INTRODUCTION

Welcome to the 9th PDA Europe Annual Conference!

Polyurea, a Pulse Check

16-18th November 2015 in Berlin, Germany

We are pleased to welcome you in Berlin for the 9th annual conference of the Polyurea Development Association Europe.

With this edition, the Programme Committee and the Board of Directors want to put Polyurea through its pace. We have put together a programme which will certainly stimulate interest and lively discussions among the participants.

You will have the opportunity to listen to presentations, which cover almost all aspects of the Polyurea business. You will get detailed insights on topics ranging from the surface preparation to the application of Polyurea in different fields.

In addition, various case studies will show you the practical aspects to be taken into consideration when dealing with Polyurea e.g. what to do when Polyurea needs to be removed?

Presentations about PPE and health regulations will provide practical guidance on taking into account the necessary safety aspects when dealing with chemicals.

More subjects will be covered like raw materials and their varieties as well as the combination of products with Polyurea.

In parallel, a practical Polyurea spray demonstration will also be organised to ensure you have the full picture on Polyurea.

Besides the official part you will have the opportunity to build up or maintain your network in a relaxing atmosphere.

We hope to meet your expectations and are looking forward to a successful event.

Herbert Mann
Chairman Programme Committee
# TIMETABLE

## Day 1

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<td>Education course: Introduction to Polyurea (incl. 15 min coffee break)</td>
<td>Bangkok</td>
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<td>13:00 - 18:00</td>
<td>PDA Members - Board Meeting (incl. 15 min coffee break)</td>
<td>Peking</td>
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<tr>
<td>19:00 - 20:00</td>
<td>Welcome Cocktail Reception sponsored by Huntsman, BASF &amp; Sika</td>
<td>Montreal</td>
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## Day 2 - Science Day

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<td>Welcome to the 9th PDA Europe Annual Conference</td>
<td>Berlin- Berlin 2</td>
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<td>9:00 - 9:30</td>
<td>Range of Raw Materials Set for the Polyurea Industry &amp; Case Study of Maracanã Stadium (Brazil)</td>
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<td>Steven Buvens &amp; Stijn Roekaerts, Huntsman</td>
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<tr>
<td>9:30 - 10:00</td>
<td>Fast Track Substrate Preparation</td>
<td>Berlin- Berlin 2</td>
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<td>Jens Hofele, Velosit</td>
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<td>10:00 - 10:30</td>
<td>Coffee Break kindly sponsored by Albermarle &amp; Exhibition</td>
<td>Berlin- Berlin 3</td>
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<td>10:30 - 11:00</td>
<td>PU Foams &amp; Polyureas: Amazing Synergy or Terrible Nightmare</td>
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<td>Hugo Herault &amp; Raul Fernandez, Krypton Chemical</td>
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<tr>
<td>11:00 - 11:30</td>
<td>The Other Polyurea - The PASQUICK-Toolbox for Construction Applications</td>
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<td>Karl H. Wuehrer, Covestro Deutschland</td>
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<tr>
<td>11:30 - 12:00</td>
<td>Polyurea, a Road Surface?</td>
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<td>Dirk Uebelhoer, Sika</td>
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<td>12:00 - 13:30</td>
<td>Lunch kindly sponsored by BASF &amp; Exhibition</td>
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<td>Riverboat Rehabilitation with Polyurea: Renewing Resources with Technology</td>
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<td>Murphy Mahaffey, PMC</td>
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<td>14:00 - 14:30</td>
<td>Removing of Polyurea by Using Mechanical Technologies and Steel Surface Preparation</td>
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<td>Patrick Grandchamp, Blastrac</td>
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<tr>
<td>14:30 - 15:00</td>
<td>Coffee Break kindly sponsored by Covestro Deutschland &amp; Exhibition</td>
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**Day 2 - Science Day**

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<th>TIME</th>
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| 15:00 - 15:30 | Latest Developments of Polyurea Based Coating Systems for the External Protection of Transmission Lines  
Christina Nicoara, TIB Chemicals AG | Berlin - Berlin 2 |
| 15:30 - 17:00 | Annual General Meeting  
- Committee activities presentation  
- Financials - YTD  
- Nomination of Board & President 2016 | Berlin - Berlin 2 |
| 18:00       | Dinner Reception                                                      |                   |

**Visit & Dinner reception in a local brewery in Kreuzberg**

The dinner reception will take place in a local brewery, Brauhaus Südstern, located in the Kreuzberg area. Before the dinner, you will have the opportunity to taste some beers and learn about all aspects of the brewing process and the history of beer-making. You will see the ingredients used for brewing beer, get an explanation of the process and see the different stages, like the mashhouse and fermentation.

Kreuzberg is one of the trendiest districts of Berlin, many bars & pubs can be found in the area.

**Meeting point:** all participants are requested to meet in the lobby of the hotel at 18:00. Any changes will be posted at the registration desk.

**Departure:** departure by bus from the lobby of the hotel at 18:15 sharp.

**Dress code:** business casual.

**Programme:**

- 18.00: Meet in the hotel lobby
- 18.15: Departure by bus to the restaurant
- 18.30: Beer tasting & presentation of the brewery
- 19.30: Dinner reception
- 22:00: Transfer to the hotel Berlin Berlin.
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<td>New Method for Evaluating Wear Resistance of Coating Systems intended for Use on Concrete Parking Decks – Continuation Ylva Edwards, CBI Betonginstitutet</td>
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<td>9:30 - 10:00</td>
<td>Surface Preparation</td>
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<td>10:30 - 11:00</td>
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<td>Polyurea Spray Demonstration</td>
<td>Outdoor Parking</td>
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<td>Eureka</td>
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<td>14:30 - 15:00</td>
<td>Indoor Air Quality, an Update on the German Odor Emission Test Activities Karl H. Wuehrer, Covestro Deutschland</td>
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<tr>
<td>15:00 - 15:30</td>
<td>Thanking Note from New President</td>
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**Polyurea Spray Demonstration**

During the conference you will be able to attend a Polyurea Spray Demonstration before the lunch break on Wednesday 18 November in the outdoor parking.

The demo is organized by Alain Van Oorsouw, Chairman of the PDA Europe Training Committee with the support of Graco, Pultex & NTE.
Steven Buvens, Huntsman

Steven graduated as industrial engineer chemistry in 1991 and worked for 19 years as R&D paint formulator for several Belgian coating companies (industrial and decorative sector). In 2012, he joined the Huntsman Performance Products division (HPP) and provides technical support for amines used in CASE and polyurea applications.

Our presentation will focus on the complete range of isocyanate & amine products for polyurea, the chemistries involved and how they affect the end properties of polyurea. In addition, we will present our new polyetheramine JEFFAMINE® D2010 amine and give an overview of available SUPRASEC® grades such as SUPRASEC® 2331 and SUPRASEC® 2954. SUPRASEC® and JEFFAMINE® amine are registered trademarks of Huntsman Corporation or an affiliate thereof in one or more, but not all, countries.

Stijn Roekaerts, Huntsman

Stijn joined ICI/Huntsman in 1994 after studies of Mechanics. After various roles in insulation and automotive applications he joined the Coatings team in 2006 as an application specialist. In that role he is working on development, market introduction & after sale technical assistance for mainly polyurea and 2K flooring applications. In this position he joined the PDA Education Committee where he is a trainer for the Applicator Spray Course.

Polyurea in Maracanã Stadium (Brazil)

Initially there was aversion towards polyurea after unsuccessful tests performed by improperly trained and uncertified operators. To overcome those negative perceptions, a key customer of Huntsman prepared a new set of demonstration samples and field tested polyurea’s performance. These tests yielded into positive results for polyurea. After this outcome, polyurea was selected the preferred material for waterproofing the viewing area.

Fast Track Substrate Preparation

Jens Hofele, Velosit

Dr. Jens Hofele completed his degree in Analytical Chemistry at the University of Paderborn in 1996. He took over the responsibility of the R&D department at Schomburg and developed construction chemicals for 7 years. Dr. Hofele was promoted as Managing Director and became a shareholder in the Schomburg Group in charge of the development of international markets. He left the company 2014 and started his own venture VELOSIT with a strict focus on fast track construction materials. The VELOSIT plant went into operation early 2015 and supplies a wide variety of construction materials including concrete repair systems and polyurea coatings.

Polyurea coatings enjoy a reputation of extremely fast application and cure times. Unfortunately the preparation of the surface to be coated can be quite time consuming and becomes the determining factor for the down-time in a polyurea job. The presentation will demonstrate a new approach to prepare, patch and prime concrete and masonry substrates.
The use of PU foams in combination with polyurea coatings is very common since many years. Insulation and waterproofing go hand in hand in many applications, where both spray applied materials provide great benefits to end users and installers. It is very common in roof refurbishment as well as in new buildings to make use of integrated foam and polyurea systems whereby the main contractor can get two important aspects of every building (insulation and waterproofing) from a single source and with a single guarantee.

Some PU foams can also be a very effective tool for installers and provide substrate preparation and priming, at very high application rates and curing speeds, therefore dramatically increasing productivity at job sites.

On the downside, low quality PU Foams applied by unskilled installers, at the wrong thicknesses, and coated with the wrong elastomers, are all too familiar... Consequences like pinholes, lack of adhesion between layers, cracks in coatings, premature ageing and degradation, etc. do not correspond with the standards that the industry demands, nor to European certification requirements for roofing application.

There is hence an important need to develop integrated bespoke solutions for this market. Krypton Chemical has developed a range of specialty PU foams specially designed for insulation and roofing applications, which combined with its wide range of polyureas, can satisfy the most demanding needs and benefit from the synergies between both materials.

PASQUICK (Polyaspartic Coatings) are well introduced in the coating world. Started as a reactive diluent for high solid automotive repair paints it is now a State-of-the-Art-technology. Polyaspartic resins are used as gel coat resins for wind mill blades, heavy and lite duty corrosion protection top coat and as chain extenders in polyurea spray coatings. However the market penetration in the construction industry can still be improved. One of the hurdles is the moderate viscosity of the amines and the lack of flexibility.

The actual presentation will give an overview of the latest developments in the Polyaspartic Coating area of the years 2012 and 2013 in our laboratories in Leverkusen. We will present details on the new low viscose Desmophen NH resin and the brand new flexible aliphatic polyisocyanate/prepolymer. In addition we want to give an update on the latest developments with aliphatic pure polyurea spray coatings.
Indoor Air Quality, an Update on the German Odor Emission Test Activities

Wednesday, 18 November, 14:30 - 15:00

Karl H. Wuehrer, Covestro Deutschland

For several years now the indoor air quality has become an important role in the construction industry. The German state administrations established the AgBB working group (Health-related evaluation of emissions of VOCs from building products) in 1997 which presented and installed the health-related evaluation scheme in 2007. From the beginning, the scheme contained an emission/VOC part and an odor testing part. While the test method for the VOCs was and is well established the odor test standard needed to be developed. Finally the EN ISO 16000-28 was published in 2012.

During the last 3 years the industry and governmental bodies went through a pilot phase to check the standardized method. The results of this pilot phase were reported at a conference beginning of October at the Umweltbundesamt (Federal Environment Agency) in Dessau, Germany.

This presentation will report the results of the pilot phase and the conference.

Polyurea, a Race Surface?

Tuesday, 17 November, 11:30 - 12:00

Dirk Uebelhoer, SIKA Services AG

Mr. Dirk Uebelhoer has received an engineer’s degree in Chemical Science at the University of applied Science in Stuttgart in 1991.
He has 25 years’ experience in the construction chemicals industry, working as technical manager, product line manager, sales manager and technical marketing responsible in the paint, protective coatings, flooring and water proofing market.
His functional experience includes specifying, testing, sales, marketing, strategy appraisal, due diligence and business management in markets which have included commodities and engineered tailor made solutions, as well as presence in market related associations and standard setting committees.

Case history of refurbishment works on a steel bridge deck with limited down time, Polyurea is used as wearing course, as a road surface direct exposed to traffic. The system has been tested in accordance to the German standard TL/ TP-RHD-ST of the ZTV – RHD-ST to be sure that it will fulfil all requirements.

River Boat Rehabilitation with Polyurea: Renewing Resources with Technology

Tuesday, 17 November, 13:30 - 14:00

Murphy Mahaffey, PMC

- WIWA GmbH; Director of International Sales: Asia-Pacific, Canada, South America, 2008-2011
- Business Development Manager- International Aftermarket, Peerless Pump Company 2012-2014
- Polyurethane Machinery Corporation- Director of International Sales 2014 – Current

Restore a salvaged 2 Story (6 meters), 70 foot (22 meters) Sternwheeler (paddleboat) – Brazos River, Waco Texas – 2014
An industrious first time private boat builder, designed and built a double-decker sternwheeler on the frame of an historic sunken paddleboat he salvaged. He wanted to build it back properly and avoid another sunken nightmare. He decided early in the rebuild process to fill the hull of the paddle boat frame with flotation foam, and spray the exterior of the hull with high abrasive resistant and waterproofing polyurea coating. He turned the 6 meters tall x 22 meters long giant upside down to get the work started.
Presentation will include job profile details including surface prep, important points in the restoration, equipment and materials and show results of finished product.
Patrick Grandchamp is more than 25 years working in the Blastrac organization and has a lot of knowledge about the best possible technologies for removing polyurea material and preparing both concrete and steel surfaces.

The removal of existing polyurea is not an easy job. Blastrac has developed several machines and tools to easily remove different types of polyurea from different type of surfaces on a fast and environmentally friendly way. All Blastrac technologies are not using any water or chemicals and are environmentally and operator friendly.

For the preparation of horizontal and vertical surfaces Blastrac has developed a special line of steel blasting equipment to get the best suitable preparation before applying polyurea material.

**Head of Quality Control & Application Technique Coating System**

*Tuesday 17 November, 15:00 - 15:30*

Christina Nicoara, TIB Chemicals AG

1998 – M.Sc. at Faculty of Chemistry and Chemical Engineering, Babes-Bolyai University Cluj Napoca Romania
2006 – PhD Chemistry and Earth Sciences University Heidelberg Germany
2007 – 2009 Process Engineer in the electroplating industry
2009 – 2014 development Chemist in the R&D Department Coating Systems at TIB Chemicals AG, Mannheim, Germany
Since 2014 – Head of Quality Control and Application Technique Coating Systems at TIB Chemicals AG, Mannheim Germany

Experience in the field of corrosion protection, coating systems, thermal curing systems, bitumen and bituminous products, polymer chemistry.

Traditional liquid 2K PU and EP Coatings for the external corrosion protection of transmission lines have been in the market for over fifty years and important advancements have been made over this time span. Still, in order to meet the oil and gas companies’ growing exigencies on coatings performance in both technical and economic terms, substantial innovations have long been awaited.

The author exposes recent achievements that have been realized by the development of a high-performance solvent-free polyurea coating for the external protection of transmission lines especially under severe and varying conditions. The new development, applied by 2K – Airless hot spraying Equipment, features extremely high performance, even at temperatures far below 0°C. The product is certified in accordance with the internationally recognized standard DIN EN 10290 “Steel tubes and fittings for on and offshore pipelines – External liquid applied polyurethane and polyurethane modified coatings”.

**New Method for Evaluating Wear Resistance of Coating Systems Intended for Use on Concrete Parking Decks**

*Wednesday, 18 November, 9:00 - 9:30*

Ylva Edwards, CBI Betonginstitutet

Since November 2009, Ylva is employed by The Swedish Cement and Concrete Research Institute (CBI) as Senior Researcher, and since 2012 Associate Professor (Docent) in Structural Engineering and Bridges at the Royal Institute of Technology (KTH) in Stockholm. Before that, she was employed at the KTH within Highway Engineering for ten years and got her Doctoral degree there in 2005 (Influence of waxes on bitumen and asphalt concrete mixture performance). She also worked at the Swedish Road and Transport Research Institute (VTI) for many years as researcher and research leader within different highway material areas.
In collaboration with manufacturers/contractors and building owners, the Swedish Cement and Concrete Research Institute is since 2013 conducting a research project concerning parking decks. The purpose of the project is to develop a basis for how a parking deck should be designed with regard to floor coverings on concrete. The resistance to studded tires is here of great importance. The project focuses on relevant methodology for simulating the kind of studded tire traffic that occurs on parking decks in Nordic countries. Field test application of nine different coating systems has been carried out in two garages so far. The products involved are: mastic asphalt, hard concrete, different polyurethane, polyurea and acrylate based systems. Test slabs have been applied in connection with the work on site, for testing wear resistance in the laboratory. The project was presented in Krakow 2014. Since then yet another stage of the project has been applied for and granted. This Stage III of the project will contain a third test field (outdoor) of at least 7 coating systems and follow up studies of the previous two test fields from 2013 and 2014, respectively. In addition to this, a number of older parking decks in Stockholm, with different kinds of coating systems, will be inspected and documented within the project (during the summer of 2015). A guideline and a specification will be presented by the end of 2015.

Surface Preparation
Wednesday 18 November, 9:30 - 10:00
Teodoro du Marteau, NTE

Teodoro Du Marteau is a chemical engineer since 1974, specializing in process control. Since 1978 he is responsible for the formulation of resin systems, of all issues related to the installation, creating in 1996 the first code of good practice for resin floors. Since 1996, he formulates and manufactures Polyurea, initially for the waterproofing of bridges tunnels and so on. Since 2001, he formulates and manufactures Polyurea to the field of construction, before realizing today more than 1,000,000 square meters of application in various fields, parking lots, roofs, concrete protection and so on. Since 2007 he is member of PDA Europe and of the Board.

In 2012 he founded the Italian Committee of PDA Europe, which in turn created the first code of practice for the proper use of Polyurea. He has always been present, both as a speaker and as a participant, to major global conferences on resin systems and polyurea.
Surface preparation is perhaps the most important element for a successful implementation of waterproofing with polyurea. This aspect is not limited only to the physical preparation of the surface, but also, and not only the right choice of adhesion promoters, which vary depending on the support and use.

MDI & Polyurea Spraying
Wednesday 18 November, 10:30 - 11:00
Erik Vangronsveld, Huntsman

Erik is an Industrial Hygiene by education and his expertise is in the field of industrial hygiene air sampling and analysis of isocyanates and he has been involved in investigating polyurethane (PU) industry workplaces for over 20 years. He is currently the EU Regional Representative of the International Isocyanate Institute (III) and in this role a member of the III Scientific Committee. The III evaluates, reviews and contracts scientific research on TDI and MDI to support the scientific strategy of the Institute with respect to improving the understanding of workplace health and environmental hazards and exposure risks where TDI and MDI are used.

Erik is active in various groups the European Diisocyanate & Polyol producers Association (ISOPA) and is heavily involved in exposure risk assessment within the REACH regulatory framework and in development of product stewardship programs. He is also the Belgian representative in ISO Committees on Workplace Atmosphere/Organic Vapors Measurements [ISO TC 146/SC2/WG4] and Workplace Atmospheres/Dermal Exposure Measurement [ISO TC 146/SC2/WGB]. In the first part a regulatory update will be given: Regulators in EU have some concerns regarding the safe use of isocyanates and this group of substances is being analyzed and evaluated through different processes within the REACH framework. An update will be given on what the status is of this evaluations.
In the second part more specific information is given on how to use MDI safely while spraying:
All chemicals have a certain degree of hazard ranging from zero to very high. Working with chemicals requires an understanding of the hazards of these chemicals, the effects they might have if not used safely, how to react in cases of exposure incidents and most important how to prevent exposure incidents. This part will describe the typical hazards involved with polyurea spray and which best practice technical, organizational and individual health and safety precautions can be taken. The paper will also map out the typical process steps within the framework of REACH and explain what is required as a minimum for REACH compliance.

Injection Bonding With A Fast 2K-Polyurea-Adhesive
Wednesday 18 November, 11:00 - 11:30
Beat Bruderer, nolax

In 2007 nolax patented the fast 2K-Polyurea adhesive technology. This fast technology helps bond different materials in seconds. The adhesive system can be especially used for injection applications in various industries where fast production times are required.
Nolax has formulated multiple adhesive systems exhibiting different properties. These adhesives are roughly comparable to polyurethane-adhesives, but they cross-link much faster. The 2K-Polyurea-adhesives can also be formulated with a wider range of properties.
It is possible to customize properties, such as elasticity, final bond strength, or the adhesion-profile to precisely match the intended use. Additionally, polyurea compounds are extremely robust to environmental influences such as humidity, temperature and many chemicals. All industries where fast bonding processes are required, where new materials need to be bonded, and where flexibility in mass fabrication in batch sizes of 1 is needed are a future potential.
Nolax gives you a view into the adhesive world where injection bonding is used.

Eureka
Wednesday 18 November, 14:00 - 14:30
Alain Van Oorsouw, BASF

Alain van Oorsouw started his career at BASF Nederland BV after finishing a polytechnic degree in chemical engineering in 1999. Initially the focus was on quantifying the existing coating systems but quickly the focus was changed to developing, implementing and modifying polyurea and other spray elastomer applications. In this position he also joined the PDA as a board member in 2008 where after he has been leading the Applicator Spray Courses until present day. Currently active in Sales Construction, but the focus is on polyurea on a European scale.

Mankind has always been looking for new and innovative ways of quantifying or proving theories and everyday challenges, when applying polyurea this is no different. In an approach to a polyurea job, during the physical application process itself or during the final inspection there will always be need the need to test, prove and quantify. This presentation specifically targets the tools and devices required to perform the above mentioned tasks. The goal of this is not to promote certain make, models or manufacturers but to provide an overview into the existing range of testing equipment suitable for most applicators, formulators or specifiers, architects or contractors.
The exhibition is taking place in the Berlin-Berlin 3 meeting room.

1. Huntsman
2. Adcos
3. Purcraft
4. Magma
5. Graco
6. Covestro
7. TQC
8. Gama
9. PMC
10. Nolax
11. Wiwa
12. SPF Depot
13. Blastrac
14. Tecnopol
ADCOS is a Belgium based system house and manufacturer of construction chemicals and high performance coatings, used in construction, civil engineering, oil, gas and mining. We supply quality polyureas together with application know how at challenging conditions.

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www.adcos.be

Blastrac is the leading international developer and manufacturer of surface preparation equipment. We have a full range of over 50 different machines for preparing & maintaining vertical and horizontal surfaces of all kinds of materials. Our innovative techniques are developed in-house, on demand through our strong R&D Department. All Blastrac technologies are purely mechanical and therefore very clean. None of our technologies create air pollution, use chemical substances or waste valuable drinking water. With all our equipment you are also able to work dust-free, meaning that each machine can be connected to a Blastrac dust collector which will collect all the dust and other small hazardous particles that are released during the surface preparation process. This creates a safe working environment!

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Covestro is a renowned supplier of high-tech materials and innovative system solutions. Products with leading positions on the world market account for a major share of sales, in particular polyurethanes and their precursors. Principal customers are the automotive and construction industries, the electrical/electronics sector and manufacturers of sports and leisure articles, packaging and medical equipment.

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EXHIBITORS

GAMA manufactures and distributes equipment and accessories for the Urethane Industry. GAMA has a team of engineers and technicians with more than 20 years of experience in the Design and Manufacturing of PU High Performance Spray/Pour Machines. A solid project addressed to people and companies that require exclusiveness, functionality, quality, and reliable service, but not loosing flexibility and adaptation capability to the constant market changes. GAMA Products Line: High Tech Spray & Pour Equipment for Polyurethane Foam and Polyurea applications.

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GRACO

Founded in 1926, GRACO is a world leader in fluid handling systems and components. GRACO products move, measure, control, dispense and apply a wide range of fluids and viscous materials used in vehicle lubrication, construction/renovation and industrial/automotive settings. GRACO’s ongoing investment in fluid management and control continues to provide innovative solutions to a diverse global market.

GRACO’s European Headquarters are based in Maasmechelen, Eastern Belgium. Main activities include assembly, distribution, customer service, technical assistance, sales and marketing. GRACO employs about 300 people in Europe. We work with many distributors and service partners throughout Europe to guarantee customer satisfaction.

Graco
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www.graco.com

Huntsman Performance Products offers one of the broadest range of JEFFAMINE(R) polyetheramines and JEF-FLINK(R) chain extenders. These are key ingredients in a polyurea system to create new formulation options to tailor-made the systems according the most specific coating needs.

Huntsman Performance Products
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Email: katty_darragas@huntsman.com
www.huntsman.com/performance_products
Magma designs and manufactures machineries and plants to mix polyurethane, POLYUREA, epoxy, phenolic, silicon resins, etc. By analyzing the customer’s needs, we study and design machines suitable for the technical requirements, with a particular attention to the overall dimensions.

With the delivery of the machine, we also grant assistance and maintenance for a correct working, giving an active cooperation to the operators in charge to use the system. In case of maintenance, we supply the spare parts in a way to reduce the customer’s troubles caused by the machine stop and the connected extra charges.

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www.magmamacchine.it

**Nolax**

Nolax is the adhesive scene’s farm team. Nolax shows ideas and visions, lets them sprout, and nurtures them to market readiness. In other words: nolax develops and sells start-ups in which bonding technologies play an innovative role – in applications with large volumes and potentials focused on safety, comfort, health, aesthetics, and mobility. The objective at nolax is to solve assignments in new ways by joining materials more elegantly, efficiently, safely, quickly, and – at the same time – more profitably.

Nolax is...
- an independent, family-owned company,
- with around 60 specialists from various industries and areas of expertise,
- CHF 44 million in sales,
- 11 active start-ups,
- core competency in Health, Living, Mobility
- and clusters in Europe and North America.

**Nolax AG**  
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Email: Beat.Bruderer@nolax.com
Polyurethane Machinery Corporation specializes in the design and manufacture of CE Certified spray equipment for application of polyurea and polyurethane materials. Equipment is manufactured in the USA and sold via distribution globally. PMC is currently growing our international distribution network and we are actively looking for distribution companies to join the PMC team.

Founded in 2007 on the principle of “designed with the customer in mind”, PMC builds hundreds of machines each year for the industry and offers the best quality heated hose available. Specialization in polyurea equipment allows PMC to have a focus on technical development, distributor support and target engineering solutions for polyurea application. The equipment is designed to be rugged and used every day in the most challenging environments. Solid state relays and point-to-point wiring give consistent spray performance with no costly and fragile circuit boards to cause downtime.

Stop by our tabletop to see the AP-2 spray gun- it has a patent-pending design and provides a high-quality, cost effective way to spray polyurea. PMC offers hydraulic drive and pneumatic drive equipment with horizontal pumps for the most consistent spray pressure possible. Our design and sales team are industry experts with over 120 years of combined experience. Visit and learn more about PMC equipment- there is a difference!

Polyurethane Machinery Corporation (PMC)
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www.polymac-usa.com

PURCRAFT is your supplier for heated hoses and accessories for the sprayfoam and Polyurea industries.

PURCRAFT is a family based enterprise located in central Germany. In second generation we have specialized in the development and assembly of heated hoses. Besides we supply our worldwide customers with a wide range of accessories.

Our product line comprises electrically 2k-heated hoses in various lengths and dimensions, custom made heated hoses in 230V and LV, drum pumps, agitators and spare parts for machinery, pumps and spray guns. PURCRAFT hoses are proudly made in Germany and are compatible with most GRACO, GUSMER®, GAMA™, PMC® and GlasCraft systems. Of course you can combine your existing equipment with PURCRAFT products.

PURCRAFT GmbH
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Tel: +49 6074 215 600 1
Email: info@purcraft.de
www.purcraft.de
SPF Depot was founded in 2007 and provides aftermarket parts for all of the major brands in the market. Their solvents are used by manufacturers such as Polymac-USA, IPM Pumps and others. They are stocking distributors for PMC-Polymac, Allegro Safety, 3M Safety Products, IPM Pumps, North Safety and others.

They operate from a 10,000’ building in Bossier City, Louisiana USA and from a 20,000’ machine shop. They stock OEM parts as well as aftermarket parts. SPF Depot has stocking distributors of aftermarket parts and the OEM parts in Poland, Sweden, S Africa, Japan and Guam.

SPF Depot was awarded the Presidential E-Award for excellence in exporting in 2014 as well as the SBA award for Export Growth in the State of Louisiana for 2014 and was the only Louisiana company to receive either award for their rapid growth, marketing and superior customer service.

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The TECNOPOL Group was established in 1996, and specialises in polyurethane foams for insulation and liquid waterproofing membranes.

Thanks to our constant research and development of new highly technological products and systems, we are able to formulate new materials of the highest quality.

TECNOPOL has a specialist team of professionals who provide technicians, customers, and professionals who use their application systems with the advice they need so that they can successfully complete their insulation or waterproofing project.

**Tecnopol Sistemas, S.L.**  
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www.tecnopol.es
TQC designs and produces field measuring instruments and lab equipment for testing paint and coatings and general surface treatment. Our objective is to create and offer solutions for every possible QC-application in surface technology. TQC products are known for their ergonomic features and user friendliness. TQC’s production facility is located in The Netherlands. In order to complete our range we work closely together with renowned manufacturers from all over the world.

For special applications TQC has established the ‘special products service’. The close cooperation between the Technical Sales Department and the Research and Development department makes it possible to develop special products according to customer specification.

The paint and coatings market is the main playing field of TQC and their agents. TQC therefore feels obliged to contribute to the market with its expertise. TQC is an active member of ISO, NEN, DIN and ASTM. Together with representatives from other major market players TQC tries to assist in keeping the paint related standards up to date, relevant and objective. In many occasions TQC plays a leading role. Mr Nico Frankhuizen for example is chairman of the Dutch ISO-Paint and Varnishes group (NEN).

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WIWA Wilhelm Wagner GmbH & Co. KG is a leader in spray technology including equipment for Polyurethane Foam and Polyurea applications, fluid handling, material extrusion and injection systems. WIWA products are engineered and manufactured in Germany by our 120 highly skilled employees and distributed by WIWA affiliated distribution centers in the US, Middle East and China. Together with its worldwide distributors, WIWA delivers best-in class solutions to fit each customers requirements.

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GUIDELINES FOR PDA EUROPE MEMBERS AND CONFERENCE PARTICIPANTS ON THE APPLICATION OF ANTI-TRUST / COMPETITION RULES TO TRADE ASSOCIATION

1. Activities of trade associations must comply with the relevant competition/antitrust rules. The same basic principles that govern anti-competitive arrangements also apply when trade associations are used to co-ordinate commercial activities.

2. Violations of competition laws carry serious consequences. For example, the starting level for a cartel fine in the European Union (EU) is €20 million per company. This figure can be adjusted depending on the circumstances (up to a maximum of 10% of the annual turnover of the entire group to which that company belongs). Under EU law, it is also expressly provided that trade associations themselves can be made subject to a fine up to 10% of their turnover.

3. Competition/antitrust authorities in the U.S., the EU and elsewhere are focusing increasingly on the activities of trade associations. The suspicion is that such associations are a cover for cartel-like behaviour (e.g., price-fixing, collective discrimination, etc.).

4. International cooperation among antitrust enforcement authorities is also evident. It is no longer uncommon for governments – particularly the U.S., the EU, Canada and Japan – to coordinate simultaneous searches, service of subpoenas, and ‘drop-in’ interviews (‘dawn raids’) to avoid premature disclosure of an investigation and the possible destruction of evidence.

5. As with U.S. antitrust law, it is not necessary for arrangements violating EU competition rules to occur in the territory of the EU.

6. Equally important, competition concerns will also arise where there is no actual effect on competition in the market concerned. The authorities will intervene where they perceive there to be a potential effect, even where that effect is not intended.

7. In general, it should be borne in mind that competition/antitrust rules prohibit arrangements between competitors, which are intended (or have the effect) to achieve aims such as the following:
   * price-fixing: almost any activity, which would allow its members to co-ordinate their pricing policies;
   * market-sharing or customer allocation: activities aimed at dividing the given market concerned into distinct territorial markets or allocating customer groups;
   * collective boycotts: a requirement to deal only with other members or to boycott other firms;
   * information-exchange arrangements: in general, all exchanges of business information (such as pricing policies, costs or sales figures) between competitors, which would allow them to co-ordinate their commercial strategies.

8. In addition, certain types of activity particular to trade associations are subject of specific consideration including:
   * the setting of membership criteria of a trade association,
   * research and development carried out or co-ordinated by a trade association,
   * joint publicity and promotion of the generic products by a trade association,
   * product standardisation, certification and quality measures administered through trade associations.

9. This brief note and the “Dos” and “Don’ts” are intended to give general guidance only with regard to competition/antitrust laws. Before taking action, particularly regarding any assessment of risk, companies are advised to request specific advice from the relevant legal counsel.
DO,

· understand the purposes and authority of each PDA Europe group or activity in which you participate.
· insist that written agenda are prepared for all PDA Europe meetings, are circulated in advance and are adhered to during the meetings.
· appoint someone in attendance to take notes and prepare minutes at every PDA Europe meeting.
· object at any time when meeting minutes do not accurately reflect the matters, which transpired at the meeting.
· consult with PDA Europe counsel and your company counsel on all antitrust/competition questions relating to PDA Europe meetings and activities.
· protest against any discussions or meeting activities which appear to violate antitrust/competition laws.
· leave any meeting at which you feel that matters discussed continue to raise competition concerns and request that your leaving be recorded in the minutes.
· advise PDA Europe counsel of any activities in or surrounding PDA Europe meetings that might violate antitrust/competition laws.
· compete vigorously and independently at all times.

DO NOT,

· in either fact or appearance, discuss or exchange comments or other information regarding:
    · individual company prices, price changes, price differentials, mark-ups, discounts, allowances, credit terms, or related financial issues, data that bear on price (e.g., costs, production, capacity, inventories, sales), market shares etc;
    · industry pricing policies, price levels, price changes, differentials, and the like;
    · changes in industry production, capacity or inventories;
    · bids on contracts for particular products and procedures for responding to bid invitations;
    · plans of individual companies concerning the design, production, distribution or marketing of particular products, including proposed territories or customers;
    · Matters relating to potential individual suppliers that might give the effect either of excluding them from any market or of influencing the business conduct of firms toward such suppliers or customers.
    · even in jest, discuss or exchange information regarding the above matters during social gatherings incidental to PDA Europe-sponsored meetings.
    · exchange commercially sensitive information.
    · engage in any conduct, which could be construed as designed to exclude competitors from the market or to create a barrier to entry onto the market.
    · meet without PDA Europe counsel present or without the prior approval of PDA Europe counsel.
The Polyurea Development Association Europe (PDA Europe) is the official trade association for the European Polyurea Industry. Registered as an official, international not-for-profit association under Belgian law in June 2007, PDA Europe promotes the highest possible standards for polyurea.

Leading experts from across Europe’s chemical industry make up the membership base of PDA Europe providing expert advice on product quality.

The association also offers best practice information on areas of environmental consideration and safety and provides an established networking forum for key industry players to discuss the future of the polyurea market.

PDA Europe commits itself:
- to pursue the interests of the European polyurea industry;
- to promote the exchange of ideas for the development of the highest standards and operating efficiency within the European polyurea industry;
- to develop methods for improving the conditions and advancing the best interests of the European polyurea industry;
- to create lasting good will between the members and those who manufacture, specify, apply, and purchase polyurea materials and services all around Europe;
- to support and promote equal opportunity for all people within the industry, regardless of race, color, religion, sex or national origin.

PDA Europe Board of Directors Nov. 2014 - Nov. 2015:

<table>
<thead>
<tr>
<th>President</th>
<th>President-Elect</th>
<th>Immediate Past President</th>
<th>Treasurer</th>
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<td>Klaus Breuer</td>
<td>Hugo Herault</td>
<td>Elisabet Michelson</td>
<td>Geert Dries</td>
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PDA Europe Committees:
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- Industry Relations & Communication Committee Chair - Klaus Breuer, BASF SE
- Membership Development Committee Chair - Klaus Breuer, BASF SE
- Programme Committee Chair - Herbert Mann, WIWA
1. Benefit from key information and business developments affecting the polyurea industry on European and international level.

2. Shape the future of the polyurea industry in Europe.

3. Jointly pursue and promote the interests of the industry in front of relevant European organisations and institutions.

4. Be part of the development and sharing of best practices.

5. Benefit from « members only » discounts on technical information, training courses and the annual conference.

6. Increase your company’s visibility by participating, speaking and exhibiting at the annual conferences.

7. Actively contribute to the PDA Europe committees meetings and activities.

8. Increase market perception and acceptance of the polyurea technology.


10. Have a global perspective on the polyurea industry through continuous links with the United States (PDA) and other regions of the world.