

CONNECT

FEICA NEWS

The European voice of the adhesive and sealant industry

The FEICA 2022 Conference and EXPO

Two publications commemorate FEICA's 50th anniversary at FEICA 2022

After a two-year hiatus, the FEICA European Conference and EXPO is finally back, and bigger and better than ever, with more than 650 registrations. The event, set in the Grand Elysée Hotel, Hamburg, Germany, from 14 to 16 September 2022, is of extra importance as it will also be a celebration of 50 years of FEICA.

FEICA has published two books to commemorate its 50th anniversary. The first, '50 YEARS OF FEICA', will feature a timeline of our history (and that of our industry), as well as photos and stories from our archives. For the second, FEICA commissioned Fraunhofer IFAM to write a study titled 'Adhesive Bonding Technology in the 21st Century – Synergy of Technological and Ecological Potentials'. A synopsis of the book is available on [page 8](#).



Both publications will be handed out at the conference.

The FEICA European Adhesive & Sealant Conference and EXPO provides an ideal environment for industry leaders to come together to discuss market drivers and trends, innovation, technological advancements and the circular economy, or simply to compare notes, renew old acquaintances and forge new ones.

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FEICA®



THE 2022 BUSINESS FORUM

FEICA has again secured outstanding speakers for its Business Forum!
The 2022 theme is 'Enabling a sustainable future' and takes place on Thursday, 15 September 2022, from 08:30 to 12:30

Business Forum Keynote Speakers:

How to make sustainability a fact of life

Gunter Pauli, Prof. Dr h.c. mult.

Zero Emissions Research and Initiatives



We have analysed the problems and have been bombarded with reports. The UN meets every year, and the reality is not improving. This is called the 'analysis – paralysis'. Then we see thousands of companies committing to net zero in 2030 some even push forward to 2050. There is a plethora of technologies that promise the turnaround and yet - statistics are worse than ever before.

The author of The Blue Economy with over 10 billion euro invested, with 3 unicorns on record, and with +200 projects implemented shares how we can all make a difference by changing the business model, and by resolutely embracing innovations that are considered impossible.

The Imperative for Sustainable AI

Geertrui Mieke De Ketelaere

Director AI at imec (IDLab) - Adj. Professor Vlerick



AI applications are increasingly being developed, but the exciting world of opportunities and possibilities includes other important issues related to sustainability: privacy, ethics, energy consumption and liability. The discrepancy between what the AI developers create, what the customer buys- and what the government wants, has increased the complexity bias on the topic. Mieke will split the current known issues into the good, the bad and the ugly. She takes her audience beyond the tipping point by demystifying the technology and by removing the current tension between the believers and the non-believers. By comparing both human and artificial intelligence anno 2022, the audience also easily understands that we need to accept the fact that both forms of intelligence are great, but just different. Mieke will also speak at the FEICA Master Class on Diversity & Inclusion (D&I) - see [page 5](#).

Partnerships in Sustainability – the Neste story

Eric Vervaart

Manager Sustainable Partnerships,
Renewable Polymers and Chemicals, Neste



Climate change is a global crisis. How we tackle climate change in this decade will determine the remaining leeway for the upcoming ones. It is everyone's business to take action now. The petrochemical industry could account for roughly half of global oil demand growth until 2040. Oil demand for petrochemicals can be reduced through increasing plastic waste recycling and use of renewable raw materials to produce polymers and chemicals. Neste is a company which makes fighting climate change possible today, helping customers to make their business more sustainable.

Over the past 15 years, Neste has transformed itself from a regional oil refinery into a global leader in renewable solutions, and one of the most sustainable companies in the world. In this speech, Neste will shed a light on this transformation on the way value-chain collaboration already today results in significant reduction of GHG emissions.

Controlled longevity – a vision for adhesive bonding & sealing technology in the 21st century

Prof. Dr Andreas Groß

Director of Workforce Training and Technology
Transfer, Fraunhofer IFAM



In his presentation, Prof. Dr Andreas Groß presents his vision for the further development of adhesive bonding and sealing technology as the joining technology for the 21st century under the concept of 'controlled longevity'. This is the equal, inseparable combination of the safety of adhesively bonded products and their eco-balanced efficiency, which leads to a sustainable synergism that expands the areas of application. The indisputable performance of adhesive bonding when it comes to safety and eco-balanced efficiency is, however, not yet anchored in public opinion. Translating knowledge from the expert level to the public domain is imperative for the benefits of adhesive and sealant technology to become recognised. Prof. Dr Groß will explain how a lack of information or even misinformation about adhesives & sealants in the general public may influence the decision process of legislators. Education with product- and technology- neutral information is key to improving awareness of adhesives & sealants as the joining technology of the future.



The book 'Adhesive bonding technology in the 21st century - Synergy of technological and ecological potentials' by Prof. Dr Andreas Groß and Prof. Dr Bernd Mayer of Fraunhofer IFAM, was commissioned by FEICA & is being distributed to all registrants at the 2022 FEICA Conference & EXPO. See the synopsis on [page 8](#).



THE 2022 MASTER CLASSES

FEICA 2022: Master Class on the PU Training for Adhesives and Sealants producers

This Master Class is not intended for technical experts – although they are very welcome – but for all managers in Product Stewardship, Operations & Production, Business Development, HSE, Regulatory & Public Affairs, HR & Training, Marketing & Communications, and General Management, or anyone leading a team facing customers.

Paula Diaz (FEICA) will kick off with a short introduction of the REACH Restriction on Diisocyanates and guide you through its main elements. What is the scope and aim of this regulation? What is not in the regulation? What is the timing, and what are the effects? Whom does the regulation concern? These are some of the questions she will address.

The REACH Restriction on Diisocyanates impacts the entire PU industry and users of PU applications. In his presentation, Torsten Funk (Sika) will explain the cooperation within the so-called PU Exchange Panel and the PU Alliance, and its different actors. He will also cover the way National Authorities are handling the REACH Restriction on Diisocyanates in the Member States.

Frank Van Elten (Isopa/Alipa) will treat the concept of the training platform and show via a live demo how the different training materials of the various partners are made available. You will learn about the language availability, the various formats (web-based, in-house, face-to-face), the quiz, certification, the admin and trainer account, the use of vouchers, and so on.

PU Training for A&S producers and their customers: Live demo of the web-based training

Nothing beats a live demo to demonstrate how things work. Torsten will guide you through a training module for professionals using adhesives and sealants. In this demo you will learn the ins and outs of the web-based training for adhesives and sealants to help you address any questions your customers may have.

At the end of the Master Class, we have foreseen ample time for a Q&A session.

Master Class I - 'A Deep Dive into the PU Training for Adhesive and Sealant producers' is scheduled on Friday 16 September, from 08:30 to 10:30.





FEICA 2022: Master Class on Diversity & Inclusion (D&I) in the Adhesive and Sealant Industry

Over the last few years, a vast body of research around the world has documented that diversity and inclusion (D&I) initiatives benefit individuals, organisations, teams, and society. Much of this research also draws direct correlations between D&I in the workplace and improved business performance.

We all look to attract great talent, drive employee engagement, and improve retention. During this Master Class, we will explore the reasons inclusion matters and the pitfalls of not having an inclusive culture. Dr [Ritu Paul](#) (H.B. Fuller) and [Katherine Glasser](#) (Henkel) will share their personal stories, the actions their companies have taken and plans going forward.

During the panel discussion and Q&A, moderated by Dr [Vera Haye](#) (IVK), Ritu and Kate will be joined by Prof. [Geertrui Mieke De Ketelaere](#) (imec/IDLab, Vlerick) and Sofia Koehler (Colquimica Group).

Together with the audience, the panel members will discuss how we can all have an outsized impact through both big and small actions that take diversity and inclusion into account.

Master Class II - 'Diversity and Inclusion in the Adhesive and Sealant industry' is scheduled on Friday, 16 September from 11:00 to 12:30.

THE FEICA BREAKOUT SESSIONS

In addition to the Business Forum, breakout sessions give experts an opportunity to share their knowledge and allow delegates to enjoy the maximum benefit of the conference by attending presentations that are pertinent to their specific business needs.

Here you will also get the opportunity to hear outstanding speaking from our industry.

More information on the breakout sessions is available on the [FEICA conference website](#).



The parallel breakout Sessions

Parallel break-out sessions offer you a range of topics such as food packaging, sustainability and the green transformation, hotmelts, recycling and bio-based building blocks for adhesives and sealants. The 2022 sessions are:

- Food packaging adhesives
- Advancements in water-based A&S
- A&S helping green transformation
- Hotmelt adhesives enabling sustainable solutions
- New additives
- Realising energy efficiency
- Low diisocyanate monomer PUs
- Pretreatment technologies
- Bio-based building blocks for A&S
- Expanding the limits with PU hotmelts
- Sustainability with silicone sealants
- A&S and recycling



The Table Top Exhibition

The Table Top Exhibition will provide producers, distributors, suppliers, and service providers linked to the adhesive and sealant industry with an opportunity to promote their latest developments. More on the FEICA 2022 exhibitors here: www.feica-conferences.com

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FEICA 2022 promises to continue its tradition of excellence and we look forward to seeing many of you again very soon. www.feica-conferences.com



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ADHESIVE BONDING TECHNOLOGY IN THE 21ST CENTURY

– SYNERGY OF TECHNOLOGICAL AND ECOLOGICAL POTENTIALS

The book 'Adhesive Bonding Technology in the 21st Century – Synergy of Technological and Ecological Potentials' by Prof. Dr Bernd Mayer and Prof. Dr Andreas Groß of Fraunhofer IFAM in Germany, was commissioned by FEICA on its 50th year anniversary to provide an overview of the various aspects of the industry, today and in the future.



Adhesive Bonding Technology in the 21st Century sets the stage by presenting the key advantages adhesive bonding technology has compared to that of other joining technologies. For example:

- various combinations of materials can be joined
- material properties of the joined parts are usually not changed
- new construction methods can be pursued
- the adhesive can introduce new properties into the conjoined product

Furthermore, adhesive bonding, is a joining technology that can serve numerous functions, such as force transmission and compensation for the dynamics of the different parts that are joined.

The many areas of application of adhesives and sealants in everyday life and in industry are explored too. Adhesives and sealants are used in various products (tiles, flooring, carpeting, etc.), in household items (medical plasters and paper bags), and in appliances (the clothes iron and the cooking oven with its heat-resistant adhesives and sealants). In industry, adhesives and sealants are widely used in aircraft, cars and trucks, and in rail vehicle manufacturing. In cars, there are adhesively bonded windscreens. For rail carriages, adhesives and sealants enable a streamlined design. In shipbuilding, adhesively bonded polycarbonate windows lessen the weight and thus decrease the carbon footprint. In wind turbine construction, the blade shells would be impossible to fabricate were it not for the adhesive bonding.

The study is intended for a broad audience, and its objective is to provide a comprehensive view of the adhesive and sealant industry in terms of its applications, technologies, innovations and trends.

'The overall trend of adhesives and sealants is toward a more energy- and material-efficient production, resulting in a lower carbon footprint'.



Fraunhofer's 'Adhesive Bonding Technology in the 21st Century' also explains the economic importance of adhesives and sealants. For instance, the European adhesive and sealant industry makes a significant contribution to the European economy in terms of euros added (15 billion), number of employees in the industry (more than 45,000), and market share (the EU market is almost 35% of the global market of 50 billion euros). Indications are that the industry's economic significance will further grow in the future. Concomitantly, the overall trend of adhesives and sealants is toward a more energy- and material-efficient production, resulting in a lower carbon footprint.

The core of the study takes a comprehensive look at adhesive bonding with respect to product safety law and circular economy potential. Here, the concern is first with adhesive bonding safety. In this regard, the importance of personnel qualified through proper training is highlighted. The second concern deals with the ecological potential of adhesives and sealants.

Adhesive bonding technology is described as aligned with the goals of the circular economy in numerous ways, including, to name but a few:

- Lightweight construction (such as in shipbuilding), which can save manufacturing materials and lifetime energy use, is made possible by adhesives and sealants.
- Adhesive bonding technology enabling the repair of products. In this way the preservation of resources is assured.
- Various approaches towards recycling can be pursued thanks to adhesively bonded joints, such as raw material separation in the case of cars.
- Energy transition is promoted by adhesive bonding technology. That is, the transition to alternative energy sources (such as solar cells and versatile solar panels) would not be feasible without this bonding.
- E-mobility (mobility by means of electricity) in transportation depends upon the use of adhesive bonding (for example, the hermetic sealing and mounting of fuel cells).

Prof. Dr Mayer and Prof. Dr Groß conclude with a view towards the future and the circular economy. They foresee adhesively bonded products serving as long as possible in a life of safe use and allowing recycling at the end of product life. The adhesive bonding technology, in short, has become the joining technology of today and of the future.

The full study will be handed out to all registrants of the 2022 European Adhesive and Sealant Conference & EXPO, set in the Grand Elysée Hotel, Hamburg, Germany, from 14 to 16 September 2022.

PU TRAINING UPDATES

As of 24 August 2023, training is required for all professional and industrial users of products with a total monomeric diisocyanate concentration of > 0.1%.

FEICA, in coordination with the European Diisocyanate & Polyol Producers Association (ISOPA), the European Aliphatic Isocyanates Producer Association (ALIPA), and several other industries in the polyurethane industry, launched a comprehensive training programme to ensure the safe use of diisocyanates for producers and professional users all over Europe. In this way, FEICA also ensures that all end-users of PU-containing adhesives and sealants across Europe continue to handle diisocyanates safely.

The PU Training Platform, available in 6 languages, can be accessed here: www.safeusediisocyanates.eu. The currently available languages are: English, German, French, Spanish, Italian and Dutch. The remaining EU languages will be added on a rolling basis until the end of 2022.

FEICA's PU Restriction Technical Working Group (TWG) created two leaflets to explain more about the restriction.

All recently updated versions are available in 8 European languages via www.feica.eu/our-projects/safe-use-diisocyanates.

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FEICA WEBINAR ON PU TRAINING: 7 OCT 2022

FEICA-CEPE-EFCC Webinar – PU Training Platform for the Safe Use of Diisocyanates

October 7, 2022

1:00 PM - 2:30 PM (UTC/GMT +02:00 - Europe / Brussels)

REGISTER

EPDS: FEICA/DB/IVK UPCOMING WEBINARS

HOW TO USE MODEL ENVIRONMENTAL PRODUCT DECLARATIONS (EPDS) TO ADDRESS MARKET AND REGULATORY NEEDS FOR ADHESIVES AND SEALANTS IN THE CONSTRUCTION SECTOR

Following the revision of the Model Environmental Product Declarations (Model EPDs), FEICA, Industrieverband Klebstoffe e.V. (IVK) and Deutsche Bauchemie e.V. (DBC) invite their members to a webinar to discuss the legal framework and upcoming challenges due to legislative initiatives (e.g., the revision of the Construction Products Regulation) in relation to EPDs in the adhesives and sealants construction sector.

REGISTER below and get the opportunity to see in detail how to apply the EPDs to your products to cope with future regulatory needs.



FEICA/IVK/DB WEBINARS FOR MEMBERS ONLY ENGLISH EDITION: 25 OCTOBER 2022



GERMAN EDITION: 8 NOVEMBER 2022



FEICA'S 50TH ANNIVERSARY

To commemorate and celebrate our 50th anniversary, FEICA invited its members to send quotes, stories and photos about the past 50 years.

We have been sharing these over all the 2022 issues of CONNECT, starting with [Issue 47](#) and [Issue 48](#). The last issue of the year, Issue 50, will be published in October this year, after the FEICA 2022 conference in Germany.

Many of the stories, quotes and photos were added to the commemorative book that we created for this very special occasion. Simply titled 'FEICA in 50', the book is a true celebration of the association's and its members past, present and future. It will be handed out to all registrants at FEICA 2022. There will also be an exhibition of the book and anniversary at the event in Hamburg.



"The FEICA ETB and its Technical Working groups and Task Forces combine the best expertise available. The ETB fully supports the EU goals, but 'Science must Prevail'. Happy Anniversary FEICA!"

**Eva Griebach, FEICA ETB chair
2011 - today**



 FEICA® 2022

Hamburg,
Germany

**FEICA European Adhesive & Sealant
Conference and EXPO 2022**

14-16 September 2022
Grand Elysée Hamburg



'In the mid-nineties FEICA expanded its scope to technical issues. I was asked to participate as Bayer (Covestro today) and as a raw material representative when the ETB was founded. Later I became a member of FEICA's Construction Working Group (WG) and of its Sustainability committee. I remember giving a presentation in Cologne in 1998 and presented a special in house-developed tack tester at that year's Conference.

During the first 20 years FEICA grew under the umbrella of IVK in Düsseldorf. FEICA's move to Brussels was successful and it is now a powerful organisation. In order to keep the balance between National Association Members (NAMs) and Direct Members, FEICA is driven to excel in all aspects of regulatory affairs, communication and support of manufacturers.

I believe that FEICA has a lot more influence and acceptance in Brussels than an association of its size would normally have. This is thanks to a lot of creativity in forming/supporting/founding alliances in the best interest of members and downstream users in general (e.g. DUCC), creativity in finding practical solutions (e.g. REACH, Model-EPD, Isocyanateregulation), and looking for a basis for good co-operation between raw material producers and A&S manufacturers.

FEICA Greatest achievements?

- FEICA is attractive for direct and affiliate members and at the same time for its NAMs.
- FEICA hired smart and knowledgeable people and it's always a pleasure to work with them.
- It has built a network of regulatory affairs experts of the manufacturers and other associations as well as good contacts to decision makers in Brussels.
- There have been a lot of achievements with respect to advocacy and finding practical solutions for the industry! One of the latest achievements is the launch of the PU training, which is very important for the future of PU as raw material for A&S.

FEICA's future?

- There will be an increasing importance of regulatory issues at European level following the EU Green Deal, which will at the same time increase the importance and attractiveness of FEICA!

Happy Anniversary FEICA
Heinz Werner Lucas, HWL consulting



MEMBER PORTRAIT

In every issue of CONNECT, we introduce a member of FEICA. Here, members share, in their own words, interesting insights into their company in 'five fascinating facts'.

In this issue, we present Avery Dennison.

Content by





In 1935 Stan Avery invented the first pressure sensitive label – and we have been innovating ever since. Avery Dennison is a materials science and manufacturing company specializing in designing and manufacturing a wide variety of labeling and functional materials. Our expertise and global scale enable us to deliver innovative, sustainable and intelligent solutions to customers all over the world. From our leading R&D facilities to our factory floors, we're composed of remarkably skilled, intelligent people whose relentless curiosity is matched by a passion for solving customer problems. Today, Avery Dennison employs more than 30,000 people in over 58 countries.

Sustainability: At Avery Dennison, sustainability always comes first. Our EcoDesign approach ensures every new product is more sustainable than its predecessors. We work with customers, industries and ecosystem partners to deliver label solutions that create a better future. Our 2030 goals make a robust commitment to advance the circular economy and reduce our environmental impact. To achieve these goals, we are implementing and advancing technologies to enable recyclability, extend the lifespan of materials, reduce waste, increase recycled content and integrate opportunities for circular processes across our industries. We're also reducing our environmental impact in operations and supply chain. We're committed to 100% of our standard products containing recycled or renewable content and 100% labeling for the circularity of plastics. We have also set a target of diverting 95% of waste from landfills.

Innovation: Our innovative impulse produces label materials that improve packaging, perform in punishing conditions, save time and money and reduce the consumption of natural resources.

Strategically positioned globally, our Centers of Technology and Innovation house dozens of research laboratories and employ nearly 300 engineers and scientists. Our innovations generally come in two sizes. There are the incremental improvements that help customers stay abreast of changes in printing technologies and regulatory requirements. Then there are the breakthroughs — the landmark innovations from our R&D team that builds on our pioneering legacy and push the label industry forward.

Our Partners, People and Customers: Our innovations are born of customers' needs. Together with our partner network of environmental non-profits, industry associations and research institutes, we represent diverse perspectives, knowledge and experiences that move us closer to a sustainable, circular economy supported by digital technologies. Our people work closely with customers, brands, suppliers and our partner network, solving tough problems and finding ways to do what's never been done. If we don't have what our customers are looking for, we often invent it from scratch or by looking at something that already exists from a different angle.

FEICA Membership:

FEICA provides us access to decision-makers and experts in the adhesives industry that keep us up to speed on critical legislative developments in the European Union related to chemical legislation. This invaluable information allows us to better establish our position within the industry and set standards on sustainability and safe usage of labeling materials.

For more information visit label.averydennison.com or contact Flor Peña Herron flor.pena.herron@eu.averydennison.com

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