

Infacon 74

Members are reminded of the International Ferro-Alloys Congress that is to take place in Johannesburg between 22nd April and 1st May, 1974. The Congress is being held jointly by the National Institute for Metallurgy, the Ferro Alloy Producers' Association of South Africa, and the South African Institute of Mining and Metallurgy. Correspondence and enquiries should be addressed to The Secretary, Organizing Committee, INFACON 74, Private Bag 7, Auckland Park 2006.

The following is the programme of technical sessions.

MONDAY Opening ceremony: Dr the Honourable P. G. J. Koornhof
22nd April

Guest speaker

J. Nasu: Awamura Metal Industry Co. Ltd, Japan.

Technical trends of ferrochromium in Japan

SECTION 1 — BURDEN PREPARATION

Manufacture and use of pre-reduced chrome ore pellets — Y. Otani and K. Ichikawa: Showa Denko K.K., Japan.

Experiences and operational results made with a chromium ore pelletising plant based on the Lepol process — E. Lankes and W. Boehm: Polysius A.G., W. Germany.

A new technique of burden preparation for ferro-alloy production — A. Grieve, R. F. Jennings, P. H. Nelson, and K. Kato: Simon Carves Ltd, England.

SECTION 2 — SPECIFIC PROCESSES

The production of ferrosilicon powder for heavy-media separation — M. Sciarone: Metalloys Limited, South Africa.

Reduction of chromite fines with ferrosilicon — W. Bleloch: Private Consulting Engineer, South Africa.

Manganese alloy production by the sintering process — W. Naruse: Nippon Denko Co. Ltd, Japan.

TUESDAY
23rd April

Guest speaker

H. Franke: Gesellschaft für Elektrometallurgie m.B.H., West Germany.

Production of medium carbon ferrochromium in a bottom blowing converter and its application in stainless steel production.

SECTION 3 — ELECTRIC SMELTING FURNACES

Development of 50% Si Fe—Si smelting by the ore process with a large closed type electric furnace — Y. Tada, T. Yamada, and Y. Hosoi: Yahagi Iron Co., Japan.

Totally closed electric furnace for 75% ferrosilicon production — K. Horibe: Joetsu Electric Furnace Industry Co. Ltd, Japan.

Resistance and heat distribution in a submerged arc furnace — J. Westly: Elkem-Spigerverket a/s, Norway.

Integrated production system for making manganese ferro-alloys — T. Tomioka, M. Misawa, and T. Hanano: Japan Metals and Chemicals Co. Ltd, Japan.

Electric smelting furnaces in Southern Africa — S. G. King: Private Consulting Engineer, South Africa.

A comprehensive analysis of furnace interior for high carbon ferrochrome — K. Yamagishi, K. Endo, and J. Saga: Nippon Kokan K.K., Japan.

Comparison of power factor correction on submerged arc furnaces by capacitors in shunt and series — J. Meintjes: Rand Carbide Limited, South Africa.

WEDNESDAY
24th April

Guest speaker

R. T. Hooper: Tasmanian Electro Metallurgical Co. Pty Ltd, Australia.

Optimum utilization of raw materials in manganese smelting.

SECTION 3 — ELECTRIC SMELTING FURNACES (cont.)

The technical development of Amcor Limited, with particular reference to the production of ferro-alloys — J. J. Coetzee: Amcor Management Services (Pty) Ltd, South Africa.

Computer control of electric smelting furnaces — A. G. Arnesen: Elkem-Spigerverket a/s, Norway.

THURSDAY
25th April

Guest speaker

R. Björklund: A/B Ferrolegeringar, Sweden.
Chemistry of chrome alloys for new stainless steel processes.

SECTION 4 — FUNDAMENTAL ASPECTS

Chromothermic reduction of chromite — E. Cohen and T. Yalcin: Royal School of Mines, England.
Liquidus temperatures and activities of manganese(II) oxide in slags associated with the production of high-carbon ferromanganese alloys — G. F. Warren and P. R. Jochens: National Institute for Metallurgy, South Africa, and D. D. Howat: University of the Witwatersrand, South Africa.

Crystallisation processes in a high carbon ferrochromium slag — A. Hayhurst: Vereeniging Refractories, South Africa.

Laboratory investigation of the smelting mechanisms associated with the production of high-carbon ferrochromium — R. C. Urquhart and P. R. Jochens: National Institute for Metallurgy, South Africa, and D. D. Howat: University of the Witwatersrand, South Africa.

Slag-metal relationship in Metalloys high carbon ferro-manganese furnaces — S. Selmer-Olsen: Amcor Management Services (Pty) Ltd, South Africa.

Liquidus temperatures, viscosities, and electrical conductivities of slags in the system $MgO-Al_2O_3-SiO_2$ associated with the production of high-carbon ferrochromium and ferrochromium-silicide alloys — G. H. Johnston and P. R. Jochens: National Institute for Metallurgy, South Africa, and D. D. Howat: University of the Witwatersrand, South Africa.

Viscosities and electrical conductivities of slags associated with the production of high-carbon ferromanganese — L. C. Woollacott and D. D. Howat: University of the Witwatersrand, South Africa, and P. R. Jochens: National Institute for Metallurgy, South Africa.

FRIDAY
26th April

Guest speaker

W. H. Magruder: Union Carbide Corporation, U.S.A.
The impact of energy availability and pollution control regulations on the ferroalloy industry.

SECTION 5 — POLLUTION CONTROL

Pollution abatement of ferroalloy furnaces in the United States — R. A. Person: Union Carbide Corporation, U.S.A.

Pollution problems in the ferroalloy industry when using electrical reduction furnaces — A. Lomo: Elkem-Spigerverket a/s Norway.

SECTION 6 — APPLICATIONS AND TRENDS

Applications of Mamatwan manganese ore — R. A. Featherstone: Ferrometals Limited, South Africa.

The production of ferrosilicon chromium by the single-stage process — P. W. Clark: Rhodesian Alloys Limited, Rhodesia.

Trends in the Western World ferrochrome market — H. J. R. Way: Johannesburg Consolidated Investment Company Limited, South Africa.

Discussion panel: *Factors affecting the future of the ferrochromium industry.*

The gold deposits of the farms Lisbon and Berlyn in the Eastern Transvaal

by V. C. H. R. BRERETON.

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AUTHOR'S CORRECTIONS

The following amendments should be made.

page 128, 1st line: **Berlyn** should read **Lisbon**.

page 128, 2nd and 5th lines of **CLAIMS OWNERSHIP**: **Hob Mining Company** should read **Consolidated Chrome**.

page 129, Fig. 3: **Hob M. Co.** should read **Consolidated Chrome**.