



**International Trade Fair for Plastics and Rubber
26 – 29 April 2005
Singapore Expo**

www.aseanplas-singapore.com

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For immediate release

- **Minister of State for Finance to open ASEANPLAS 2005**
- **Trade visitors to sample latest innovations at the ASEAN Plastics Technology Showcase**

ASEANPLAS incorporating ASEANRUBBER 2005 is fast approaching, with more than 300 companies from 23 countries and economies having confirmed their participation at Southeast Asia's leading international trade fair for plastics and rubber. This includes country group representations from Austria, China, Germany, Italy, South Korea, Singapore, Taiwan and USA.

Guest-of-Honour Mrs Lim Hwee Hua, Singapore's Minister of State for Finance and Transport, will officially open ASEANPLAS at 10.30 am on 26 April at a ceremony in Hall 4.

ASEANPLAS will be open to trade visitors from 10.00am to 6.00pm 26 - 28 April and from 10.00 am to 5.00 pm 29 April. The organizer, Messe Düsseldorf Asia, expects more than 8,000 trade visitors to visit ASEANPLAS 2005.

Besides the ASEAN Federation of Plastic Industries (AFPI) Conference and the 15th Asia Plastics Forum (APF) convening on 25 April prior to ASEANPLAS, the exhibition will be augmented by:

- APN Technology & Business Conference 2005 (26 and 27 April)
- Training course on the fundamentals of plastics technology (28 and 29 April)
- Short course on the advances in rubber technology (28 and 29 April)

These conferences and courses will highlight various technologies and strategies of relevance to processors in the ASEAN region.

Technology Highlights Await

Furthermore, at this year's ASEANPLAS, trade visitors will also have the opportunity to sample the latest innovations at the **ASEAN Plastics Technology Showcase**. With official support from Singapore's A*Star Plastic Moulding Task Force, the ASEAN Plastic Technology Showcase will bring together ten companies and three research institutes. Highlights of the showcase include:

Bio-Enviroplus

Presentation Theme : Biodegradable resins

Bio Enviroplus produces 100% starch-based bio-photo double degradable resin masterbatches for use independently or together with plastics such as PS, PE and PP in various loadings. Processing using standard machinery into end products such as food packaging film, agricultural film, shopping and rubbish bags, and fast food boxes is possible.

Institute of High Performance Computing (IHPC)

Presentation Theme : Tools for Product Realization

Since 1998, the IHPC has worked on developing software systems that automate the design process and minimise the need for skill and a high level of operator experience. The systems take into account the many parameters and their complex inter-relationships in precision die and mould design. Now, with the innovative Knowledge-based Rapid Virtual Engineering System (KB-REVES) technology developed by the Institute, companies will be able to use the software's highly automated capabilities for the design and fabrication of dies and moulds to address the twin challenges of lower costs and shorter design times.

Institute of Materials Research & Engineering (IMRE)

Presentation Theme : Polymer Nanocomposites

Recent developments in nanoscience and technology have presented opportunities to create revolutionary combinations of materials. IMRE will highlight some of its research activities in polymer nanocomposites and their potential applications.

JSW, The Japan Steel Works, Ltd

Presentation Theme : Innovative Process Technologies

Thixotropic injection moulding machines from JSW can produce a wide variety of parts and components from magnesium alloy featuring high stiffness, EMI shielding, light weight, and recyclability. Applications include mobile computing, mobile phones, and automobiles.

Krauss-Maffei Asia Pacific Pte Ltd

Presentation Theme : Foamed Decorative Insert Technology

Krauss Maffei Asia Pacific's core competency lies not only in delivering high quality injection moulding machines but also in developing turnkey solutions through 'Vertical Integration Of Advance Technology (VIAT)'. VIAT is a holistic strategic approach that creates multiple different benefits simultaneously that is advantageous to the supply chain. One such VIAT created for the market is 'Foamed Decorative Insert Technology' which is mainly driven by the automotive industry and can also be implemented to the electronic industries.

MAGMA Engineering Asia Pacific Pte Ltd

Presentation Theme : Tools for Product Realization

Sigma Engineering GmbH will launch its 3D-SIGMA plastic/rubber simulation Version 4.3+ at the ASEANPLAS 2005. Version 4.3+ comes with massive improvements over Version 4.3 which was released at the K2004 in Düsseldorf. Most impressive are the subsequent simulation speed gains, further 3D-SIGMA is now available for 64 bit Linux systems, making virtually unlimited amounts of ram memory available. The new functionality and all the enhancements bring new frontiers in simulation of plastic, rubber and thermoset parts, moulds and processes.

Meiban Group Ltd

Presentation Theme : Photonics

Meiban has recently ventured into the world of optics. The plastic processor's optics engineering team is currently working on a range of products including a 3-piece mini-lens imaging system. Currently, this system is a hybrid design comprised of one glass and two plastic elements. Further, the Meiban optics team is developing a more compact three plastic element system that will offer improved optical performance. Other Meiban development projects include optics for illumination systems for the automotive and consumer product industry.

PEAC Mold-expert Pte Ltd

Presentation Theme : Plastics Design Solutions

PEAC Mold-expert will showcase Moldex3D, a software package from Taiwan that predicts the results of injection moulded part before design and manufacturing. It will also present Stress Viewer, a package to view the distribution of residual stress in injection-moulded parts

SIMTech (Singapore Institute of Manufacturing Technology)

Presentation Theme : Micromoulding

SIMTech was the first research institute to enter into the area of micromoulding research in the region and it is now ready to offer assistance to the plastic processing sector. Micro components and structures successfully produced at SIMTech to date include polyoxymethylene (POM) gears weighing just 0.6 milligrams, with tooth dimensions measured in microns, polycarbonate (PC) micro lens arrays with fine lens surface structures for laser applications, and polymer biochips with micro channels for diagnostic applications.

SIMTech has also developed a single point diamond cutting method for stainless steel mould inserts without the need for plated nickel layers on the steel surfaces. The technology drastically reduces diamond cutter wear so that optical quality finishes with a surface roughness as low as 8 nm and a profile form accuracy of 0.15 um can be achieved. The technology is very robust and SIMTech has used it to produce over 700 mould inserts that are being used for injection moulding of optics for CCD cameras, CD/ VCD pick-ups, optical mice, sensor lenses, and LED optics, among other applications. Licensing of this pioneering technology has enabled Singaporean companies to enter new businesses.

Spirex Corporation [c/o Enge Plas Automation (S) Pte Ltd]

Presentation Theme : Innovative Process Technology

TWINSHOT co-injection technology enables a conventional injection machine with a single barrel and single screw to inject two materials in a single shot with one material totally enclosing the other. TWINSHOT is popular with major OEMs and is available on many models of new machine. However, it can also be easily installed on existing moulding systems, enabling multi-material moulding without the need for costly specialised custom machines.

Sumitomo Corporation (S) Pte Ltd

Presentation Theme : Innovative Process Technology

Nano-Moulding Technology (NMT) is an “insert” injection molding process that integrates aluminium and plastic. Aluminium components are modified using a special process to form nano-level surface indentations, then inserted into an injection tool and overmoulded with plastic to form bosses and clips, for example. The resulting plastic-aluminum bond is extremely strong. This technology makes possible the manufacture of light and strong integrated products.

Wittmann Automation Pte Ltd

Presentation Theme : Innovative Process Technology

In order to highlight the tremendous potential of connecting production equipment to central computers in plastic processing plants, Wittmann has introduced the communication program **WITTLINK** for their entire range of auxiliary equipment. The completely networked solution using embedded web servers allows secure information exchange via standard Ethernet cables and TCP/IP communication protocol. This enables troubleshooting and predictive monitoring on a PC or e-mails alerts to be sent to any personal communication device via the Internet anywhere in the world, any time of the day.

Further updates on the technology showcase can be found in the **visiting** or **press information** sections of www.aseanplas-singapore.com

ASEANPLAS 2005, organized by Messe Düsseldorf Asia, is a project by the ASEAN Federation of Plastic Industries (AFPI) and hosted by the Singapore Plastic Industry Association. It is endorsed by the Singapore Exhibition and Convention Bureau as an Approved International Trade Fair and supported by the European Committee of Machinery Manufacturers for the Plastics and Rubber Industries (EUROMAP), the Association of Japan Plastics Machinery (JPM) and K Düsseldorf, the world's leading plastic and rubber trade fair.

For more information, please visit www.aseanplas-singapore.com or contact:

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