



Furnace Solutions - Conference and Training Day

Neil Simpson

Chairman of the SGT Melting Technical Committee

Furnace Solutions

Conference and Training Day



Glass Reflections
Glass Reflections

Glass in the Year of Eight; Cambridge 7-9 Sept 2015





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In the summer of 2005 the Melting Technical Committee of the Society of Glass Technology launched a one-day event focused on that essential element of industrial glassmaking - the furnace.

Held in Stoke-on-Trent, the heartland of the British Ceramics industry, this seminar gave the opportunity for all concerned with glassmaking furnaces to focus on the technical issues of furnaces, their problems and available solutions.



Lucideon, the Stoke-on-Trent venue for the Furnace Solutions series of events



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This initial Furnace Solutions seminar was a great success, and all who participated were enthusiastic about it becoming an annual event. It continued and grew, attracting support from glassmakers, furnace engineers, the energy community and the suppliers of essential high-temperature refractories.

More recently, a Training Day was added to the programme, and Furnace Solutions became a two day event.

So, Thursday 4th June 2015 saw the Tenth Furnace Solutions [FS10] conference at Lucideon in Stoke-on-Trent.

It attracted eminent speakers and a population of delegates which filled the lecture room to capacity.

Topics were wide ranging, as you will see from the conference programme on the next slide



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Programme for the Furnace Solutions 10 conference

Morning Session Chairman: Nigel Longshaw

- 10.00 Welcome**
Reiner Bonsmann General Manager (Lucideon, UK)
- 10.15 Unexploited Potentials of Heat Recovery in the Container Glass Industry**
Dr Hansjürgen Barklage (ZIPPE Industrieanlagen, Germany)
- 10.45 Operating Experience from a Commercial Glass Furnace**
Joaquin de Diego Rincon (Praxair, Spain)
- 11.15 Coffee break**
- 11.45 The Melting and Refining of Low Iron Float Glass**
Gerry Miller (MGM Glass Melting, UK)
- 12.15 Furnace Design Optimization; Experience Benefits from Modeling**
Andries Habraken* (CelSian Glass & Solar, The Netherlands) Peter Milsom (Fives Stein UK) *Speaker
- 12.45 An Update on New Developments in Fused Cast Refractories**
Roland Heidrich (RHI GLAS, Germany)

Afternoon Session Chairman: Gary Laird

- 14.15 SGT business**
- 14.30 What is the Best Burner for Your Glass Furnace?**
Alain Grangeret (AG Gas London, UK)
- 15.00 Intelligent Furnace Design and Control to Increase Overall Glass Furnace Efficiency**
Menno Eisenga* Erik Muijsenberg (Glass Service, Czech Republic) *Speaker
- 15.30 Tea break**
- 16.00 Would You Like a Service with Your MOT?**
Neil Simpson (Simpson Combustion and Energy, UK) Mark Pudner (GTS, UK)
- 16.30 Presentation of 'The Michael Garvey Award' (-for the day's best paper.)**
Courtesy of Guardian Industries Corporation
- 16.45 Close**



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The Training Day was held the day before the conference:

Glass Quality:

From raw materials to furnace operation

Prof. John Parker (Sheffield Univ.):

Fundamentals of glass melting and refining reactions

Nicola Johnson (Calumite Ltd), Alan Reynolds:

The importance of raw materials

John Osborn:

Container glass quality and the effect of cullet

Geoff Evans (GlasRef Consulting):

Float glass quality - the impact of furnace operation

Les Gaskell (PSR Ltd.):

The design and operation of distributors and forehearth

Nick Kirk (GTS):

Glass fault identification

Next year, we are planning to hold our Furnace Solutions FS11 on Thursday 9th June and hold our Fourth Training day on the previous day (Wednesday 8th June).

As 2016 is the Centenary of the SGT, we will also be holding a special one off 'Furnace Solutions – FSC' to coincide with the SGT/ESG conference in Sheffield on the 8th September 2016.

We will be inviting all previous recipients of the Garvey Award to present papers and prominent leaders from industry to speak at this important, and unique, event.



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The SGT Melting Technical Committee wishes to record its grateful thanks to the companies and organisations which have sponsored the 2015 event



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