

**The Institute of British Foundrymen
94th Annual Conference**

**'Management of Foundries
in a Changing Environment'**

26/27th June 1997

**Moat House Hotel
Stratford-upon-Avon**



The Institute of British Foundrymen

UB/TIB Hannover 89
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Castcon '97

The Institute of British Foundrymen's 94th Annual Conference

'Management of Foundries in a Changing Environment'

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Moat House Hotel
Stratford-upon-Avon

The following is a listing of papers presented in these proceedings. Those that were unavailable at the time of going to press are not included.

Session A Waste Management
10.00 am - 11.30am

Thursday 26th June 1997
Technology

Sustainable development: The implications and opportunities for the foundry industry
Dr Allen Clegg, Loughborough University (UK)

A report on the carrier programme for the recycling of ferrous wastes from within the foundry industry
John Sharp, Triplex Lloyd Plc (UK)

New Technology
14.15pm - 15.45pm

Use and application of real time shot control in pressure diecasting
Dan Lloyd, Buhler Limited (UK)

Research
16.15pm - 17.15pm

Major R & D activities at the Institute of Materials Engineering TU Brno - Serving to the foundry industry
Dr Milan Horacek, Dr Jaroslav Cech, Dr Jaromir Roucka, Dr Ludek Ptacek, Technical University Brno (Czech Republic)

The Interactions between mould and metal during the solidification of cast iron
Markus Henkel, Siegfried Engler, Aachen University (Germany)

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Session B Improving Productivity
10.00am - 11.30am

Management of Technology

Rapid prototyping using the investment casting process
Jurgen Gabriel, Thyssen Guss AG (Germany)

The commercial production of MMC components
Paul Niskanen, Lanxide Performance Materials (USA)

Training
14.15pm - 15.45pm

Competitiveness, commitment and competence
Derek Lewis, sponsored by The Voya Kondic Foundry Educational Trust (UK)

Assessment as a basis for the development of foundry managers
Keith Robinson, Walton Churchill plc (UK)

Czech foundry industry - State of art, training and education, R & D activities
Dr Milan Horacek, Tech Univ Brno; Dr Tomas Elbel, TATA Koprivnice (Czech Republic)

Environment Management
16.15pm - 17.15pm

Establishing an environmental management system to satisfy BS EN ISO14001:1996 in a foundry
Ron Lyon, Chronserve Management Systems (UK)

Management of foundries in a changing environment
Angus Bishop, Airmaster Engineering Ltd (UK)

Session A Application of Computer Technology
9.30am - 11.30am

Friday 27th June 1997
Technology

Search of a new technology and its optimisation using an original numerical model
Frantisek Kavicka, Tech Univ Brno; Josef Stetina, Tech Univ Brno; Jay M Khodadadi, Tech Univ Auburn (USA)

Casting process simulation, a practical tool for the foundryman?
Simon Olive, MAGMA GmbH (Germany)

Cast-aid: A complementary partner to numerical modelling of casting simulation
Keith L Preddy, B Knight, D F Cowell & T J Mileman; Foundry Process Tech Group, Univ of Greenwich (UK)

Impact of Material Developments

14.15pm - 16.15pm

In the mould inoculation - an exciting development for an established practice

Jerry N Harvey & S J Rooney, Tennant Metallurgical Ltd (UK); Alain Rouam, Le Laboratoire Metallurgique (France)

Automation of magnesium cored wire injection to produce ductile iron

Richard Reisinger, Odermath Stahlwerkstechnik (Germany); David Holmes, Odermath (UK)

Session B Future Issues

9.30am - 11.30am

Management of Technology

Profitability management of health and safety in the foundry industry

Vic Taylor, Health and Safety Consultant, Birmid Holdings Ltd (UK)

Kent Aerospace to Aeromet

Ian Cooper, Aeromet International plc (UK)

Quality Systems

14.15pm - 16.15pm

The networked foundry as the basis of quality management and optimal production planning

Heinz Nitsch, Laempe GmbH (Germany)

QS-9000 - A catalyst for change

David Scrimshire, TEC Transnational Ltd (UK)

Integrated computer systems for the foundry business

Mark Morgan, JBA Associates