

Practice-Oriented Innovation Platform

The Special Show glass technology live as part of glasstec 2010 will again give far-reaching insight into the future of glass products and applications. Under the motto "Energy Efficiency with Glass" the innovation showcase will this year focus on building skins.

Highly efficient functional glass and the innovative structures into which it is incorporated form an integral part of modern architecture. Their interplay makes it possible to realise buildings with maximum transparency, high functionality and up-to-date energy efficiency. From all-glass façades and structural glass construction to building-integrated photovoltaic systems – glass is the only construction material that makes forward-looking architecture possible. When it comes to thermal protection in summer architects, façade builders and glass finishers will in future be faced with special challenges by the “convergence” of multi-functional insulation glass with variable air-handling and solar protection components as well as by the integration of PV elements in building skins.

Trend-Setting Impulses

The products and façade concepts required for maximum energy efficiency will be on display from 28 September to 1 October at glasstec 2010 as part of glass technology live. For years now the Special Show has formed an integral part of the world's most important glass trade fair, thereby ideally complementing the innovative glass products and processing technologies presented in Halls 9 to 17 of the Düsseldorf Exhibition Centre. The innovation show has long developed into one of the key pointers for the sector. Many of the visionary products and applications on display at previous gtl Shows determine the look and feel of modern façade and glass architecture today.

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Under the motto “Energy Efficiency with Glass” Professor Stefan Behling, Senior Partner at the London architectural office Foster and Partners, and his team from the University of Stuttgart will again be present pioneering exhibits. These go far beyond mass-producible products and will decisively co-determine the future of glass products and their development potential both in technical and aesthetic terms. On a space measuring 2,500 m² glass technology live 2010 will showcase impulse-generating production developments, innovative applications and architectural visions from the development departments of renowned companies, the research groups of famous universities and the laboratories of leading institutes. The focus is always on new application and design options for building skins. According to the team of organisers from the Stuttgart University this year’s edition of glass technology live will revolve around energy-efficient and energy-saving façade concepts integrating latest photovoltaic and solar thermal systems in aesthetical architecture. Glass also holds great potential for multi-media applications. On show in Düsseldorf amongst other highlights will be the features of modern media façades.

Large Spectacular Exhibits

Other focal themes of this Special Show include structural glass building, thermal and solar protection as well design and aesthetics. The engineering and structural glass segments will once again have spectacular exhibits in store going far beyond the customary dimensions of glass panes. Laminated toughened glass measuring over 20 metres in length plus insulating glass over 18 m long will give impressive proof that glass manufacturers are well prepared for the architectural trend towards ever larger glazing units. Also in focus in this exhibition area: newly developed joining techniques.

Revealing insights into the future of glass will also be provided in the area themed around thermal protection for summer and winter. Here the choice of exhibits ranges from extremely efficient insulating glass and switchable glass to the latest generation of thin-film PV cells

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The themes covered by the Special Show all come under the heading of sustainability, which is of ever greater importance. glass technology live 2010 will illustrate the concepts used in the flat and container glass industries to save natural raw material resources.

High-Calibre Scientific Symposium

Held once again concurrently with the Special Show is the high-calibre scientific symposium organised with familiar partners from industry and professional associations. 60 technical lectures with various focal themes spread over four days will feature renowned speakers from leading research institutes, associations, enterprises and architect's offices presenting the latest developments in the sector. The subjects covered here range from energy-efficient container glass production and innovative manufacturing processes for flat glass to new approaches for energy-saving and generating glass applications and sustainable architectural concepts. Additionally, the theme "Multi-Functional Solar Products: Technologies – Products – Applications" will also be elaborated on in technical talks. In 2010 this unique combined event, which is free to trade fair visitors, will again attract glass experts from throughout the world as well as numerous architects, designers, planners and building owners.



Accompanying Congresses

In addition to the Special Show glass technology live Messe Düsseldorf has launched a "FaçadeCenter" for the first time this year involving renowned associations and scientific institutions for the presentation of pioneering façade technology.

Addressing construction engineers, designers, research and development staff and building authority representatives, trade fair organisers in cooperation with the Dresden, Darmstadt and Delft Universities of Technology will be holding a two-day conference on

the topic of “engineered transparency” to complement the exhibited ranges with hands-on information on the latest developments in the structural use of glass. The line-up of side events for glasstec is rounded off by the Architectural Congress “Glass is Energy” held in cooperation with the North Rhine-Westphalian Chamber of Architects, Delft University of Technology and Ost-westfalen-Lippe University which is recognised as continuous education.

For further information on the Special Show glass technology live, the accompanying Symposium and the scientific congresses go to www.glasstec-online.com

Photos/Captions

Photo 1:

Translucent solar cells generate energy in the façade and double for shading and solar protection. glass technology live 2010 pre-sents new concepts for façade-integrated photovoltaics. Photo: Rene Tillmann/ Messe Düsseldorf

Photo 2:

The structural use of glass in buildings creates maximum transparency. This exhibit at glass technology live 2008 provided impressive proof of the loads such glass structured can be exposed to. Photo: Rene Tillmann/ Messe Düsseldorf

Photo 3:

Spread over four days the accompanying scientific symposium featuring approx. 60 speakers will highlight the latest developments

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and trends in glass products, glass manufacturing and applications.

Photo: Rene Tillmann/ Messe Düsseldorf

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