

ROTOTALK

Quarterly Newsletter of Society of Asian Rotomoulders

Editorial Comment

Fingers were well and truly crossed when we moved StAR's 13th Annual conference away from the established triangle of Delhi, Mumbai and Goa to a new fourth venue - the historical North Indian city of Jaipur. In the end the conference and the trade show came in for high unanimous praise from all those who participated. Thirteenth had actually turned out to be lucky as conference content, format and venue were highly appreciated by all.

Dear Reader,

There is only one way of assessing the success of the recent StAR conference in Jaipur as far as our region is concerned. It is in terms of the impetus it provides to activities of our association in the year that follows, and the lessons which our industry draws from all the knowledge and information which flowed during the three days of the conference.

The conference itself could not have been more timely because of the expected revving up of our national economy following whatever unwelcome effects of demonetization. The end of that impact coincided with the holding of the StAR Conference. Happily the just released vital indices of our economic trends do not indicate much of a dent from the invalidation of the two high denomination currencies.

For an industry like ours where qualitative changes are technologically driven it will be so much easier to implement new ideas at a time of upswing of economic sentiment. So the ideas taken to the factories from the conference are sure to find very congenial conditions in the present environment.

As far as StAR activities are concerned new ideas had flowed thick and fast when major member companies of the industry who were StAR conference attendees were invited for discussions with the StAR Board following the conference.

Such interactions along with the other developments augur well for an eventful year to come.

Ashish Baheti
StAR President

SB Zaman
StAR Exec Director

StAR & Conference Chair Ravi Mehra -

IF I MAY SAY SO MYSELF

Jaipur conference rates high for all StAR annual conferences presentations were top notch and focused on the Indian opportunities & solutions. Keynote address by Philippe Montagne of Total was most informative about global markets and affirmed Total's commitment to India for the next decade and longer. Eric Maziers presented that the time was right for mass production of rotomoulded fuel tanks in India; materials and automated production technology is available now. PSD Rotoworx offered a new cost attractive PP compound for rotomolded products that opens tremendous new markets. Celal Beysal's presentation "rotomolding for automotive OEMs" received the highest rating from the attendees. Roto Rocket by 493 K demonstrated visible rotomolding in a glass mold created a real buzz. Dr. Sachin of BITS Pilani Goa presented testing and other service capabilities that can be offered to the rotomoulders in India received a positive response. StAR & BITS together are launching a joint program to setup a rotomolding knowledge center at the Goa campus!

Tradeshaw with 15 exhibitor booths, 8 from companies outside India kept a busy traffic thru out the three days. Tradeshaw has become a key value feature of our annual conference.

Most attendees staying at the venue hotel made for exceptional networking opportunity and business discussions. Automotive, infrastructure and engineered products / custom solutions, including with non-PE materials, offer the greatest business incentives. Rotomolding industry in India is now in a high gear and the fastest growing in the world if I may say so myself!

StAR 2017 CONFERENCE IN NUMBERS





Conference Attendees



Materials Masterclass Seminar



Total booth

Jan 28

The Prelude which set the stage for StAR's 13th Annual Conference was in the form of:

1. Day long Jaipur sightseeing trip. It was a tour of some of the main monuments for which Jaipur is so famous. Included were lunch and shopping
2. Star Board Dinner which also hosted international speakers who had arrived for the conference



Registration

Ravi, Tony & Gary



Raphy, Kiruba, Laurance & Nicola



Seminar Attendees



Swetang receives certificate from Gareth



PSD Rotoworx booth



Gary at his Seminar

Matrix Polymers booth

EXHIBITORS

- Mplast, India
- Total Petrochemicals & Refining, Belgium
- Maag Automatik GmbH, Germany
- P D Polygrinders, India
- PSD Rotoworx, Australia
- Omega Plasto Compounds, India
- Prayag Polytech, India
- Shanghai Chunxu Molds Industrial, China
- Wenling Rising Sun
- Rotomolding Technology, China
- Shri Sugan Traders, India
- Reinhardt Roto Machines, India
- Matrix Polymers, UK
- Rotosolutions, South Africa
- N.A Roto Machines & Mould, India
- ML Industries, India

Jan 29, Day 1

With good camaraderie established the previous day, the conference launched into its first day consisting of:

Seminars, Tradeshow and "Gala Dinner with Awards & Entertainment"

The Registration Desk opened on schedule and attendees proceeded to their choice of two seminars being held simultaneously :

The Materials Masterclass - demonstrations using glass mould on bench top moulder Jointly by Dr. Gareth McDowell, 493K - UK and Dr Nick Henwood, Rotomotive – UK



Barbara dances – Kachhi Ghodi Style



Lunch time Networking



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A CONFERENCE TO REMEM

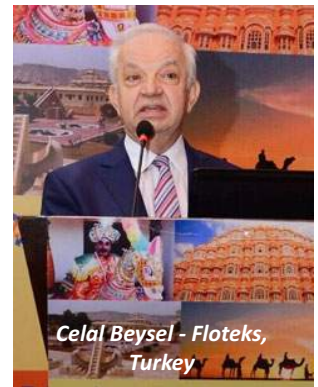
SPEAKERS & I



Philippe Montagne, Total Petrochemicals

Philippe Montagné is Vice President of the Polymers Orient Division of Total Petrochemicals based in Hong Kong. He delivered the **KEYNOTE ADDRESS** of the conference on **Outlook of Global Petrochemicals Industry – Challenges And Opportunities**

What You Should Know & Consider before Rotomoulding for Automotive OEMs by Celal talked about the conditions to enter automotive sector as a rotomoulder, production techniques, raw materials, certificates needed, quality control, quality assurance demands, ERP system and the need for R & D.



Celal Beysel - Floteks, Turkey



Diana Ng, Matrix Polymers, Malaysia

Expanding The Horizon of Rotomoulding by Diana was on the "Designed for Roto" programme, under which Matrix Polymers develops materials uniquely for the rotomoulding industry; being focused on delivering solutions for customers. Expanding the horizon of rotomoulding by learning how to use materias other than PE which can add value to rotomoulded products and expand the product range.

Co-Design For Global Quality - Case Study by Balbir dealt with a project of ab - initio co-designing of total plastic cabin interior as part of a strategy of "one brand - one global quality ". He traced the evolution of the project from the concept to part design, tool design and final manufacture, highlighting the nature of inputs from each participating team.



Balbir Bhasin, Simplast-India.



Eric Maziers, Total Petrochemicals and Refining, Belgium

A Bright Future For Rotomolded Fuel Tanks - Sustainable Mass Production In India by Eric looked at how India's fast growing automobile market can generate huge opportunities for material and equipment suppliers, an obvious opportunity for the rotomolding industry - the fuel tank - Are there materials to sustainably produce fuel tanks, - Can the industry reach high productivity levels

"The Matrix" as a Method Developed For Optimization Of Roto Machines and Eliminate Costly Standing Time by Gary was on how once machine is balanced we extend "The MATRIX" to the entire plant. It is a "Simple but Smart" form of Lean Manufacturing, specific to the Roto Moulding Industry. Simply put, it focuses on the Oven, Cooling and Demoulding to enable the machine to rotate smoothly and efficiently



Gary Lategan, Roto Solutions, South Africa



Roger Goris, PSD ROTOWORX, Australia

New Polypropylene Compound Competitively Bridging Gap Between PE And Engineering Resins In Roto by Roger highlighted the technical advantages of this new PP compound for rotomoulding. It outlined how economic barriers for roto PP grades have been removed allowing PP to be competitive in demanding applications.

Practical Tips For Effective & Efficient Cooling In Rotomoulding by Martin looked at why products distort and warp and how faster more effective cooling can help solve these problems and produce better products. Martin looked at the background and theories; also offered practical tips to improve your cooling



Martin Spencer, Unique Roto, UK



"Kachhi Ghodi Welcome Dance"



Gold Sponsors



MEMBER - PHOTO FEATURE

PRESENTATIONS



Sachin Waigaonkar, BITS Pilani Goa, India.

Testing Capabilities at BITS Goa For Rotational Moulding Industry By Sachin was on the need to maintain a desired level of quality in RM products, by cautious testing.. He shared the testing capabilities & services which BITS Goa plans & hopes to offer.



Umakant Savadekar, Phychem Technologies, India

Current Scenario Of Indian Rotational Moulding Industry... by Umakant covered how Indian Roto Industry is adopting to the new technologies in moulds, machines, raw materials ... etc. To move ahead & to consolidate the growth, industry must develop product development strategies



Blaise Costabir, GMI Zarhak, India

OEE - Overall Equipment Efficiency by Blaise looked at efficiency differently and is a part of the concept of Total Productivity Maintenance (TPM). Usually efficiency is defined as output/input. Under OEE, one looks at the components of efficiency



Les Druyf – ICO Polymers / A Schulman, UK

"Service Temperatures For Rotomoulding Polymers" by Les discussed continuous and peak temperatures for specialty materials - roto grades; and outline examples of product usages.



Dhananjay Sahoo Indian Oil Corp Ltd, India

"Value Added LLDPE For Rotational Moulding In Emerging Applications" by Dhananjay was about LLDPE being the most preferred material of choice for rotational moulding applications in India and abroad. However, further modification in molecular architecture and morphology is possible..

Getting Back To Basics Of The Moulding Process With A Look Inside The Mould by Gareth demonstrated his bench top moulding machine and showed that getting back to the basics of rotomoulding can help to choose the best material & process conditions for your products & production.



Dr. Gareth McDowell, 493K - UK

Stiffness Models For Multi-Layer Rotomoulded Parts by Nick was on multiple layers of materials which are often used to provide rotomoulded parts with enhanced stiffness with minimal weight increase. Skin / foam / skin is a typical material combination that is used.



Dr Nick Henwood, Rotomotive Limited, UK

Specific Mould Release Solutions For Fuel Tanks by Tony was on manufacturing and servicing high performance release agents. Chem - Trend is recognised as a global leader in the development and production of Surface Chemistry solutions used in manufacturing, including in Rotational Moulding



Tony Mercieca Chem-trend, Australia

Linal Amalraj was Co - presenter for Chem -Trend



L Amalraj Chem-trend, India

Alexander presented on Efficient Conversion from Polymer Granules to Powder With Modern Pulverizing Systems which covered Introduction of the company, Typical applications for a pulverizer with special focus on the demands in Rotational Molding and other aspects.



Alexander Datzinger, Maag Automatik GmbH, Germany



"Chari dance" at Gala Dinner



Singing sensation of the evening Mamta Joshi

Poolside Ambience - Suppliers Dinner

New Products : Research – Design implementation

by Martin Spencer, Unique Roto – UK

The Joint seminar was held for the full day. The other seminar was half day and it was followed by another half day seminar :

Ten best take home ideas / practical suggestions to improve your Process, Production, Quality & Efficiency !

by Gary Lategan, Rotosolutions - South Africa The Trade show with 14 Octanorm booths and a Tabletop opened immediately after the Seminars. Leading Indian and international supplier companies were exhibitors The evening Gala Dinner in beautiful poolside ambience brought on a variety of entertainment along with cocktails. From traditional "Kachhi Ghodi" Welcome dance to the thrilling "Chari" and "Ghoomar" dances - all authentic Rajasthani. While some of the feats performed by these dancers took the breath away from the excited audience the icing on the cake was provided by famous Indian Sufi - folk and popular singer Ms Mamta Joshi. It was hard to keep away from the dance floor with the gifted singer combining the earthy with the mellifluous. In between the traditional dances and the songs the sponsors of the conference were recognized and presented with appreciation awards.



R P Shukla Speaks after Appreciation

Reinhardt booth



The Profs - Marek of Poznan & Sachin of BITS



Roto Genext – young ladies Divya & Sherry

CONFERENCE FEEDBACK

It has been a real pleasure to spend some time with the Indian ROTO association and industry, and more specially in the super nice city of Jaipur..... India can develop a high-end ROTO business. - Philippe Montagne, Total Refining & Chemicals, Hong Kong

The level and class of many of the presentations was very high... As always a super conference - Dr Gareth McDowell, 493K, UK

There are so many good reasons to come back to India time after time

My first visit to India was nearly twenty years ago. During this time period, I have seen the technical progress made in the plastics industry in India: it is amazing - Roger Goris, PSD Rotoworx, Australia

I love the enthusiasm your delegates have. This is encouraging for the future ; it shows that they want to learn and develop - Tony Mercieca, Chem - Trend, Australia

It was a great leaning and eye opening experience from rotomoulding industry perspective - Shibu Clement, BITS, India

Jan 30 & 31

Day long Conference Presentations on 30th & 31st Jan, Evening Suppliers Networking Dinner with Entertainment on Jan 30, and the StAR Board Meeting with Invitees on 31st Jan afternoon kept the busy schedule of the conference going at admirable pace.

GRACIOUS SPONSORSHIPS WHICH MADE IT ALL POSSIBLE



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Gold - Prayag



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Higher UV RESISTANCE?

FOAMING?

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N.A. Roto Machines & Moulds India

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Phone : +91-79-25840374, +91 9825031748 | E-mail : info@naroto.com, ria@naroto.com

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Editorial Contributions can be sent to S.B. Zaman, Executive Director, StAR, Email: sbzamanp@gmail.com

StAR 2017 PARTICIPATING COMPANIES

INDIAN MOULDER COMPANIES

- 1 Arihant Industries, Mumbai
- 2 Carris Pipes And Tubes , Cochin
- 3 Consta Cool, Ahmedabad
- 4 Electo Plast & Chemical Industries, New Delhi
- 5 Evolve Polymers, Thrissur
- 6 Frontier Polymers , New Delhi
- 7 GMI Zarhak Moulders, Goa
- 8 Harshdeep Roto Products, Thane
- 9 Heera Rotopolymers, Jalgaon
- 10 Ideal Polytechnologies Coimbatore
- 11 K K Nag, Pune
- 12 Kentainers India, Chennai
- 13 Laxmi Narayan Industries, Pune
- 14 Nircon Polymers Pvt. Ltd, Jaipur
- 15 OK Play, Delhi
- 16 Plasticpack, Mumbai
- 17 Promens ndia, Ahmedabad
- 18 Roots Multiclean , Coimbatore
- 19 Simplast India , NOIDA
- 20 Sintex Industries, Kalol
- 21 The Supreme Industries, Mumbai
- 22 Vectus Industries , NOIDA

INDIAN SUPPLIER COMPANIES

- 1 Alok Masterbatches , New Delhi
- 2 Chem -Trend India, Bengaluru
- 3 Cytec Solvay Group, Mumbai
- 4 GAIL India , NOIDA
- 5 GreenAge Industries, Ahmedabad
- 6 Indian Oil Coporation, New Delhi
- 7 Ingenia Polymers India, Mumbai
- 8 Maag Automatik Dover India, Mumbai
- 9 Matrix Polymers India, Mumbai
- 10 ML Industries, New Delhi
- 11 MPlast India , NOIDA
- 12 N.A Roto Machines & Mould, Ahmedabad
- 13 Omega Plasto Compounds, Vadodara
- 14 P D Polygrinders , Ahmedabad
- 15 Phoenix Global, Mumbai
- 16 Phychem Technologies, Nashik
- 17 Prayag Polytech, New Delhi
- 18 R.R. Plast Extrusions, Mumbai
- 19 Reinhardt Roto machines, Vadodara
- 20 Reliance Industries Ltd, Mumbai
- 21 Shri Sukan Traders, New Delhi
- 22 Swastik Rotomatic, Solapur
- 23 Total Petrochemicals & Refining India, Mumbai
- 24 Vinodrai Engineers, Jalna

OTHERS

- 1 BITS Pilani Goa Campus, Goa
- 2 Design Directions, Pune
- 3 Shri Krishna Engineering Works, Pune

INTERNATIONAL MOULDER COMPANIES

- 1 Flo -Tek Pipes & Irrigation, Botswana
- 2 Floteks a.s , Turkey
- 3 Gazi Tanks, Bangladesh
- 4 Harlequin Manufacturing, UK
- 5 Kentainers, Kenya
- 6 Meerqat Polymers, Qatar
- 7 UniqueRoto, UK

INTERNATIONAL MOULDER COMPANIES

- 1 493K, UK
- 2 A. Schulman Gainsborough, UK
- 3 Chem-Trend, Australia
- 4 Gala Industries Inc, USA
- 5 Maag Automatik GmbH, Germany
- 6 Matrix Polymers Malaysia
- 7 Norstar International USA
- 8 PSD Rotoworx, Australia
- 9 Roto Solutions, South Africa
- 10 SCG - ICO Polymers, Thailand
- 11 Chunxu Moulds, China
- 12 Total Petrochemicals & Refining, Belgium
- 13 Wenling Rising Sun Rotomolding Technology , China

OTHERS

- 1 Rotomotive, UK
- 2 ROTOPOL Association, Poland



StAR Board meeting with Invitees on Jan 31

FORTHCOMING EVENTS

DATED	VENUE	EVENTS
Mar 8 - 9, 2017	South Africa	Rotation Conference
Mar 17 - 28, 2017	Beijing, Shanghai, Guangzhou, Zhukai – China	Rototour China
Mar 26 - 28, 2017	Royal Gahanna Resort, Maui, Hawaii, USA	ARM & ARMA Joint Executive Forum
May 8 -10, 2017	Anaheim, California, USA	ANTEC 2017, The Plastic Technology Conference of SPE
Jun 25 – 27,2017	Melbourne, Australia	ROTOMOULD 2017
Sep 26 – 28, 2017	Donald Stephens Convention Center Chicago/Rosemont, IL	ROTOPLAS 2017

StAR HEARTILY WELCOMES ITS NEW MEMBERS

Company	Category	Primary Contact
Swastik Rotomatic, Solapur	Supplier	Ujwal Bagadi
Plasticpack, Mumbai	Moulder	Munjal Kothari
ML Industries, Delhi	Supplier	Dinesh Aggarwal
Laxmi Narayan Industries, Pune	Moulder	Ramesh Godse
Nircon Polymers, Jaipur	Moulder	Raj Kumar Jain
Shri Krishna Engineering Works, Pune	Consultancy	Dinesh Ganeshwade

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Tarrif

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(minimum of 3 insertions)

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Editorial Contributions can be sent to S.B. Zaman, Executive

Director, StAR

Email : <sbzamanp@gmail.com>