

FIRE RETARDANTS IN PLASTICS 2013

Trends and technical developments in the international flame retardant industry

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June 13-14, 2013
Grand Hyatt Denver
Denver, Colorado, USA

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FIRE RETARDANTS IN PLASTICS 2013

June 13-14, 2013

Grand Hyatt Denver, Denver, CO, USA

AMI is pleased to invite you to join industry professionals from the entire supply chain at **Fire Retardants in Plastics 2013** on June 13-14 at the Grand Hyatt Denver in Denver, CO.

Flame retardant additives and plastics are coming under a variety of pressures. On the one hand, they need to meet increasingly stringent fire safety regulations and performance standards. At the same time, they are facing environmental and health concerns which are leading to the phase out of some widely used technologies.

While these shifts present considerable challenges for the development of flame retardant polymers, they also create significant opportunities for companies throughout the supply chain. This conference is designed to address these issues and will appeal to materials suppliers, compounders, processors and end-users.

Initially built on the considerable success of AMI's Fire Resistance event in Europe, the Fire Retardants in Plastics conference is now being held for the third time in America and is now well established in its own right. It has rapidly become an essential meeting place for the industry, attracting an international audience made up of leading players from throughout the supply chain.

This year's program features industry experts covering the latest legislative issues, additive technologies, flame retardant compound formulations and applications. Dedicated sessions will address key topics such as market trends, additives for engineering plastics, the way ahead for halogenated products, minerals for flame retardant formulations, developments in polyurethanes, and ongoing regulatory issues. In response to audience requests, this year's program also boasts an expanded session on flame retardant technologies for polyolefins.

In addition to these high-level presentations, the conference will also provide the ideal networking forum to share ideas and discuss new solutions for flame retardant plastics that meet and exceed the performance, environmental and health requirements of the future.

FIVE GOOD REASONS WHY YOU SHOULD ATTEND:

1. Learn about the latest developments in legislation and fire performance standards, and hear how new technologies are being developed in response to these rules and regulations.
2. Discover the latest additive technologies that deliver improved levels of flame retardancy and smoke suppression, ensuring real safety benefits for the general public.
3. Network with key players from throughout the polymer supply chain who are developing, formulating, producing, processing and specifying flame retardant plastics.
4. Find out how the industry is responding to environmental concerns with a new raft of flame retardant technologies that are not only green, but also deliver high levels of performance.
5. Gain a deeper understanding of formulating flame retardant compounds with the best combinations of different additive options. This year's packed program has special sessions on polyolefins, engineering thermoplastics and polyurethanes.

C O N F E R E N C E

Thursday, June 13, 2013

8:00 Registration and welcome coffee
9:00 Opening announcements

OVERVIEW AND MARKET TRENDS

- 9:10 **Trends & developments in the market for flame retardants**
Mr. Noru Tsalic, Senior Vice President,
APPLIED MARKET INFORMATION Ltd., United Kingdom
- 9:40 **Overview of recent advances of flame retardants in polymers - an update**
Dr. Kelvin Shen, Consultant,
RIO TINTO MINERALS, United States
- 10:10 **Policy and marketplace developments impacting the flame retardant industry**
Mr. Jackson Morrill, Director,
AMERICAN CHEMISTRY COUNCIL, United States

10:40-11:10 Coffee break sponsored by:



SESSION 1 - IMPROVING THE FR PROPERTIES OF ENGINEERING PLASTICS

- 11:10 **Fire resistant polyamide: The next step...**
Mr. Roger Moroney, Commercial Leader,
SOLVAY ENGINEERING PLASTICS, United States
- 11:40 **Non-halogen flame retardant technology for polycarbonate**
Mr. James Innes, VP, Flame Retardants,
ARICHEM LLC & FLAME RETARDANTS ASSOCIATES INC., United States
- 12:10 **Flame retardant engineering plastics using high heat resistant solid phosphates**
Mr. Kenichi Omatsu, R&D,
DAIHACHI CHEMICAL INDUSTRY CO., Ltd., Japan
- 12:40-2:10 Lunch
- 2:10 **Development of a new sulfonated polymer type flame retardant and its application to the electrical appliances**
Mr. Kenji Ueda, Eco-Researcher, Advanced Materials Laboratories,
SONY CORPORATION, Japan

SESSION 2 - THE WAY FORWARD FOR HALOGENATED FLAME RETARDANTS

- 2:40 **New borate-silicate synergist**
Dr. Sergei Levchik, New Product Development Manager,
ICL-IP AMERICA, United States
- 3:10 **A novel program to accelerate UL registrations during the implementation of more sustainable flame retardants**
Mr. Marshall Moore, Director of Technology, Advocacy and Marketing,
GREAT LAKES SOLUTIONS, A CHEMTURA BUSINESS, United States

3:40-4:10 Coffee break sponsored by:



SESSION 3 - REGULATIONS, STANDARDS AND TESTING

- 4:10 **Current sustainability characteristics, trends, and regulations for flame retardants**
Ms. Susan D. Landry, Advocacy Advisor II,
ALBEMARLE CORPORATION, United States
- 4:40 **Route UL94: The road to developing the world's most well-known small scale flame test and where it may lead us in the future**
Mr. Daniel O'Shea, Senior Staff Engineer - Plastics,
UL LLC, United States
- 5:10 **Fire performance requirements in codes and standards governing plastic lumber and wood-plastic composites**
Mr. Tim Earl, Director of Fire Test Engineering,
GBH INTERNATIONAL, United States

5:40-7:10 Cocktail Reception sponsored by:



Friday, June 14, 2013

8:30 Welcome coffee
9:00 Opening announcements

SESSION 4 - NATURAL MINERALS FOR FR FORMULATIONS

9:10 **Halloysite and goethite: Natural minerals for high performance fire retardancy and smoke suppression**
Dr. Chris DeArmitt, CTO,
APPLIED MINERALS INC., United States

9:40 **Mixtures of huntite and hydromagnesite - nature's own fire retardant**
Dr. Luke Hollingbery, Project Manager,
MINELCO Ltd., United Kingdom

SESSION 5 - FLAME RETARDANTS FOR POLYOLEFINS, TPOs AND TPEs

10:10 **NOR-based flame retardant and versatile synergist**
Dr. Heinz Herbst, Head Product Development Molding,
BASF SCHWEIZ AG, Switzerland

10:40-11:10 Coffee break sponsored by: 

11:10 **New developments in intumescent FRs for polyolefin and thermoplastic elastomers**
Mr. Kyle Mitchell, Business Development Manager - Flame Retardants,
THOR SPECIALTIES, INC., United States

11:40 **Developments in flame retardant thermoplastic polyolefin (TPO) compounds for thick-sheet extrusion-thermoforming applications**
Mr. Sunit Shah, Technology Manager,
EQUISTAR CHEMICALS LP, A LYONDELLBASELL COMPANY, United States

12:10 **Synergistic flame retardant compositions: A pathway to density reduction, improved flame retardancy, and physical property enhancement in metal hydroxide-based polyolefin composites**
Mr. K. David Lake, Senior Scientist,
MILLIKEN CHEMICAL, United States

12:40-2:10 Lunch

2:10 **Halogen-free polytriazines as universal synergists for fire retardants in plastics: A further milestone towards unsolved problems**
Dr. Bansi Kaul, CEO,
MCA TECHNOLOGIES GmbH, Switzerland

SESSION 6 - RESEARCHING THE FLAME RETARDANTS OF THE FUTURE

2:40 **Current and future flame retardant technologies for polyurethanes**
Dr. Alexander Morgan, Group Leader/Distinguished Research Scientist,
UNIVERSITY OF DAYTON RESEARCH INSTITUTE, United States

3:10 **Novel halogen free flame retardant system for polyamide**
Dipl.-Chem Marcus Leistner, Associate Scientist,
FRAUNHOFER INSTITUTE FOR STRUCTURAL DURABILITY AND SYSTEM RELIABILITY LBF, Germany

3:40 Afternoon wrap up and questions

4:00 Conference ends

Conference bag sponsored by:



Conference lanyard sponsored by:



AMI reserves the right to alter the program without notice. The latest program including any new speakers or changes to schedules can be viewed on our website www.amiplastics-na.com

Save \$200

**Register before May 3, 2013
and save \$200**

CONFERENCE VENUE

Positioned one mile above sea-level, the "Mile High City" of Denver, Colorado is located right at the foot of the Rocky Mountains. During your stay in Denver, you can take in the beautiful views of the massive snow-capped mountains while enjoying the warm weather in the city. The Grand Hyatt Denver is conveniently located within walking distance of the 16th Street Mall which is home to outdoor cafes, renovated historic office buildings, sparkling glass-walled skyscrapers, shops, and retail stores.

SPONSORSHIP AND EXHIBITION SPACE

With an exhibition running alongside the conference as well as a range of sponsorship opportunities, there are ample ways to make sure your company stands out at the conference. All options have proven to be successful marketing tools and will effectively increase brand awareness. The table top package includes one complimentary delegate space and allows companies to display their products and services to a highly targeted audience. Sponsorships will guarantee your company logo will be included on all conference promotions and the event website. To book your table top or secure your sponsorship for Fire Retardants in Plastics 2013 please contact the Conference Coordinator.

CONFERENCE HOTLINE

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