

PRESS RELEASE

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Date 20 May 2014

fensterbau/frontale 2014

Review of the Special Exhibition (Sonderschau) and Symposium "Vibrant research for vibrant lives"

At the "fensterbau/frontale 2014" held this year, the focus was on research that drives progress and ensures the basis of the technological head start and financial success. This is why interesting projects of the "Zukunft Bau" research initiative and findings of innovative research by manufacturers were presented at the Special Exhibition. These covered the range from high-performance joining technique in glass construction to photo bioreactors integrated in facades and right up to automatic ventilation including a user-friendly calculation tool. The volume of documentation on the special exhibition contains information of interest on the research projects and dares to have a glance into the future of windows in the year 2030.

One attraction for the visitors was the "avenue for experiments", which made the fundamentals of research and physical correlations come alive under the keyword "The Programme with the Mouse for Grownups" and prompted creative contemplation. What was also exciting was the "Research live", in which intuitive opening and closing of windows was acquired and recorded with the help of measurements. The data is used as the basis for determining the stresses borne by frames and fittings with mean user behaviour.

The symposium held at the same time with lectures and presentations on projects of the "Zukunft Bau" research initiative, innovative research projects of industry partners as well as an international section with information on the



Image 12

The Director of the Institute, Prof. Sieberath, explains the fascinating opportunities for windows that arise out of the research project "pressure-equalised insulating glass units".

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Windows and Facades
Doors and Gates
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European Energy Policy, Ecodesign Guidelines and the energy labelling guidelines were highly popular. The presentation slides released as well as the volume of documentation in German and English are available for download free of charge at the **ift** website.

The subject of assembly and installation made its presence felt particularly with the presentation of the new installation manual, the online installation planner and the submission of certificates for installation products of Adolf Würth GmbH & Co. KG. The Director of the Institute, Prof. Ulrich Sieberath, presented the installation planner developed jointly with the company on the first day of the Trade Fair, and handed over two certificates for innovative quality products (corner connector screw ASSY 3.0-FES and frame Dowell AMO) to Thomas Klenk of Würth. With the help of the newly developed online installation planner, fabricators, planners and assemblers can prepare property-related planning of the physical connection of building components to the building structure on a PC or tablet PC with the help of a few clicks. The assembly pass can then be used as verification for proper and professional planning for the construction-related physical window installation. Rainer Taig from the company Wertbau was also honoured, with the company being awarded as the ideal cooperation partner for medium-sized innovative force and practical suitability.

Similarly, certificates for the new window and facade systems suitable for use in passive houses were also handed over to the company Gutmann to Steffen Borkenhagen and Thomas Rönnebeck. The verifications and certificates of **ift** Rosenheim support quality-conscious and quality-oriented manufacturers since these documents are appreciated and acknowledged by architects, technical designers and authorities as substantiated and credible verifications for the technical parameters and product quality.

Several discussions at the special exhibition with experts from all over the world were characterised by a high level of specialisation and clearly demonstrated the willingness to continue with research and development work and thus, to bring about improvements even in the best windows, facades and building elements. The special exhibition "Vibrant research for vibrant lives" provided an ideal environment for this purpose, gave stimulating impulses and thus sustainably supported the claim of fensterbau/frontale as being an international and global leading trade fair for demonstrating innovations and trends.

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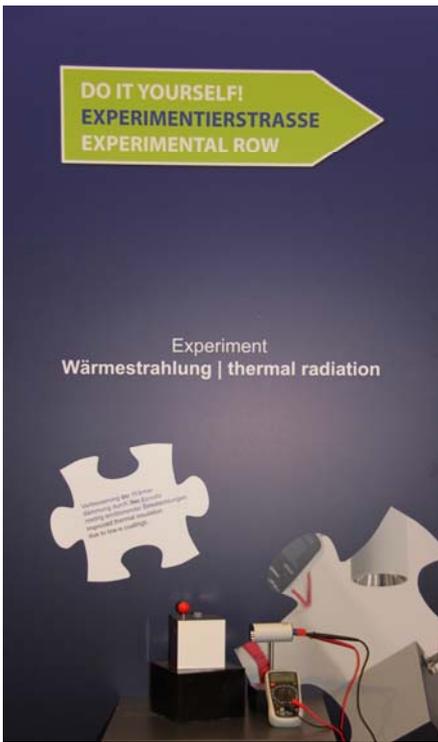
About the ift Rosenheim

The ift Rosenheim is a European notified testing, surveillance and certification body that is internationally accredited according to DIN EN ISO/IEC 17025. Its focus is on the practice-oriented, holistic and rapid testing and classification of all characteristics of windows, facades, doors, gates, glass and building materials. It aims to bring about sustained improvements in product quality, design and technology, and in standardisation and research. Certification by the ift Rosenheim ensures acceptance throughout Europe. The ift also sees the dissemination of knowledge as an obligatory part of its work. As an independent institute, the ift enjoys a special status among the media, and its publications document the current state of the art.

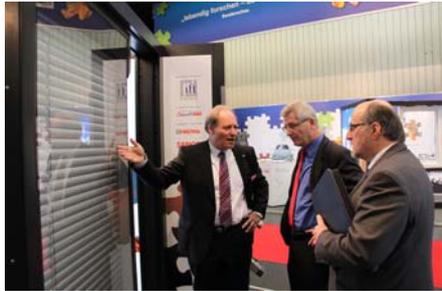
Pictures (available to download from the picture library at www.ift-rosenheim.de/bildarchiv)

No.	Image title and file name	Image
1	Overview of the special exhibition <i>File name:</i> PI140566_Fig_01.jpg <i>Source:</i> ift Rosenheim	Image follows
2	The German volume of documentation on the special exhibition "Vibrant research for vibrant lives" contains interesting information on the exhibits and dares you to have a glance in the "Year of Windows" in 2030. <i>File name:</i> PI140566_Fig_02.jpg <i>Source:</i> ift Rosenheim	

No.	Image title and file name	Image
3	<p>The English volume of documentation on the special exhibition "Vibrant research for vibrant lives" contains interesting information on the exhibits and dares you to have a glance in the "Year of Windows" in 2030.</p> <p><i>File name:</i> PI140566_Fig_03.jpg</p> <p>Source: ift Rosenheim</p>	 The image shows the cover of a blue book or brochure. At the top right is a large green puzzle piece. In the center, there is a smaller puzzle piece with a child's face looking through a magnifying glass. Text on the cover includes the 'ift ROSENHEIM' logo, the title "'vibrant research for vibrant lives'", and event details: "Special Show and Symposium fensterbau/frontale 26 - 29 March 2014 - Nuremberg". At the bottom left, there is a logo for "fensterbau frontale".
4	<p>The exhibits of the special exhibition "Vibrant research for vibrant lives" illustrated interesting and attractive approaches for innovative windows and glazing.</p> <p><i>File name:</i> PI140566_Fig_04.jpg</p> <p>Source: ift Rosenheim</p>	 The image shows an exhibition stand in a hall. The stand is blue and white with large puzzle pieces on the wall behind it. There are several display cases and a large screen showing architectural designs. The stand is part of the "Vibrant research for vibrant lives" exhibition.
5	<p>Ulrich Blüher of the Bundesministerium für Umwelt, Naturschutz, Bau und Reaktorsicherheit (<i>BMUB, Federal Ministry for the Environment, Nature Conservation and Nuclear Safety</i>) provided information on the sponsorship opportunities of the research initiative, "Zukunft Bau".</p> <p><i>File name:</i> PI140566_Fig_05.jpg</p> <p>Source: ift Rosenheim</p>	 The image shows a man in a suit, Ulrich Blüher, standing behind a white exhibition stand. The stand has the logo "BUNDESMINISTERIUM FÜR UMWELT, NATURSCHUTZ, BAU UND REAKTORSICHERHEIT" and "ZukunftBAU". The background wall is decorated with large puzzle pieces in various colors, some with dates like 1900 and 1972.

No.	Image title and file name	Image
6	<p>The event co-host, Professional Association for glass windows and facades, Baden-Württemberg (<i>GFF, Fachverband Glas, Fenster, Fassade</i>) was an ideal partner for all issues on window installation done manually by hand.</p> <p>File name: PI140566_Fig_06.jpg</p> <p>Source: ift Rosenheim</p>	
7	<p>"Research live" – that was the slogan of the "avenue for experiments" with the example here being thermal radiation</p> <p>File name: PI140566_Fig_07.jpg</p> <p>Source: ift Rosenheim</p>	

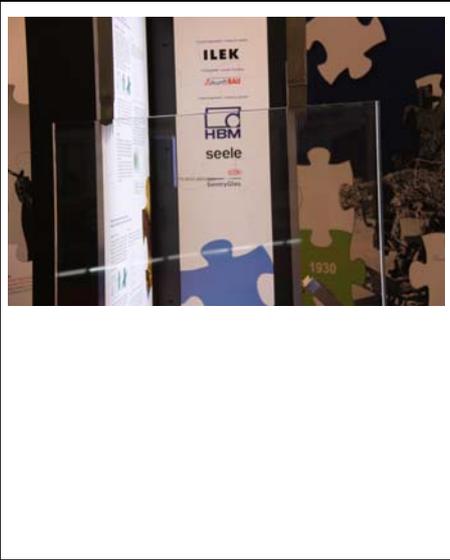
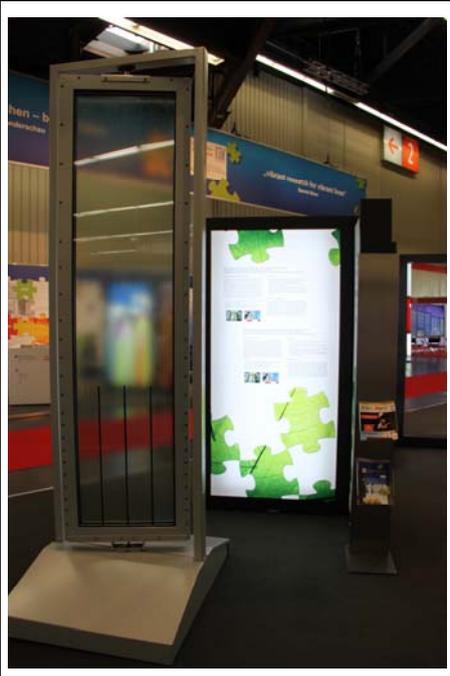
No.	Image title and file name	Image
8	<p>"Research live" – that was the slogan of the "avenue for experiments" with the examples here being composite materials</p> <p>File name: PI140566_Fig_08.jpg</p> <p>Source: ift Rosenheim</p>	 <p>Experiment Verbundwerkstoff composite material</p> <p>Verbindungs- verbindungs- durch den Einbau von Verbundwerkstoff verbunden durch die Ver- einigung von Verbundwerkstoff</p>
9	<p>"Research live" – that was the slogan of the "avenue for experiments" with the example here being the impact of atmospheric changes on materials.</p> <p>File name: PI140566_Fig_09.jpg</p> <p>Source: ift Rosenheim</p>	 <p>Experiment Luftdruck air pressure</p> <p>Beobachtung von Druckveränderungen bei Veränderungen der Umgebungsdrucke Experimente zur Druckveränderung in der Luft</p>
10	<p>Overview of the numerous events and meetings of ift Rosenheim in 2014</p> <p>File name: PI140566_Fig_10.jpg</p> <p>Source: ift Rosenheim</p>	 <p>„Jeden Tag forschen – besser leben!“ Sonderausstellung</p> <p>Events Competences</p>

No.	Image title and file name	Image
11	<p>Stephan Lechner of ift Rosenheim explains the options for application of the ift test rig for testing the leak rightness with respect to air and driving rain.</p> <p>File name: PI140566_Fig_11.jpg</p> <p>Source: ift Rosenheim</p>	 A photograph showing a man in a dark suit, identified as Stephan Lechner, pointing towards a large, complex industrial test rig. The rig is white and blue with various pipes and components. Other people are visible in the background, suggesting an exhibition or conference setting.
12	<p>The Director of the Institute, Prof. Sieberath, explains the fascinating opportunities for windows that arise out of the research project "pressure-equalised insulating glass units".</p> <p>(from left to right) Prof. Ulrich Sieberath (ift), Hansruedi Tschan and Werner Spohn (Schweizer Metallbau)</p> <p>File name: PI140566_Fig_12.jpg</p> <p>Source: ift Rosenheim</p>	 A photograph showing three men in suits standing in front of a display. The man on the left, Prof. Ulrich Sieberath, is gesturing towards a large window or glass unit. The other two men, Hansruedi Tschan and Werner Spohn, are looking at the display with interest.
13	<p>Andreas Schmidt (ift) demonstrates the underestimated impact of air pressure changes on materials in the experimental lane.</p> <p>File name: PI140566_Fig_13.jpg</p> <p>Source: ift Rosenheim</p>	 A photograph showing a man in a dark suit, identified as Andreas Schmidt, demonstrating an experiment. He is standing at a table with various equipment, including what appears to be a pressure chamber or testing apparatus. Other people are visible in the background, observing the demonstration.

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14	<p>The Director of the Institute, Prof. Sieberath, praises the good cooperation with the companies Wertbau and Adolf Würth for the development of the corner connector screw (ASSY 3.0-FES) for the frame corners of wooden windows.</p> <p>(from left to right) Prof. Ulrich Sieberath (ift), Rainer Taig (Wertbau), Thomas Klenk (Würth)</p> <p>File name: PI140566_Fig_14.jpg</p> <p>Source: ift Rosenheim</p>	
15	<p>The Director of the Institute, Prof. Ulrich Sieberath, handing over the certificate for the corner connector screw (ASSY 3.0-FES) and the fixing screw (AMO) to Adolf Würth.</p> <p>(from left to right) Wolfgang Jehl (ift), Sascha Vybiralik (Würth), Prof. Ulrich Sieberath (ift), Thomas Klenk (Würth)</p> <p>File name: PI140566_Fig_15.jpg</p> <p>Source: ift Rosenheim</p>	
16	<p>The Director of the Institute, Prof. Ulrich Sieberath, handing over the certificate for window systems suitable for passive houses to Gutmann.</p> <p>(from left to right) Steffen Borkenhagen (Gutmann), Prof. Ulrich Sieberath (ift), Thomas Rönnebeck (Gutmann)</p> <p>File name: PI140566_Fig_16.jpg</p> <p>Source: ift Rosenheim</p>	

No.	Image title and file name	Image
17	<p>The Director of the Institute, Prof. Ulrich Sieberath, handing over the certificate for window systems suitable for passive houses to Gutmann.</p> <p>(from left to right) Mister Novak, Matthias Dold, (Gutmann), Prof. Ulrich Sieberath (ift), Hansfried Kuhnke (Goldbeck), Steffen Borkenhagen, Thomas Rönnebeck (Gutmann), Manuel Demel (ift)</p> <p>File name: PI140566_Fig_17.jpg</p> <p>Source: ift Rosenheim</p>	
18	<p>The ift stand is appreciated by all experts from the industry as a neutral platform for exchange of information and specialised competence.</p> <p>File name: PI140566_Fig_18.jpg</p> <p>Source: ift Rosenheim</p>	
19	<p>The exhibit of the Window Performance Community (<i>FLG, Fenster-Leistungsgemeinschaft</i>) based on an R&D project of the research initiative "Zukunft Bau" (BMUB) on the subject of innovative wooden windows.</p> <p>File name: PI140566_Fig_19.jpg</p> <p>Source: ift Rosenheim</p>	

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20	<p>Modern window profiles of the Window Performance Community (<i>FLG, Fenster-Leistungsgemeinschaft</i>) based on an R&D project of the research initiative "Zukunft Bau" (BMUB) on the subject of innovative wooden windows.</p> <p>File name: PI140566_Fig_20.jpg</p> <p>Source: ift Rosenheim</p>	 <p>The image shows a display area with several wooden window profiles arranged on a dark surface. In the background, there are informational posters or charts, one of which is titled 'Wärmeschutz bei Erdbeben' (Thermal protection in earthquakes).</p>
21	<p>The exhibit of the company Winkhaus based on an R&D project of the research initiative "Zukunft Bau" (BMUB) on the subject of user-independent ventilation using modern fittings technology.</p> <p>File name: PI140566_Fig_21.jpg</p> <p>Source: ift Rosenheim</p>	 <p>The image shows a modern window profile on the left and a large, illuminated informational display on the right. The display features colorful graphics and text, likely related to the ventilation technology mentioned in the text.</p>

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22	<p>The exhibit of the Institute for lightweight building design and construction (<i>ILEK, Instituts für Leichtbau Entwerfen und Konstruieren</i>), DuPont de Nemours, Hottinger Baldwin Messtechnik and seele sedak based on an R&D project of the research initiative "Zukunft Bau" (BMUB) on the subject of connecting techniques in glass construction.</p> <p>File name: PI140566_Fig_22.jpg</p> <p>Source: ift Rosenheim</p>	 <p>The image shows a display stand with a glass panel. On the panel, there are logos for ILEK, HBM seele, and the year 1836. The background features a large puzzle piece graphic.</p>
23	<p>The exhibit of Arup, SSC and Colt International based on a R&D project of the research initiative "Zukunft Bau" (BMUB) on the subject of a Photo-bioreactor integrated into the facade.</p> <p>File name: PI140566_Fig_23.jpg</p> <p>Source: ift Rosenheim</p>	 <p>The image shows a tall, narrow display stand with a glass panel. The panel displays a photo-bioreactor integrated into a facade. The background features a large puzzle piece graphic.</p>

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24	<p>The exhibit of Sanco and Finstral based on an R&D project of ift Rosenheim on the subject of pressure-equalised insulated glass (Venetian blind in the interpane gap, bottom).</p> <p>File name: PI140566_Fig_24.jpg</p> <p>Source: ift Rosenheim</p>	
25	<p>The exhibit of Sanco and Finstral based on an R&D project of ift Rosenheim on the subject of pressure-equalised insulated glass (Venetian blind in the interpane gap, on top).</p> <p>File name: PI140566_Fig_25.jpg</p> <p>Source: ift Rosenheim</p>	