

ROTO TALK

Quarterly Newsletter of Society of Asian Rotomoulders

www.starasia.org 

Editorial Comment

The StAR Conference in Goa on Feb 1, 2 & 3 2016 lived up to Reputation & Expectation.....it was enjoyed by one and all – attendees, exhibitors and spouses. Goa as usual never ceased to surprise and excite. Being at a beach resort in South Goa was by itself so much fun. The conference on its part essayed knowledge and networking in ample measure....more value addition to the consolidation process in Global rotomoulding.

REGISTRATION



Registration



Ravi Mehra



Attendees



Trade show



Lunch Time



Dru Laws



"Crystal Ball" at Gala dinner



Post conference dinner



90 Attendees & 11 Exhibitors participated in the Conference & Trade Show Also, there were 18 Spouses / Guests

There were 44 Moulders and 39 Suppliers. 65 of the attendees were from within India and 25 from outside India

"Rotoscoping for Growth Opportunities in Resurgent India"
At Goa, India, Feb 1-2, 2016

- SEMINAR I - Best Practices in Rotomoulding - By Dru Laws, Seljan Company, USA
- SEMINAR II - Rotomouldable Materials : What you should know - By Ian Hansen, Roto Consult,
- SEMINAR III - Introduction to Lean - Manufacturing By Dru Laws, Seljan Company, USA
- SEMINAR IV - Choosing the right mould & features - By Oliver Wandres, Maus, Germany

PROGRAMME - PRESENTATIONS

- Rotational moulding in Automotive industry - keeping you ahead of the game - By Ng Jun Jye, SCG - ICO Polymers,
- New materials designed to push the boundaries of rotomoulding - By Geert Vaes, Total Chemicals & Refining,
- Quest to make environment friendly products - By: Mohit Shukla, MPlast, India
- Polypropylene for Rotational moulding - By Roger Goris, Roto Consultant, Australia
- Rotomoulders - Do you know your production costs? - By: Celal Beysel, Floteks, Turkey
- Infrastructure products for the Indian market - By Martin Spencer, Unique Roto, UK
- Blow moulding - Could it be a blessing in disguise for Rotomoulders? - By Ashish Baheti, Vectus Industries, India
- How to produce a twin layered fuel tank - By Les Druyf, A Schulman Gainsborough, UK
- Chemical tanks - know your materials - By: Ian Hansen, Roto Consult, Australia
- Antimicrobial plastics - What is the right choice? - By: Vikram Bhaduria, Alok Industries, India
- Practical suggestions for making high quality PE foam products - By Ronny Ervik, Ultrapolymers, Norway
- ROTOLINING - By Dru Laws, Seljan Company, USA
- Moulds handling and maintenance - By: Oliver Wandres, MAUS, Germany
- Custom rotomoulding in India - market & scenario - By: Akshay Saini, BD Industries, India
- Rotomoulding industry in Poland - By: Marek Szostak, ROTOPOL, Poland
- Roto industry - Technical and philanthropic responsibilities - By Ahmed Shawky, EEC, Egypt
- High performance PE for more demanding applications - By: Bloys Rijkmans, Matrix, Australia / U.K
- Rule of Thirds - By Dru Laws, Seljan Company, USA
- Processing additives & fillers in rotational moulding - By: Marek Szostak, ROTOPOL, Poland
- Non destructive testing in rotomoulding - By: Celal Beysel, Floteks, Turkey
- Advanced Pulverizers - Greater output at lower cost - By: Ian Hansen, Roto Consult, Australia
- MAUS Permanent coatings by Reinhardt - By Dhanu Patell & Oliver Wandres, India + Germany
- Moulding inserts in XLPE - By Dipak Pujari, Ingenia India / USA



Ronny Ervik of Ultrapolymers at Seminar

Inaugural session of Trade Show in Octanorm booths was held after the seminars. Participants were - MPlast India, Total Belgium, SCG - ICO Thailand, NAROTO India, EEC Egypt, Orenda Canada, Ingenia USA / India, RR Plast India, Omega India, Prayag India, Greenage India



Akshay Saini, BDI-India



Geert Vaes, Total Petro Belgium



A Panchal, NAROTO & RL Mungad,



Ashish Baheti, Vectus India



Celal Beysel, Floteks Turkey



Outgoing President R.P. Shukla receives award from Ashish & Ravi



CONFERENCE & TRADE SHOW

with Opportunities in India" Feb 1-3, 2016

"On all three days of the meeting I enjoyed a nice morning run at the beach prior the meeting . This enjoyable morning run we had been doing in a group of three Ronny Ervik, Dru Laws and Me. And yes we come from three different countries." Oliver Wandres, ARMO Chair



Dru Laws conducting seminar



Oliver Wandres, MAUS Germany



Ng Jun Jye, SCG Thailand

The serious business of conference presentations on Feb 2 & 3 was punctuated by Gala Dinner & entertainment on the evening of Feb 2



Ian Hansen, A Baheti & D. Pujari



Swati, Ravi, Anuradha, Rajendra & Mohit



A Rafeay & A Shawky



Ronny Ervik, Les Druyf, Martin Spencer & Oliver Wandres

Suppliers Networking Entertainment



Dancing away at Suppliers Dinner



Crooner Ravi with Barbara, Manju, Claudia & Marianne

Revelry at Suppliers Dinner, Swetang Dave in foreground

STAR'S GOA CONFERENCE TELESCOPES NEW TECHNOLOGIES

World class technologies displayed at the StAR conference was the main highlight of the event.

Though it was not the first time, such technologies were discussed /displayed at a StAR conference, the important thing is that these technologies are going to be available in India in the near future. Companies like Maus Germany have already announced their tie up. Few of the highlights are...

Total petrochemicals introduced their 2nd and 3rd generation metallocene PE's, as well as metallocene PP, EVA, PLA (polylactic acid, a bio-based polymer), tailor-made compounds and innovative rotomolding technologies. These unique technologies are best suitable for wide range of applications, e.g. Technical Products, Custom moulded products, Fuel Tanks, Kayaks etc. Their unique molecular microstructure gives less of Shrinkage / Warpage and high ESCR properties even with higher densities. High gloss, Better Stiffness, Better Creep and Fatigue are other salient features of these grades. Total Petrochemicals has specialty products like Clear PP, Nano based conductive compounds, High Gloss PLA. With these products available in India you can see lots of new products that were never thought of rotational molding"

Maus, Germany has announced collaboration with Reinhardt India, for their speciality coatings on aluminium cast moulds. Indian mould manufacturers and moulders will make use of this to make world class moulds in India itself.

Orenda, Canada introduced the airforce technology with which you can grind at higher mill temperatures, even some grades of PP can be grinded with the same technology.

Martin spencer has highlighted lots of licensing and technology collaboration opportunities with the European companies. This can be very interesting for Indian companies to launch new innovative products at faster pace in emerging Indian market. Roger Goris showed the benefits of using PP to open up new markets with properties currently not available to the roto moulder with the current LLDPE resins. It seems, you will see lots of new rotational moulding PP products in the Indian market very soon.

There were lots of interesting presentations on subjects like Rotolining, PE foaming, Chemical tanks, Antimicrobial additives, which have vast potential in the Indian market but are at the nascent stage presently.

In a nutshell this time the conference subjects and technologies were more relevant to the Indian industry. For every new technology in the market to succeed two things are very necessary. First easy access with local presence to support & second cost effectiveness.

Presently Indian rotational moulding industry is moving from water tanks to value added products. With the Govt. initiatives giving boost to infrastructure, defence and agriculture sectors, market is ready to explode. With willingness of foreign companies to collaborate with the local companies, I am very sure that you can see lots of technology advancements in our industry in coming years. Lets make it happen, Make In India.

Umakant Savadekar

Phychem Technologies Pvt Ltd.

NEW MEMBERS	Category	Primary Contact
MATRIX POLYMERS, UK / India	Supplier	Venkit Mahadaven
OCEAN GROUP, Thrissur	Moulder	Philip A.Mulakkal
VEL PLAST, Coimbatore	Moulder	Saravanan vellayan

FORTHCOMING EVENTS

DATE	VENUE	EVENTS
April 21-23, 2016	Ningbo, China	China International Rotomoulding Forum
May 12-13, 2016	Stresa(Verbania) Italy	IT-RO Seminar " Rotational mouldind : present future applications"
June 2-3, 2016	Cottonia Resort Swieradow	Rotopol Conference
June 10-18, 2016	Australia & New Zealand	Rototour
June 19-21, 2016	Gold Coast, Australia	Rotomould2016: ARMO Conference
Sep 24-27, 2016	Marriott, New Orleans, LA	ARM Annual Meeting 2016 & 40th year Celebration
Jan 30,31 & Feb 1, 2017	Jaipur, India	StAR2017 Annual Rotomoulding Conference

TOTAL LUMICENE® METALLOCENE POLYETHYLENE FOR ROTOMOLDED FUEL TANKS

Total Lumicene® metallocene PE

For years Total has developed high performance materials for rotomolding fuel tank applications. Fully equipped with in-house heating chambers to test the performance of fuel tanks as large as 1000 liters, at temperatures up to 80°C and over extended periods of time, Total continues to design materials that meet the most stringent fuel tank requirements.

From gasoline to diesel and from bio-diesel to industrial chemicals : Total Lumicene® metallocene portfolio contains the right materials to meet permeability restrictions, chemical resistance and both short and long term mechanical integrity.

Used for years in Europe, these mPE resin solutions are now also available to the USA Rotomolding Market and other regions of the world, in both

A push to sustainable material solutions

In recent years, an increased environmental awareness and need for industrial hygiene has driven customers to question the adverse effects of processing cross-linked PE (XLPE). The exposure of employees to volatile decomposition of products during processing and the limited recyclability of XLPE have become major concerns in a world where worker safety and environmental sustainability have become key corporate objectives. Metallocene PE not only achieves desired performance attributes in fuel tank applications, it also overcomes many of the negative attributes associated with cross-linked PE.

Total Lumicene® metallocene PE can do the job

Total's second generation metallocene portfolio in Europe (see Table 1) has proven its outstanding performance in rotomolded fuel tank applications.

2d generation mPE' s	M3581	M4041UV	M3421UV	M3671
Mi2 (g/10')	6.0	4.0	2.7	3.9
Density (g/cc)	0.935	0.940	0.934	0.939

Table 1: Lumicene® mPE rotomolding range

It is the crystallinity and thermomechanical process of Total's Lumicene® technology that is responsible for the finer microstructure in the final part (see Figure 1).

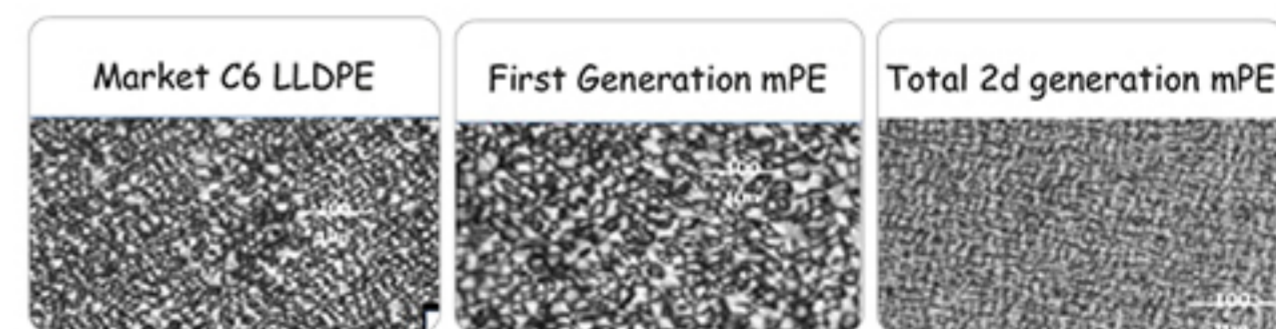


Figure 1: Lumicene® mPE rotomolding range

This key characteristic of Total Lumicene® mPE portfolio plays a major role in its performance in fuel tanks :

- Good shape control
- Improved creep properties
- High impact resistance
- Exceptional chemical resistance
- Low fuel permeation

Need a Tailor-Made Material to Fit your ROTOMOLDING CHALLENGE?



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