



connection

SPECIAL ISSUE

ISSUE 2000 **2**

INFORMATION BULLETIN FOR HUNTSMAN POLYURETHANES RIGID FOAM CUSTOMERS

FROM THE EDITOR

Continuing development of the polyurethanes market is vitally important to Huntsman Polyurethanes' future. This issue of connection focuses on the forthcoming UTECH 2000, and provides a preview of the key events that will take place during this international conference and exhibition. We feel it is important that you share the latest developments in the industry with us and enclose a free entry ticket to the exhibition. Hope to see you there!

For further information regarding any of the topics covered in this issue, please speak to your commercial/technical contact at Huntsman Polyurethanes.

Regards,

Werner Van Peteghem - Marketing Executive

UTECH 2000

UTECH 2000 - the only major polyurethanes meeting in Europe this year - will take place at The Netherlands Congress Centre, The Hague, from 28th - 30th March. Our Polyurethanes business will make its first appearance there since its purchase last year by the Huntsman Corporation. We recommend that all those working in the polyurethanes sector visit our stand (no. 201) to see how the business is looking to the future with continued investment in product development and innovation.

This year sees a significant change to the conference format. For the first time ever, the organisers have joined forces with ISOPA to produce a three-day event designed to broaden minds and horizons across the entire polyurethane industry. The conference and exhibition will cover a vast range of topics and will appeal to a wide spectrum of industry participants, from commercial strategists to technical innovators.

Huntsman Polyurethanes stand will be prominent at the show, epitomising the comfort and high tech benefits of polyurethanes. The Construction and Appliances section of the stand is a composite panel structure themed "...Saving Energy Worldwide...". It will house a plasma screen, which will continually display polyurethane rigid foam applications, and includes the latest in pipe-in-pipe and VACPAC™¹ foam and panel technologies. The overall focus will be on the benefits of polyurethane, particularly in terms of insulation and cost-effectiveness.



A visitor card, allowing complimentary entrance to the exhibition, is enclosed with this newsletter. We look forward to welcoming you and sharing our latest innovations.

Key Sessions

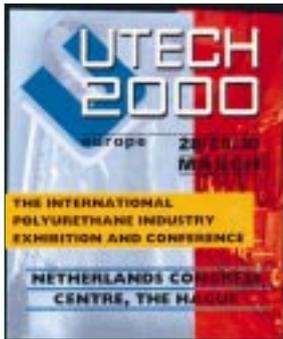
A full schedule of technical events will run over the three days. Key sessions for our Construction and Appliances customers are on the afternoon of Day One (Appliances), the afternoon of Day Two (Construction) and the morning of Day Three (Rigid Foam Developments). The complete programmes for these sessions are detailed below.

A major highlight will be architect Anton Bronsvort's presentation on Wednesday, March 29 (14:30h), entitled "Polyurethane Composite Panels: The Architect's Viewpoint".



Anton Bronsvort will look at the dilemma of an industry in which architects and manufacturers do not always understand one another's requirements. He will show how the lack of communication is amplified because the main contractor is increasingly becoming a purchasing organisation. This means price is driving selection, leading to less and less room for new or innovative materials and their applications, at a time when there is more choice than ever. Designers, however, should actually be searching for new

¹ VACPAC is a trademark of Huntsman ICI Chemicals LLC



materials and application design possibilities. If architects were to provide input into product development, the application possibilities of new and existing products - like composite panels - would

greatly improve. Mr. Bronsvort appeals for direct communications between producer and architect, i.e. between production process and architecture process and suggests a number of solutions.

Another event not to be missed is Peter Trew's presentation on "The Continuing Growth of Urethane Insulated Sandwich Panels". The presentation will look at the dramatic 20 per cent growth of sandwich panels in the UK in spite of major challenges relating to CFCs and fire safety. Peter Trew's presentation will show how the UK industry overcame these and look at the way polyurethane cored sandwich panels have developed to satisfy the buying requirements and the latest performance requirements of architects, specifiers, building engineers and building owners. He will also forecast the demands over the next few years across Europe.

Day 1, Tuesday March 28
APPLIANCE SESSION, Mondriaan Room

- 14:00 **KEYNOTE: Energy regulations in Europe: Present and future**
Dario Lanzavecchia, European Committee of Manufacturers of Domestic Equipment (CECED), Belgium
- 14:30 **Industry trends, requirements for foam systems and blowing agents, status in Europe and worldwide**
Henrik Sundström, Electrolux AB, Sweden
- 15:00 **Improving energy efficiency through the use of HFC 245fa**
Peter Logsdon, AlliedSignal Inc., USA
- 15:50 **What do modern foam technologies hold in practice?**
Roberta Bernasconi, Refrigeration global technology/materials, Whirlpool Europe Srl, Italy
- 16:20 **Manufacture of appliances, Energy efficiency through processing**
Cornelius Löber, AEG Hausgeräte GmbH, Germany
- 16:40 **The gas permeability of plastics and evaluation methods for vacuum insulated components of future refrigerators**
Fatih Özkadi, Arçelik AS, Turkey
- 17:00 **Discussion**
- 17:15 **Innovative foam systems – the supplier industry's state-of-the-art**
ISOPA Panel Discussion

Day 2, Wednesday March 29
CONSTRUCTION SESSION, Van Gogh Room

- 14:00 **KEYNOTE: Thermal Insulation markets: Status of and prospects for polyurethane-based products**
Maria McFaul, Frost & Sullivan Ltd, UK
- 14:30 **PU composite panels: The architect's viewpoint**
Anton Bronsvort, architectenburo Bronsvort bna, The Netherlands
- 14:55 **The continuing growth of urethane insulated sandwich panels**
Peter Trew, Director, Engineered Panels in Construction (EPIC), Belgium
- 15:20 **HFC-365mfc, the key for high performance rigid polyurethane foams**
Pierre Dournel and Lothar Zipfel, Solvay Fluor and Derivate GmbH, Germany
- 16:15 **Polyisocyanurate foams: An American perspective**
Jared Blum, PIMA (Polyisocyanurate Insulation Manufacturers Association), USA
- 16:40 **Additives for pentane lamination rigid foams**
Peter C. Hohl, Air Products and Chemicals Inc, USA
- 17:20 **Discussion**

Day 3, Thursday March 29
INNOVATION SESSION, Van Gogh Room

- 09:00 **Challenges for metal sandwich panels with polyurethane foam core**
Ronald van den Bosch, Dow Benelux, Germany
- 09:15 **Structure-property correlation on PIR foams with n-pentane**
C. Cecchini & R. Franco, EniChem Porto Marghera Research Centre, Italy
- 09:30 **Continuous PIR sandwich panels with natural carbon dioxide**
Max Taverna, Cannon, Italy
- 09:45 **Improved insulation values and processing advantages of pentane-blown PIR rigid foams with a new additive package**
Matthias Sikorski, Nitroil Europe Handels, Germany
- 10:00 **PIR foams benefit from using polyester polyols with improved pentane solubility**
Al de Leon, Oxid Inc., USA
- 10:45 **Long-term energy efficiency of PU-insulation for refrigeration**
Holger Seifert, Elastogran GmbH, Germany
- 11:00 **Development of new generation of semi-flexible foam systems for the production of flexible polyurethane pre-insulated pipes**
Jurgen Kellner, Huntsman Polyurethanes, Belgium
- 11:30 **Life-cycle analysis on rigid polyurethanes foams blown with HFC-365mfc**
Pierre Barthélemy and Lothar Zipfel, Solvay Fluor and Derivate GmbH, Germany

Additional sessions of importance are:

Day 2, Wednesday March 29 - Morning Session
POLYURETHANES AND SUSTAINABLE DEVELOPMENT, Mondriaan Room
Mike Jeffs will give a presentation on "Climate Change: A win-win opportunity", describing the opportunity for polyurethane insulation.

Day 2, Wednesday March 29 - Afternoon Session
POLYURETHANE ISSUES MANAGEMENT, Mondriaan Room
The practicalities of Polyurethanes and Issues Management are being discussed with sessions by ISOPA's Issues Managers.

- In "Issues Management : how to do it", Julia Harrison, Chief Executive of policy consultants GPC, will offer guidance on how to develop and implement an active strategy.
- Judith Dobbs will explain ISOPA's strategic approach and campaign on the recent amendments to the European Union's Classification and Labelling Scheme.
- On combustibility, Diane Daems, will show how ISOPA developed a position and describe its work with regulators in this crucial debate with major commercial consequences in the face of competitive materials.
- Covering the proposed EU directive on End-of-Life Vehicles, Frank Mark will show the importance of working on legislative proposals which could have an enormous impact on the polyurethane sector.
- In "HFCs - A Green Positioning", Mike Jeffs will show how ISOPA has responded to one of today's most important issues and will look at benefits of a pro-active approach.

Registration for all of the above sessions can be made at the Netherlands Congress Centre in The Hague. Conference tickets can be purchased for £255/day.

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You can
have brilliant
ideas, but if
you can't get
them across,
your ideas
won't get you
anywhere.

Lee Iacocca