



WORKSHOPS 2009

June 11-12



WS 02: Milestones to better understand the Flat Glass Business (history - today - tomorrow)

Presenter: Bernard Savaète, BJS.Différences

Course Summary

The seminar will provide basic knowledge, for new comers into flat glass business and will provide for connoisseurs an opportunity to challenge their paradigms.

The seminar will be an event where will be set up the synthesis between history of flat glass industry, history of flat glass products and today worldwide market with cross-enterprise and cross-culture perspectives to better understand our global business.

Bullet Point Summary

- Glass as a 5000 years old material
- Float glass, 40 years of major changes in Europe and key players of the global flat glass business
- A window through 100 years of automobile glazing
- Coatings on glass (including mirrors), key companions of glass body
- IG units (yesterday, today and tomorrow)
- Two key safety glass products: laminated and tempered glass, from amusement to necessity
- Patents, a knowledge sourcing
- Some challenges for Europe and global flat glass industry

WORKSHOP LOCATION:
UNIVERSITY OF TAMPERE, PINNI B
KANSLERINRINNE 1

Course timetable - Thursday 11.6.2009

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|-------|--|-------|---|
| 9.00 | Introduction <ul style="list-style-type: none">• Glass as a 5000 years old material | 13.55 | 5th session <ul style="list-style-type: none">• IG units (yesterday, today and tomorrow)• Two key safety glass products: laminated and tempered glass, from amusement to necessity |
| 9.55 | Coffee/tea | 14.50 | Coffee/tea |
| 10.10 | 2nd session <ul style="list-style-type: none">• Float glass, 40 years of major changes in Europe• Key players of the global flat glass business | 15.05 | 6th session <ul style="list-style-type: none">• Patents, a knowledge sourcing• Some challenges for Europe and global flat glass industry |
| 11.05 | 3rd session <ul style="list-style-type: none">• A window through 100 years of automobile glazing | 16.00 | End of Workshop |
| 12.00 | Lunch | | |
| 13.00 | 4th session <ul style="list-style-type: none">• Coatings on glass, key companions of glass body | | |

Registration for Workshops at www.gpd.fi





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THURSDAY 11 June

Structural Properties of Laminated Glass

Presenters: S. J. Bennison & I. Stelzer,
E.I. DuPont de Nemours & Co. Inc

Milestones to better understand the Flat Glass Business (history - today - tomorrow)

Presenter: B. Savaëte, BJS. Différences

Industrial Glass Coating Technologies and systems powered by nanotechnology (Beneq)

Presenter: M. Saikkonen, Beneq Oy

Glass Tempering Process (level1): Fundamental steps in tempering and machine test runs

Presenters: V-J. Kuusiniemi & T. Pesonen & M. Äppelqvist & S. Suominen, Glaston Finland Oy

Glass Bending & Tempering process: Theory and machine test runs

Presenters: V-J. Kuusiniemi & T. Pesonen & M. Äppelqvist & S. Suominen, Glaston Finland Oy

Laminating of Heat treated and other speciality glass

Presenters: M.P. Verleyen, Solutia Europe; M. Rantanen & J. Ala-Savikola, Glaston Finland Oy; R. Giovannini, Glaston Italy; A. Uusikartano, Suomen Turvalasi Tambest; C. Bostick, Consulting Architects; J. Gilleeney, Independent Glass

Glass processing basics for Solar industry specialists

Presenters: R. Nieminen, Glaston America Inc.; I. Hiekkanen & T. Pesonen, Glaston Finland Oy

Understanding glass strength, stress analysis and design methodologies for architectural glass

Presenter: Dr. L. Jacob, Jacob & Associates Pty Ltd.

FRIDAY 12 June

Cutting, Grinding, Washing: Three fundamental steps in Float Glass Processing

Presenters: P. Pokoern, Bohle AG; M. Emonds, ACW

Coated Glass - Applications and markets

Presenter: S. Nadel, Applied Materials

Seeing Through Glass Design

Presenter: C. Bostick, Consulting Architects

Basics of Glass Coating Processes and Coated Glass

Presenters: P. Vuoristo & T. Mäntylä,
Tampere University of Technology

Digital Printing on Glass

Presenters: Y. Ninyo & T. Salenius, DIP Tech Ltd.

Glass Tempering Process (level2): Glass Factory profitability and tempering technology know-how

Presenters: V-J. Kuusiniemi & T. Pesonen & M. Äppelqvist, Glaston Finland Oy; F. Serruys, Saint-Gobain Glass Solutions

Profitability of a Glass Processing Factory

Presenter: K. Heikkilä, Glaston Singapore

Solar Power - Opportunities for the glass industry

Presenters: R. Nieminen, Glaston America Inc.; I. Hiekkanen, Glaston Finland Oy; M. Rajala, Beneq Oy; A. Karpinski, Kuraray Europe GmbH; O. Mal, AGC Flat Glass; B. Szyszka, Fraunhofer IST; S. Byers, Ritec International Ltd.; V. Geyer, Scheuten Solar; G. Strij-Hipp, BSW Solar

New trends in the Infrared Non-contact Temperature Measurement for the glass industries

Presenters: R. Gärtner & E. Drews, Raytek GmbH

Registration for Workshops at www.gpd.fi

