

General Meeting and Colloquium

A General Meeting, followed by a Colloquium on 'Pilot plants and problems of scale-up', was held on 22nd March, 1978, in the Main Hall, Kelvin House, Johannesburg.

The President, Mr P. A. von Wielligh, opened the meeting at 09h15. He thanked the authors and contributors for their co-operation, and announced the names of the undermentioned candidates, who had been admitted to membership of the Institute:

Fellow: M. G. Adamson, L. Alberts, W. H. Farthing, A. J. Hartner, J. S. Hope, B. J. Lawrenson, I. P. Olivier, J. S. Redpath, D. W. Rodolff, H. Schweigart, N. J. Slabbert, J. van der Walt, C. C. White.

Member: E. Barnardo, Z. R. Charlton, L. A. Cramer, J. P. Gilleard, B. D. Mathews, D. A. Miller, A. R. Minty, I. G. Price, B. R. Rohmann, R. W. Way.

Associate Member: M. J. de Lange, R. M. Green, N. McDonald, R. N. Taylor.

Associate: B. C. Bailie, W. K. Brinsden, S. J. M. Caddy, F. J. H. Gelderblom, A. D. J. Grove, P. G. Guernier, B. H. Hodder, G. M. Mansfield, P. Pretorius, J. D. Smit.

Graduate: J. H. Andrew, M. D. S. Blois, H. D. R. Browner, P. F. Bruce, A. J. Davies, R. F. Dewhirst, A. J. Dixon, N. J. Handley, P. J. Kilburn, I. A. MacFarlane, R. J. R. Meade, A. G. Ramsay, R. G. Riggir, D. B. Sasson, T. Schmoll, P. Shilton, J. A. Smith.

Student: C. S. Assad, F. K. Bader, E. J. da Silva, D. J. du Toit, R. G. Fagan, P. H. Ferreira, A. N. Greeve, C. J. Gross, B. S. Hammond, G. R. Hunter, A. C. Johnson, P. G. Kahles, W. J. Kotze, G. M. S. Maas, H. J. Marais, P. Millan, G. Nicholson, R. L. Procter, C. A. Smal, T. A. van den Heever (Miss), A. M. Vosloo.

Company Affiliate: Hubert Davies Construction Limited.

Transfer to Fellow: M. F. Fleming, J. A. Tyser, H. V. R. von Rahden.

Transfer to Member: N. A. Barcza, H. F. Bartels, F. G. Evans, W. H. Hofmeyr, P. A. Noble, D. P. O'Shaughnessy, P. C. van Aswegen, A. J. van den Berg, J. J. Versluis, H. G. Waldeck, C. H. Wiggett, R. Winby.

Transfer to Associate: D. B. Wait.

Transfer to Graduate: R. C. Buchanan, W. G. Grimsley, R. G. Jurd, J. d'A. Kirkman, J. E. Olivier.

In his opening address, the President said the following.

'I would like to welcome you all here today to the first Metallurgy Colloquium on Pilot Plants and Problems of Scale-Up. This is yet another in the programme of colloquia on which we embarked some seven years ago. It is a decision that we, the members of Council, believe to have been rewarding and of considerable benefit to our members. It is good to see so many people here today. The response was so good that we had to turn many away since the capacity of this hall is only 230 delegates.

'This is the first time for a long while that we have had three foreign speakers. I extend a special welcome to

Les Engle and Jun Kitagawa, both of the United States and to Hans Skretting from Norway. My special thanks to the Technical Programme Committee, Metallurgy, chaired by Dr Jochens, whose efforts and organization made this series of colloquia a reality.

'Today's programme includes the presentation of seven papers. It is of interest to note that Dr Loveday's paper will also be presented at the Eleventh Commonwealth Mining and Metallurgical Congress in Hong Kong in May this year. Special permission has been obtained to present this paper today.

'A situation has developed in South Africa through which we are denied the usual free access to top-class technology in certain fields; although this is a handicap, it has also been a motivating force. Furthermore, we have grown and advanced in technology to such an extent that the need arises to set up our own pilot plants. Today's papers are proof of the co-operation we enjoy and the extent to which our own technology has evolved. This country is blessed with vast mineral resources, but their exploitation requires the skills and expertise of persons possessing technological refinement of a high order.

'Gentlemen, before I hand over to the Chairman of this morning's session, I must remind you that this Colloquium has required a great deal of hard work behind the scenes, and on your behalf I wish to thank all those who assisted directly or indirectly. I would like to remind you that, on 13th September this year, there will be a colloquium on "Recent advances in gold extraction", which is being organized by the same committee.

'It gives me pleasure to declare this colloquium open and to hand over to your chairman for this morning's session, Dr Lloyd, who is so well known in the mining and metallurgy industry that he needs no further introduction.'

The following papers were presented at the colloquium: Data, designs, and decisions — the usefulness of pilot plants, by L. F. Engle, Davy Powergas Inc.

Metallurgical test programmes for mine-plant projects by J. Kitagawa

Prediction of autogenous milling performance from pilot-plant tests, by B. K. Loveday, National Institute for Metallurgy

A pilot-plant investigation of a kinetic model for flotation, by R. P. King, Department of Metallurgy, University of the Witwatersrand

Pressure leaching of uranium-bearing Witwatersrand ores, by H. Bovey and L. N. Stewart, Anglo American Corporation of S.A. Limited

Electric smelting on pilot versus industrial scale, by J. Gunderson and H. Skretting, Elkem-Spigerverket a/s.

Pilot-plant data for fine-coal beneficiation plant, by D. W. Horsfall, Anglo American Corporation of S.A. Limited.