



Day 1 - Wednesday April 10th

UTECH Las Americas 2019 Conference Program

Programme may be subject to change

OVERVIEW

- 12:00** Introduction to UTECH Las Americas
Simon Robinson, Editor, Urethanes Technology International
- 12:10** Welcome / Keynote Address
Steve Burns, Vice President, Polyurethanes, Americas, Huntsman Corp.
- 12:30** Keynote
Speaker to be confirmed

FLEXIBLE FOAMS

- 13:00** Viscoelastic foams with enhanced performance and comfort
Jamie Spears, Research Chemist, Carpenter Co
- How typical Viscoelastic PU foams (memory foams) exhibit poor performance at low or high temperatures
 - Looking at a novel technology which produces Viscoelastic PU foams that retain their performance at a wide gradient of temperatures
 - Applications for these foams: the automotive, flexible foam and consumer markets
- 13:30** Water-based "cool touch" technologies for the flexible foam market
Luis Garcia Correa, Technical Service and Development, The Dow Chemical Company
- A good night's sleep is one of the key attributes that mattress manufacturers focus on when they innovate and market their products
 - How in hot regions such as Mexico and Latin America, customers demand superior cooling, which is PCM have become more common
 - The "cold touch" of new coatings, but the problem of the smell of residual solvent resulting in consumer dissatisfaction
 - New technology of water-based phase change materials, which provides a superior cold touch value proposition and sustained cooling, while providing softness, strength, adhesion and long-term durability

- 16:00** Silicone surfactants with low levels of cyclics which optimise blow efficiency of flexible block foam
Celso Toyoshima, Technical Application Manager, Evonik
- Introduction of the development of a new low VOC silicone surfactant optimized to increase the gas yield of conventional flexible slabstock foam
 - Data from lab studies and machine trials that show reduced top-to-bottom density spreads and increased block heights when using this new surfactant in both discontinuous (cylinder and box) as well as continuous block foam processes
 - How flexible foam manufacturers will be able to improve their chemical conversion efficiencies and produce foam at a lower cost by unit volume

- 16:30** Development of polyurethane foams in automotive under the hood applications
Ernesto Román Calderón, Technical Service and Development, The Dow Chemical Company
- The importance of generating a pleasant atmosphere to travel in a car with noise and vibration absorption systems.
 - The challenge of meeting changes and requirements in acoustic and thermal insulation in the motor industry
 - New materials and formulations of polyurethane systems (flexible and semi-rigid) which meet the specifications of the main manufacturers of the automotive industry

- 17:00** The advantages and disadvantages of automation in polyurethane injection processes
Luis Arturo Maciel Miranda, Maintenance Manager, Lear Corporation
- A closer examination of process automation
 - The problem of the high cost of automation, and how to reduce it
 - The disadvantages of automation
 - Obtaining clear ideas to automate the processes of your company

- 17:30** Efficient production of specialty flexible foam grade
Joachim Bahlke, Sales Manager Molded Foam Lines, Hennecke GmbH
Moisés Abreu, Sales Manager Slabstock, Hennecke GmbH
- Technical aspects leading to higher production efficiency
 - A look at the latest high-quality equipment for moulded foam applications
 - Oval conveyor lines and metering machines



Day 2 - Thursday April 12th

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12:00 **Re-cap and Welcome Back**
Simon Robinson, Editor, Urethanes Technology International

FLEXIBLE FOAMS continued

12:05 **Hot cast polyurethane**
Filiberto Hernández Vásquez, Technical Service Manager, POLYLUBEX S.A

- What is hot cast polyurethane?
- Advantages of hot cast polyurethane over other materials
- Properties: load capacity, tear, abrasion, hydrolysis and oxidation resistance
- Application to the transportation industry

12:30 **TPU injection as an efficient alternative to cast moulding in the automotive industry**
Rodrigo Chinen, New Business Development Manager, Lubrizol

- Alternatives to improve the production process; manufacturing products more efficiently with less cost and higher quality
- Promoting an environmentally friendly process; how the transformation process of TPU - in contrast with other thermofixed polymers - reduces its impact to the environment
- The TPU injection advantages in scrap recycling and waste reduction

13:00 **To be confirmed**

STUDY CASE

13:30 **Low viscosity polyester polyols for reduced VOC 2K polyurethane coatings**
Jeffrey Janos, Research Associate, Stepan Company

- The characteristics and performance of new low viscosity polyester polyols
- Using these polyols to formulate coatings that satisfy the growing need for very low VOC urethane products
- Conclusions

16:00 **A complete solution for the wheels industry**
Luca Fanti, Global Techno-Commercial Manager, Huntsman Polyurethanes

- A look at the various hot cast polyurethanes systems used in the manufacturing of rolls, castors and wheels. The benefits of different systems, including polyester-based; polyether-based; PCL-based; and special and novel-grade systems
- The machinery used to cast the wheels and various parts.

16:20 **Guide to problems, causes and solutions in polyurethane elastomers caused by the casting process**
Rodrigo Gustavo Huescas Villegas, Research and Development Manager, Nuceq

- Improving process times and reduce downtime during the manufacture of polyurethanes by casting
- Reducing scrap and waste of material during the manufacturing process
- Increasing productivity
- Prevent problems that result in losses during the manufacturing process of polyurethanes by casting.

16:40 **Hot cast Urethane Elastomers and end use applications**
Speaker to be confirmed, Foam Supplies

- How hot cast urethane elastomers have been growing significantly all over the world during the past 50 years
- The use of these products and how they are seen replacing rubber in high industrial areas to improve productivity and product life span
- Application use is limitless
- Reviewing end product performance needs and which specific urethane elastomers can meet these application requirements

FOOTWEAR AND RELEASE AGENTS

17:00 **Innovations for superior comfort in footwear production**
Mauricio Torres, Technical Service and Development, The Dow Chemical Company

- The move by customers towards shoes that combine both comfort and style for their daily activities.
- How the industry is responding by looking for comfort, ergonomics and lightness
- Innovative polyurethane solutions that meet the main characteristics required to provide superior performance footwear
- How the solutions are an excellent proposal for sports shoes with a higher energy return and greater lightness compared to conventional polyurethanes.

17:20 **Reducing the weight of polyurethane shoe soles to maintain durability and comfort**
Salvador Mejía Gómez, Latin America PUR Foam Application Development Manager, Honeywell

- The importance of Mexico as a production centre for the footwear industry in Latin America
- How polyurethane foam is a key component when durability, chemical resistance and comfort are required
- Despite its high-end properties, polyurethane faces strong competition from lighter materials like EVA or synthetic rubber.
- Solutions to keep competitive whilst reducing shoe sole weight, reducing environmental impact and retaining desired properties

17:40 **Optimising release agents from application through process to lower residue**
Carles Alonso, Release Agents Division Technician, Concentrol

- Release agents; one of the most important chemicals used for polyurethane molded foam manufacturers
- The problem of misuse by customers not using or storing them properly and the resulting issues re: stability and efficiency
- Instructing customers to provide technical recommendations to avoid these issues
- Key factors to handle release agents properly



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Day 3 - Friday April 13th

12:00 Re-cap and Welcome Back
Simon Robinson, Editor, Urethanes Technology International

BLOWING AGENTS

12:05 HFO blowing agent for semi-continuous panels and spray polyurethane foam applications in construction
Salvador Mejía Gómez, Latin America PUR Foam Application Development Manager, Honeywell

- How changes in blowing agent regulations have delivered novel materials to the market with better properties
- A new brand of HFO blowing agents to address construction industry challenges: more efficient insulation, and better physical and structural properties in applications
- A comparison of blowing agent properties as well as a brief synopsis of the polyurethane foam formulations and properties that can be achieved with HFO blowing agents

12:30 Blowing agent blends for PUR rigid foams
Ercan Unveren, Business Development Manager, Solvay

- Non-flammable liquid foam blowing agents successfully used in thermal insulation applications for more than 15 years
- Brominated polyether polyols providing good flame retardancy to fulfil fire classifications required for the building and construction industry
- Comparison of PU formulations with non-flammable Solvay blends

13:00 Comparative performance of Honeywell's LBA and other alternatives in the appliance industry
Salvador Mejía Gómez, Latin America PUR Foam Application Development Manager, Honeywell

- Blowing agents: a key raw material in the production of polyurethane rigid foam
- How different options have been developed to meet processing and more stringent energy-consumption regulations
- Demonstrating superior insulation performance in commercial and domestic appliances compared with water-blown systems, hydrocarbons or hydrofluorocarbons
- New trends in blowing agent technologies

13:30 Next generation blowing agents: The challenges ahead
Raul Dacomba, Senior Formulating Chemist, Foam Supplies

- Ever-increasing demands for energy efficiency and regulatory compliance: how the polyurethane foam insulation industry is tasked with transitioning to a new generation of blowing agents
- The next generation blowing agent options offered to the formulator
- How these new offerings seem to offset the trend of decreased insulation performance of foams
- A look at the importance of formula optimization via a case study; delving into how raw material selection is crucial to excellent foam performance

RIGID FOAMS

16:00 Sustainable construction: polyurethane as an enabling element of a faster, cleaner and energy efficient industry
Alvaro Ballesteros, Technical Service and Development, The Dow Chemical Company

- How sustainable construction relies on two pillars: industrialization and energy efficiency.
- Building with polyurethane powers the construction industry, through architectural versatility, excellent aesthetics, lightness, precision in its installation and resistance to destructive agents
- The positive impacts on sustainability, from a drastic reduction in water use to the minimization of CO2 emissions and through less energy consumption of air conditioning systems.
- Cases that illustrate some of these advantages

16:30 Novel polyester polyols based on recycled PET
Netza Lopez, Senior Account Manager NAFTA Region, Carpenter Co

- Polyester polyols made out of recycled PET (water bottles + films) used to produce rigid PU foams used in the construction industry
- A review of the benefits of these foams on energy saving and reducing environmental impact of plastic waste

17:00 Versatile, environmentally friendly formulations for compliance and performance
Alvaro Ballesteros, Technical Service and Development, The Dow Chemical Company

- The imminent global transition to the 4th generation of foaming agents, and how Mexico and Latin America are not exempt from these regulatory changes
- The main factors to consider in the selection of the expansion agent, at the same time how new polyurethane technologies can maintain or improve the performance of your application.
- A look at global and regional trends, including sustainability and safety, with the objective that the industry is aware that there are viable alternatives

COMPOSITES

17:30 Stretching the limits of composites spray moulding through novel polyurethane resin spray systems
Jorge Brito, Technical Service Representative, Huntsman Polyurethanes

- Composites spray molding of glass fibre-reinforced paper honeycomb panels; how it has deserved its merits in the automotive industry
- A highly productive and affordable process to manufacture very lightweight semi-structural parts for automotive interiors
- The resulting strong market pull today to push the boundaries of this process further, requiring also superior material solutions
- Novel characteristics of newly developed Huntsman Polyurethanes resin spray systems

PRICES in USD; 16% VAT inclusive.

		UNTIL MARCH 11	FROM MARCH 12
FEES 2019	FULL PASS	175.00	225.00
	DAY	100.00	120.00
	GOVERNMENT, EXHIBITORS & ACADEMY	140.00	160.00
	Full Pass includes: Access to expo and conferences program, coffee break, material and technical memories.		

IMPORTANT: The conferences program will be held in Spanish, any conference given in English will have simultaneous translation.

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