

# FIRE RESISTANCE IN PLASTICS 2017

*Trends and technical developments in the  
international flame retardant industry*



**5-7 December 2017**  
**Maritim Hotel,**  
**Cologne, Germany**

Organised by:



Sponsored by



Industrial  
Products



TECHNOLOGIES GmbH  
(Switzerland)

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WORLD

**SPECIAL OFFER:** Save €200 if you register before 8th September 2017

# FIRE RESISTANCE IN PLASTICS 2017

5-7 December 2017,  
Maritim Hotel, Cologne, Germany

Fire Resistance in Plastics, AMI's international conference on flame retardancy, has become the essential meeting place for the fire retardants industry and its customers.

Now in its 12th year, this annual event attracts an ever-growing number of participants, who come from all around the world to learn about the latest developments in flame retardant plastics, as well as to network and share expertise with influential players from throughout the supply chain.

Increasingly stringent safety, health and environmental demands are driving requirements for more sophisticated flame retardant systems in a wide range of markets, including the electrical and electronic, construction and transportation sectors. An international selection of expert speakers will deliver papers discussing the state-of-the-art in flame retardant plastics, as well as the latest developments in markets, materials, technologies, applications, testing and regulations.

As usual, the conference will offer an unparalleled opportunity to network and exchange ideas with major industry players from across the globe, as well as with leading scientists and academics. The associated exhibition will enable companies to showcase their products and services to a focused and influential audience.

For the developers, producers, suppliers and users of fire retardant additives and plastics compounds, this is a not-to-be-missed conference.

## FIVE GOOD REASONS WHY YOU SHOULD ATTEND:

- 1 **Learn about new developments in fire retardant technologies**
- 2 **Network with key players from throughout the supply chain**
- 3 **Find out about the latest testing and regulatory requirements**
- 4 **Discover key market trends and business opportunities**
- 5 **Benchmark your company against other**

## Save €200

Register before 8th September 2017

### EARLY BIRD REGISTRATION OFFER

Register before 8th September 2017 and pay €1090\* saving €200 on the full price of €1290\*. There are additional discounts for group bookings. The registration fee includes attendance at all conference sessions, the Networking Cocktail Reception, lunch and refreshment breaks on both days and a set of conference proceedings.

### EXHIBITION SPACE

Make it easy for the delegates to find you at this busy event with your own exhibition space. Bring your own display stand, banners or use the space to showcase samples of your products and ensure that you make an impact. The exhibition will run throughout the conference in the exhibition room next to the main meeting room.

**Space is limited so to avoid disappointment please register for this service as soon as possible.**

### SPONSOR THIS EVENT

A variety of sponsorship opportunities are available at this conference to help to promote your company's products and services to this highly targeted international audience. Contact the Conference Hotline for further information.

### HOTEL ACCOMMODATION

Delegates are responsible for booking their own accommodation. AMI has negotiated a room rate of €159 for a single room and €197 for a double (tax, breakfast and Wi-Fi included) at the Maritim Hotel in Cologne until 3rd November 2017.

Please make your reservation using the direct hyperlink which can be found on our website [www.amiplastics.com](http://www.amiplastics.com) (click on 'Fire Resistance in Plastics 2017' followed by Accommodation)

### CONFERENCE VENUE

Cologne is a vibrant, well-connected city that presents excellent options for conducting business, sightseeing, dining, entertainment and shopping. The conference will take place at the Maritim Hotel, which is on the banks of the Rhine and within walking distance of the old town, historic cathedral and main train station.

\*+19% German VAT



## CONFERENCE HOTLINE

Contact: Nicola Charlesworth, Conference Organiser

Tel: +44 (0) 117 314 8111

Fax: +44 (0) 117 311 1534

Email: [nc@amiplastics.com](mailto:nc@amiplastics.com)

Twitter: @AMIconferences #attendAMI

## Tuesday 5th December 2017

18.00-19.30 Registration and Networking Cocktail Reception  
There are no conference sessions on this day

## Wednesday 6th December 2017

08.00 Registration and welcome coffee  
09.00 Opening announcements

### SESSION 1 - FLAME RETARDANT FUTURES – FOCUS ON INDUSTRY TRENDS, NEW TECHNOLOGIES & IMPROVED SUSTAINABILITY

09.10 **Reviewing recent research on flame retardance and fire resistance; identification of key trends and technologies**  
Dr. Günter Beyer, R&D Manager/Lab Manager, KABELWERK EUPEN AG, Belgium

09.40 **Pilot project for recycling halogen-free flame retardant plastics – examining the challenges and on-going work**  
Dr. Elke Metzsch-Zilligen, Group Manager, FRAUNHOFER INSTITUTE FOR STRUCTURAL DURABILITY AND SYSTEM RELIABILITY LBF, Germany

10.10 **Creating sustainable flame-retardant PVC formulations**  
Mr. Eric Appelman, Non-Executive Director, DEFLAMO AB, Sweden

10.40 Morning coffee sponsored by:



### SESSION 2 - WORKING TOGETHER – IDENTIFYING THE IDEAL SYNERGISTS

11.20 **New silicone based flame retardant synergists – optimising the property balance in polyamide compounds**  
Dr. Vincent Rerat, Senior TS&D Professional/Plastics & Composites, DOW CORNING, Belgium

11.50 **Fire retardant halogen-free polyolefin compounds – synergy between metal hydrates and melamine poly(metal phosphates) for improved performance**  
Dr. Yann Bourgeois, Technical Sales Manager, HUBER ENGINEERED MATERIALS, Belgium

12.20 **Synergistic interaction of functional polymers with P- and P-N derivatives to design novel halogen-free flame retardant systems - underlying mechanisms**  
Dr. Swaraj Paul, CTO, PAXYMER AB, Sweden

12.50 Lunch sponsored by:



### SESSION 3 - FORMULATING FLAME-RETARDANT ENGINEERING PLASTICS

14.20 **Using organomodified siloxanes to enhance flame retardant properties of engineering plastics**  
Ms. Kathrin Lehmann, Innovation Manager Polymers, EVONIK NUTRITION & CARE GmbH, Germany

14.50 **Developing ATO-free solutions for engineering thermoplastics**  
Mr. Marc Leifer, Technical Marketing Support Manager, ICL-IP, Israel

15.20 **Reviewing progress in polymeric flame retardants for polyamides**  
Dr. Patrick Jacobs, Technical Business Support - Flame Retardants, LANXESS, Belgium

15.50 Afternoon tea

### SESSION 4 - IMPROVING OUR UNDERSTANDING OF FR MECHANISMS AND PERFORMANCE

16.30 **New findings of research into fire retardant polymer nanocomposites: functionalisation vs efficiency**  
Mr. Prof. Dr. De-Yi Wang, Head of High Performance Polymer Nanocomposites Group, IMDEA MATERIALS INSTITUTE, Spain

17.00 **Flammability vs hydrolysis: understanding moisture and balancing competing requirements**  
Ms. Maryline Desseix, Corporate Technology, NHFR Sr. Lead Engineer, POLYONE, Belgium

17.30 **Reviewing the impact of non-halogenated fire retardants on smoke toxicity**  
Mr. Guillaume Capon, R&D Project Leader, CREPIM, France

20.00 Conference Dinner

## Thursday 7th December 2017

08.30 Registration and welcome coffee  
09.00 Opening announcements

### SESSION 5 - EXAMINING THE EFFECTIVENESS AND APPLICATIONS OF MINERAL FIRE RETARDANTS

09.10 **Fire retardancy of mineral fire retardants beyond water-release by nitride-ceramification**  
Dr. Bansi Kaul, CEO, MCA TECHNOLOGIES GmbH, Switzerland

09.40 **Advances in the use of expandable graphite as a mineral halogen-free intumescent flame retardant for plastics applications**  
Mr. Klaus Rathberger, Managing Director, GEORG H. LUH GmbH, Germany

10.10 **Flame retardant effect of calcium-based hydrated minerals in polyolefins**  
Dr. Fouad Laoutid, Senior Researcher, MATERIA NOVA, Belgium

10.40 Morning coffee

### SESSION 6 - DEVELOPING NEW FIRE RETARDANT SYSTEMS FOR SPECIFIC APPLICATIONS

11.20 **New halogen-free flame retardant systems for thermosets and polyurethanes in transportation applications**  
Mr. Christian Schmidt, Market Segment Manager Thermosets, CLARIANT PLASTICS & COATINGS (DEUTSCHLAND) GmbH, Germany

11.50 **Next generation of halogen-free flame retardants for reinforced thermoplastics - improving processability and properties**  
Dr. Birgit Fassbender, Manager of Innovation and Application Development, BUDENHEIM, Germany

12.20 **Novel non-halogenated flame retardant solution for polyolefin films with prolonged service life**  
Mr. Gérard Lips, Application Specialist, BASF SCHWEIZ AG, Switzerland

12.50 Lunch

14.20 **Flame retardancy of technical textiles – review and case studies**  
Prof. Sophie Duquesne, Professor, ENSCL, France

### SESSION 7 - TESTING FIRE RETARDANT PROPERTIES

14.50 **Development of material-based combustion measurements**  
Paper agreed, pending final confirmation

15.20 **Using mini SBI methods for testing of fire retardant properties of HFFR compounds for cables**  
Mr. Camillo Cardelli, R&D Manager - CEO, IPOOL S.r.l., Italy

15.50 Afternoon tea and conference ends

# REGISTRATION FORM

Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 \_\_\_\_\_  
 Country: \_\_\_\_\_  
 Tel: \_\_\_\_\_ Fax: \_\_\_\_\_  
 VAT No.: \_\_\_\_\_

(Must be completed by all EU Companies)

Company activity: \_\_\_\_\_  
 Purchase order No. (if applicable): \_\_\_\_\_  
 Invoice address (if different from above): \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

## DELEGATE DETAILS

If more than one delegate please photocopy form

Title: Mr/Mrs/Dr/Other: \_\_\_\_\_  
 First name: \_\_\_\_\_  
 Surname: \_\_\_\_\_  
 Position: \_\_\_\_\_  
 Email: \_\_\_\_\_  
 Special dietary requirements: \_\_\_\_\_  
 Signature: \_\_\_\_\_ Date: \_\_\_\_\_

By registering for this event I am agreeing to my details being used by AMI.

Please note that we do not pass details to any 3rd parties.

## PARTICIPATION

### Select a delegate option:

Early bird admission fee: €1090 + 19% = €1297.10 \_\_\_\_\_  
 (Until 8th September 2017)

Full admission fee: €1290 + 19% = €1535.10 \_\_\_\_\_

### Upgrade your booking to include:

Exhibition Space: €660 \_\_\_\_\_

Conference Dinner: €90 \_\_\_\_\_

Conference Dinner: €90 + 19% = €107.10 \_\_\_\_\_  
 (Non-German companies)

**Total:** \_\_\_\_\_

Please note upgrades can only be booked with a delegate place

All payments to be made in Euros

All delegate registrations have 19% VAT applied as stated by the German government

## METHOD OF PAYMENT

You will be sent an invoice in 7-14 working days.

**Bank transfer quoting:** 'Your invoice and A/C No. or Applied Market Information Ltd. - Fire Resistance in Plastics 2017' to: National Westminster Bank Plc. Thornbury Branch, 16 the Plain, Thornbury, Bristol, BS99 5HD  
 Account number: **06814077** Bank No. **556138**  
 IBAN: **GB63 NWBK 6072 0306 8140 77** SWIFT: **NWBKGB2L**

### Pay by Credit Card

We accept: Visa / Mastercard

Please provide your contact details and we will send you a link to a secure payment gateway via email.

Name: \_\_\_\_\_

Email: \_\_\_\_\_

# FIRE RESISTANCE IN PLASTICS 2017

## CONFERENCE INFORMATION

### Date and location

5-7 December 2017  
 Maritim Hotel  
 Heumarkt 20  
 50667 Cologne  
 Germany  
 Tel: +49 221 2027 0  
 Fax: +49 221 2027 835



### PARTICIPATION OPPORTUNITIES

The registration fee includes attendance at all conference sessions, a set of conference proceedings, entrance into the Networking Cocktail Reception, lunch and refreshment breaks.

### Registration fee

- Early bird offer: Register by 8th September 2017 for €1090\*
- Full price: Register after 8th September 2017 at the price of €1290\*
- Exhibition space: Upgrade to an exhibition space for €660
- Conference Dinner: €90\*
- Group discounts: When registering as a group you may be entitled to discounts. Contact Nicola Charlesworth, Conference Organiser for more information.

### Exhibition space

The exhibition is an excellent way to enhance your business opportunities and makes it easy for delegates to find you! The upgrade allows you to:

- Have an exhibition space in the networking area throughout the conference (includes 1 table, 2 chairs and a power supply)
- Include your company profile in the printed proceedings
- Display new and existing products
- Hand out brochures and promotional items to attendees from your stand

Spaces are allocated on a first-come-first-served basis and sell quickly. Add an exhibition space onto your delegate registration as an upgrade.

### Social Events

The social events organised for Fire Resistance in Plastics 2017 will provide an ideal setting for delegates and speakers to mix business with pleasure.

#### • Networking Cocktail Reception

A networking cocktail reception will be held on the first evening. This offers an excellent opportunity for delegates to meet with speakers and other colleagues. All delegates are invited to attend and admission is included in the delegate fee.

#### • Conference Dinner

All delegates are invited to attend the Conference Dinner, which will take place at a local restaurant on the evening of 6th December 2017.

### Hotel accommodation

Delegates are responsible for booking their own accommodation. AMI has negotiated a room rate of €159 for a single room and €197 for a double (tax, breakfast and Wi-Fi included) at the Maritim Hotel in Cologne until 3rd November 2017.

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### CANCELLATIONS

Full refunds, less a cancellation charge of €200 will only be made on cancellations received prior to 3rd November 2017. Thereafter we regret that no refunds can be made. Delegates may be substituted at any time. Please note that refunds will not be given on exhibition upgrades, sponsorship packages or Conference Dinner places.

\*German VAT rules apply

### CONFERENCE HOTLINE

**NICOLA CHARLESWORTH, CONFERENCE ORGANISER**

Applied Market Information Ltd.

6 Pritchard Street, Bristol, BS2 8RH, United Kingdom

Registered in England No: 2140318

**Tel: +44 (0) 117 314 8111 Fax: +44 (0) 117 311 1534**

**Email: [nc@amiplastics.com](mailto:nc@amiplastics.com)**

**Twitter: @AMIconferences #attendAMI**

The latest programme, including any new speakers or changes to the schedule can be viewed on our website: [www.amiconferences.com](http://www.amiconferences.com)