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The FEICA European Adhesive & Sealant Conference and EXPO 2016 - Speaker line-up published for Vienna

The FEICA 2016 Business Forum

The annual FEICA European Adhesive & Sealant Conference & EXPO takes place this year in Austria, from 7 to 9 September, and promises to be another record-breaking event. Registrations continue to pour in, and the entire FEICA team is looking forward to seeing many of you (again) in Vienna after the summer.

We have now published the speaker line-up for this year's **Business Forum "Pursuing Growth – Strategic Choices in a Rapidly Changing World"** and are pleased to announce that we have once again managed to secure four highly regarded keynote speakers who will present indispensable insights that encompass global,

European, industry and company viewpoints.

The theme of the Forum is to examine the tension between profitability and growth:

The trade-off between growing your top line and maximising your bottom line will be debated, with the objective to explore which is more important when it comes to the value of your company.

The Venue: Hilton Vienna Am Stadtpark



The 2016 keynote speakers:

- Prof. **Rob Holdway** FRSA, Director, Giraffe Innovation Ltd. - "What is the circular economy and does it matter? Disruptive 'design' and 'system' thinking are required for future innovation"
- Prof. **Charles Dhanaraj**, Professor of Strategy and Global Leadership, IMD Lausanne - "Winning the fight for growth"
- Dr **Hervé Heinrich**, Director of Commercial Acceleration Solutions, SpecialChem - "How to accelerate growth in new applications and unfamiliar markets"
- Dr **Achim Hübener**, Managing Director, KLEBCHEMIE M. G. Becker GmbH Co. KG (KLEIBERIT) - "Response in Times of Rapid Change"





FEICA 2016 Speaker line-up - A taste of what's to come

Below are some of the abstracts that you can look forward to, from a selection of excellent speakers



Virginie Yquel and Elizabeth Sims

- Technical Service Manager and Application Development Manager (respectively) for Adhesives, Sealants and Composites in Performance Chemicals at Cabot GmbH

Presentation Abstract:

Carbon black for enhanced performance of polyurethanes adhesives - Carbon black particles have long been used in elastic bonding, particularly one-component urethanes for automotive glass. Trends in automotive light weighting are driving the need for stronger one and two-component polyurethane adhesives. The impact of carbon black morphology and surface chemistry on rheology, reinforcement, and stability of one - and two-component polyurethane adhesives is discussed.

Stephan Klotzbach, Market Development Manager Adhesives, EMEA, Eastman Chemical Company

Presentation Abstract:

How end-consumer needs influence raw material innovation: a case study - Traditionally raw material innovation started in the lab of the raw material supplier and then found its way down stream. With the world getting 'smaller' through the internet, shorter travel times and easier connections, it is becoming more and more important to look at innovation throughout the value chain.

End consumers are gaining more influence on brand owners through the power of social media. Either direct – leading to reputational damages – or indirect by demanding life cycle assessments and legislative changes that influence the process.

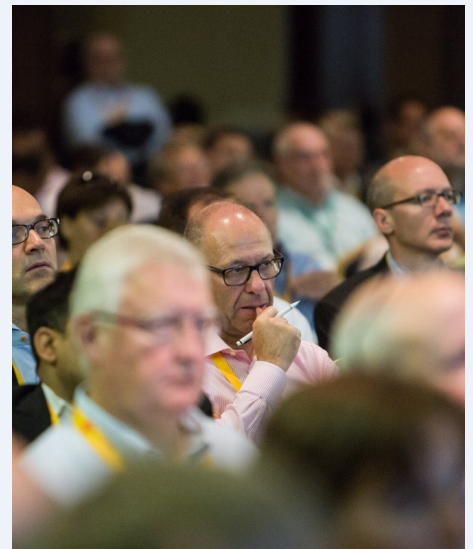
Examples can be found all over the world, from food packaging to hygiene applications: baby formula issues in China, migration issues in food packaging in Germany and recyclability claims in the US.

As a raw material supplier Eastman Chemical Company helps customers in the value chain understand the performance of tackifiers and

polymers and their influence on the end-product. And vice-versa. There needs to be a mutual understanding of the needs versus the possibilities.

The most effective way to do that is to backwards engineer innovative solutions from the consumer need to the raw material innovation.

In his presentation, Stephan will show a case study of raw material innovation with a brand owner and other value chain partners.





Ramon Bacardit, CEO Afinitica Technologies SL

Presentation Abstract:

New developments in cyanoacrylate based adhesive compositions. Breaking the paradigm - flexible, gap filling, structural CA compositions - A new generation of cyanoacry-

late based compositions will be presented. Adhesives that break the "rules" of instant Adhesives.

Flexible instant Adhesives that show elongation at break higher than 200 %. Structural Instant adhesives, high temperature and humidity resistant, based on standard and also new

cyanoacrylate monomers.

These new adhesive compositions open new application possibilities for fast curing, multi-substrate bonding, with the convenience of the cyanoacrylate chemistry.

Example for new applications will be presented.

More abstracts here: www.feica-conferences.com/speakers/speakers-overview/

Our special Conference Issue is out next month so watch this space! In the meantime you can check out our conference website for latest updates: www.feica-conferences.com

FEICA 2016 Vienna, Austria

FEICA European Adhesive & Sealant Conference and EXPO 2016

7-9 September 2016

Hilton Vienna Am Stadtpark, Austria

REGISTER NOW





FEICA publishes guidance on migration testing of adhesives intended for food contact materials (FCMs)

As part of a cross sector initiative about migration testing of non-plastic FCMs, FEICA has developed recommendations on how to test the different types of adhesives concerned



Adhesives typically make up less than 5% of the packaging and, for most adhesive applications, direct food contact is not intended.

Depending on the adhesive and application, contact may occur unintentionally at seams and edges, or via migration through the packaging or gas phase due to volatile compounds (vapour phase transfer).

Consequently, specific migration of individual compounds is of greater interest than overall migration, as the latter is only a measure of inertness and has no toxicological meaning.

Following the requirements of Regulation (EU) No. 1935/2004, the finished FCM has to be tested and / or evaluated under real use conditions.

Testing the adhesive alone can only be considered as a screening tool and should only be used in cases where the worst-case calculation fails or cannot be carried out due to missing information.

Tests according to the rules of the plastics regulation on the pure adhesive without substrate or the construction material will usually overestimate the migration of constituents into foodstuff, as contributing factors to real migration are not sufficiently considered.

Contributing factors include:

- Curing times and conditions.
- Interaction of adhesive with other FCM layers.
- Barrier properties of other FCM layers.
- Distribution of constituents within the FCM.
- Ratio of adhesive amount to filling good.

FEICA examines the challenge according to the type of adhesive used and defines the following types, along with their typical applications:

- Reactive polyurethane (PU) adhesives.
- Adhesives based on natural polymers.
- Dispersion and emulsion adhesives based on vinyl acetate polymers (PVAc) or ethylene vinyl acetate (EVA) copolymers.
- Dispersion and emulsion adhesives based on acrylic polymers and copolymers, including styrene acrylate terpolymers and reactive systems.
- Cold seals.
- Heat seals.
- Hot melt adhesives.

FEICA's Paper and Packaging Technical Working Group has been part of a cross sector initiative about migration testing of non-plastic food contact materials (FCMs).

The initiative is the collaborative effort of several sector associations in the packaging supply chain and aims to provide robust guidance papers on this challenging subject. FEICA has documented specific guidelines for conformity testing of adhesives as components of food FCMs. You can find more about the guidance papers of the other sector associations on the FEICA website at: <http://www.feica.eu/our-priorities/key-projects/food-contact.aspx>

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For each type of adhesive, the material-specific properties that need to be considered when testing adhesives are discussed.

Depending on the type of adhesive, these can affect the results and include:

- Reaction with food simulants.
- Weakening of the laminate structure.
- Accelerated tests at elevated temperatures.
- False-positive results from extracted constituents.

Finally, test procedures and the evaluation of test results are examined.

Numerous test procedures are available for the determination of defined compounds in various matrices.

Partly, they have been subject to standardisation, and are published as test guidelines at the European level, e.g. DIN EN 13130 test method series.

However, due to the wide range of applications concerning FCMs, the preparation and analysis of test solutions greatly impacts the final assessment.



The preparation of test solutions involves the following steps:

- Anticipation of a real food contact scenario and transformation into a migration test setup.
- Migration of the material under pre-defined conditions (choice of food simulant, temperature and time).
- Transfer of migration / extraction solution into a "ready-to-analyse" test solution or test substance (extractions, etc.)

In each of these steps, decisions have to be made that will influence the analytical result of the applied test procedure.

Thus, separate analyses of identical food contact materials according to the same test method might reveal different test results.

The document then lists recommendations on how to test the different types of adhesives, taking into account their material-specific properties, in contrast to pure plastic materials.

This includes consideration of all parts of the migration study, from setting up the migration test to final evaluation of the test results.

For more information, or to give feedback, please contact Jana Cohrs at info@feica.eu

Message from CES-Silicones Europe regarding substance

On 17 March 2016, a Proposal was published for a Council Decision on the submission, on behalf of the European Union, for the listing of additional chemicals in Annex A, B and/or C of the Stockholm Convention on Persistent Organic Pollutants (POPs).

Octamethylcyclotetrasiloxane (D4) was proposed to be listed in Annex to this convention.

CES – Silicones Europe (a sector group of CEFC) prepared a letter to oppose this proposal.

Because of the importance of silicones to the sealant and adhesive industries, Pierre Germain, the Secretary General of CES, requested us to share this information back in March.

We immediately informed our Members, but for those of you who missed it, please see:

<http://www.silicones.eu/uploads/Modules/Newsroom/ces-statement-on-d4-pop-nomination-proposal.pdf>





Third set of European Core Model EPDs available for adhesives and sealants

An Environmental Product Declaration (EPD) is an independently verified and registered document that communicates transparent and comparable information about the life-cycle environmental impact of products.

European Model EPDs (EU Model EPDs) are the most suitable type of EPDs for adhesives and sealants.

In addition to PU-based and EPOXY-based, **SILICONE-based construction sealants EU Model EPDs** have now been made available for our members.

FEICA members and their members can declare that one or several of their products are covered by one of these EPDs. In order to do so the necessary FEICA guidelines can be requested on the FEICA [website](http://www.feica.eu). The FEICA dedicated EPD website pages can clarify many questions you may have regarding EPDs. <http://www.feica.eu/our-priorities/key-projects/epds.aspx>



Cefic's European Chemical Industry [Facts & Figures 2016 report](#) available online and on the [FEICA website](#)

Internal market drives EU chemicals sales

"Removing both trade and non-trade barriers inside the European Union helped boost growth and competitiveness in the EU chemical industry between 2004 and 2014. The internal market, numbering more than 500 million consumers, is a determining factor for competitiveness. The accession of new EU member states in 2004 and 2007 gave the internal market an extra boost for intra-EU trade. Total EU chemicals sales were worth €551 billion in 2014. Intra-EU sales (marked as "intra-EU exports" on the graph) climbed from €175 in 2004 to €273 in 2014 – a 56 per cent increase during the last 10 years."

Published each year, the report provides an analysis of the latest competitive trends in the European chemical industry and the most up-to-date information based on currently available data about the sector, which produces 17% per cent of the world's chemicals, employs 1.2 million workers and contributes €551 billion to the EU economy.





REACH 2018



ACT NOW TO ENSURE A SUCCESSFUL REGISTRATION

We are approaching the last REACH registration deadline (2018), which refers to substances manufactured or imported in low volumes (between 1-100 tonnes per year). Many companies that are first-time registrants (e.g. SMEs) will be affected, and although the deadline of 31st May 2018 may seem far away, if not yet done, they should start developing the best strategy for a smooth registration process.

A number of tools are either available or under discussion

More information here:

<http://echa.europa.eu/reach-2018>

REACH and CLP – the journey so far

ECHA has published a report which paints a picture of the impact, successes and remaining challenges regarding the ground-breaking European legislation on chemicals: REACH and CLP.

Download the report here: [Facts and Figures](#)

ECHA launches video in all European languages to further inform on REACH 2018 deadline



By 31 May 2018, all chemicals in Europe must be registered to protect both human health and the environment from their potentially toxic effects.

It also promotes innovation and the competitiveness of European industry.

If you are manufacturing or importing chemicals in Europe, you may still have work to do – Please visit therefore the ECHA website to find out more:

<http://echa.europa.eu/reach-2018>

The above-mentioned video, available in 23 European languages, can be seen here:

https://youtu.be/d4-WI6DLB18?list=PLOPGDACSD6qzb98uG_mjLr6JJBBEpcnc6



New generation of ECHA IT tools coming soon (June)

A new version of IUCLID (6), used for creating REACH and CLP dossiers, has recently been published on the [ECHA website](#).



Chesar, used for preparing chemical safety reports, and REACH-IT, the dossier submission and communication tool, will be updated at the end of June.

The new REACH-IT will strengthen ECHA's capability to make sure that dossiers cannot be submitted separately if a registration for the same substance already exists ('one substance, one registration' principle).

Once the new REACH-IT is launched, only dossiers created with IUCLID 6 can be submitted.

Until then, registrants must continue using IUCLID 5 for submissions.





CSR/ES Roadmap

FEICA: Assisting with the next REACH registration

Downstream Users (DU) also have a key role to play under REACH in improving the safe use of chemicals at their own site, as well as in communicating information about use both up to their suppliers and down to their customers.

The Chemical Safety Report/Exposure Scenarios Roadmap (CSR/ES roadmap) was initiated as a cross-stakeholder activity to improve the chemical safety reports and exposure scenarios communication along the supply chain. To that aim, a number of priority areas were identified and different tools and solutions for substances and mixtures are being developed. In the context of this CSR/ES roadmap, FEICA has been actively involved in the discussions to ensure that the communication on safe uses and use conditions of adhesive and sealant applications is not only improved, but also based on realistic and relevant data.

Some of the solutions under development by the DU sector-associations are the Use Maps, and the related approaches/inputs for the registrant's chemical safety assessments.

These documents hold essential information on the safe use of chemical mixtures for downstream users, authorities and REACH registrants.

More on [ECHA website](http://echa.europa.eu).

Use Maps: Improving the communication of DU information on uses to Registrants

Better communication in the supply chain results in the safer use of chemicals. Consequently, having a realistic and relevant basis for chemical safety assessments is very important.

The Use Maps can help here because they provide registrants with harmonised and structured information on how downstream users use the chemicals.

This includes both details on uses (use identifiers plus descriptions) and on their related exposure assessments inputs for workers, consumers and environment – so-called Sector-specific Worker Exposure Descriptions (SWEDs), Specific Consumer Exposure Determinants (SCEDs), and Specific Environment Release Categories, (SpERCs) respectively.

Therefore, registrants can:

- 1) use this information as input to their chemical safety assessments (CSA)**
- 2) communicate the relevant conditions for safe use down the supply chain, via the Exposure Scenarios (ES) annexed to the Safety Data Sheet (SDS).**



Bottom-up: Improving the exposure assessments of mixtures

Another major activity towards generating good quality “safe information” for mixtures, is the corresponding method to apply.

FEICA, as other DU sector organisations, have developed the “bottom-up methodology” to identify, consolidate, and communicate the safe use information for its sector-specific products and related uses.

This method assists formulators with the corresponding communication processes on use patterns and conditions of use up and down the supply chain

– i.e. it covers the upstream communication on use conditions via the SWEDs, and the downstream communication on safe use via the SUMI (Safe Use of Mixtures Information).

In addition, it also assists registrants by providing consistent and realistic exposure inputs (agreed at sector level) for their chemical safety assessments.

Templates for use maps and exposure assessments inputs for workers and consumers have now been agreed by stakeholders and are published.

They can be found in the new webpage launched by ECHA:

<http://echa.europa.eu/en/csr-es-roadmap/use-maps>





ENES Workshops on Sector Use Maps and SpERCs

Two technical workshops were organised in May 12th and 13th respectively, with ECHA and other stakeholders in the frame of the ES/CSR Roadmap activities, as part of the efforts to improve chemical safety reports and exposure scenarios communication.

- The **first day** analysed the experiences from downstream sector associations in developing the Use Maps, which aim to inform registrants on the typical uses and conditions of use of their products with a view to supporting the registrant's chemical safety assessments. The new format, recently published by ECHA, include both a description of use and exposure assessments input data (i.e. sector-agreed operational conditions and risk management measures), so that the registrant's chemical safety report and the exposure scenarios communicated downstream are based on realistic conditions of use. The exposure assessment inputs included in the use maps reflect the different routes of exposure – i.e. SWEDs (workers), SCEDs (consumers) and SpERCs (environment).

- The **second day** focused on the Specific Environmental Release Categories (SpERCs). In the context of emission evaluations under REACH, SpERCs are

meant to specify the very broad Environmental Release Categories (ERCs) that exist. In this regard, SpERCs aim to support realistic emission estimations in relevant use domains: they match typical use amounts and good practice operational conditions, to determine realistic release factors to the environmental compartments (i.e. water, soil, sediment and air).

The objective of the workshop was to seek agreement between Member State Competent Authorities, ECHA, and industry on the "SpERC documentation": current SpERC factsheet format and content structure for their background document. For this purpose, a set of examples, prepared by FEICA and ACEA, were distributed and commented on by the authorities in advance, addressing two different applicability domain – broad and narrow respectively.

Additional items such as the associated guidance and future steps for the SpERCs were also discussed.

In this workshop participants agreed that there must be a good balance between the SpERC's level of detail and its applicability. For instance, in FEICA's example the entire sector -applications of adhesives and sealants- are covered by just four SpERCs.

Therefore, FEICA SpERCs became a gold standard for the SpERC-documents as they have a broad applicability. Based on the workshop conclusions, industry can now revise all existing SpERCs based on harmonised definitions and formats. Additional points for clarification were identified however, so watch this space.





REACH - Restriction Bisphenol A

The Draft Commission Regulation amending Annex XVII to REACH as regards bisphenol A, has been notified by the European Commission to the World Trade Organization.

This draft Regulation relates to a new entry in Annex XVII to Regulation (EC) No 1907/2006. It would restrict the placing on the market of thermal paper containing bisphenol A in a concentration equal to or greater than 0.02% by weight. Application of the restriction is deferred for three years to allow industry sufficient time to comply with the obligations described above.

http://ec.europa.eu/growth/tools-databases/tbt/en/search/?tbtaction=search.detail&Country_id=EU&num=372&dspLang=EN&basdatedeb=&basdatefin=&baspays=HUN&basnotifnum=30&basnotifnum2=&bastypepays=&baskeywords=&CFID=1627091&CFTOKEN=6fb031901cda6a0-9B7206FF-F479-02BE-B504317B3C902F5B



REACH and alternatives to animal testing: new rules for skin sensitisation and skin corrosion/irritation tests

The European Commission will amend REACH annexes to replace in-vivo tests by in vitro or in chemico, for the testing of chemical substances for skin corrosion/irritation, serious eye damage/eye irritation and acute toxicity and for skin sensitisation. The new rules will soon become applicable (after publication in the Official Journal, expected for May and September 2016 respectively).

The amendments reflect the significant scientific progress made in recent years in the development of non-animal test methods. The amendments are timely and will significantly reduce the amount of animal tests needed in the run up to meet the last REACH registration deadline in 2018.

The new requirements for skin and eye irritation replace the standard animal studies by in vitro data. Animal studies should only be needed in exceptional cases where in vitro tests are not suitable. In another change to the Annexes, there will be no longer a need to perform an additional dermal test for substances that did not show acute toxicity in oral tests.

The amendment for the testing for skin sensitisation acknowledges that the newly developed in vitro studies can be used for the purpose of registering a substance under REACH, if these tests provide an equivalent level of information on the sensitisation potential and strength of a substance as the standard animal test.

The European Chemicals Agency (ECHA) is in the process of adapting the relevant guidance for applying the new rules.

For more information:

[Proposed amendment of Annexes VII & VIII regarding skin corrosion/irritation, serious eye damage/eye irritation and acute toxicity](#)

[Proposed amendment of Annex VII regarding skin sensitisation](#)



NEW FEICA MEMBERS



ARAYBOND

Feica Direct Company Member

1 Rue Alexandre Freund
Saint-Louis, France



ARLANXEO

Affiliate Company Member

Alte Heerstrasse 2
Dormagen, Germany



JAPAN UPDATES PACS

Japan has designated more substances as Priority Assessment Chemical Substances (PACs) under the Japan Chemical Substances Control Law (CSCL).

This has brought the number of PACs to 193.

http://www.safe.nite.go.jp/jcheck/list7.action?category=230&request_locale=en

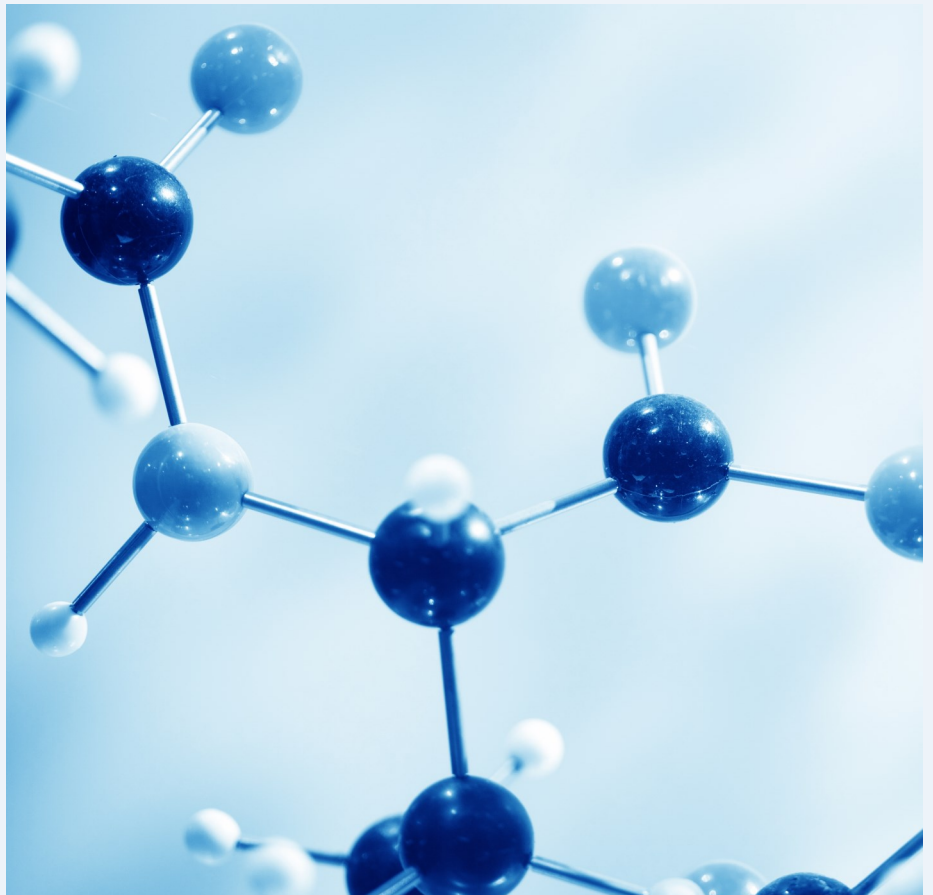
China State Administration of Work Safety (SAWS) publishes new Catalogue of Occupational Hazardous Factors

The Chinese State Administration of Work Safety (SAWS) issued their newly revised Catalogue of Occupational Hazardous Factors this month. The new catalogue takes immediate effect and has replaced its previous version which was issued in 2002. In the new version, the hazardous factors are divided into 6 categories, which are dust, chemical factors, physical factors, radioactive factors, biological factors and all other factors.

Furthermore, it cancels the industry examples which had become outdated and inaccurate. The new catalogue deletes these examples and leaves open terms for hazardous factors.

Available in Chinese only, it can be downloaded via:

http://www.chinasafety.gov.cn/newpage/Contents/Channel_5330/2015/1203/261516/files_founder_1475826947/254659637.doc





Welcome & Farewell



Nicolás Fuentes

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New FEICA Staff

FEICA welcomes Nicolás Fuentes who recently took on the position of Regulatory Affairs Officer. Nicolás is settling in very well. His first task was to take over the management of the OCF TWG, but he is now also involved in issues such as CLP and diisocyanates. I hope you will join us in welcoming Nicolás to our community.

Matt Croson from the ASC moving to pastures new

Matt Croson is leaving the Adhesive and Sealant Council (ASC) after 6 years to become the President of a gear manufacturing oriented trade group. Many of you know Matt from his attendance and participation at many FEICA Conferences. Matt's last day at ASC will be 17 June and we wish him all the very best for the future.

FEICA CONNECT is the quarterly newsletter for FEICA Members.

The next issue will be published in June 2016 (Our Special Conference Issue).

Please send any pertinent information to be considered for our June issue to info@feica.eu

Kindly note that FEICA Connect is published four times a year; in January, May, June (Special Conference Issue) and in October.



FEICA thanks the authors who have contributed to FEICA CONNECT.

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