



**EXPOQUIMIA**  
The International Chemistry Event

**EQUIPLAST**  
The International Plastics and Rubber Event

**EUROSURFAS**  
The International Surface Treatment Event

# CHEMICAL NEWS

**Fira Barcelona**

**EQUIPLAST**  
The International Plastics and Rubber Event

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INCREASED VISITOR NUMBERS AND HIGH QUALITY BUYERS

# Towards the World Chemical Summit

The 2014 edition of Expoquimia, Eurosurf and Equiplast has been marked by the boost to its international vocation. The three trade shows can therefore take a confident step forward on the road to their transformation into the future World Chemical Summit, a global benchmark event for the chemical, surface treatments and plastics and rubber sectors.

The balance is optimistic: the number of high-calibre visitors, essentially decision-makers, increased by 11% compared to the previous event. During the simultaneous edition of Expoquimia, Eurosurf and Equiplast, between September 30th and October 3rd, the Gran Via venue of Fira Barcelona received about 38,000 professionals, practically the same number of visitors as in 2011, but this year lasting a day less.

According to the event director, Pilar Navarro, the results of this edition are very positive in that "they give us an indication that we're on the right track to becoming the future World Chemical Summit, an international bridge between science and industry." The goal is to become, in the next ten years, this new worldwide reference event within the sector.

Meanwhile, the president of Expoquimia, Luis Serano, highlighted "the sector's excellent response to and interest in the show, at a time when we are seeing the first positive signs of economic recovery." In this respect, during the show the Business Federation of the Spanish Chemical Industry (FEIQUE) announced the economic forecast for the sector for the coming two years, which envisages an increase in turnover of 3.2% in 2014 and of 4% in 2015.

The strength of the Spanish chemical industry and its influence on the wellbeing of present-day society was reflected in the 'Smart Chemistry Smart Future' project, which showcased the contributions that this industry makes in key areas such as energy, water, health and smart cities, which proved very popular with visitors.

## THE NEXT EDITION WILL BE HELD ON 1-5 OCTOBER 2017

The next edition of Expoquimia, Eurosurf and Equiplast will be held on 1-5 October 2017 at Fira de Barcelona's Gran Via exhibition centre.



## THE GLOBAL NUMBERS

- 734 exhibitors
- 37.900 visitors
- Over 3,000 product
- Over 2,300 represented brands
- 200 technological innovations
- 300 business meetings at the WICAP Forum
- 50 global projects
- 160 activities, including congresses, seminars, conferences and presentations
- 1785 congress participants





## INTEREST ON NEW MACHINERY

Equiplast, the International Plastics and Rubber Event, has contributed to sales with a high number of business contacts. The new machinery presented at the show caught the attention of international visitors, including over a hundred VIP Buyers from countries like China, India or South Africa.

In this edition of Equiplast 63 technological innovations and 356 products were presented by 233 direct exhibitors representing 450 brands from all over the world. It seems that “the sector is facing a change in the trend”, according to Bernd Roegele, president of the show, who also expressed his “optimism” on the increase of sales of machinery un the next few months as “many contacts initiated in Equiplast will crystallize in a near future”.



## SATISFACTION

The 17th edition of Expoquimia, the International Chemistry Event at Fira de Barcelona, exceeded expectations and closed its doors with a satisfaction atmosphere. The event registered a high number of business meetings and contacts among exhibitors and visitors from several countries.

The president of Expoquimia, Luis Serrano, stressed the “high quality of the visitors, especially those from emerging markets” and the importance of “the business meetings that took place within the show”. He is also pleased with “the cross-cutting profile of the three shows, as they offer solutions to a specific type of specialised visitor”. In addition to being the great commercial showcase in this sector, Expoquimia has confirmed its role as a promotion and outreach platform for the Spanish chemical industry.

With 412 exhibitors, and besides 2,171 products from 1,751 represented brands and 120 technological innovations, Expoquimia has also had a wide programme of congresses and seminars, including the 13th Mediterranean Congress of Chemical Engineering and the 14th Instrumental Analysis Conference.



## NEW BUSINESS OPPORTUNITIES

Eurosulfas, the International Surface Treatment Event, has promoted sales and new business contacts with representatives from other sectors such as the automotive or aerospace industries. A total of 89 exhibiting companies have participated, presenting a total of 593 products from 159 represented brands from all over the world. Contacts were made with top executives from automotive companies as Peugeot or Nissan, as well as with VIP Buyers from countries like China, Israel or South Africa, among others.

The president of the event, Giampiero Cortinavis, stressed “the effort of the organisation to open up to new sectors which, on the other hand, are potential costumers” of the surface treatment industry. Cortinavis congratulated “the companies that have recognised the opportunity of participating in Eurosulfas”.



## Views on the event



**Jordi Salvans**  
**HELMUT ROEGELE**

“Equiplast is a meeting point for all professionals in the plastics sector”



**Martín Cayre**  
**ARBURG**

“For me it represents the consolidation of the plastic injection market”



**Juan Antonio Labat**  
**FEIQUE**

“We look for solutions on how to get energy in the future and provide health and food for 9,000 million people within the next 30 years”



**Rosa Maria Leal**  
**LLEAL SA**

“Bringing together the science and the industrial fields can create significant synergies”



**Pablo de Haro**  
**ABRASIVOS Y MAQUINARIA SA**

“I would underline the commitment to innovation and the bet for renewal in every issue”














**Joan Serret**  
**HENKEL**

“The important thing is to exchange information and network with customers and the industry in general”






## WICAP PROJECTS

WICAP is the formula for success that will lead Barcelona to become a scientific and industrial world reference with the World Chemical Summit, an international, cross-cutting and innovative platform, where science, technology and industry will meet.

<b>AIJU- INSTITUTO TECNOLÓGICO DE PRODUCTO INFANTIL Y OCIO</b>	<ul style="list-style-type: none"> <li>• Valorization of natural and industrial resources in toys, children's and consumer products.</li> <li>• ROTELEC - Sustainable and innovative rotomoulding process and biomaterials for automotive products and efficient toys.</li> <li>• New generation prototype moulds</li> </ul>	
<b>AIMPLAS-CDTI</b>	Bugworkers.	
<b>ANYPLAST</b>	The recycled plastic e-Marketplace.	
<b>ASSOCIAZIONE ITALIANA FINITURE DEI METALLI RIVISTA</b>	Hardalt project.	
<b>BARCELONA KNOWLEDGE CAMPUS</b>	BKC chemistry presentation.	
<b>CDTI</b>	<ul style="list-style-type: none"> <li>• Invierte programma presentation</li> <li>• Horizon 2020. Opportunities for Research and Innovation for the Chemical Sector. National Contact Point Social Challenge 5 - H2020: "Climate Action, environment, resource efficiency and raw materials".</li> </ul>	
<b>CEFIC</b>	R4R: Chemical Regions for Resource Efficiency.	
<b>CEFIC-FEIQUE</b>	SusChem & SPIRE. Guidelines & next calls	
<b>CENTRE TECNOLOGIC DE QUIMICA SOSTENIBLE</b>	Materials with advanced features by "dual click" healing.	
<b>CHEMICAL ENGINEERING &amp; CHEMICAL IN ISRAEL</b>	"Methanol as Alternative Fuel for Automobiles" project.	
<b>CPTUB</b>	Cold gas spray: innovative technology in surface engineering.	
<b>CURECHEM</b>	Support and knowledge to take advantage of business opportunities in African markets.	
<b>DG ENTERPRISE AND INDUSTRY -EUROPEAN COMMISSION.</b>	European Innovation Policies and newly-created clusters.	
<b>DG RESEARCH AND INNOVATION -EUROPEAN COMISION</b>	Key technologies that open up possibilities and the roadmap of this general direction.	
<b>DOW CHEMICAL</b>	Investigation of treatment technologies, reuse and control for the future sustainability of water purification.	
<b>DOW-CEFIC</b>	European Industrial Policy: what impact for the chemical industry?	
<b>ENGINEERING STATEGIC PARTNER</b>	Algiers refinery rehabilitation and adaption project.	
<b>GALLINA BLANCA</b>	Advanced techniques to identify allergens presence in factories and food.	
<b>GEA</b>	Modification and improvement of existing evaporation plants in the industry.	
<b>GERMANY TRADE &amp; INVESTMENT</b>	The advantages of Germany as an investment location.	
<b>GOLDEMAR SOLUTIONS SL - UNIVERSITAT POLITÈCNICA DE CATALUNYA</b>	Production of gold clusters for applications in the cleaning and automotive sectors.	



## WICAP PROJECTS

ICL	Bromine based rechargeable batteries: chemistry and electrochemistry.	
INSTITUT CATALÀ D'INVESTIGACIÓ QUÍMICA	<ul style="list-style-type: none"> <li>• Presentation of examples of valorization of intellectual property at the ICIQ.</li> <li>• Presentation of examples of industrial collaborations at the ICIQ.</li> </ul>	
INSTITUT DE BIOENGINYERIA DE CATALUNYA	<ul style="list-style-type: none"> <li>• Theralight: optopharmacology for the brain</li> <li>• CellNanoMech</li> <li>• Dermoglass</li> <li>• Advanced characterization of complex materials</li> </ul>	
INSTITUT DE CIÈNCIA DE MATERIALS DE BARCELONA	DELOS technology platform for the preparation of particulate materials for medicine, cosmetics and products with high added value.	
INSTITUT DE NANOCIÈNCIA I NANOTECNOLOGIA	<ul style="list-style-type: none"> <li>• Micro and Nano-encapsulation.</li> <li>• Graphene.</li> <li>• Nanofabrication.</li> </ul>	
INSTITUT D'INVESTIGACIONS BIOMÈDIQUES AUGUST PI I SUNYER- HOSPITAL CLÍNIC	Innovation model at Hospital Clinic-IDIBAPS Research Institute.	
INSTITUT QUÍMIC DE SÀRRIA	Fluorescent labels for use in phototherapy photodiagnosis in the near-infrared.	
INSTITUTE FOR RESEARCH IN BIOMEDICINE	Interaction between chemistry, biology and structural biology.	
IQAP MASTERBATCH GROUP S.L	Development of new masterbatches with natural waste.	
IRIS	ProPAT.	
KERN PHARMA	Standardization of packaging: capacity and flexibility.	
KH LLOREDA	Non-stick repellent softening action type or pretreated for clothes, and 100% ecologic packaging (plastics optimization).	
NISSAN	Towards a green and energy efficient vehicle production plant.	
OCAS	Semi-industrial plating unit for hard chrome electrodepositing using trivalent chrome technology.	
OXIQUIM	Implementation of the new liquefied gas terminal in Quintero Bay, with their process plants.	
REVERTE-CDTI- CENTRO DEL DESARROLLO INDUSTRIAL	Process for obtaining nanoparticles of technical calcium carbonate (nanomarble ibk-09611).	
SINCROTRON ALBA	Alba Synchrotron and its industrial applications.	
SOCIEDAD ESPAÑOLA PARA INTERNET DE LAS COSAS	On line traceability in the cold chain supported on IoT (Internet of Things).	
SOCIÉTÉ ENNADHAFA	"Mankind Faces Sunny Future and so Chemistry" presentation.	
THE ISRAEL CHEMICAL SOCIETY		
VALL D'HEBRON RESEARCH INSTITUTE	From bench to market: Transbiomed a VHIR spin off company.	

PLASTICSEUROPE ONE MORE YEAR AT EQUIPLAST

# The plastics industry among the most innovative in the EU

Representatives of PlasticsEurope, European association representing manufacturers of plastic raw materials, have stressed the strategic importance of the sector and highlighted the sustainability of plastics and their contribution to energy saving.

In the words of Patrick Thomas, Chairman of Plastics and CEO of Bayer MaterialScience: "The plastics industry is an important part of the solution to achieve a circular economy and a resource-efficient Europe. We need a long-term strategy for the re-industrialization of Europe that includes the plastics industry as a key strategic partner promoting innovation and ensuring the transition to a resource-efficient and low carbon economy."

## INFLUENCE IN OTHER SECTORS

The plastics industry plays a key role in the European Union contributing to a positive trade balance of 18,000 million euros. It is also part of the five most innovative sectors in the European Union representing 1 in 25 industrial patents between 2003 and 2012.

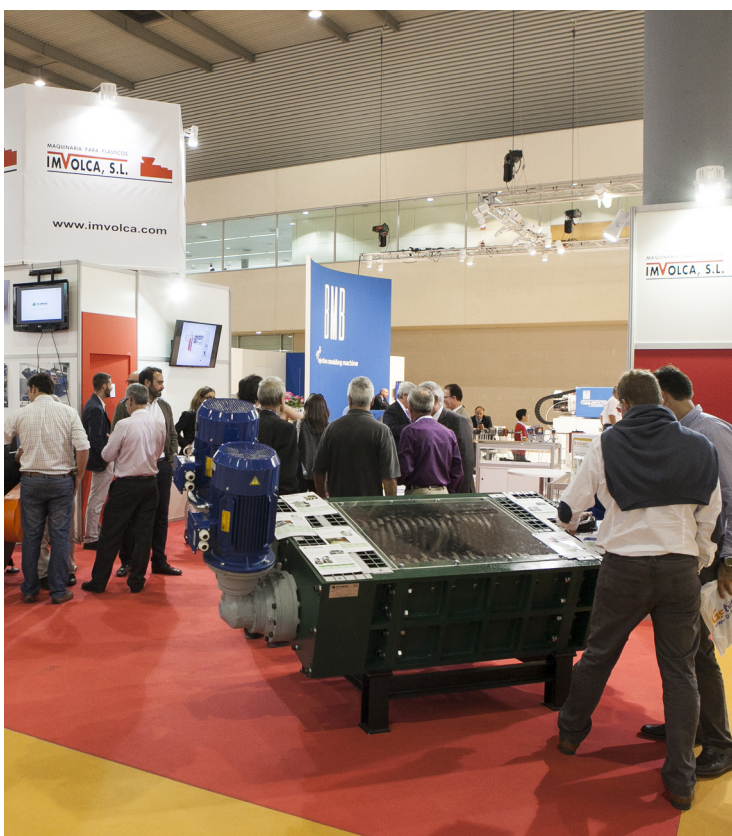
This industry is also a strategic pillar of the European manufacturing sector, with indirect effects on other key areas of the economy. A recent study by the European House Ambrosetti analysed the possible impact of a stronger plastic value chain in Italy and Europe. The results show a multiplier effect of almost 2.4 points. Thus, 100 euros of GDP in the Italian plastics value chain generates 238 euros of GDP in the national economy and for every job created in the plastics industry nearly 3 additional jobs for the overall economy are generated.

## PLASTIC BENEFITS

Juan Ruiz, head of energy efficiency of PlasticsEurope, opened the conference "Cost savings and

## 1.4 MILLION EMPLOYEES

According to Michael Kunkel, President and CEO of Renlit EuPC, "the European plastics industry employs over 1.4 million people in the European Union in about 62,000 companies with a total turnover of over 300 billion euros a year. Support from European policy makers is crucial to promote economic growth, create quality employment opportunities and optimize our contribution to Europe's welfare."



energy efficiency," organized by AIMPLAS. His presentation focused on the energy savings achieved through the use of plastics in comparison to alternative materials and the consequent reduction of emissions of greenhouse gases throughout their entire life cycle. As an example he showed some results of the Denkstatt Institute study on the main areas of plastics application: packaging, automotive and construction.

Irene Mora, Head of Sustainability and Environment at PlasticsEurope, gave a speech at the conference "Trends in plastic containers in supermarkets" organized by ITENE. She noted that plastics, even at the end of life, have a great value and can even help save resources both material and energy. She also explained how the initiative of the association "zero plastics in landfill" is fully aligned with the new European legislative trends reflected in the communica-

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## THE PLASTICS INDUSTRY PLAYS A KEY ROLE IN THE EU CONTRIBUTING TO A POSITIVE TRADE BALANCE OF 18,000 MILLION EUROS

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tion of the European Commission July 1 2014: "Towards a Circular Economy A zero waste program in Europe."

Manuel Fernandez, Director General of Plastics in the Iberian region, added: "the presence of Plastics in these technical conferences is a sign of the commitment of our industry to proactively address the challenges it faces in the value chain of plastic industry concerning issues such as energy efficiency and climate protection, the new legislative trends in plastics waste management or intelligent product design."





# Technological innovation overview

For the first time, under the coordination of ASCAMM Foundation, Equiplast has presented a broad view of the innovations developed by the leading companies in the plastics and rubber industry both nationally and internationally.

## ALLOD NEOPLASTIK

### Drinking water pipe joints with optimized properties

This is a layout and process for the production of a flat drinking water sealant pipe joint. This new pipe joint is intended to replace existing models -which feature a steel core covered with a thermostable rubber material- with an innovative model of multilayer joint that combines a hard material and a thermoplastic elastomer (TPE). This TPE meets the strict requirements of recent changes in European regulations for materials in contact with drinking water. This R & D innovation has been carried out by ALLOD – specialist in TPE- in cooperation with the German company Neoplastik.

## ARBURG

### Injection of COP syringe bodies for single use, under clean room

COP (Cyclic Olefin Polymer) plastic features wall characteristics similar to glass, plus resistance to breakage and its production is very profitable. This material is transparent, biocompatible, and also compatible with blood and very little hygroscopic (absorbs little moisture from the environment). Hence COP is a very suitable material to manufacture syringe bodies since these materials can be drawn up with the content already within and get packed later.

The injection moulding machine is equipped with a clean air module including ionization of the



closing unit area which enables a cleaner production environment inside the closure. The machine can be connected to a clean room by a covered conveyor bridge. Thus products can be produced safely in a clean room environment ISO 7.

## COMEXI GROUP

### Laser in line processing system and holographic lamination for flexible container

The Comexi Proslit Cingular Laser is an innovative laser processing system capable of performing all the applications in one system with more ease, versatility and superior quality. Examples of applications are: PerfoTech-micro and macro drilling for applications such as gas exchange in controlled atmosphere with fruit, vegetables, and salads; and PrintTech-numbering, barcodes, QR

codes and security systems. The entire cutting process is integrated into a single machine with a laser in line capable of controlling the material tension with a unique patented system.

Besides, Comexi Cingular Holography new technology creates holographic effects by providing containers with a large and distinctive visual impact incorporating copy protection elements.

### **COSCOLLOLA KRAUSS MAFFEI**

#### **ColorForm: applying a layer of shiny paint finishing in one single step**

ColorForm makes possible to apply a layer of shiny finishing paint in any part inside the closed mould. In this process, paint is applied directly into the mould. The layers of paint are completely dry completely in the closed mould so that parts ready for the next phase of production are obtained. The use of paint is quite inexpensive and offers a wide range of colors.

### **IMVOLCA**

#### **New generation of calibrators for optimized thermoplastic profiles extrusion**

Extrusion for the production of thermoplastic profiles has been used for many years. In the continuous extrusion process the melt material is forced to pass through a nozzle which gives a preliminary form, later it goes to a calibrator that provides the final form. This is a key component for achieving the dimensional stability of the profile and the necessary cooling. This type of manufacturing process has some problems of deformation and breakage due primarily to the removal of heat during the manufacturing process. The cooling used in the calibrators is not generally optimal.

The use of a new generation of calibrators with optimal cooling channels makes an improvement in the extrusion process, shortening setting up time, enhancing the profiles dimensionally and



geometrically, and getting a more stable, productive process, with a lower energy consumption.

### **KISTLER**

#### **100% sensor monitoring of parts manufactured in an injection process**

Plastic injection moulding processes are currently widespread in the manufacture of technical parts, where the geometric accuracy, the aesthetic appearance and mechanical properties are essential for their final functioning. During the injection process there are several factors that influence the part final quality, such as material, room temperature, or process parameters. The slightest deviation in any of these factors may involve a defect in the final quality of the part and that leads to rejection by the customer, resulting in a critical situation at the production level.

Kistler has a technology that allows signals from sensors to monitor pressure, temperature or combined pressure and temperature measurement in one or more mould cavities. As this control is performed automatically at every cycle, it is possible to monitor 100% of the parts, obtaining an injection with 0 defects, without increasing the cycle time.

Additionally, this technology allows full traceability of the process as well as a quick return on the investment required to achieve a significant reduction in the time development of moulds, process optimization and cost reduction associated with the production of defective parts .

**PLASTIA**

**Intelligent control system applied to the mass production of plastic parts**

The system is based on an intelligent module permanently installed in the mould that is capable of acquiring and storing production data, generating an expert model to evaluate each cycle and then directs the necessary actions to control production machinery for continuous optimization the process. The system assumes control of manufacturing in communication with different production teams independently, recording the mould history throughout its lifetime with as incidents and maintenance that have been carried out. This intelligent mould contains complete documentation of the life cycle of the manufactured part from conception.



With the trend towards miniaturisation in many industry sectors, some suppliers have attempted to adapt injection moulding technology in order to give a better service to the demands for small and precise parts. However, as is often the case, adaptations of macro technologies and processes to the precision and micro plastic parts moulding are not always the best solution. In the area of micro moulding, manufacturers have now a new and innovative technology. This new micro moulding process is based on the use of ultrasounds as the agent for polymer melting, and it has been designed specifically for manufacturers of small and precise plastic parts. This technology is extremely energy efficient and minimises waste.

**ULTRASION**

**Introduction of ultrasound in the micro molding process**





## GERMAN INDUSTRY FORECAST

# VDMA anticipate sales growth of 3% in 2014

Germany's plastics and rubber machinery manufacturers expect sales to increase by 3% in the current year, meaning that output will hit 7 billion euro for the first time.

**U**lrich Reifenhäuser, Chairman of the Plastics and Rubber Machinery Association, explains this development: "In October 2013, we predicted an increase of 6% for 2014. On the basis of the data from the past six months and following the significant improvement in last year's results, the figures have now been revised downwards." In 2013, output growth amounted to 3.9 %, while exports were up by 4.3 %. Both figures set new records for the industry.

## CHINA AND US SALES POSITIVE

Sales to foreign customers are set to record small increases in both 2014 and 2015. "The outlook for the industry's two most important markets, China and the US, continues to be positive, even though the very high recent growth rates will level off," confirms Thorsten Kühmann, Managing Director of the VDMA. "However, the trend in deliveries to Russia, Brazil, Turkey and India is markedly negative. In Russia, the third largest sales market of the past few years, the potential effects of the politi-



Thorsten Kühmann

VDMA is the most representative entity in the equipment assets industry throughout Europe, with over 3,100 members. The VDMA represents mainly small and medium size companies in the engineering industry, making it one of the largest and most important industrial associations in Europe.

## IN 2015 SALES ARE SET TO RISE BY 4%

cal crisis about Ukraine are not yet reflected in the figures at all."

Some weaknesses were identified in the past year regarding orders received from domestic customers. But the order intake from Germany has been gaining momentum again for several months now with growth rates well ahead of those recorded for foreign orders. "We are working on the assumption that, given the general increase in investment in plant and equipment, this positive development is set to continue this year and the next one, thereby providing a major stimulus," confirms Ulrich Reifenhäuser.

## GERMANY WORLD'S LEADING EXPORTER

German foreign deliveries of plastics and rubber machinery have achieved a small increase in their share of global exports: almost a quarter of all machines exported was manufactured in Germany. China ranks second, a long way behind, with a share of 12.3 %, Japan is third with 9.9 % and Italy fourth with a 9.1 % share.

## ASSOCOMAPLAST CONFERENCES

# Towards a more sustainable plastic waste management

The importance of recycling plastic materials becomes more and more evident, especially in the pursuit for a better society related to reducing waste and to the sustainability of industrial and economic activity. The Italian manufacturer's association Assocomplast held several conferences on the subject in Equiplast.

Assocomplast -which is the acronym for Italian Plastics and Rubber Processing Machinery and Mould's Manufacturers Association- considers that there must be an essential commitment of institutions to ensure a proper waste management, including collection, effective sorting and first recycling process for plastic materials.

But the association also thinks that a constant research at industrial scale to improve recycling technologies and waste recovery must be developed, in order to ensure compliance with law objectives. So the sector should play a key role in the recycling market development and energy recovery.

## DEALING WITH PET

The first conference was on the new technology needed to face post consumer PET bottle stream which is a now a big problem. The speech on the subject was given by Mr Paolo Rizzi from AMUT sales area manager. AMUT enjoys a great reputation among the manufacturers of plants for the extrusion of thermoplastic materials and is a reference in this field. Mr Rizzi explained how post-consumer PET bottle stream gets worst and worst every day, and then focused on how to face and solve the problem with new technology, using as a case of study the De-labeler effect on a 3,000 kg/h plant.

The second conference was given by Mr. Andrea Villa, sales engineer from Previero, a company



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## THE PLASTIC SECTOR SHOULD PLAY A KEY ROLE IN THE RECYCLING MARKET DEVELOPMENT AND ENERGY RECOVERY.

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specialized in the production of machines and plants for granulation of plastic materials, rubber, paper, cellulose, and similar products. The speech focused on plastics recycling systems and how to increase efficiency and quality in film and PET recycling.

Mr Villa described how in the last years the recycling business “has been put under pressure by the internationalization of plastics and products to be recycled”. In all cases the quality aim is more and more to come back to the original packaging. He underlined that the image of the recycler has changed from “a small family business” to “a real specialized industry, always keeping an eye open on global markets, to seize the arising opportunities”. The Italian recycling company Sorema is a good example of industrialization. Founded in 1976, and with over 350 recycling lines currently in operation, it specializes in turnkey recycling lines. It also represents the state of the art of PET recycling bottles systems and post-consumer and agricultural film, with some innovative solutions for new recycled materials that are going to enter the European system of selection and recycling.

Finally, Mr. Pietro Spagni CEO of Petra Polimeri, member of the Board of Directors of Corepla (Italian National Consortium for the Collection and Recycling of Plastic Package) and chairman of the recyclers group in Unionplast, spoke about problems and perspectives of recycling plastic waste in Italy, with particular reference to polyolefin and PET.

**ANDREA VILLA: “THE RECYCLING BUSINESS HAS BEEN PUT UNDER PRESSURE BY INTERNATIONALIZATION”**



**THE ASSOCIATION'S PROFILE**

Founded in 1960, Assocomaplast is a non-profit association and now represents 166 leading Italian companies, plastics and rubber machinery, ancillary equipment and moulds manufacturers.

The main aim of Assocomaplast is to promote worldwide the knowledge of the Italian plastics and rubber processing industry that is at the top of the world market, in terms of production and export outputs. The organization’s activity is managed through its commercial company Promaplast unipersonale, that organizes promotional events in Italy and abroad.

Assocomaplast is a member of Confindustria (Confederation of Italian Industry) and Euromap (Europe’s Association for Plastics and Rubber Machinery Manufacturers) which publishes technical recommendations on machines and relevant energy consumption measurements.



# World Congress of Chemical Engineering 2017

The International Chemistry Event at Fira de Barcelona, which will be held from 1 to 5 October 2017, will host the 10th World Congress of Chemical Engineering. This congress will bring together more than 3,000 chemical engineers from all over the world at a big meeting that, for the first time, will take place in our country.

Under the theme "Chemical Engineering in a global world: a tool for cooperation and development", the congress will address a wide range of topics: from the development of new products and processes, integrated resource management and health to energy or bioengineering.

The 10th World Congress of Chemical Engineering (WCCE) is chaired, in its scientific committee, by Felix Garcia-Ochoa, Professor at the Department of Chemical Engineering at the Madrid Complutense University (UCM). The International Committee of the congress will be chaired by Angel Irabien, Professor of the University of Cantabria.

Barcelona's bid was submitted to the European Federation of Chemical Engineering jointly by the National Association of Chemists of Spain (ANQUE), the Association of Chemical Engineers and the Chemical Institute of Sarrià (AIQS), the College of Industrial Engineers of Catalonia (AEIC) and the Spanish Society of Industrial Chemistry and Chemical Engineering (SEQUI). The bid won the final vote to the cities of Florence (Italy) and Omoroz (Slovenia).

## HISTORIC OPPORTUNITY

The president of ANQUE Carlos Negro said that "the designation involves writing one of the future pages of history of the Spanish chemical engineering and an opportunity to improve the visibility of an area of knowledge in which Spain is an international reference". The President and CEO

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**PILAR NAVARRO: "THE TWO EVENTS COMBINED WILL TURN BARCELONA INTO THE MOST IMPORTANT MEETING POINT BETWEEN SCIENCE AND INDUSTRY IN SOUTHERN EUROPE"**

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of SEQUI, Jaume Soley, stated that "participants will present their projects to the main actors of international chemistry." Oriol Martinez, representative of SAIC, will assume the leadership of the exhibition committee and emphasizes that this congress "will be the largest showcase for chemical engineering that has never been in our country and this is a great opportunity for the industry and the profession."

The director of World Chemical Summit, Pilar Navarro, notes that "hosting the World Congress of Chemical Engineering provides a great value to Expoquimia. And these two events combined will turn Barcelona into the most important meeting point between science and industry in Southern Europe".

