

Tenth Anniversary is an important landmark moment in the life of an organization. StAR has drawn up special plans to commemorate the occasion. StAR's Dubai Roto Meet launched activities for the year and the celebrations will continue through the year to climax with StAR 2015 Rotomoulding Conference. The Conference ends a day before Plastindia 2015 begins, in Delhi.

TENTH ANNIVERSARY CELEBRATIONS AT StAR

The Goa Night Sky on Dec 1, 2013 carried a celebratory message from StAR. Ten brilliantly glowing sky lanterns had streamed up to the sky to announce the 10 years of StAR. Symbolically it was use of the right medium at the right place for a most important message from StAR.

In the past 10 years StAR has shone brightly as the sole representative trade association of the Indian & South Asian rotomoulding industry. The brightness has reflected across the roto industry of the region like the reflection of the glowing balloons on that December night in the Goan Sea waters. The choice of the Gala Dinner on Dec 1 for the aerial announcement was appropriate, as it was the climactic event of the best ever conference organized by StAR, i.e. ARMO2013.

Expectations since, have been sky high for celebrating the special year of StAR in extraordinary ways.

The StAR Board has done the necessary brain storming and the line - up is ready – Commemorative back to back Regional Meets in Kochi & Mumbai on Aug 5 & 7 respectively; and Coffee - table publication Ten Years of StAR and Indian Rotomoulding Industry.

In its 10 years of achievements & successes StAR has directed its energies to work along with all its members for the betterment of the industry. Very aptly the THEME for the two special Regional meets is **How to Become A Better & More Successful Rotomoulder.**

The Commemorative Publication will have exceptionally good content and format to be a Collector's item. Included in the contents will be :

- Articles by well known personalities of the industry who have been involved with the growth and development of the industry in India.
- Highlights of the development of the Indian & South Asian rotomoulding industry
- Members Information section – Moulders and Supplier members need to pay for inclusion in the section.
- 10 Years of StAR – Story of Success & Achievements
- Industry Stats – first time ever authentic stats of Indian rotomoulding
- Sponsor Ads - Inside cover pages, centre fold pages including centre spread offered for the purpose.

Special benefits of joining StAR in this 10th Anniversary year is the opportunity of getting included in the members information section, and of course of participating at member rates as delegate and exhibitor in the twin Regional Meets. The member rate advantage will also be available at the StAR 2015 Annual Conference in Delhi.

S. B. ZAMAN
Exec. Director - StAR
sbzamanp@gmail.com

StAR 2015 ROTOMOULDING CONFERENCE, FEB 2 - 4, NEW DELHI.

Significance of StAR 2015 Annual Conference on Feb 2 to 4 has increased for two reasons.



Connaught Place - Shopping Centre near Conference Venue

The 10th Anniversary Celebrations at StAR will culminate with the conference which is followed immediately from Feb 5 to 10 by Plastindia 2015.



Delhi - Gateway to Tiger Safaris

One of the biggest plastic exhibition in India, Plastindia is being held in close proximity of the StAR 2015 Venue the Lalit. Hotel booking arrangements for the StAR Conference have taken into consideration the need to include extended stay at hotel at the special conference rate to be able to visit Plastindia. Delhi, India's capital city is steeped in millennium old history and traditions. It is also the Gateway for a variety of tourism itineraries. The timing of StAR 2015 coincides with India's peak tourist season when Delhi is at its brilliant best. Delhi is also central to the northern hub of India's rotomoulding industry. It is the seat of economic and political power of the country.

The Programme of the StAR Conference will afford high quality learning & networking along with social events which will be an opportunity to savour salubrious Delhi.

Dear Reader,

At StAR, while 2013 was coming to a close on the very high note of success of ARMO2013 in Goa, the seeds were being sown for another special year to follow. Glowing lanterns in the sky on the Gala Dinner evening of ARMO2013 had announced the Launch of the Commemoration of StAR's 10th Anniversary year in 2014.

Only special activities and events could do justice to the achievements and successes accomplished by StAR during the past 10 years.

We appeal to all the members to participate with utmost zeal to celebrate all that they have achieved for their own association. A distinct change in attitude was discernible from the moment StAR became an independent association. From Roll of Honour contributions to proactive involvement in the revamp of the association, members indeed played an exemplary role. Their confidence in the success of the goals and objectives of the organization is evident even today. Almost half the members on the StAR Roster of 2014 are multiyear members.

No effort is being spared in the conduct of the Commemorative activities and events for our 10th Anniversary.

The Coffee Table publication being compiled on the special occasion has all the ingredients of a Collector's Issue.

The special Regional Meets in Kochi and Mumbai on Aug 5 & 7 respectively have the most attractive themes and programmes for attendees.

Let us together make this a year to remember.
Happy Reading!

S. B. ZAMAN
Exec. Director, StAR

R. P. SHUKLA
President, StAR



StAR 2015 Venue - The Lalit

StAR HOLDS SECOND DUBAI ROTO MEET



Celal Beyseel



Gary Lategan

The first DUBAI ROTO MEET held by StAR in Jan 2013 had made an impact on that part of the rotomoulding world. The second Roto Meet in Dubai on Mar 23 & 24 was appreciated for an exceptional programme involving leading international Speakers.

Held at the Novotel World Trade Centre Hotel the Roto Meet in Dubai offered two Seminars on Mar 23 on either side of lunch. Networking Reception in the evening followed the Seminars.

It was a full day of presentations on Mar 24 on a range of topics designed for the region. Please see box for Topics & Speakers. Mr. Emad owner of one of the prominent moulder company in Dubai Starspoly graciously hosted a large group of attendees to a very enjoyable dinner by the Burj-e-Khalifa.

It was interesting to note in the course of the Roto – Meet that the rotomoulding industry of the

GCC Countries was diversifying into areas beyond water tanks. Road furniture and Rotolining were among the additions to the industry's product range. The Industry was seen to be taking a keen interest in roto products of the underground sector.



Starspoly Dinner

Dubai Roto Meet Programme

Seminars

All About Temperature, By Gary Lategan, Roto-Solutions, South Africa
Reducing Cooling Cycle in Hot Climates, By Dr. Gareth McDowell, 493K, UK

Presentations

Success Vs Survival in Rotomoulding, By Celal Beyseel, Floteks, Turkey
Design that makes a difference, By Satish Gokhale, Design Directions, India
How Design Helps to make a Quality Part on Time
By Gary Lategan, Roto-Solutions, South Africa
Rotomoulded PE-Manholes, By Ashish Baheti, Vectus Industries, India
Opportunities & New Markets for Tank Manufacturers,
By Ian Chisnall, Matrix Polymers, UK
Rotational Moulding industry in the Gulf and Greater Middle East Region
By Ahmed Shawky, Egyptian European Company (EEC), EGYPT
Tanks & Containers for Chemical Industry,
By Ravi Mehra, Norstar International, USA
Measuring Wall Thickness of Rotomoulded Parts,
By Dr. Gareth McDowell, 493K, UK
Black Art of Mould Release, By Kathrin Schulz, Chem-Trend GmbH, Europe
Specialty PE Compounds for Rotomoulding
By Umakant Savadekar, Heera Roto Polymers, India
Computing Product Behavior Based on Physical Properties
By Mohit Shukla, MPlast India Ltd., India

ROTOPOL SPRING MEETING - POLAND



The Conference – Full House

The conference was held, April 10 & 11, at the Palac Mierzein a wellness and wine resort approx. two hour drive from Poznan, Poland. Originally built in early 1900s it is very nicely renovated hotel & resort; includes conference center, bowling club, pub -



Winners – Bowling tournament

restaurant, horse & carriage stables, vineyards & more. The two day program consisted of rotomoulding related technical & business presentations; a table-tops exhibition; workshop and Q&A session; a gala dinner on the first evening with an



Horse & carriage !

exciting bowling tournament. We also enjoyed the horse-carriage rides thru the beautiful expansive estate. Close to a 100 attendees from all over Europe far exceeded the original expectations of approx. 70. Some late registrants had to be turned away



Growth opportunities – Ravi Mehra



Gala dinner – Marek, Barbara & Manju

due the lack of hotel rooms. The presenters were from Poland, Italy, Germany, U.K., Belgium and as far as S. Africa and USA. The presenters from Poland Prof. Marek and his past student Dr. Krzysztof Nadolny had very interesting topics, specially a case study on “strength analysis of big tanks – design optimization”. I was given the privilege to be the first speaker on “tanks & containers for the chemical & processing industry”.

The Table Top exhibition had nine supplier companies exhibiting e.g. DRAM, Caccia, Persico, and Polivinil from Italy, Maus, and Deifel from Germany, Matrix – UK, Total - Belgium, and Roto solutions – S.A. The highlight of the conference was the bowling tournament after the gala dinner on first night, that went on late in the night with libations for fuel. There was plenty of time for networking – a major benefit from these conferences. Dram Srl from Italy was the general sponsor of this conference. Strategic sponsors were Matrix, Persico, and ICO Polymers; thank you all! Congratulations are due to the organizers - Prof. Marek Szostak, Anna Walorek and her VALOR team for an exceptional event.

RAVI MEHRA

ARMO Chair

maramehra@aol.com

STAYING INVOLVED IN ROTOMOULDING DEVELOPMENTS



The future of Rotomoulding in India indeed is very bright. So many types of products have an advantage when manufactured by the process; eg Water tank, Milk can, Diesel tank, Expansion Tank, Road Divider, Air Duct, Mudguard of car, Pallets among others.

The concept of water storage saw a revolutionary change from the days of RCC and MS Tanks. Significant contributions still remained to be made through innovative ideas and efficient after – sales service.

Several moulders including us stayed involved in related research and development to upgrade products from

the usual two layered tanks to multi functional layered tanks, to meet the growing needs of customers. The monotony of ‘Black’ was broken and “Colour” brought in to suit aesthetics. It was important to ensure that the colour did not fade over time.

In order to enable water to retain its normal temperature in all conditions the concept of ‘Foam Insulation’ was introduced. Yet another innovative idea was ‘airtight’, ‘autolocking’ ‘foam insulated’ lid which fits securely at the top. It prevents dust and insects from entering. This ensures total insulation of the tank..

In last two years Blow Moulding water tanks created some disturbance in the market due to lighter weight and lower cost, than Rotomoulding. But quality products like Foam Insulated tank and Four to Five layer tank are only possible in Rotomoulding.

Market reports on the new competition now indicate that the demand for Rotomoulded Tank are likely to grow as customer preference is based on quality consciousness.

H. R. BOTHRA

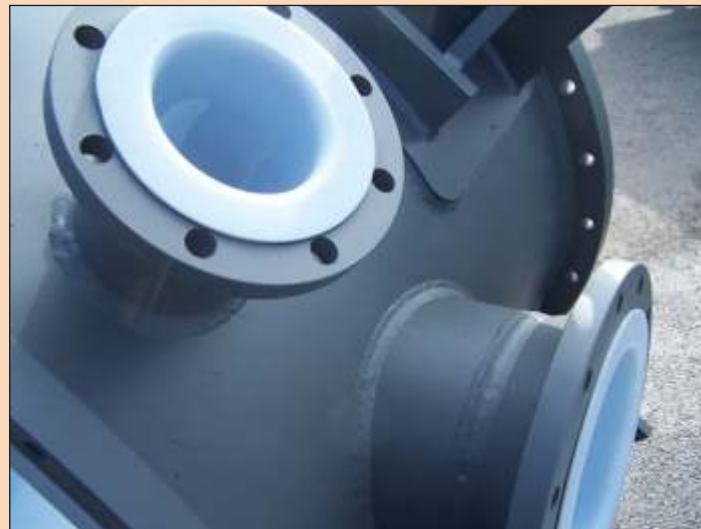
Balaji Rotomoulders Pvt Ltd

hr.bothra@polyfoamtanks.com

UMAKANT'S TECHNOLOGY CORNER

UNDERSTANDING THE RAW MATERIAL PROPERTIES

In recent years lots of imported grades of polymers are arriving at the Indian ports. Growing demand of the LLDPE is not being met by local producers during the peak period. Sometimes due to cheaper rates offered by importers the moulders are opting for the imported grades. In this new trend here is a word of caution for rotomoulders and powder suppliers.



Rotolining

All roto grades are not suitable for all the applications. Materials with the same MFI and Density can have significantly different performance properties when moulded. Basic manufacturing process of PE (i.e. molecular weight distribution, branching etc.) and that of additive system (i.e. antioxidant, UV stabiliser etc.) will have a profound effect on long term performance of the the product.

Often we receive calls from dealers offering the new imported grade and when we ask about the datasheet the immediate reply comes “Don't worry, so and so is molding it successfully”.

For some sellers mouldability is the only criteria, but for moulders it cannot be the only criteria.

Moulders must find out and confirm the suitability of the material grade for their product, ultimately he is responsible for the quality & performance of the product and commitments made to customers.

Similar is the situation with the reprocessed material grades, coming from all over the world and available locally. Most of the time the source is unknown, datasheets are not available; only mouldability is the criteria.

Extrusion or injection moulded grades with similar MFI do not have the thermal stability (antioxidant package) required for long heating cycles of rotomolding.

Some times tensile strength is very low or impact is low. How can one use the material without knowing the basic properties required for final product performance?

New innovative Product Development

Diminishing margins in the tanks market are of significant concern for all involved. New rotomoulded products, other than tanks, are in early stages of development & acceptance. It's making difficult for local rotomoulders to invest in new technologies for new markets requiring significant learning and resources.

Need of the hour is good value added product development. Rotomoulders will have to be creative and innovative to develop new products. If they see opportunity for profitable business they will definitely go for the new & better technologies; just like other matured industries like injection moulding have done.

Acquiring new Technologies

StAR has played a big role in this regard for the rotomoulding industry in India from its inception 10 years ago. Its conferences have become global, attracting industry experts, providing a platform for networking and knowledge transfer, to access technologies for the Indian rotomoulders from all over the world. This initiative has already encouraged a number of new product developments and technology transfers to industries like automotive, infrastructure, underground & septic tanks, manholes, furniture, fuel tanks, toys & playground, etc.

Rotomoulders will have to acquire new technologies to enhance their capabilities to

offer the customer a total solution, not just a rotomoulded product, to get better margins and profitability and customer loyalty and security. There is a lot of scope here for technical collaboration with other industries.

All these new product developments will require lots of related supplies and technologies to make it happen to full growth potential. Some are industry specific like chemical industry - Indian chemical industry is growing at 11 to 12% currently and going to be a prime manufacturing sector for long time. Rotomoulding has lots of attractive products & solutions to offer to this industry. Rotolined pipes, tanks & connectors offer very attractive solution against hazardous & corrosive chemicals for storage, handling & processing.



Process Control

This is tremendous opportunity as very few rotomoulders in

India are offering these products presently. To approach this opportunity correctly for assured success requires lots of expertise and experience; this can be best addressed by technology transfers and collaboration with existing global players. India is becoming an export hub for Automobile and Engineering industry, which demands lots of rotomoulded engineered plastics components. Technical rotomoulding is not possible without precise process control and quality assurance tools. Lots of technologies and systems are available that need to be redesigned to suit Indian conditions. Pricing and service will be the key area. With fastest growing urban population in India, shopping malls, recreational activities, five star hotels and the like are rapidly growing.



CNC Moulds

Rotomoulded decorative lights, planters, furniture, playground equipment, large toys etc. are becoming attractive consumer items. These products requires attractive designs and good surface finishes and aesthetics. Good quality aluminium moulds (cast or machined) can serve the purpose adequately. Very few mould suppliers are offering this in India. Lots of moulds are currently being imported from China, due to cost & availability. Industry in India requires local suppliers offering quality moulds with minimum lead times. Many products demand beautiful graphics, permanent labelling for branding. Presently nobody in India offers these mould-in / mould-on graphics locally.

In a nutshell, understanding the raw materials, developing new innovative products supported by technologies available locally will be the key for future rotomoulding in India.

UMAKANT SAVADEKAR, Heera Roto
umani77@yahoo.com

WEBINAR ON PLANT SAFETY



Think Safe...
Work Safe...
Be Safe

The importance of Plant safety can never be emphasized more for our industry, than against the background of the recent unfortunate experience of one of our members. It is not the purpose here to finger point at any negligence on the part of anyone, but to lay stress on the uncompromising necessity to conform to basic norms of safety.

A Webinar is probably the most appropriate medium to closely involve a wide section of our industry to understand all the critical aspects of a subject like Plant Safety. This is so because every aspect will need a separate webinar for a thorough discussion. Only an online format can be affordable for the participants to reconvene again and again.

So the Webinar has been chosen as the format to discuss these important aspects of Plant Safety

- Raw Material handling and storage
- Extrusion and Pulverising
- Mould release agent and baking
- Moulding Process
- Fuel storage and fuel supply lines
- Handling of Moulds
- Electrical and others

RAPHY JOHN

Evolve Polymers

raphyjohnarakal@gmail.com

ROTOMOULDING CALENDAR

EVENT	DATE	VENUE
ARMSA - Rotation	28th - 29th May, 2014	Capetown, South Africa
ARMA - Rotomould	22nd - 24th June, 2014	Sydney, Australia
Kochi Seminar Cum Regional Meet	5th Aug, 2014	Kochi, India
Mumbai Seminar Cum Regional Meet	7th Aug, 2014	Mumbai, India
ARMA - Rototour 2014 South America	28th September - 9th October, 2014	South America
ARM - Rotoplas	7th - 9th October, 2014	Chicago, IL, USA
STAR 2015 Conference	2, 3, 4 Feb, 2015	New Delhi, India

ADVERTISE IN ROTOTALK

for both National & Global Roto industry exposure.

Tariff:

Size	Rates
Back Page	: Rs. 25,000
Full Page	: Rs. 15,000
Half Page	: Rs. 10,000
Quarter Page	: Rs. 6,000

Multiple issues contract will be allowed a 15% discount.
(Minimum of 3 insertions)