-1.00 p.m.:

'Economics and practice of slimes-dam construction on gold mines', by W. J. Ruhmer.

Contribution from the 5 groups and Frazer-Alexander.

Contribution from Anglo-American by B. Hendry.

'Ecological aspects of slimes-dam construction', by H. T. Clausen.

2.00-4.00 p.m.:

'The Rhodesian approach to slimes-dam vegetation', by J. E. Wegner, J. R. C. Hill, and W. F. Nathard, of Mangula Mine, Rhodesia.

'The impact of slimes-dam formation on water resources and water pollution', by L. D. Hobbs.

Members of the Institute who would like to make a contribution to the Colloquium are invited to submit their suggestions to the Chairman of the Organizing Committee, Dr R. E. Robinson, National Institute for Metallurgy, Private Bag 7, Auckland Park, Johannesburg, (Telephone 725-4200), as soon as possible.

Company affiliates

The following members have been admitted to the Institute as Company affiliates.

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Amalgamated Collieries of S.A. Limited.

Apex Mines Limited.

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