

ROTO **MOULDER**

ISSUE
04

magazine

**MAR
2016**

**The Spock Chair is
“Out of this world”
Design**

**Technical Talk:
Where does all the
powder go?**

**FERRY Industries Inc.
89 Years Of
Performance!**



Image supplied by YETI Coolers
and made on the FERRY RotoSpeed Machine

CHAIRMAN'S REPORT



All good things come in threes they say ...I've just returned from a trip to India to attend the StAR conference and meet with the industry in that part of the world. Visiting the meeting in Goa was my third visit to a STAR meeting in India, all of these visits being three years apart. On all three days of the meeting I enjoyed a morning run at the beach prior the meeting in a group of three, Ronny Ervik, Dru Laws and myself (and yes we come from three different countries).

Those of you who attended the meeting, will be familiar with Dru Laws' presentation about the "Rule of thirds". For those of you who were not lucky enough to attend, you missed another great event with good technical content, presented from companies both in India and around the globe.

While at the conference I remembered that only a decade ago, India was still an emerging market for us. At that time experts were predicting huge growth for the rotomoulding sector in Asia, China and South America. Some of that growth has already occurred, certainly in India and South America, mainly in the ever present tank industry. As these areas have developed we have also seen local groups being formed to support the industry such as StAR (India), RPC-CPPIA (China) & Anipac (Mexico).

In Goa, we learned that the watertank industry is under attack from blow moulding, especially the high quantity market for smaller sizes. The industry there is responding to the threat by developing a more diverse market, a sign of maturity in the sector.

Certainly we can also see a rise in production in Eastern Europe, Russia, Northern Africa and the Middle East. All of those companies now being established will have challenges and opportunities that are relatively new in our industry. While they will have access to information that many existing moulders had to learn the hard way, the information is primarily available in only a few languages and naturally, existing moulders are hesitant to share their hard earned intelligence.

Each area of the ARMO world provides great opportunities for you to meet with you industry peers, gather real information at events that can help you become a quality moulder and gain intelligence about what's happening locally to you. It's one of the key values of being a part of the ARMO family.

■ Oliver Wandres

This issue is supported by



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ROTATIONAL MOULDERS
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ROTOMOULD 2016

THE ARMO CONFERENCE

JUNE 19-21

Gold Coast, Australia

www.armo2016.com



89 YEARS OF PERFORMANCE!

Harry Covington purchased the Ferry Machine Company in 1982 and changed the name of the company to FERRY INDUSTRIES, INC., to reflect the company's new market strategy -- to build its brand of RotoSpeed™ Rotational Molding Machines and its brand of Femco Foam Cutting Machinery.

In 1998 Ferry purchased Quintax, its line of 3-axis and 5-axis CNC machining centers. These automated CNC machines are used to trim rotational molded products, thermoformed products and injection molded products.

Shaping Industry

Ferry produced its first rotational molding machine in 1983 and since that time, the company has manufactured more than 1,000 machines. The company has shipped to more than 58 countries globally.

Ferry Industries' goals for rotational molding were clearly defined: faster cycle times, tighter process control and more flexibility. Ferry developed what is now the most extensive and sophisticated product range offered to the industry: Carousel Machines, In-Line Shuttle Machines and Rocking-Oven Machines. The company has more than 35 machine models in its product range.

Major advances in the rotational molding industry by Ferry:

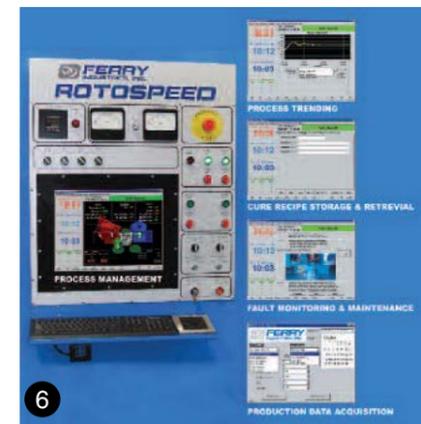
- Ferry was the first to produce the five-station, four-arm independent-arm machine. Because of the independent indexing capability of the arms, molders now can produce vastly different products of size and weight with different cycle times on the same machine and simultaneously.
- Faster carriage indexing times reduce lost production time each cycle contributing to more cycles per year.
- Faster oven and cooler door speeds reduce lost production time each cycle to help increase cycles completed per year resulting in potential higher annual yields.
- Highest arm weight carrying capacity to allow larger size & complexity of molds and framing or more molds per arm for more part pulls per cycle.
- Ferry was the first company to expand process capabilities on rotational molding machines by using PCs with PLCs. Ferry's RotoCure™ System Manager revolutionized the machine controls by more fully utilizing the capabilities of a Programmable Logic Controller, rather than just replacing

the discrete timers and relays for process control. Ferry's RotoCure™ provided the molder with the ability to make more complex parts using much more diverse processing parameters.

- Ferry includes an industrial VPN router with every RotoSpeed machine. When connected to a customer-supplied internet connection, Ferry can remotely access the PLC or PC for programming and troubleshooting, reducing downtime and costs for the customer over the life of the machine.
- Ferry developed the Multiple-Passage Internal-Gas supply system allowing molders to use dual- and triple-passage inner-air capability, to provide the industry with more processing options.
- Queen's University - Belfast, invented RotoLog™, the industries' first process monitoring system. Ferry bought the patents in 2000 and today Ferry continues the development of the world-renowned RotoLog system. The newest generation of RotoLog can be integrated into Ferry's RotoCure 7™ machine operating system.
- InfraRed Thermometry™ (IRT) was created as an integrated system to provide a "non-contact" adaptive process control system which allows the rotational molding machine to continuously monitor and adjust the process to generate consistent parts while reducing scrap and increasing the output of high-quality molded products.
- Ferry offers high-intensity mixers and powder dispensing systems.

From its beginning, Ferry Industries has created a flow of new product ideas, new technology and new productivity improvements unprecedented in the rotational molding industry. The company is determined to continue its innovative ways, forming relationships and inviting rotational molders to look to Ferry Industries for the machinery, equipment and process improvements that help them succeed. Ferry Industries ... **When Performance Counts!**

4445 Allen Road • Stow, OH 44224 USA
 Phone: +1.330.920.9200
 Fax: +1.330.920.4200
<http://www.ferryindustries.com>
 E-Mail: sales@ferryindustries.com



1. RotoSpeed RS3-2600 Independent-Arm Carousel
2. RotoSpeed RS3-4000 Independent-Arm Carousel
3. RotoSpeed RS3-2600 Fixed-Arm Turret Carousel
4. RotoSpeed M-4600 In-Line Shuttle Rocking Oven
5. RotoSpeed RO-7470/3050 Rocking Oven
6. RotoCure 7.0 Process Management System
7. RotoLog 4.0 Real-Time Diagnostic Tool
8. IRT - InfraRed Thermometry - Process Optimization System & Software
9. Quintax E5510, 5-Axis CNC Router

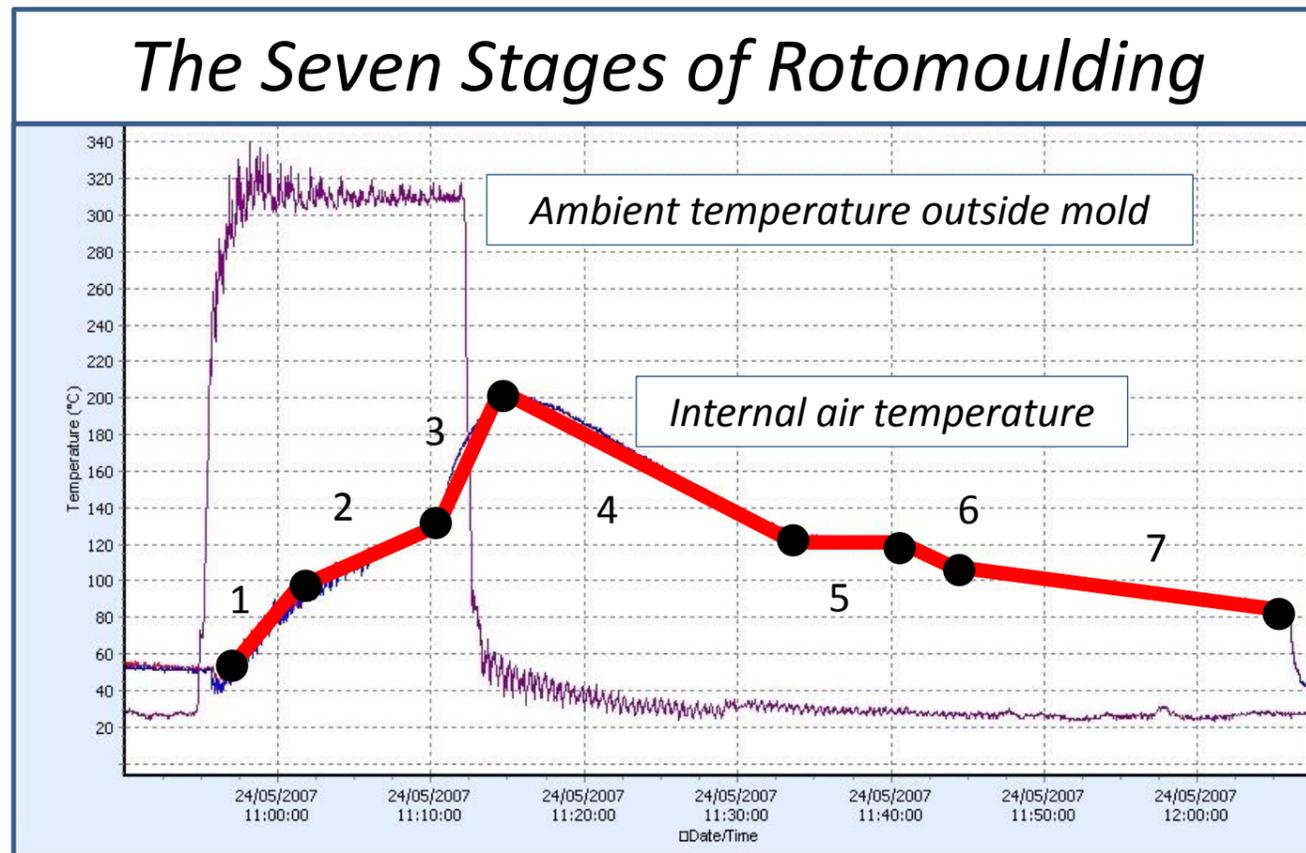
TECHNICAL TALK

Where Does All The Powder Go?

We often hear how the rotomoulding process is made up of a number of discrete events. I broke them down into SEVEN main ones, though I'm sure looking through the microscope you could find more.

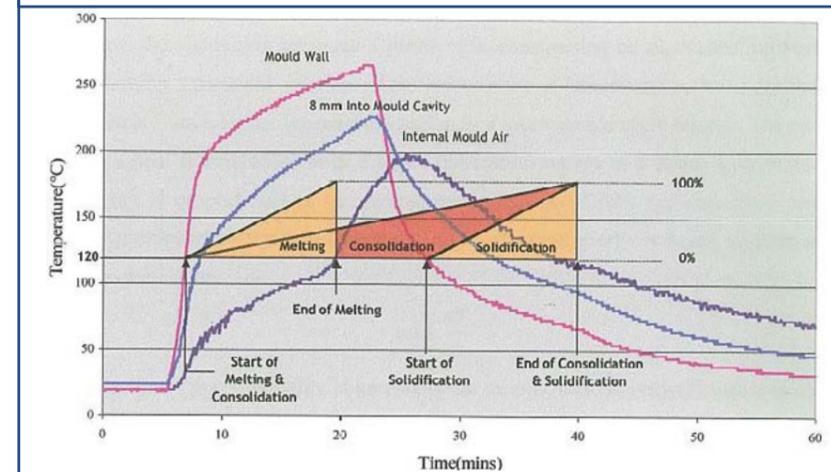
1. Powder heating
2. Powder laying down (melting)
3. Consolidation
4. Melt cooling
5. Solidification
6. Releasing from the mould
7. Post release cooling

You can see these 7 stages clearly in the graph below.



It helps to consider these events in a discrete fashion but this isn't the full picture and it doesn't happen like this in the mould. These events actually overlap each other in a very non-discrete way. For example melting does not just happen during phase 2 but instead it starts in phase 1. Consolidation does not take place in phase 3 but happens as soon as melting begins: phase 1. This is seen more clearly when we consider the temperature of the metal mould wall.

A Closer Look at the Mould Temperatures



As soon as the mould wall temperature reaches the melting temperature of PE around 120C (248°F) the powder will begin to stick and melt. On a graph of the mould's internal air temperature you will see this starting to happen earlier than the beginning of phase 2! Similarly the cooling and subsequent solidification of the PE will begin to happen when the mould wall temperature drops below 120C (248°F), much earlier than the beginning of phase 5.

The chart shows the temperature of the mould wall as well as the temperature of the mould inner air and then 8mm into the plastic part wall. The triangles provide an illustration of when the main phases begin and end. What this means is that the melting, consolidation and solidification of the polymer takes place over the entirety of the cycle. Although melting only takes place in the oven and solidification only takes place in the cooling bay, the consolidation of the polymer takes place right the way through the cycle. Also consider that the peak internal air temperature is reached outside the oven in the cooling bay. So the optimum properties of the PE are achieved only after the part has been heated. This is why the cooling regime and its effectiveness will impact the Peak Internal Air Temperature (PIAT) much more than the oven.

As we understand the temperatures and how they change through the moulding process we will then begin to realise how we can improve and optimise production in a much more scientific and informed manner. This can only open up the future of internal mould atmosphere control to reduce cycle times and the ability to accurately mould multi-layer parts.



Gareth McDowell

Gareth McDowell established 493K Limited to develop, and manufacture, data acquisition and control systems. These systems will improve quality and process efficiency, for the heating and cooling stages of rotational moulding. Advancing a body of research and development work, which started over ten years ago, he is currently marketing K-KONTROL and K-PAQ, a diagnostic mould temperature and pressure measurement system for 493K.

gareth.mcdowell@493k.com



The Spock Chair Is “Out Of This World” Design

The stunning new collection of upholstered furniture, by Riccardo Giovanetti for SpHaus has been released onto the European market during Milan Expo 2015. Highlighting how ITRO (the Italian Rotomoulding Association) has fostered a wonderful example of a successful partnership between the rotomoulder (Veca Spa), the mould maker, (Pagani Stamp) and architect Giovanetti in a project to promote the qualities of the process on behalf of their members.

Spock stems from the idea to create a family of armchairs and sofas with elements that can easily be combined together to form a variety of configurations. Thanks to the unique system of hooks made of metal and integrated directly to the structure rotomoulded in polyethylene, it is possible to change the composition of the sofa, creating linear or curvilinear compositions. The project was developed from a rotational moulded base relative to the backrest and armrest.



Spock's designer, Riccardo Giovanetti was born in Milan in 1967 and is a dedicated advocate for rotational moulding. He attended the Faculty of Architecture at the Milan Polytechnic where he graduated in Industrial Design in 1992. Throughout his career he has been involved in collaborations with prestigious firms such as Azimut, Cassina, Fast, Flou, Fontana Arte, Leucos, Pallucco, SpHaus, Whirlpool. He designs temporary exhibitions for important museums and galleries and is a visiting professor at ISAD - Istituto Superiore di Architettura e Design and SCP - Scuola Politecnica di Design in Milan. You can see his other beautiful designs @ www.riccardogiovanetti.it

Design house, spHaus focusses on products capable of going beyond the conventions of the sector's large commercial brands by applying the principle of formal innovation, without ever losing sight of pureness and functionality and, above all, without ever being merely decorative. The spHaus range is focused on aesthetic impact for furnishing executives' offices, hotels, restaurants and public areas in general. The choice of working with Giovanetti on the Spock project was an obvious one for both with wonderful results. See their range @ www.sphaus.it

Moulder maker Pagani specialises in the production of thoughtfully designed moulds for the process, utilizing the most modern machinery available and the specialist knowledge of their excellent staff. See more about them @ www.paganistampi.com

Moulder Veca's motto is that “nothing great in the world has ever been accomplished without passion” (Friedrich Hegel) built on an understanding of the importance of beautiful, well designed and functional products. See their range @ www.vecaspa.com



Rotomould 2016: The ARMO Conference

EARLY BIRD CLOSING APRIL 8 – REGISTER NOW

Globalisation is a term that we hear often. Some of the effects of it are clear to see on our business, in opportunities to utilize world labour prices and purchase cheaper products outside our borders while others aren't immediate or obvious. It isn't only companies who export or who license products from overseas that need to know what's happening.

We all know the world is shrinking and it is even more vital that we have a deep understanding of what is happening in our industry outside our business, our geographic area and even our own hemisphere to be able to position ourselves for success.

Where in the world should we look to next both for opportunities and threats? How can we form relationships and partner with other similar businesses to our own or make the best choices for us in the coming few years? The international rotational moulding industry is on its way to the Gold Coast, Australia and this is the best opportunity you will ever have locally to take advantage of the sharing of global knowledge & networks in the rotational moulding business. It's hard to market the value of networking but we know it's a necessity for your business to really thrive.

We are certain knowledge is essential to the health of your business. Those companies who strive to be the best & truly understand the power of working together for a common goal need to be at Rotomould 2016: The ARMO Conference. We've put forty years of industry knowledge and twenty years of global networking into this moment for the benefit of rotational moulding in Asia, New Zealand & Australia. The global industry is coming to the Gold Coast, take some time out to focus on your business and join them there! On behalf of the ARMA Board of Directors I'm delighted to invite you to join us for fun, hard work and new opportunities.

Leisa Donlan
ARMA – CEO

The full program and conference brochure are now available at www.armo2016.com



February 5, 1976

There were six inches of snow on the ground in Chicago when 21 rotomolders met at the O'Hare Hilton and discussed a few industry concerns including standards, freight rates, education, and supplier relations.

There was Harold Williams and W.C. Miller and Robert Dunne. And there was Ewing Lofton, Raymond Hoschette, Pat and Thomas Long. And then there was James Florsheim, Ray Oliver, George Kraemer, and Rush Smith. There was Darrell Hampton, Virgil Lynch, and Thomas Schidel. Harold Brown and John Cali and Larry Snyder too. And then you had Weldon "Red" Smith, Norman Schaefer, Arlen Huff, and Bob Bagshaw.

The men divided into subgroups to discuss their topics and then gave reports. It was decided that these concerns were key areas where an association would be able to help the industry. Each interested company signed a commitment form promising \$250, which would be credited to their annual dues. And with that ARM was born.

Three weeks later, a memo was sent listing the following charter members:

- Du-Call Miller Plastics
- Dunne Plastic Company
- El Jay Plastics, Inc.
- Faribo Manufacturing
- Formed Plastics, Inc.
- G E T Plastics, Inc.
- Glass Plastics Corp
- Jiffy Plastics Inc.
- Kracor, Inc.
- Plastech Division, Penn Pacific Corp.
- Rotec, Inc.
- Rotocast Plastic Products
- Snyder Industries
- Solar Plastics
- Spin-Cast Plastics Inc.
- Unipar, Inc.



ARM President's Message

I am very pleased to begin my term as President of ARM at a time when we are growing membership and have a very participative Board.

After numerous discussions with the Board and ARM members over the last couple of years, I have decided to focus on three main objectives to increase value for our membership during my term as President:

- Select a Technical Director for ARM.
- Increase and update our social media presence and web image.
- Make the 40th Anniversary Meeting an excellent and very memorable event.

Of course I am open to any additions or modifications to these objectives from our members.

Before we know it, our 40th Anniversary celebration at our Annual Meeting in New Orleans will be here. Staff and committees are already hard at work to make it a great event. We also have a task force that will locate and invite retirees from our industry to join us in New Orleans. Please plan to be a part of this celebration, September 24-27 at the New Orleans Marriott. I believe we will be talking about this event for years to come.

Let's have a Great New Year!
Hasta la vista!
Conchita Miranda



The British Plastics Federation (BPF) is pleased to inform all ARMO Members that it is leading the activation of a new working group under ISO/TC 270 to promote the development of an International standard on the safety requirements of Rotational Moulding Machines.

The delegates of the country members of TC 270 are asked to vote positively in the next TC 270 meeting that will take place in April 2016. If the proposal is accepted, it will take some months after April for the appointment of the delegates of each single country in the new Working Group, which is expected to start its activities at the end of 2016. The BPF is willing to hear from members their intention to express a favourable vote during the next Committee meeting. You can confirm this by getting in touch with Dr Sara Cammarano, at scammarano@bpf.co.uk, no later than March 15th 2016.

The BPF's commitment to health and safety has long been known in the Plastic Industry thanks to a number of activities such as the organisation of an annual health and safety seminar and initiatives like SIMPL (Safety In Manufacturing Plastics), aimed at improving Health and Safety standards in the industry.

This year, the BPF will organise two health and safety seminars, one of which will specifically focus on rotational moulding issues. The 'Rotational Moulding Health and Safety Seminar' will take place on 19th May in Northampton and has been constructed to provide delegates with a comprehensive exploration of the key health and safety issues affecting their businesses. The Group is defining the final details of the seminar and the programme includes explosions, risk assessments for machine safety, oven modifications, H&S in oven free machines, an insight into the HSE Campaign for 2016 and presentations on the BPF Guidance and SIMPL. The seminar will also be a unique networking opportunity with an expected audience in excess of 100 delegates.

The afternoon before the seminar there will be an optional training course, jointly hosted by Rotomotive, 493K and Broadway Colours, that will provide attendees with hands-on experience of five quality control techniques: in-mould temperature / pressure monitoring, low temperature impact testing, colour evaluation, powder quality measurement and thickness assessment. For more information about this event please contact the BPF events team at pbaxter@bpf.co.uk.

9th Nordic ARM Conference



This year's industry gathering for Nordic rotomoulders, including companies in the Baltic States, took place in Borås in Sweden, 9 and 10 February. As usual conference had a rich program: about new technology, materials and processes, in addition, nearly 100 participants used the opportunity to see how Uponor moulds their large manholes and tanks in an impressive industrial plant outside Borås.

Nearly 100 participants, of which around 25 exhibitor companies, had found their way to Borås. Ronny Ervik, Ultrapolymers, is the Chairman of Nordic ARM. He opened the conference then gave the pulpit to the presenters. The conference contained advice about the importance of being present on social media, standards in the industry and how to get products tested according to relevant standards. Furthermore, we learned about mould construction from the additive processes - which now also make inroads within rotational moulding, prototyping moulds likewise.

Nordic ARM Design Award has become a permanent occurrence. Ronny presented nominees. Finland is the Nordic leader in terms of volumes and the number of rotational moulding companies. Not unexpectedly the Finns also won the design competition. The presentation form the Nordic ARM Design Award can be seen at nordicarm.org. The Nordic ARM Best practise is summaries from group work done by the participants of the Conference. This year topics were standards, internal cooling and pigments. Views and conclusions from groups were granted to the Board / Secretary to rewrite and hand out to the Nordic ARM members. Then it will be included in the professional development operating in Nordic ARM. It's a great way to make each other better - and something to learn from for second processing forms.

Social aspects are also at the forefront under Nordic ARM conferences. Lunches in pleasant atmosphere and a dinner Night between the two days included a non-academic quiz led by Ronny. The person who ended talks in a four-hour session, Paul Nugent gave us truly an academy training. The Nordic ARM Board would like to thank All for participating in the 9th Nordic ARM Conference in Sweden.

Thanks to the high attendance, the speakers' involvement, the fantastic Uponor trip, the event sponsorship, the Nordic ARM Design Competition with great projects, the useful workshops and the gala dinner with the famous Nordic ARM quiz, it was a great success!



Let's meet in a good company!



Rotopol Association would like announce that the third edition of the ROTOPOL Conference will be held on the 2nd and 3rd of June 2016 in the beautiful mountain resort of Świeradów Zdrój.

More information about the Conference program and you can find on our website www.rotopol.pl

We are delighted to present a unique ROTOPOL Conference & Tour offer 30.05-04.06.2016

Full package includes : #Berlin #Poznań # Kraków#Wieliczka#Auschwitz # Berlin

- Rotopol Conference
- rotomolding factory visits
- various tourist attractions
- SPA

Long Weekend package 02.06 - 05.06.2016

- Rotopol Conference
- various tourist attractions
- SPA

Conference & Tour offer is unique proposal for our delegates to see the most popular places in Poland, visit rotomolding factories

and take part into third edition of Rotopol Conference.

Please contact us to get the best offer at eventy@valor.net.pl

Poland is a country situated in Central Europe. It covers more than 320 thousands square kilometers and has population of over 38 million people. Poland's official language is Polish. Poland belongs to the European Union and has a great economic potential. There are many universities and academies which offer the highest level of education. Polish culture and art have a long history and are distinguishable abroad. Although Poland is highly developed and influenced by contemporary trends, it also retains its own unique tradition.

CRACOW & WIELICZKA

Cracow is one of the most visited cities in Poland. There are numerous historical monuments, good hotels, restaurants and recreational opportunities. The most significant sites (and the symbols of Krakow) are: the Wawel Castle, main Market Square with Barbican, the Sukiennice Cloth Hall and St. Mary's Basilica, Wieliczka Salt Mine

– one of the world's oldest operating salt mines which has been in operation since prehistoric times.

AUSWITZ

KL Auschwitz was the largest of the German Nazi concentration camps and extermination centers. Over 1.1 million men, women and children lost their lives here. There is no way to understand postwar Europe and the world without an in-depth confrontation between our idea of mankind and the remains of Auschwitz.

POZNAN

Poznan University of Technology (PUT) grew out of the State School of Mechanical Engineering which was established in 1919. Currently, it is one of the leading technical universities in Poland which has become one of the most recognized landmarks of the region and even the whole country.

China Rotomoulder's Conference And Exhibition, 21-23 April 2016



CONFERENCE TO REPORT LATEST DEVELOPMENT IN CHINA

The Chinese rotomoulders' association, RPC-CPPIA, will host the Annual Conference and Exhibition between 21 and 23 April, 2016 in Ningbo, 100km to the southeast of Shanghai. Like the past annual conferences the Ningbo Event will have not only reports from the rotomoulders in China on the latest rotomolding technological achievements, but also presentations made by the research and development institutes in China on rotational moulding technology. Many of them who make lots of contribution to the Industry continue to deliver reports for this occasion. Thanks also to the Government's support, the Industry implements a number of rotational moulding applications like military transport bins, sewage treatment containers and floating maritime town projects, etc. They have become hot items for the rotomoulders' circles in China. The Government Institutes will also make presentations about these projects during the Conference. Gained in the 2015 Annual Conference as a useful experience that was particularly appreciated and thought very helpful by the foreign audience, the Ningbo Conference will continue to provide on-time presentation interpretation. As such, foreign guests who attend the Conference should have no problem understanding the rotational moulding advancements in China.

EXHIBITION AND TOUR

Along with the Annual Conference RPC-CPPIA will organize an Exhibition at the same venue. Through the samples and data displayed at the exhibition hall, visitors will have a physical perspective on what level of rotational moulding accomplishments made by the Industry in China. Apart from this, a rotomoulders' tour will be organized between 6 and 23 April immediately before the Conference. In this regard a visitor should be able to see, feel and discuss with the representative rotomoulders in China. The tour will be visiting one of the most beautiful regions in China, the Yangtze Delta near Shanghai. The region is renowned with full of scenery spots, and the tour is just to undertake during the best season of the year with lot of blossoms and nice weather.

CHINAPLAST AT THE SAME TIME

In fact, a foreign visitor who has never visited China before should not miss the opportunity. Immediately after the Ningbo Conference between 25 April and 28 April is the 2016 Chinaplast which this year is held in Shanghai. Chinaplast is considered the biggest only second to the K-Show in Germany. Only a couple of days to tour the Chinaplast might look not enough for a first time visitor. One would be fascinated to see how comprehensive and conclusive a plastic show like this being exhibited in the other side of the Globe.

Conference registration fee is USD2000 for attending the Conference and Exhibition between 21 and 23 April. The Rotomoulders' tour between 6 and 23 April is charged at USD5000 per pax.

For more information and registration please refer to the attached literature.



StAR 2016 annual conference was held in Goa from Feb 1 to 3, 2016. Ninety attendees and eleven exhibitors participated in the conference. Spouses, families and guests comprised a further group of eighteen. The Trade show consisted of some leading Global and Indian Supplier companies. The conference theme Rotoscope for Growth opportunities in Resurgent India found resonance in the events of the conference over the three days.

WHAT THEY SAID ABOUT THE CONFERENCE:

“Those of you who did not visit the meeting -- SORRY but you missed another great event with a nicely organized meeting with good technical content – that got presented from companies in India and from around the world”

-Oliver Wandres, ARMO Chair, Maus Germany

Seminars on Feb 1 were in a new format; four half day seminars for the first time in a StAR conference. Attendees could attend any two.

Dru Laws of Seljan Company, USA conducted two of the seminars:

- Best Practices in Rotomoulding
- Introduction to Lean Manufacturing

Ian Hansen, Roto consultant from Australia conducted a half day seminar on Rotomouldable materials – what you should know about them.

Oliver Wandres of Maus, Germany held a seminar on Choosing the right Moulds & Features

Twenty three conference presentations on Feb 2 & 3 covered a selection of topics like:

- Latest in automotive rotomoulding
- New materials to push for new frontiers in rotomoulding
- Environment friendly products
- Infrastructure products for new Indian markets
- Antimicrobial Plastics

“I have tried describing some of the acts to friends back in Sydney but it is nowhere near the same as experiencing the acts first hand.”

-Ted Humpreys of PSD Rotoworx, Australia

- High quality PE Foam products
- Rotolining
- Custom rotomoulding in India
- Key aspects of moulds
- High performance PE for demanding applications
- Advanced Pulverizers

A variety of entertainment was part of the Suppliers Networking Dinner on Feb 1 and Gala Dinner on Feb 2.

Absorbing balancing acts like “ Crystal Ball “ and “ Acro Silk “ and spectacular dances at the Gala dinner came in for special applause.

Yoga on the beach and Water sports provided great fun & enjoyment; Shopping and Cookery were conducted as spouse activities.

Sponsors of the conference were recognized at Gala Dinner evening: Principal Sponsor – MPlast, Gold Sponsors – SCG ICO Polymers & Total Petrochem, Silver Sponsor – NAROTO, and Bronze Sponsor – EEC Egypt.

2016

UPCOMING EVENTS

APR
21-23  **CHINA INTERNATIONAL ROTOMOULDING FORUM**
City/Country: Ningbo, China
Further Information: psslam@hotmail.com

MAY
12-13  **IT-RO ROTOMOULDING SEMINAR**
City/Country: Stresa, Italy
Further Information: www.it-ro.it

JUN
2-3  **ROTOPOL CONFERENCE 2016**
City/Country: Swieradow Zdroj, Poland
Further Information: www.rotopolevent.pl

JUN
12-21  **ROTOTOUR 2016 AUSTRALIA**
City/Country: Gold Coast, Australia
Further Information: www.rototour.com

JUN
19-21  **ROTO MOULD 2016 GOLD COAST: THE ARMO CONFERENCE**
City/Country: Gold Coast, Australia
Further Information: www.armo2016.com



Speaker Ashish Baheti



Conference attendees



Trade show booth of SCG – ICO Polymers

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anipac
MÉXICO



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Rotomoulding Professional Committee of China
Plastics Processing Industry Association



Association of Rotational Moulding
(Central Europe) e.V.



IT-RO



ASSOCIATION OF
ROTATIONAL MOULDERS
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StAR
SOCIETY OF ASIAN ROTOMOULDERS

