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Packaging
Sustainable alternative for the plastic packaging market

IPF Show Review
IPF Japan, a recovery of confidence in the plastics market

Chinaplas Preview
May 20 - 23, 2015
@ Guangzhou, China
Chinaplas AS brings in new topics to shade light on new manufacturing era
The global growth of the plastics packaging industry is generating new demand for innovative technologies in materials and processing equipment, while efforts in sustainable development are taking shape as well. The 7th APN Plastics in Packaging 2015 conference will be featuring the latest developments in materials and processing technologies in both the rigid and flexible packaging application fields.

Topics covered for the one-day conference include:

**Section 1 – Market trends in packaging end use**
- General market trends for packaging in Asia
  ~ Philippe Chan, Canadean
- Recycling of plastics into products – today’s rubbish, tomorrow’s sustainable profit?
  What opportunities are there for the plastics industry to use the greatest potential raw material source by utilising today’s rubbish back into our products.
  ~ Ashley Jones, CEDO
- Green and Sustainable

**Section 2 – Rigid Packaging**
- Caps and closure production innovation and technologies
- Thin wall packaging applications
- Technology updates for bottle perform and blow moulding

**Section 3 – Flexible Packaging**
- Latest commercial developments in flexible packaging
- Emerging material innovations for flexible packaging
- Developments in blown and cast film extrusion

Who should attend?
- Packaging product end users
- Plastics processors and manufacturers
- Materials suppliers and compounders
- Machinery suppliers
- Consultant and industry researchers
- Media related to the packaging or plastics arena

Sponsorship opportunities:

The 7th APN Plastics in Packaging 2015 conference offers a unique opportunity to promote your products and highlight new technologies to key decision makers and plastics processors in the Asian packaging industry.

For sponsorship opportunities, presentation or attend, please contact:

Annie Chan
Tel: 65-6222 2933
Mobile: 65-9746 4909
Email: annie@apn.com.sg

Topics & Speakers subject to changes at the discretion of the organiser.
DELEGATE REGISTRATION FORM

Organised by Asian Plastics News
Held in conjunction with Propak Asia 2015

Date/Venue: 18 June 2015 / Bangkok, Thailand

DELEGATE FEE – US$180.00 – One day conference
(Fee includes light breakfast, tea-breaks, networking lunch, conference materials & entrance to Propak Asia).

DIETARY REQUIREMENTS (Please tick ✓)
☐ Non-vegetarian  ☐ Vegetarian

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Delegates should note that payment must be made upon confirmation of attendance.

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TERMS & CONDITIONS

• DATA PROTECTION
  By entering your details in the field above, you agreed to allow Asian Plastics News and companies associated with the event to contact you (by mail, email or fax) regarding their services. If you do not wish to receive such communications, please contact us in writing.

• BOOKING CONDITIONS
  A confirmation email and an invoice will be sent via email upon booking. Payment must be made thereafter upon receipt of the invoice.

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  Cancellations made before 30 April 2015 will be charge 10% of the invoice total. Cancellation made between this date and 30 May 2015 will be charge at 50% of the invoice total. Cancellations made after 30 May 2015 will be charge at full invoices total. However, you can send a substitute delegate at any time. Cancellations and substitutes must be made in writing before 30 May 2015.

• CONFERENCE LANGUAGE
  English

PLEASE NOTE:
The conference fee covers entrance to the conference, conference presentations in CD, tea-breaks and lunch.
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Additives
Clariant unveils
ColorForward® 2016
Clariant marks 10th anniversary colour forecasting guide for the plastics industry

Packaging
Renewable platform chemical promising for bioplastics packaging market
With petro-based materials becoming an increasingly risky investment, bio-based platform chemical 5-HMF, now produced industrially, offers a sustainable alternative for the plastics packaging market

IPF Show Review
IPF Japan, a recovery of confidence in the plastics market
IPF Japan 2014 signified a recovery of confidence in Japan economy, which attracted 39,276 visitors around the world

PlastIndia Show Preview
PlastIndia 2015 All Set To Open Big
PlastIndia, the international flagship show of the Indian plastics industry gears up to create new milestone by taking the 9th edition of the mega trade show PlastIndia 2015, now to a new and modern venue
Bayer MaterialScience (BMS) has recently been awarded by China Anti-counterfeiting Technology Association with “BlueShield Award 2014” for its significant presence in China ID card and security market as a foreign enterprise, in recognition of BMS’s commitment to China market and achievement in ID card development with local partners. As an industry leader in high-technical polymer materials, BMS is committed to adding value to China ID card and security market with innovative solutions based on cutting edge polycarbonate film technology. Its products Makrofol® ID series are ideal choice to manufacture ID cards with unique advantages, e.g. high chemical and physical performances.

Grow together with China ID card and security market

Makrofol® ID series from BMS have been widely applied in more than 45 countries worldwide, with successful cases like EU driver’s license and Swiss ID card, etc. In China, BMS is also actively collaborating with industrial partners and local authorities and helps them to upgrade the process and technology to manufacture modern ID cards and security documents with latest polycarbonate film solutions. Leveraging its rich application expertise and understanding of China market needs based on more than 20 years’ experience in the ID market, BMS has built up credibility and successful cases in China and grow the business together with local partners.

“Our goal is to be the most recognized provider of speciality film solutions in China ID card and security market, we are committed to adding values to our customers with innovative polycarbonate film solutions,” said Joerg Ottmann, Head of Specialty Films Asia Pacific, Bayer MaterialScience, “the recent BlueShield Award is a good recognition from the industry to our years of efforts developing this market. We will further strengthen our presence in this market through research and development and industry cooperation and aim for sustainable growth together with our partners.”

ID cards with longer life time and advanced security features

The polycarbonate film technology from BMS can be applied in a wide range of areas, such as national ID card, passports, driver’s licenses and other security documents. Compared with traditional materials like PVC and PETG, Bayer’s polycarbonate film solution has excellent mechanical properties and unique security functionality.

ID cards manufactured by Makrofol® ID have a life time over 10 years due to its ultra-durability, good abrasion resistance and long-term flexural strength. These features can provide better protection for the expensive chips inserted in the ID cards and thus help to reduce the overall costs due to longer life time.

One of the major challenges for ID card manufac-turers is forgery. With Makrofol® ID, the different layers of films can be optimally laminated together to a single piece of polycarbonate film at high temperature without using adhesives. It is no longer possible to change the information inside the card without causing damages. Furthermore, the security level is enhanced with laser engraving technology to engrave personalized information inside the card. Thus, by adopting Makrofol® ID film technology from BMS can help customers in China to produce advanced security documents that can match future trends.

Strong capabilities for technical support in Asia

BMS is supporting global customers with polycarbonate films technology by a global network of Technical Competence Centers (TCCs). With TCC network, BMS can help customer to develop tailor-made solutions addressing their particular challenges in market. Recently, BMS newly inaugurated China’s first Technical Competence Center (TCC) for Specialty Films at Bayer Polymer Research & Development Center (PRDC) in Shanghai.

“The new TCC in China is an important milestone to further strengthen our technical capability in Asia. According to China’s particular market development and technology readiness, we are focused on developing innovative polycarbonate film solutions addressing local needs and enabling new generation of products.” Lily Shui, Head of Specialty Films Greater China, Bayer MaterialScience, said, “We will enhance the collaboration with key partners and introduce the right solutions that can help the China ID cards and security market to upgrade.”
SANAFOR® antimicrobial technology offers safe and effective built-in protection against odor, stain and degradation of plastics and textiles, together with the antimicrobial protection that puts everyone at ease.

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Wacker Asahikasei Silicone, a Japanese joint venture of Wacker Chemie AG, opened a new development laboratory for airbag applications. The competence center will spearhead the development of silicone coatings for airbags and technical textiles in the region.

Investment in the new laboratory amounts to roughly €1 million. Wacker Asahikasei Silicone (AWS) is jointly owned by WACKER and the Japanese chemical group Asahi Chemie AG, opened a new engineering laboratory for airbags and technical textiles in the region.

The competence center will support airbag manufacturers and their suppliers and will be equipped to develop novel high-performance silicone materials for coating airbags. Key material tests, such as coating, heat-resistance and fire-safety tests, can now be performed locally. “The airbag market is growing by six to seven percent annually,” noted Peter Sunmo, head of WACKER’s Engineering Silicones business unit, during the opening ceremony of the laboratory in Tsukuba. “Since every major airbag manufacturer produces in Asia, we decided to strengthen our expertise in this region. We can develop new and innovative coating materials in Tsukuba. Airbag manufacturers like to work with us. At ACES, we will be able to contribute to the development of innovative airbag technologies and make vehicles even safer in the future.”

Modern vehicles are equipped with a number of airbags. These protective systems are installed not only in steering wheels and dashboards, but also in seats, doors and roof liners. Silicones, which adhere well to airbag fabrics, improve the fabrics’ leaktightness and air-holding performance and protect them from the initial heat and the hot gases that inflate airbags in milliseconds. In addition, silicone topcoats reduce surface friction on deployment. This enables airbags to inflate uniformly and instantly.

“Given the weight and safety benefits, silicones have become the coating material of choice for numerous manufacturers. The coatings are light and ensure that airbags still function properly many years after being installed,” stresses Peter Sunmo. Since the number of airbags in vehicles is growing, saving weight is an even more vital issue, explains the business unit head. “Cars are expected to become increasingly lighter and more economical. At the same time, demands on safety and mechanical performance are rising. With our competence team here in Tsukuba, we are optimally positioned to develop convincing solutions for the airbag industry.”

**Evonik awarded China’s Top Employer 2015**

Evonik has been awarded as one of the 50 “China’s Top Employer 2015” on December 15 by the international publishing company Top Employers Institute. This is the eighth time Evonik received this award for its outstanding Human Resources management.

This year’s assessment was stricter than before as the criteria extended from five to nine aspects. Evonik stood out to the awards committee and was given especially high scores for its excellent performance management and leadership development, as well as its efforts and practices in corporate culture.

“It is a great honor to win this award once again. Winning the Top Employer eighth time is a perfect recognition and reflection to Evonik’s commitment and continuous efforts in human resource management,” said Dr. Hans-Josef Rittner, President Evonik Greater China region at the award ceremony. “People are the most valuable asset of Evonik, therefore we will continue to help our employees give full play to their potentials and grow together with the company.”

The Top Employers Institute (formerly known as the CRF Institute) is an independent organization headquartered in Holland. It has been studying the employee offerings of significant employers and recognizing Top Employers around the world since 1991.
Regional Round-Up

India

DSM sustainability efforts recognized by prestigious CII ITC Award in India

Royal DSM, the global Life Sciences and Materials Sciences company, has received the CII ITC Sustainability Award 2014 in India for Excellence in Environment Management.

The award was granted to DSM’s Engineering Plastics facility in Pune, India, in recognition of the company’s innovative approach to reduce its environmental impact, which has achieved exemplary results.

The DSM site in Pune produces compounds of thermoplastic polyesters and polyamides, and has already established a strong track-record of sustainability initiatives. The company’s recent innovations include:

- the establishment of a state-of-the-art solar technology center that will reduce the plant’s CO2 footprint by using the renewable energy generated by the solar plant to meet 25% of the site’s electricity needs;
- a highly efficient water management that increases process water recycling, together with rigorous monitoring of potential water leakages, reducing the operation’s water footprint by two-thirds.

On receiving the award, Sanjay Jain, Business Director DSM Engineering Plastics India said: “The CII ITC Award recognizing DSM India as one of the ‘India’s Most Sustainable Company’ re-affirms our commitment to our stakeholders (customers, shareholders, local community) that we perform our business activities in the most socially responsible way, fully in line with our mission and values. It is a great motivation for the team and inspires us to further excel in this direction.”

Uday Shetty, Operations Director DSM Engineering Plastics India adds: “This award is a recognition for the continual focused efforts towards sustainability by the DSM Engineering Plastics India team. This would be a good motivator for the team to raise the bar.”

Over a period of six months, participating companies undergo a rigorous evaluation process that is based on a business excellence model and tailored for business in India. A team of CII-certified assessors spends nearly 1000 man-hours per application in close consultation with professionals across the organisation.

The findings of this evaluation, presented in the form of a detailed Feedback Report to every applicant, further help the organisations by providing insights that both improve the impact of their sustainability initiatives and also drive overall performance by identifying new opportunities for improvement.

Singapore

Joint research project between DSM and ERDA confirms prime position for high performance polyamides in safer circuit breakers

Royal DSM says that new independent research with Electrical Research & Development Association (ERDA), a cooperative research institution in India, shows that the use of DSM’s high performance polyamides in molded case circuit breakers (MCCBs) makes them safer and more cost-effective to produce than traditional versions made in thermoset composites. MCCBs are heavy duty circuit breakers, mostly used in industrial and commercial buildings, and operate at far higher electrical ratings than miniature circuit breakers, MCBs, used in domestic housing.

DSM is the first engineering plastics supplier to offer a full portfolio of materials for MCCBs. It has solutions for all the separate housing components, as well as for the functional internal parts in the arc extinguishing chamber, which are critical components in MCCBs, resulting in a very safe and cost-effective solution. The results from the latest research confirm the advantages of DSM engineering plastics, and have given a strong indication of the extensive possibilities they offer in this growth market.

The company has been collaborating with ERDA. ERDA has helped DSM improve its understanding of the thermo-mechanical and electrical performance of thermoplastics in arc chutes.

DSM has been a pioneer in replacing thermostats in low voltage switchgear (LVSG) applications such as MCBs for over 35 years. Now, with its most recent developments in high-performance, halogen-free flame-retardant materials, and the support of this independently verified performance data, the company intends to repeat its success in MCCBs. It is in a strong position to demonstrate the benefits of its highest performing grades in the arc chute. Selected DSM partners such as Jiangsu Phono Electrical Co. Ltd. in China are in fact already commercializing the concept.

Alexis Pornaradjou, VP Global Research and Technology for Engineering Plastics at DSM says: “We were very confident from the outset that our cooperation with ERDA would lead to innovative solutions on performance and sustainability, and I am happy to say that the results from our joint research have shown that our confidence was well-founded.”

Research at ERDA has confirmed that arc chutes injection molded in thermoplastics such as halogen-free UL94 V-0 flame retardant types of DSM’s Stanyl® polyamide 46 could easily withstand the thermo-mechanical and electrical stresses developed during short-circuit in MCCBs with breaking capacities up to 25 kA. But the same concept could potentially be used in MCCBs with much higher breaking capacities. In addition, polyamide 46 provides increased safety margins over thermosts, even in parts with far lower wall thicknesses.
Netstal wins PETplanet award in the category “preform + cap machine builder”

Renzo Davatz, Vice President Service together with Alexander Büchler publisher of PETplanet Insider at the handover of the award

(Solvay Specialty Polymers has unveiled an enhanced version of its Lavanta® High-Performance Polyester (HPP) for production of light-emitting diodes (LEDs) for televisions and backlight unit (BLU) applications. The second-generation product – Lavanta® 5115 WH 224 – provides significantly improved processability while maintaining its high heat and light stability.

“This second-generation material is an important achievement because it exceeds the processing requirements of the LED industry, enabling molders to maximize productivity and achieve greater efficiencies,” said Glenn Cupta, global business development manager for electrical/electron-ics for Solvay Specialty Polymers. “The enhanced processability is achieved without sacrificing the excellent initial whiteness and

and volume discount on after-market products”.

Excellent service performance Investments in machines are made on the basis of a wide variety of deciding factors. When it comes to selecting a service partner, criteria such as the type of relationship a company has with the supplier, the operational reliability of systems and lines as well as the performance of the supplier with regard to service are becoming increasingly important. “I’m excited for the entire Netstal service team that we received the highest marks in these important categories,” said Renzo Davatz, Netstal’s Vice President Global Service. “We will rigorously continue our strategy of offering our customers innovative services and real added value.”

Comprehensive services in four phases With its high-quality, quick and precise injection molding machines, Netstal has earned global recognition as a premium manufacturer. “In order to ensure the long and successful service life of Netstal machines and maximize production efficiency, more comprehensive customer support over a machine’s lifetime is increasingly becoming the focus of a long-term partnership. With this in mind, we have refined our service range to our customers’ benefit.” Davatz explained. With Service & Solutions, the services offered by Netstal have been restructured and optimized in terms of content based on the four service life phases start-up, utilization, optimization and end phase. As a result, customers can always take advantage of added value.

Optimized service packages tailored to individual needs In order to best serve current customer requirements, the Netstal service experts have put together attractive service packages. “With this solution-oriented and individually tailored approach, customers are able to increase the availability and the efficiency of their machines while reducing costs. By boosting their production efficiency, they are protecting their investment and a long-term partnership with additional benefits is created,” Davatz emphasized. With Service & Solutions, customers benefit from a comprehensive service network with competent experts and professional advice. The Netstal service experts have access to the most state-of-the-art technical infrastructure and are available to their customers around the globe to provide direct assistance.

Solvay Unveils Second-Generation High-Performance Polyester Compound for LED TV Applications

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The second-generation Lavanta® HPP also boasts strong mechanical properties including tensile strength of 78 MPa (11,312 psi) and elongation of 1.6%. This mechanical performance allows for easy ejection from the tool and improved yields during assembly.

The material is commercially available and being used by key molders in Taiwan and China for television and backlight applications. Solvay plans to expand the Lavanta® HPP product series with an enhanced version with even greater whiteness and whiteness retention while maintaining the excellent processing capabilities.

Lavanta® HPPs are an extension of Solvay’s high-performance polyester line which includes materials like Xydar® liquid crystal polymer (LCP) for electronic components such as connectors.

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区域新闻

中国

拜耳材料科技荣获2014年中国“蓝盾杯”安全防伪技术奖

拜耳材料科技荣获2014年中国“蓝盾杯”安全防伪技术奖，该奖项由中国防伪技术协会授予拜耳材料科技，以表彰其作为外资企业在中国ID防伪证卡市场所作出的杰出贡献。拜耳材料科技一直致力于以基于聚碳酸酯薄膜尖端科技的创新方案，与中国本土合作伙伴携手共进，为中国ID防伪证卡市场提供附加值，其产品模克福®ID系列凭借优异的化学及物理性能成为ID证卡生产的理想材料。拜耳材料科技的模克福®ID系列已被广泛应用于超过45个国家，成功应用于欧盟驾照、瑞士ID等。在中国，拜耳材料科技与行业合作伙伴及当地政府积极合作，优化工艺流程、提升技术水平，用最新的聚碳酸酯特殊薄膜技术生产先进的ID防伪证卡和文档。基于20余年丰富的行业应用经验和对中国市场的深入了解，拜耳材料科技与本土合作伙伴共发展，实现多个成功案例。

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凭借强大的技术支持亚洲市场发展

拜耳材料科技通过全球布局的技术支持中心，为全球客户提供定制方案、提供聚碳酸酯薄膜技术支持。近日，拜耳在中国建立了首个特殊薄膜技术支持中心，于上海的拜耳聚合物科研开发中心揭幕。

“在中国新建立的技术支持中心进一步加强了我们在亚洲的技术实力，是我们在中国市场发展的重要里程碑。根据中国特定的市场发展状况和行业技术现状，我们专注于开发适用于本土市场需求的创新型聚碳酸酯薄膜解决方案，并不断推动产品的升级。”拜耳材料科技特殊薄膜大中华区总监水云女士介绍道，“我们将继续加强与合作伙伴的协同合作，以贴合市场需求的方案助力中国ID防伪证卡市场的行业升级。”
Industry Updates

APN reports on the latest appointments in the plastics industry

**Bayer-Tongji Eco-Construction & Material Academy New Dean Appointed**

Dr. Christian Haessler Head of Innovation, BMS APAC

The 4th Steering Committee Meeting of Bayer-Tongji Eco-Construction & Material Academy has successfully been held at Tongji University recently. In the Steering Committee meeting, Dr. Christian Haessler was appointed as the new Dean of the Academy. Being Head of Innovation, BMS APAC, Dr. Haessler is pleased to take up this role and contribute to the future success of the Academy. He pointed out that BMS puts a lot of emphasis on innovation. "It is important to do innovation projects closer to the China market with partners. Ideally the Academy is already a platform for Open Innovation. With the support of Bayer Chair Professor, Prof. Miao, who is an academic authority in China, we look forward to developing new solutions and achieving breakthroughs in construction areas."

**Plastics Color Fills New Position of Corporate Quality Systems and Regulatory Affairs Manager**

Plastics Color Corp has announced the appointment of Jennifer Presnell as Corporate Quality Systems and Regulatory Affairs Manager. This new position allows Plastics Color the opportunity to have dedicated corporate oversight of quality systems.

Presnell started with Plastics Color in 1997 as a Quality Control Technician and advanced within the organization to managerial roles including Quality Control Supervisor and Corporate Lab Manager. She has managed the regulatory department, color development lab, and ISO throughout her career at Plastics Color.

"This is exciting because I will continue to maintain our regulatory compliance status but also manage the quality process of our company," said Presnell. "Instead of being involved in the day-to-day quality control of Plastics Color, I have the opportunity to work closely with department managers to create systems and audit processes from a corporate level."

Timothy Workman, Vice President of Business Development for Plastics Color, said the new position is unique in the plastics industry. "We are dedicated to providing our customers with both excellent product and service; and, investment in this type of dedicated oversight symbolizes that," said Workman. "Jennifer’s professional background lends her to being a great fit."

Presnell will be based at Plastics Color’s Solutions Center in Asheboro, N.C., however, she oversees all Plastics Color facilities and will spend substantial time traveling to streamline all facilities.

**Gilles Mazzolini becomes new General Manager of Sumitomo (SHI) Demag Plastics Machinery (France) S.A.S.**

Gilles Mazzolini, currently Head of Sales at Sumitomo (SHI) Demag France, will take over as General Manager of the Lognes-based French subsidiary of Japanese-German injection moulding company Sumitomo (SHI) Demag with effect from 1 January 2015.

Mazzolini (40) studied polymer engineering and marketing at Metz University and joined the former Demag Ergotech in France as sales engineer in 2008. In 2013, he took over as Head of Sales.

Effective 1 January 2015, Gilles Mazzolini will take over as General Manager of Sumitomo (SHI) Demag Plastics Machinery (France) S.A.S. from Christian Lozé, who will leave the company for his well-deserved retirement.

**Sumitomo (SHI) Demag announced the appointment of Gerd Liebig as Chief Sales Officer (CSO) from April 1st 2015**

Sumitomo (SHI) Demag Plastics Machinery GmbH has announced Gerd Liebig as Managing Director (Chief Sales Officer) in the group. Gerd Liebig, 53, takes over the full responsibility of all worldwide sales, after sales and marketing activities out of the company’s headquarter in Schwab. He is
also leading the worldwide sales subsidiaries and representatives.

Gerd Liebig will join Sumitomo (SHI) Demag from April 1st 2015 with extensive experience in the plastic machinery business. Most recently serving as Group Marketing Director for an injection moulding machine manufacturer in Austria, Gerd Liebig has been engaged for 25 years in the injection moulding machinery business. Before joining the last position he spent 15 years at former Demag Plastics Group - now Sumitomo (SHI) Demag Plastics Machinery GmbH - as Marketing Director and later Chief Strategic Officer.

In the new position Gerd Liebig will work hand in hand with Dr. Tetsuya Okamura (Chief Executive Officer of Sumitomo (SHI) Demag and Senior Vice President of Sumitomo Heavy Industries Ltd. Japan) and Andreas Schramm (Chief Technical Officer) and will thus continue to drive ahead with guiding Sumitomo (SHI) Demag into a future position of global market leadership in the injection moulding business.

“Tim is an accomplished executive with a global organization whose leadership philosophy aligns closely to Barry-Wehmiller’s Truly Human Leadership vision,” said Chapman. “His experience, education and deep commitment to fulfilling work environments that create value for all stakeholders make him an ideal addition to our group of very competent directors. We are honored that someone of his caliber will be sharing his unique perspective and passion with our organization.”

Tim Noonan Named to Barry-Wehmiller’s Board of Directors

Robert H. Chapman, Chairman and CEO, has announced that Tim Noonan has been appointed to Barry-Wehmiller’s Board of Directors. Noonan is Vice President, Ventures, part of Boeing Defense, Space & Security. Ventures works with Boeing entrepreneurs to validate, accelerate and commercialize promising business ideas. He is a member of the Aspen Institute and a former United States Marine Corps officer.

With the optionally available plasticizing system EconPlast, electrical energy requirement is clearly reduced.*

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* up to 50 % compared to previous plasticizing systems

与原系统相比，最高节电50%
Clariant unveils ColorForward® 2016

Clariant marks 10th anniversary colour forecasting guide for the plastics industry. Trend analysis and color-design tool continues to surprise and inspire. 2016 guide focuses on looking for the unknown, instead of repeating what we know.

ColorForward 2016 features the following trend themes:

- **Liquid Minds**
  We have reached a breaking point where new thinking is needed. Stop looking to the past for inspiration. Nostalgia is over. Bureaucratic over analysis does nothing but stifle fresh thinking. Now is the time to drain away your preconceived notions and limitations, and to train your intuition, is the time to unlearn and take risks, to walk away from linearity and start again from basic elements.

- **Oh, my go(l)d!**
  Watch me now!

This is an exhibitionist era, where, to some, fame matters as much as money. Super-rich millennials, jaded by possessions, are moving from owning to experiencing a luxury. While they may have a very avant-garde taste, they certainly create their own style. Outlandish gaudy baubles and outrageous behavior is in... all this for the unique pleasure of being admired.

- **Love**
  Technology and human existence have become one. For many, technology and its ways of connecting to us are perceived as a vital organ we can’t live without. Contemporary technology complements and amplifies our senses, enabling us to feel what cannot be spoken or observed. Immersed in the cloud, wireless connected sensors can track our personal health and the wellbeing of others: we can access medical information, monitor vital signs and carry out a wide range of tasks. Reliability on this type of technology has elevated it to the status of an invisible caring family member, whose comforting presence we’re aware of even though we can’t see them.

- **Work It Girl**
  The term feminist continues its evolution. We see the rise of a new generation of women — one who doesn’t prescribe to the known forms of feminism. She is more chillaxed, and is comfortable with her own natural self; hence has nothing to prove to the world. In short, the modern day version of feminism refuses labels.

Matthias Brommer, Global Head of Marketing, Clariant Business Unit Masterbatches, comments: “Through my involvement with ColorForward I have really come to appreciate how color moves people, informs their view of the world around them, and can even influence their purchasing decisions. The fact that ColorForward has been around for 10 years, and continues to attract more and more interest over time, reaffirms our belief that we have created something useful for the marketing and designer community. Therefore, we are very happy to be celebrating the 10th anniversary on March 11th in Frankfurt/Main.”
Carolina Color’s G2 product line reduces overall cost for outdoor durable products

Carolina Color’s G2 product line reduces overall cost for outdoor durable products with lower let down ratios, higher loadings of additives and lower production costs due to ease of use when compared to other colorant options.

Carolina Color patented G2

The outdoor plastics product business has grown dramatically in the past decade due to improved materials, processing and the ability to mold in color. With such growth, the market has become very competitive and thus molders are constantly on the look out for ways to reduce costs while delivering products that are both esthetically pleasing and meet performance expectations.

Many molders have found that using highly-loaded colorant, be it in solid pellet or liquid form, can reduce cost. The fundamental idea is to add smaller quantities of more concentrated colorant to virgin resin in order to achieve the same end result as opposed to using larger amounts of conventional colorant. There are numerous benefits to doing so, not the least of which can be improved physical properties.

In 2008, Carolina Color patented a new product that has revolutionized the colorant industry. The G2 product line is able to load pigments and additives to levels never considered, let alone achieved in a commercial product. The idea of highly-loaded “super concentrate” has circulated in the industry for some time, but had fallen short of performance expectations on many levels. Not only has G2 brought new cost-saving possibilities when using concentrated color, but the pellets are also exceptionally well-dispersed and effectively distribute in both large and small parts. The following examples outline various ways in which outdoor product manufacturers have been able to benefit from G2.

In 2013, the lawn, garden and agricultural packaging demand reached $1.7 billion in the U.S alone. Plastic lawn chairs are one of the most popular outdoor consumer products in this growing market due to their convenience, ease of use, light weight and ability to outlast wood in harsh environments. With such popularity and wide-spread use, many manufacturers are producing similar products. The only way to succeed in such a competitive marketplace is to reduce production costs, which has led manufacturers to make the switch to G2.

With G2, lawn chair manufacturers have been able to reduce let down ratios in some cases from 4% to 1%, while still adding sufficient UV/AO stabilizers to make a product that lasts and keeps consumers happy. Using traditional colorant options in high-volume manufacturing environments can add cost due to additional material handling requirements, and in the case of liquid color, increased housekeeping challenges. Other hidden costs associated with liquid color are the unpredictable nature of hose kit & pump replacement.

Roll out carts are a big business, especially considering that most households in the United States have at least two. At almost $60 per unit, the ROC market is worth hundreds of millions annually and justifiably requires significant investment by molders. For instance, a single cart mold can cost $500,000. As well, manufacturers offer a
The 2015 automotive conference will feature some of the latest technology and application developments in plastics that have a great impact on the automotive industry. The theme of this conference will focus on Lightweighting and Sustainability. The presentation is to provide South East Asian Automotive industry updates on the global innovation advancements in plastics materials, design and processing.

**Topics to be discuss for the 2 days conference include:**

**Section 1**
- Thailand as an Automotive Hub
- Quality Tiering in Emerging Economics: understanding strategies for success
- TPEs in automotive, interiors, light weighting, sustainable and bio technologies.  
  — Roger Young, Robert Eller

**Section 2**

**Interiors**
- Global trends in materials and process for interior applications
- Improve product differentiation through innovative designs/materials
  - Creating increased interior luxury options
    - TPEs: - making the interior more luxurious
    - Impact of Bio fillers
    - Soft touch
    - Technical solutions

**Section 3**

**Body & Exteriors**
- Bumpers to body panels – reduce body and exterior weight without compromising safety performances
- Extending exterior applications beyond bumpers
  - Auto glazing
  - Seals
  - Long glass fiber composites for tail gates, structural components.
- Role of sustainable solutions: bio degradability, non-petro-chemical based feedstocks, bio based fillers.
- Light weighting trends in Automotive  
  — Krithika Tyagarajan, Frost & Sullivan

**Section 4**

**Fuel & Fuel systems**
High Barrier Evaporative Emissions Solutions to Meet World Requirements
- Introduction of Gas barrier resin "EVOH, EVALTM" for Plastic Fuel Tank
- Evaporative emission regulations in the world
- Solutions to meet future regulations  
  — Masahiro Kitamura, Kuraray Asia Pacific

**Who should attend?**
- Automotive manufacturers and designers
- Tier One and tier two suppliers
- Plastics moulder
- Materials providers and compounders
- Plastics processors and manufacturers
- Machinery suppliers
- Consultants and industry researchers
- Media related to the automotive or plastics arena

For sponsorship opportunities, presentation or to attend, please contact:

**Annie Chan**
Tel: 65-6222 2933
Mobile: 65-9746 4909
Email: annie@apn.com.sg
10-year warranty to consumers and cities that purchase carts for waste disposal programs, so they need to be able to add adequate UV/AO stabilizer while controlling cost.

Carolina Color’s G2 has helped roll out cart molders reduce cost through let down reductions from 3% to 1%, while still delivering enough UV/AO to support a 10-year warranty. And since G2 comes in solid pellet form, molders can bypass a large amount of cost creep found with liquid color in the form of replacing hose kits & pumps, added housekeeping and other costs related to consolidation and agitation. Using highly-loaded G2 is also a space-saver given lower inventory requirements and thus fewer drums or gaylords.

Most Port-A-Potty customers are largely concerned with the bottom line price point, so manufacturers must be extremely cost conscious and look for ways to reduce production costs. In thermoforming for instance, manufacturers must focus on the sag ratios across their entire product line in order to ensure that parts will remain strong and will not become damaged due to UV degradation or other external thermal sources. While this can usually cause an increase in cost during manufacturing, G2 can achieve better sag ratios than traditional color concentrate, without increasing cost.

Port-A-Potty manufacturers that thermoform have been able to reduce production cost by switching to G2 for a number of additional reasons, including G2 allows panels to lay down better, enabling the molder to produce parts quicker and of higher quality.

With G2, thermoformers have been able to produce more consistent parts and hold color tolerances throughout runs which reduces scrap and saves them money.

Carolina Color’s G2 product line has proven performance in diverse applications, including outdoor durables, packaging, industrial, non-automotive transportation, and much more. Convertors continue to be impressed by this game-changing technology. Whether it is injection, extrusion or blow molding, G2 continues to hit the mark.

Carolina Color Corporation – a successful, family-owned company since 1967 – serves colorant needs from ISO 9001:2008 certified locations in North Carolina and Ohio. For more information about G2 visit: www.carolinacolor.com

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## Editorial Programme 2015
(Highlights of the next 3 issues)

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The APN Plastics in Automotive 2015 conference will feature some of the latest technology and application developments in plastics that have a great impact on the automotive industry. The theme of this conference will focus on Lightweighting and Sustainability. The presentation is to provide South East Asian Automotive industry updates on the global innovation advancements in plastics materials, design and processing.

**DELEGATE FEE**
- 1 day conference – US$180.00
- 2 days conference – US$300.00
Group discounts available (Minimum 4 persons @ 20% discount)

**DIETARY REQUIREMENTS** (Please tick ✓)
- [ ] Non-vegetarian
- [ ] Vegetarian

**PAYMENT DETAILS**
Delegates should note that payment must be made upon confirmation of attendance.

Payment to be telegraphic transfer to:
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**TERMS & CONDITIONS**
- **DATA PROTECTION**
  By entering your details in the field above, you agreed to allow Asian Plastics News and companies associated with the event to contact you (by mail, email of fax) regarding their services. If you do not wish to receive such communications, please contact us in writing.
- **BOOKING CONDITIONS**
  A confirmation email will be sent to you on receipt of your booking. Please note that an invoice will be email to you as well. Payment must be made upon receipt of the invoice.
- **CANCELLATION / SUBSTITUTIONS**
  Cancellations made before July 1, 2015 will be charged at 10% discount of the invoice total. Cancellations made between this date and July 15, 2015 will be charge at 50% of the invoice total. Cancellations made after July 15, 2015 will be charge at full invoice total. However you can send a substitute delegate at any time. Cancellations and substitutions must be made in writing by July 15, 2015.
- **CONFERENCE LANGUAGE :** English

PLEASE NOTE:
The conference fee covers entrance to all sessions, conference proceedings, tea breaks and lunch.
Renewable platform chemical promising for bioplastics packaging market

With petro-based materials becoming an increasingly risky investment, bio-based platform chemical 5-HMF, now produced industrially, offers a sustainable alternative for the plastics packaging market.

**Booming Bioplastics**

At the recent 9th European Bioplastics Conference in Brussels, it was announced that the bioplastics market is set to grow exponentially – 400% by 2018. Data from European Bioplastics, the Institute for Bioplastics and Biocomposites and the nova-Institute shows that production capacity was 1.6 million tonnes in 2013 and is set to rise to 6.7 million tonnes by 2018.

Other recent research focusing on the bioplastics packaging market showed similar, rapid growth. Persistence Market Research’s “Global Market Study on Bioplastics Packaging for Food and Beverages: Beverages Packaging to Witness Highest Growth by 2020” found that the market is currently worth US$4,352.5 million and is expected to rise to US$28,503.6 million by 2020 – a compound annual growth rate of 36.8%. The bioplastics share of the packaging market is also set to increase twelve-fold in the next decade, from 0.2% in 2013 to 2.4% in 2023 - and there is plenty of room for an even bigger expansion.

With policymakers, brand owners and consumers increasingly worried about sustainability issues, this is another benefit of bioplastics over conventional plastics. However, green credentials alone will not help boost the bioplastics packaging market. Improved or new product characteristics are key to compete with petro-based materials. Industrial production of bioplastics-related components has also been a challenge. However, one promising platform chemical, 5-hydroxymethylfurfural (5-HMF), is now being produced commercially by Swiss company AVA Biochem. A basis for 20 performance polymers and over 175 downstream chemical applications, the versatile molecule could help boost the bioplastics packaging and bottling markets. Thanks to a hydrothermal process developed by the company 5-HMF will be available at bulk prices in the near future.

**Industrial Biotechnology Innovation**

Commercial 5-HMF production is now a reality due to AVA Biochem’s innovative production process. Initially developed by parent company AVA-CO2 to convert biomass into biocatal, the modified hydrothermal process offers an automated, efficient and highly-scalable method to produce...
5-HMF

Previously, 5-HMF production used to be cumbersome. The new process allows for better yields and higher purities of 5-HMF while allowing the conversion process to run continuously.

Oxidising and reducing the chemical can produce a range of different chemicals – some of which have key plastics packaging applications.

The Route to PEF

5-HMF oxidation produces 2,5 furandicarboxylic acid (FDCA), which is a basis for polyethylene furanoate (PEF). FDCA can also be produced by fermentation, the preferred approach, as purer FDCA can be produced thanks to specialised bacteria which help synthesise 5-HMF. Previously impossible to produce in bulk, FDCA should soon be available at competitive prices thanks to industrial 5-HMF production.

This is good news for the bioplastics packaging market, as FDCA is a basis for a number of biopolymers which can replace terephthalic acid in polyester. For example, FDCA can be used to produce polyethylene furanoate (PEF) which could replace polyethylene terephthalate (PET).

There are different types of PEF which vary in purity and molecular weight (due to short or long polymer chains). These differences are due to the synthesis process, not the 5-HMF itself. With better gas barriers for oxygen and carbon dioxide than PET, PEF could be used in other applications beyond traditional PET packaging. Using PEF for carbonated or natural drinks such as beer or tea is a bonus for drinks manufacturers, which are increasingly tuning to bioplastics. Another benefit is PEF’s higher tensile strength, which allows for reduced wall thickness and would therefore decrease PEF’s production and transportation costs in the future.

With increased sustainability credentials and superior product characteristics, there is a real opportunity for PEF to become an important player in the market. Petro-based ethylene may be the largest bulk chemical (in volume), used to create half of all plastics, but the increasing risks of investing in fossil fuels will only intensify. Thanks to AVA Biochem’s new production process, based on hydrothermal technology and subsequent large-scale industrial 5-HMF production, the route to 100% bio-based packaging is not such a distant reality.

Bioplastics Packaging in Asia

The bioplastics packaging market may be growing globally, but what does the future hold for Asia?

Recent studies point to the fact that Asia is set to become an even more prominent bioplastics manufacturing hub. 51% of bioplastics were produced in Asia in 2015.
Packaging

2013 and this is set to rise to 75% in 2018. With easier availability of feedstock, it is unsurprising that growth is rapidly occurring. It helps that Southeast Asia has seen a number of supportive policy measures to help grow this industry. PEF still has a real potential to become a crucial polymer for this steadily growing Asian industry.

China is expected to become the biggest bioplastic producer and converter within the next five years. However, demand for bioplastics remains mostly in Europe and North America, who make up 76% of demand.

As China is also the global leader of plastics consumption, it is in a good position to start using more sustainable bioplastics. However, there is a need for further political incentives on bioplastics packaging for companies to be able play a key Chinese role in the future. However, some signs are positive – the Jilin province recently banned traditional plastic bags, something which bioplastics manufacturers JinHui Group think will lead to 20,000 tonnes of market demand for bioplastic products. Although similar bioplastics policies are in place in other Chinese regions, so far progress has not been as fast as it could be. If the central Chinese government also decides to lead on this issue, the bioplastics and bioplastics packaging industry in China will receive a huge boost. With the continuous, rapid growth of the bioplastics market worldwide, this policy shift could occur in the not-too-distant future.

A Stronger Global Bioeconomy

Industrial 5-HMF production is a step towards a bigger bioplastics packaging market and a stronger bioeconomy in general. The bioplastics industry may be growing worldwide, but industry must also make sure it delivers quality products and listens to consumer needs.

Alongside political incentives, it is also crucial for feedstock to be efficiently co-located with production plants in order to compete with petro-based alternatives. With these improvements, the bioplastics industry will certainly continue to grow rapidly and, ultimately, society will become less dependent on fossil fuels.

Contributor: Thomas M. Kläusli, Chief Marketing Officer, AVA Biochem, Muttenz, Switzerland

Asian Plastics News (APN) is a business to business, bi-monthly print media for the plastics industry in the Asia Pacific region. The bi-lingual magazine (English and simplified Chinese) has readers from Greater China, India and Southeast Asia. The APN editorial team delivers constantly polymer news and features for processors and original equipment manufacturers.

APN actively participates in key plastics trade shows in Asia Pacific and the K fair held once every three years in Germany. The APN team also actively organizes conferences, where past events include APN Technology & Business conference, APN Plastics in Automotive Applications & Technology conference. Since 2008, the team holds APN Plastics in Packaging conference yearly. APN will continue to organise conferences, seminars and plastics-related events for the business community.

If you want your products to be feature or any new developments/products that you like to announce, please do forward us your press releases or articles.

For any information and enquiries on our events and editorial programme, please contact:

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Asian Plastics News
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Fax: 65-6222 2551
Email: annie@apn.com.sg
SAVING FOOD & RESOURCES WITH TECHNOLOGY

WHY VIETNAM?

- Processing and Manufacturing Sector grew 7.4% for the first 4 months of 2014 and anticipate the trend will continue through to 2015...
- Vietnam is one of the fastest growing pharmaceutical markets in Asia with a market was worth almost $3 billion which is expected to grow at a rate of more than 20% through 2017...
- Vietnam has seen a large increase in beer production over the past decade, and among the 25 biggest beer producers worldwide...
- Vietnam, a hub for processed food exports has an industry that is growing at an annual rate of 20%...

WHY PROPAK VIETNAM 2015?

ProPak Vietnam 2015, now in its 10th successful edition, is the leading international trade event for Vietnam’s expanding food, drink and pharmaceutical industries. ProPak Vietnam 2015 is supported by leading industry associations, whose special events include conferences and seminars which add value to the event and attract trade buyers. ProPak Vietnam 2015 - a must-attend event.

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IPF Japan, a recovery of confidence in the plastics market

IPF Japan 2014, which was held from Oct.28-Nov.1 at Makuhari Messe signified a recovery of confidence in Japan economy, which attracted 39,276 visitors around the world. The 7 exhibition halls were fully occupied by 776 exhibitors from ten sectors including high performance raw materials, additives & fillers, plastic molding machines & systems, mold design & manufacturing, recycling equipment to name a few.

As Asian Plastics News (APN) speaks to the exhibitors, most of the interviewees responded that Electronic Vehicle industry will be one of the major driving forces for plastics industry, especially Japan. Considering the dominating position of Japanese automotive industry, they are paying more attention to establish long-term business cooperation with Japanese companies, which may help them improve their manufacturing standards, and expand their market share through these Japanese companies’ global networks.

Haitian International – Cooperate with Worldwide Japanese customers

Haitian highlighted two major brands “Haitian” and “Zhafir” in its more than 300 M2 exhibition space. “Haitian Plastics Machinery” showed its bestseller – the servo drive Mars second generation and the two-platen solution Jupiter second generation; while “Zhafir Plastics Machinery” exhibited its popular fully electrical Venus second generation, and a Zeres, an electric solution with hydraulic integration. The reliable performance, best cost and performance ratio has made Haitian well recognized among customers, while Zhafir’s comprehensive solution offered through fully electric machines, featuring highly precise, highly efficient and highly energy saving characteristics.

According to Mr Sun Zong Qi of Nomura Trading (Shanghai) Co., Ltd. Industry sec., today, Haitian enjoys the No. 1 position with 30% global market share in injection molding machine sector, for the large sized models, its market share is as high as 70%, and has been the best choice for customers in China. However, the company is ready to expand its market in high-end markets, especially for overseas Japanese companies. Since 2011 with more than 20 years experience of cooperation and trust, Haitian joint hands with Nomura Trading Co., Ltd. to provide products and services that match the needs of worldwide Japanese users. The two companies started their cooperation in 1990s when Nomura acted as agent for Haitian to import machine tools, and later lubrication systems for its injection machine.

As an international leading trading company, Nomura has well established world-wide sales network, with offices in Indonesia, Vietnam, Thailand, Germany, and South America, which fit Haitian’s expansion ambitions well. With the help of Nomura, Haitian successfully established cooperation with leading companies like Hitachi, Panasonic, Ha Toy, Seiko Takada who have been using machines.

For Haitian, it’s scaled production ena-
bled it to provide the best and fastest services with competitive prices, its broadest inject molding machine portfolio always enable customers to get what they need in inventory, be it high-end, middle or low-end. Should customers have any problem arises in their production, a call to Haitian service person informing them of the problems and the machine code, Haitian will respond immediately and deliver the spare parts from its inventory, without the bureaucratic low efficient reporting system and days of waiting.

According to Mr. Sun, the servo drive MA2(Mars second generation) is one of the key model from Haitian, which saves up to 60% energy compared to traditional hydraulic models. For a 1000-tons injection machine, the savings may be translated into RMB2 million electricity bill for Japanese customers that use traditional hydraulic machine. The compact two-platen solution Jupiter second generation could save 1/4-1/3 floor space, with big platen space that designed for the injection of, for example, light weight and large mold automotive parts. Haitian also offers trade-in services, which could help saves customers investment while offering them a new competitive edges.

The ZE electric solution with hydraulic integration series is tailored for European, it not only offer better prices, but also with high performance, and the all electric VE-2 under Zhafr would be one of the key models that designed for Japanese users. Currently, about 90% of injection machines in Japan are electric solution based. As the market put more emphasis on energy saving, Haitian will offer them better initial price and operation cost advantages, with outstanding energy saving, maintenance/repair. In the near future, Haitian will put into operation another two plants, one will be used to manufacture VE series with an aim to expand its annual capacity to 8000 units from current 1800 units, the other new plant will mainly be use as JU series manufacturing base.

### Yushin Precision Equipment Co., Ltd-Demand for High Productivity and High Efficiency Injection-Molding Machine in-process Take-Out Robots are growing

Yushin Precision Equipment focuses on developing fast speed take-out robots to provide customers with high productivity and high efficiency. The company has proved its strategy to be successful when looking at the machinery manufacturers in the exhibition halls of IPF Japan 2014, as many of them have been incorporated with the take-out robot from Yushin.

According to Mr. Yasuharu Ohdachi, Dr. Eng., the company highlighted series of take-out robots at the IPF Japan event, including but not limited to the light-weighting and nimble YC Take-Out Robot, which consumes 26% less electricly than previous version, and reduces up to 72% of settling time as a result of design optimization, CFRP and anti-vibration controls; the longitudinally-mounted YC II-CT Take-Out Robot offers space saving features as it releases product at the clamp end of the molding machine; the lower overall cost, lightweight and large mold automotive parts.

The RC II-DW is equipped with 2 units (take-out and handling), with one DW robot performs the work of 2 standard robots, and one controller offers total control of both units; the world-class high-speed HAS Take-Out Robot offers amazing live-molding take-out times of only 0.27 second and a 13% reduction in weight.

As Mr Ohdachi said, the company currently shares 30% of the market in the line of business. Generally speaking, there are more than 200 brands of take-out robots competing in China market, among them, about 20 from Europe, 4 from Japan, the remaining are local brands. Compared with other competitors, Yushin provides super high speed take-out robots with high performance and wider coverage of after-services around the world, to suit the ever growing needs of customers. In the future, Yushin aims to cover emerging market like Brazil, Middle East and Africa to achieve further growing.

### Stäubli KK – You can know the magnetic clamping force while clamping the mold

Stäubli offers a wide range of standard quick couplings as well as highly specialized connectors for all types of circuits and applications for all industries. According to Mr Kazuya KAMO, Manager, Connectors Dept., Stäubli KK, the clamping system that the company exhibits at IPF Japan 2014 could clamp molds in seconds, by adapting to all configurations quickly on existing or new machines that with horizontal or vertical loading quick clamping system. The unique magnetic clamping system is the new product that the company introduced to the market this year.

With this technology, customers can experience the clamping force when the mold is clamped, while none of the competitor can offer this feature at the moment. The advantage is, if you know the force, you can prevent the mold to be damage should the clamping force gets weak, customers therefore can improve the processing safety accordingly.

In addition, the working temperature for the clamping system could be up to 300°C, making it the best choice for automotive industry, die casting industry, and other industries that demands high temperature clamping.

The fully automated multi-coupling system from Stäubli for fluid and energy circuit not only delivers high performance and long-term reliability advantages, but also a very clean and safe environment. The non-spill coupling eliminates the problem of spill oil, water or other fluid, which often occurs with other coupling technologies, which have been widely used since leaked.

Sun Zong Qi from Nomura Trading (Shanghai) Co., Ltd. Industry sec

Yasuharu Ohdachi, Dr. Eng., Yushin Precision Equipment Co., Ltd.

Kazuya KAMO, Manager, Connectors Dept., Stäubli KK
its launching in the automotive industry, including tier 1 and tier 2, and sometimes for electronics and electrics.

In terms of coupling system, Stäubli’s strengthen lies mainly in the multi-coupling technology, the company can offer 12 position coupling system or to custom products as required. The company also expects to see growth at about 20%.

**Autodesk – Connecting plastics industry to cloud computing and beyond**

2014 has been a very good year for AutoDesk, currently enjoying about 80% market share worldwide in the business it involves.

Mr Tadaaki Hamada, Sales Executive from Simulation Sales Dept of Manufacturing Division, Autodesk said, “automotive industry is also the key targeted market of Autodesk Ltd. in Japan, as the industry is facing challenges in downsizing, energy saving, emission cutting, therefore, while plastics are finding more and more opportunities in automotive, simulation technology from Autodesk offers customers innovative approaches to reduce down time, cost reduction and, more precisely manufactured parts. That’s why most of the big automotive brands including Toyota, Honda, Hyundai and other major players from industries like electronics and electrics or consumer markets like Canon, Hitachi, LG, Samsung are partnering with Autodesk on its Simulation Moldflow®.”

According to Mr Hamada, customers can choose to purchase the Moldflow® directly or rent it for one year, this gives customers one year of trial to decide if they want to buy the software. In addition, Autodesk is the first to launch the cloud system in the market, customers therefore have access to Autodesk cloud services for creating, editing, analyzing, and sharing work through a software-as-a-service (SaaS) subscription model.

Having been in the market for more than 30 years, Moldflow® is able to offer the best advices to customers with its 9000-material database that have accumulated in the past through its application experience in the broadest industries, customers can pick up the right materials for its formulations or product development in a minimized time slot, and to help them design and keep the performance of the materials at the highest standard.

In 2014, Autodesk acquired Nastran, a very famous software company in finite element analysis (FEA) area. With the incorporation of Nastran, Moldflow can provide characteristic analysis of the plastics. For example, three years ago, if the cell phone dropped on the floor, it will break easily, but with the help of Nastran, manufacturers could analyze the material performance and provide the best formula and avoid the shortages beforehand.

**Yen Sheng Machinery Co Ltd – With adjusted market focus**

One of the key competitiveness of YEN SHENG MACHINERY is their design of extrusion systems with more than 40 years experience in the business. Its machinery could adapt to different materials and applications by continuous advancement. Years of doing business with Japanese and European markets at the same time helped the company to improve its standard on manufacturing, servicing high quality products. Customers will benefit from low initial purchase price, short payback period, and reduced energy consumption with integrated solutions of mold design and mold making.

Currently, Japan only accounts 5 - 10% of YEN SHENG global sales. The company wants to expand its presence here with expected 5% increase annually. According to Manager Jason Chen, traditionally, YENSHEI has been focusing on ASEAN market, however, as manufacturers from Mainland China are very active with market share rising in ASEAN plastics machinery market, plus competitors from Europe, Japan, Korea, Taiwan, and India competing, the intensive competition continuously squeeze their margin, so they need to pay more attention in Japan market where they should be competitive. As the key components and manufacturing technologies are imported from Japan, but their machinery’s cost would be much lower, Mr Chen suggested that manufacturers from Taiwan and Japan join hands together, which will make both sides more competitive in global extrusion market.

Mexico and Russia are also the target markets that YEN SHENG will expand into, which would contribute to the company’s future business growth.

**CHENG YIEU – Compounding for innovative future**

CHENG YIEU focuses on developing innovative compounding materials for European, Japan and Taiwan market, especially for those need specialty materials. The latest product the company introduced at IPF Japan 2014 is its Co-rotating Twin Screw Extruder, which boasted to be one of the most powerful and compact machines that designed for small batch and laboratory applications. Equipped with four feeders and full functions, the fully automatic extruder will compound efficiently with up to four different materials with just one push button. According to Mr Bill Hsu, the Vice-General Manager, CHENG YIEU DEVELOPMENT MACHINERY CO., LTD., all the key components for the co-rotating twin screw extruder are from top class European and
Japanese suppliers, but the price is only about 50-60% of the machines from European and Japanese competitors.

One of the highlighted composite materials manufactured by the machine consists of 92% metal and 8% resin. The material is prepared for the manufacturing of high end mobile phone components. Other examples including composites for plastics lines and conductive materials with carbon black prepared for 3D printing which is growing rapidly. Mr Hsu said, “composites market is a very diversified market, as the future market needs more innovative materials and high precision, reliable machines, to meet the demand of challenging designs and applications, such as laser sintering, 3D printing, therefore, CHENG YIEU will invest on innovating more new materials with high quality and performance to meet the newly emerged applications”.

Mitsubishi Engineering Plastics Corp – Hybrid injection molding technologies meet challenging demands

KAZUNOBU MARUO, Manager (Marketing), Marketing & Sales Dept., Business Division III, Mitsubishi Engineering Plastics Corp. offers 5 series of engineering plastics, including PC, PBT, POM, modified PPE, and special modified polyamide Reny®.

Reny® is a proprietary molding compound reinforced with glass fiber, carbon fiber or special minerals based mainly on special polyamide MXD6 that characterizes with high modulus, high strength, low moisture absorption, and stable dimensions.

Being highlighted at IPF Japan 2014, Mr MARUO said, “the major targeted markets of Reny® are replacement for automotive metal parts, electronics, and also for machinery and the construction industries. Specialty for electric vehicles, which is expecting to grow rapidly worldwide, offers great potential for engineering plastics like Reny® to help reduce weight while at the same time provides excellent performance. The company offers many grades of Reny® for injection molding, to achieve improved mechanical anti-vibration properties, etc...

Mitsubishi Engineering Plastics operates many sales offices in Asia. “Normally, we go where automotive manufacturers go. For example, Toyota invests in Vietnam, so we are there. It’s relatively easy to cooperate with Japanese companies, as we provide the same level of standards; we all prefer properties than price.

In Mr MARUO’s view, the major challenges for plastics industry is the innovation of molding technology, which is the base for processing improved products for demanding applications. Therefore, the company introduced hybrid molding machine-hot press-injection-molding technology, which could press and injection components almost at the same time. Besides, we offers customers a way to making plating directly on plastics, which could be used in many areas, like antenna, PCB and other electric parts for PC.

UBE MACHINERY (Shanghai) LTD – Injecting sandwich materials to benefit EV manufacturers

The sandwich materials molded by UBE injection machine that composed of rubber (elastomer) on the surface, and foam in the middle of high elastic, and could be applied in door panels, seats. This is the new technology which was introduced recently by UBE, based on multi-stepped molding technology, i.e., after the injection of the red layer is finished, the mold is opened and followed by the filling of the black material, after the second injection, the mold opened again, then followed with foaming process. The purpose of developing such material is to meet the demanding electronic automobiles, as the battery is getting heavier and bigger which may limit the maximum continuous mileage. The incorporation of foaming technology enables up to 30% weight reduction compared with those traditional materials. Currently, the company is ready for commercialization of the machines.

“With fierce competition of the injection machinery industry,” Cao Jia, Vice Sales Manager, Marketing & Sales 2 Dept said, “UBE wants to help customers meet requirements for aesthetics, lightweight and high precision, high reliability, stable and easy to control with the best large sized all electric machines for the industry.”

Compared with hydraulic injection machine, the all electronic technology is energy saving. As an integration solution provider with materials, software and machinery offerings, with UBE interchangeable cavity mould technology, customers can inject two colored parts with same materials or one material with different colors at one time, which means less process, less labor cost, high productivity and less environment impact.

ZAMBELO Group – Automotive industry is the locomotive of Japanese economy

ZAMBELO is an Italian headquartered company specialized in the designing and manufacturing reduction gearboxes of the highest standard from the beginning, and has been extended to service the machinery for plastic materials and extrusion in general in the last decade.

The highlighted machinery at IPF Japan 2014 features of higher torque and therefore more powerful (10% higher) than competing products, in addition to longer service life and higher efficiency.

According to Mr Kevin Lin, Manager of ZAMBELO Group Asian Marketing Office, IPF Japan 2014 is the largest in the last ten years in terms of exhibition space. The number of exhibitors, visitors attracted a high record number of companies from Taiwan. In comparison with Chinaplas, visitors can see more high end products in IPF Japan and K Show.

The Japanese plastics machinery is
famous for its fine processes, but considering its high price, many users prefer to turn to Taiwan brands, many of them are OEMs that provide the same quality products as Japanese manufacturers with less cost.

Today, the Japanese plastics industry is slowing down, because many of the Japanese companies are expanding businesses in overseas markets. They prefer to source equipment and materials globally with the best cost-performance ratio that fit their needs instead of purchasing from Japan. For example, investment from Japan continues to grow in ASEAN countries like Thailand, Vietnam, Indonesia, most of the equipment were purchased from Mainland China and Taiwan.

The machinery manufactured in Taiwan is reputed for its high quality and reliability, long service time as the local manufacturer imported high standard raw materials (steel) from international market.

In the last couple of years, the local plastics market in Taiwan is growing, more and more high quality and high performance machinery are needed, which also provide business opportunities for Taiwan made products.

Today, the Asian plastics market is mainly dominated by four countries and regions like Mainland China, Taiwan, Korea and Japan. Japanese manufacturers invested heavily in Taiwan.

ZAMBELO Group has been growing in Mainland China since 2000, with comparable quality as Japanese competitors but much lower prices. In recent years, Mainland China has grown as one of the key suppliers for Japanese companies. Automotive industry is the locomotive of Japanese economy, which accounts about 30% of global automotive market, and possibly above 70% in ASEAN market. It overseas investment brings the supporting industries to the local market. The business with Japanese partner is quite stable once the cooperation has been established unless big issues such as quality problem occur.

The advantage of cooperating with Japanese customers is, once been selected as their suppliers, the business will be quite stable. Electronics industries in Taiwan and Korea are more competitive than Japan today, with manufacturing facilities located in Mainland China, and design completed in Taiwan and Korea.

Milliken – new plastics additives reshaping packaging industry

Milliken launched its new 4th generation of clarifying agent NX8000 Millad® at IPF Japan for PP products, which expands the use of ultra-clear polypropylene (PP) in thermformed food and beverage packaging as alternative of traditional polyester naphthalate (PEN) and polystyrene (PS).

With the help of NX8000 Millad®, the application of PP resulted in exceptional high-performance, lighter, less expensive, highly recyclable and more environmentally responsible solutions with improved productivity by reducing the processing temperature to 190°C - 210°C compared to previous 240°C - 270°C. The haze degree can be reduced 3 - 5, depends on the thickness of the products.

In addition, with NX8000 Millad®, the PP based food and beverage packaging provides better heat performance that can be heated in microwave ovens directly. According to Mr Vincent Wang, Marketing, Regulatory Supply Chain & MARCOM Manager, Asia Pacific, Milliken Enterprise Management(Shanghai) Co., Ltd, mentioned that previously, the PET is difficult to seal without coating when used as meat container, and break easily at the edge, with replacement of PE with NX8000 Millad® incorporated PP, the meat packaging could be thermal stable, soft and drop resistant without coating.

Beside food containers and household products, the third major application area of NX8000 Millad® is pharmaceutical injection devices, like syringes, and pharmaceutical packaging materials like blisters. With its help, PP materials could achieve the transparency of its competitive materials, or replace the traditional glass products which are easy to break and PC plastics for baby feeding bottles that contain BPA. According to Mr Wang, except for few products that use specialized glass most of the feeding bottles today use PP that contains NX8000 Millad®.

The nucleating agent 20E and 68L for PE could also been incorporated into PP for significant improvement of dimensional stability, shrinkage and warpage with enhanced rigidity and compact resistance.

When used as PE bottle caps, the incorporating of nucleating agent eliminates the necessary of mold replacement when processing the same size caps in different production lines and with different colors as it features good dimensional stability.

These two nucleating agents could be used in auto parts and big components for other applications like cylinders for wash machine.

It is very difficult to make breakthrough in additive industry, however it is a must to innovate so as to keep the industry leading position. Milliken’s long past history focused has been in the plastics additives industry with continuous innovations that contribute to reshaping the packaging industry. Looking back 3-4 years ago, foamed plastics containers were widely used in fast food industry. Today, the thin-wall injection molded food packs with integrated or separate lids are everywhere and still have huge potential. Milliken is one of the leading players in the polyolefin additives industry, especially in clarifying agent and nucleating agent dedicated to innovation. The company is ready to launch breakthrough technologies which may greatly change the packaging industry to celebrate its 150 years anniversary in 2015.

In the future, applications of plastics like PVC that are difficult to be recycled will be limited as the environmental regulations getting harsher. Shale gas revolution, coal chemical industry development in China and material replacement will change the current cost structures. We can expect more economic, safe and easy-to-recycle PP and other polyolefin-based materials coming to the market. Example, the energy consumption of PP and PE in manufacturing is lower and when recycled, their heat value is higher, which means, even when the usable PP and PE products have to be incinerated that could generate much more energy.
Plastindia 2015 All Set To Open Big

Plastindia, the international flagship show of the Indian plastics industry gears up to create new milestones by taking the 9th edition of the mega trade show Plastindia 2015, now to a new and modern venue.

Gandhinagar, the capital of Gujarat, will host Plastindia 2015 from Feb 5-10, 2015 at a well-designed Modern Exhibition Venue with a “State-of-the-Art” at Haldipad Ground, Gandhinagar. The massive and futuristic 125,000 square meter venue will bring under one roof 2000 exhibitors from 40 countries, including the world’s and India’s leading innovators in Plastics. Over 150,000 visitors are expected to congregate at Plastindia 2015.

The Exhibition will cover all the segments of the Plastic Industry viz. Polymer producers, Compounds and Masterbatch suppliers, Additives manufacturers, Processed Plastic Products, Primary Processing Machinery, Down-stream Conversion Equipments, Moulds & Dyes and other Service Providers.

The International partners for Plastindia 2015 are Messe Dusseldorf, AdSale of Hongkong, Platus of Taiwan. The event is supported by Euromap. The Exhibition will have Country Pavilion from U.K., France, Australia, Germany, China, Taiwan etc. The Govt. of India, Ministry of Chemicals & Petrochemicals and State Government of Gujarat are also supporting this event.

The venue holds immense strategic significance with more than 60% of India’s plastics industry being located in the State of Gujarat and the State is a base for some of the biggest players from this sector.

The six-day mega event, Plastindia 2015 will reveal the cutting edge technological developments, equipments and products, will takes further the innovations from the earlier version. It will also host concurrent events to draw the attention of the entire plastics and polymer business fraternity and they are as follows:

9th International Conference
There will be a two-day International Conference on the theme “GATEWAY TO INNOVATIONS. This is particularly relevant in current context as Indian plastics industry is driving towards specialty products and positioning plastics in innovative applications. While the presentations and business sessions would revolve around this theme, this Conference will be an ideal platform to explore the ideas, uncover the solutions and develop the opportunities thus making it the largest and most highly respected event of the industry.

7th Plasticon Awards
‘Plasticon Awards’ to felicitate excellence and innovation in the field of Plastics. Plasticon Awards are the most prestigious awards for the plastics industry, practicing professionals and students.

The 7th Edition of Plasticon Awards will cover the entire spectrum of the Indian Plastics Industry. This year Plasticon Awards will be given across 25 different Award Categories, including three new categories for Indian Participants and have opened up four for International Participants.

The 26th Asia Plastics Forum
The 26th Meeting of Asian Plastics Federation, comprising of twelve Asian countries, will deliberate upon the issues of sustainability of plastics with special reference to plastics waste and its management; latest recycling technology; marine litter management and regeneration of energy from non-recycled plastics waste.

Plastwin
A program initiated along with Wiintech of Europe to facilitate and promote trade relationships, partnerships, alliances between Indian companies and the foreign companies across the world. For all those entrepreneurs, medium and small companies who always aspired to do international business but did not know how to venture, now can be part of PLASTWIN and take their next steps knowingly and confidently in exploring international business and tie-ups.

Proplast
Proplast will showcase India’s burgeoning plastics processing capability and it demonstrates high standards that are consistently being delivered by Indian processors across the globe. Last three editions of Proplast have helped Indian Processors to get noticed internationally and it has given Indian Plastics Processors a high visibility platform to interact with international business. Major international retail chains make it a point to be present at Proplast and see what India has to offer.

Plastindia 2015 concurrent event Proplast, 4th edition event is the final word in processed plastics, the heart of India’s plastics industry. This will have its own dedicated pavilion of more than 5,000 square
Plastindia Show Preview

Plastindia Show Preview

Plastindia will also organize a GALA Evening, which will give opportunity for entertainment and net-working.

Innovation Pavilion
Apart from the aforementioned concurrent events Plastindia will be having an Innovation pavilion for the first time and is going to be an exciting place to visit for all interested in modern development using plastics. It would be of utmost importance to all those interested in Research & Development, Science, Inventions and Innovations and specially to Scientist, Technologist and Engineers and Faculty members & students. The organiser plan to make it as interactive as possible and entertaining besides being educational to even lay public visiting Plastindia 2015.

Through the full scope for this Innovation pavilion is being worked out, broadly it will consist of three sections:
• Industry / Institution Sections: will consist of presentation of Innovations as practiced by Plastics Industries and Academic Institutions.
• Graduate Students Posters: where graduate students research work will be presented as posters.
• Plasticon Awards: A pride of place will be given to Plasticon Awardees in this pavilion, a fitting place for all those who have won the much sought after Plasticon Awards in as many as twenty five categories.

At a time when the industry stands on the cusp of a grand growth story, Plastindia 2015 is all geared up to provide that much required push. During the period 2013 to 2020, plastics consumption in India is set to increase from 12 MMTA to 20 MMTA. Exports will rise from US$ 6 billion to US$ 8 billion. Direct and indirect employment will grow from 1.2 million to 2 million.

So, do not miss this opportunity and mark your calendar to attend the 9th International Exposition Plastindia 2015 and have pleasant and rewarding experience and expand your horizon.

Venue : Bangkok, Thailand
Date : 18 June 2015

APN Plastics in PACKAGING: Conference 2015

Organised by:
Asian Plastics News

About Plastindia Foundation:
Plastindia Foundation is the apex body of major Associations, Organisations, and Institutions connected with plastics including Government and Semi-Government Organisations. The main objective of the Foundation is to promote the development of Indian plastics industry and to assist the growth of plastics and related materials and their products. It is dedicated to the national progress through plastics and is striving hard to make India a preferred sourcing base for plastics products for the world. Working as a catalyst, the Foundation works to build awareness of the significant contribution made by plastics to society and the environment. It also creates a positive policy framework with all statutory entities and increases per capita consumption of plastics, encourage exports thereby significantly contributing to national growth. In order to enhance the image and the growth of Indian Plastics Industry, the Foundation holds world-class exhibitions in India at regular intervals, where it provides opportunities to demonstrate the industry’s capabilities.

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Venue : Bangkok, Thailand
Date : 18 June 2015

The 7th APN Plastics in PACKAGING Conference 2015

Venue : BITEC, Bangkok, Thailand
Date : 27 & 28 August 2015

APN Plastics in Automotive 2015 Conference

Organised by:
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T-PLAS
Chinaplas brings in new topics to shade light on new manufacturing era

Asia’s No. 1 and the world’s No. 2 plastics and rubber trade fair, CHINAPLAS 2015, will be held on 20-23 May, 2015 at China Import & Export Fair Complex, Pazhou, Guangzhou, China. The show bring in an array of concurrent events at the fairground to help industry professionals to stay close with the market trends. This year, CHINAPLAS will spotlight three events – namely “Design X Innovation”, “Industrial Automation – Robot Parade & Smart Production” and “Medical Plastics Conference”.

The pace of change in global manufacturing is faster now than any time in history. With increasing customer expectation and stiffer competition, the past era of production emphasizing on heavy capitalization and economies of scale is over. Automation, innovative manufacturing technologies such as robots, vision and sensing systems, software technology, and good product design are now the hot topics of all industries. “New era manufacturing” will be about how to produce effectively with the least resources, and to manufacture unique products that can bring sustainable business.

Highlights of the Concurrent Events:
“Design x Innovation” – Adsale Exhibition Services Ltd, CHINAPLAS organizer, join hands with BASF, the world’s leading chemical company and player in Performance Materials, to demonstrate how plastics combine with creative design can provide sustainable and innovative solutions and help solve real customer problems. The event will showcase well-designed industrial products made of BASF advanced materials including auto parts, building materials, consumer goods, apparel and housewares. Open Forum on the topic of “Design & Innovation” will also be held and chaired by internationally revered engineering and product designers to share their award-winning works and experiences. “Design x Innovation” will be at two spots of the fairground respectively, at booth A21 in Hall 13.2 and at Viewing Deck outside Hall 9.3 in Zone B.

Industrial Automation – Robot Parade & Smart Production
Industrial Automation Zone will be set up at Hall 4.2 at CHINAPLAS 2015 to feature a legion of tools and technologies such as robotics, automation systems and peripherals, remote control systems, drives, sensors, arm tooling and software, etc. that help tuning the production lines to be more automated, smarter and efficient ones. The Zone rallies market leaders from all over the world such as top robot makers, ABB and Wittmann Battenfeld, automation technology leaders Honeywell and Rockwell from the US, Siemens from Germany, Mitsubishi Electrics and Shini from Japan and Taiwan respectively. “Robots Parade and Smart Production”, a fascinating live demonstration of robotics and fully automated production lines, will be held at the fairground to illustrate the functions, preciseness and flexibility of robotics, as well as the manufacturing advantages brought by clever automation technologies.

Medical Plastics Conference:
A two-day conference will be held during CHINAPLAS on 21-22 May, 2015. The conference will present hot topics in the medical plastics field such as the latest developments in the global and regional markets, the special requirements for polymer production, additives use, molding technologies, post-processing and medicine packaging, with a view to unlocking future business potential for market players. Leading materials and technologies providers, influential associations and research units will unveil their breakthroughs, analyze the market trends and share their experience on product designs. Healthcare brands will also share their success stories over product development. The Conference is free of charge. The conference provides a very focused platform for suppliers and engineers from medical devices manufacturers, OEMs, end-users to share their latest technologies and to network with professionals.

Ada Leung, General Manager at Adsale comments, “CHINAPLAS is not simply a procurement and networking platform, but a place to enrich professional knowledge. We are always sensitive to the market movements and bring in new elements each year to keep visitors staying on top of the market. No matter what sectors and positions they are from, our visitors can find the practical solutions and inspirations from our show”.

In addition to the concurrent events highlighted above, there will also be over 50 sessions of technical seminars being held during the exhibition period. CHINAPLAS 2015 will feature more than 3,100 exhibitors from 40 countries and regions, unveiling the latest plastics and rubber technologies and services across 15 product theme zones that will occupy 26 exhibition halls at China Import & Export Fair Complex, Pazhou, Guangzhou, PR China. 13 countries and regions including Austria, Canada, France, Germany, Hong Kong, Italy, Japan, Korea, Switzerland, the UK, USA, PR China and Taiwan will participate in international pavilions.
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DC&B will be a source of information for architects, designer, engineers, contractors, building owners and readers related to the Building and Construction industries.

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EXHIBITION Chinaplas 2015
DATE 20 – 23 May 2015
VENUE China Import & Export Fair Complex, Pazhou, Guangzhou, China
ORGANISER Adsale Exhibition Services Ltd
TEL +852 2811 8997
FAX +852 2516 5024
EMAIL publicity@adsale.com.hk

THAILAND

EXHIBITION ProPak Asia 2015
DATE 17 – 20 June 2015
VENUE BITEC, Bangna, Bangkok
ORGANISER Bangkok Exhibition Services Ltd
TEL +662-615-1255
FAX +662-615-299
EMAIL visitor@bestworld.com

EXHIBITION InterPlas Thailand 2015
DATE 9 – 12 July 2015
VENUE BITEC, Bangna, Bangkok
ORGANISER Reed Tradex
TEL +66 2686 7299
FAX +66 2686 7288
EMAIL interplas@reedtradex.co.th

EXHIBITION T-Plas 2015
DATE 26 – 29 August 2015
VENUE BITEC, Bangna, Bangkok
ORGANISER Messe Düsseldorf Asia
TEL (65) 632 9620
FAX (65) 632 9655
EMAIL tt@mda.com.sg

EXHIBITION BMAM EXPO ASIA 2015
DATE 16 – 18 September 2015
VENUE IMPACT Exhibition and Convention Centre Hall 6, Bangkok, Thailand
ORGANISER IMPACT Exhibition Management Co., Ltd.
TEL +66 (0) 2833 5111
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APN Plastics in Packaging 2015 Conference

CONFERENCE 7th APN Plastics in Packaging 2015 Conference
DATE 18 June 2015
VENUE BITEC, Bangkok, Thailand
ORGANISER Asian Plastics News
TEL (65) 6222 2933
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APN Plastics in Automotive 2015 Conference

CONFERENCE APN Plastics in Automotive 2015 Conference
DATE 27-28 August 2015
VENUE BITEC, Bangkok, Thailand
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- Industrial Automation: Robot Parade & Smart Production
- Medical Plastics Conference
- Haier Suppliers Summit
- Open Up Emerging Market Seminar

20 – 23.5.2015 China Import & Export Fair Complex, Pazhou, Guangzhou, PR China

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