



Institut für Glas- und Rohstofftechnologie

IGR-Journal Aktuell 11



News from our institute

- Winner of the „Innovationspreis 2015 des Landkreises Göttingen“
- Extension of our range of services
- Qualification and memberships
- Investments



1st place with „Perfect UV-protection - first production worldwide of large-scaled UV protective glass without foil material or coating“

The IGR won again in this year's Innovation Award. We are glad to gain the 1st place for the first time.

Over the past years the demand for UV-protective glass for valuable art objects and historical furnishing has increased. Until now the only solutions available were based on organic foil material or coating of nanoparticles. The coating on the glass was not scratchproof, and over time the foils aged and lost their effect.

Against this backdrop, Glashütte Lamberts Waldsassen developed - in cooperation with IGR Institute for Glass and Raw Material Technology and Dr. Drexler Glasservice - a glass in which the UV protection is integrated and which is not subject to aging.

The first major projects, applying the UV protective glass restauro®-UV, were the civic church of Wittenberg (G) – to protect the valuable Lucas-Cranach altarpiece - and the York cathedral (GB) – to protect the modern East Window.



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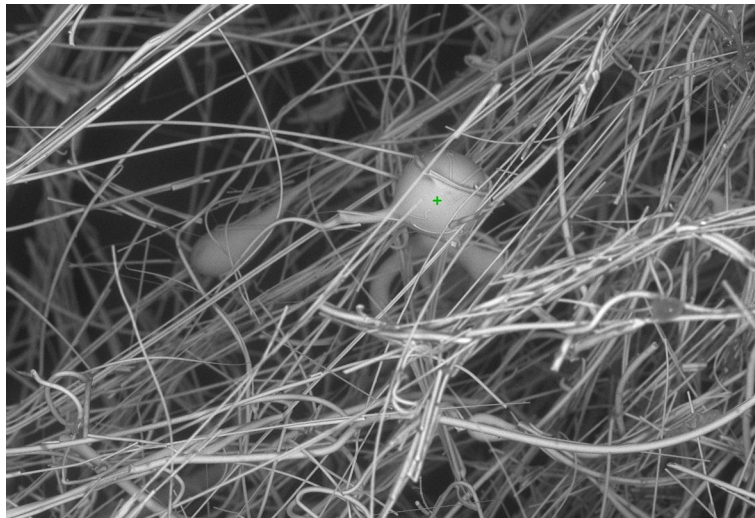
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Extension of our range of services

Additionally we offer the following services from now on:

- **Leachingtest** for the measurement of the REACH-relevant chemical elements according Reach-Dossier „Exemption from registration for glass under REACH regulation n.1907/2006/EC“. This test ascertains whether the analysed glass products should be registered according the REACH regulation and the Implementation guidelines of the European glass industry.
- **Method as proof of lubricant residues on glass surfaces.** Producing container glass mould lubricants, which are – in the opposite of hot end coating and cold end coating - not authorised by food legislation, are widely used. As a result of the increasing demand the IGR developed this method to prove that bottles which were put on the market already, have no more lubricant residues and are harmless according food legislation.
- **Successful approval for RAL (Gütergemeinschaft Mineralwolle e.V.) and EUCEB (European Certification Board for Mineral Wool Products).** As a result of the successful accreditation got the IGR the approval. So it is duly qualified for the independent, neutral quality assurance for the mineral fibre industry using wet chemical ICP-OES-analyses. Currently approved are five laboratories for RAL and ten laboratories for EUCEB worldwide.



- **Examination of raw materials according emission law.** Being an accredited laboratory the IGR is allowed to perform such analyses, as e.g. the determination of the loss of ignition (LOI) or the analysis of the CO₂-amount in dolomite.
- **Identification of alloys.** Using the SEM-EDX semi-quantitative chemical analyses of alloys are done. So it is among others possible to verify the material properties of moulds and tools as well as of the annealing- or transport-conveyor

Qualification and memberships

In the past ten month the IGR was involved in many different sectors of qualifications.

- **Lynda Ngueuliatou Nkameni** implemented her master thesis in the period from 09-03-2015 to 31-08-2015. The title is „Developing new applications of FT-IR spectroscopy for the glass industry“. She passed successfully the oral examination the 04-11-2015. This was the first master thesis supervised by the IGR.



- **Jessica Göckler** completed successfully her advanced technical certificate due to a number of internships at the IGR.
- **Daniela Armbrecht**, our apprentice, completed successfully her midterm exam in august. Her performance the practical part of the exam was above-average.
- **Anke Brinkmann** of the „Hochschule für angewandte Wissenschaften Hamburg“ was supported competently by D. Diederich while she wrote her bachelor-thesis with the title „Contamination with glass slinters: The importance of glass analyses for food industries“.
- **Mariana Melchior** due to a fivemonth internship at the IGR she got the qualification for the recognition procedure of her in Romania _completed vocational training as a chemical laboratory assistant. Since January 2015 she joins our team.

Congratulations of the whole IGR-staff!

Further advanced vocational trainings for engineers, gaffer and laboratory assistants took place in our institute. Additional some school apprentices gained an insight in our work.

At the end of the month Mr. Diederich gives a lecture - as a part of the HVG advanced trainee course - on the subject “Analytics for practice”

The close co-operation with organisations is very important to us. Among others we are a member of the “Deutschen Glastechnischen Gesellschaft (DGG)”, the “Verband deutscher Glasbläser (VDG)”, the “GlasCluster Weserbergland” and from 2016 on member of the “Gesellschaft von Freunden der Glasfachschule Zwiesel e.V.”.

Investments

The following investments were done to ensure the high quality and the fast analysis processing under increased volume of work

- **ICP-OES iCAP 7400 duo von Thermo Scientific**

This apparatus is used additionally to the ICP-OES iCAP 6300 duo and achieves an increased precision.

- **Systec VX Standautoklav**

This apparatus is used mainly to analyse the water resistance of glass. To do the analyses according the required standards (ISO 4802-2, DIN 52339, Ph.Eur.), programs are included to modulate the targeted temperature control.

