

NRC MUMBAI 2019

*"CIRCULAR ECONOMY, RECYCLABILITY & SUSTAINABILITY  
OF THE RUBBER INDUSTRY – A NEW PARADIGM SHIFT"*



**NATIONAL  
RUBBER  
CONFERENCE  
MUMBAI - 2019**

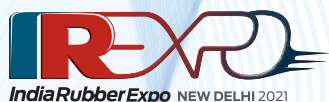
**30<sup>th</sup> SEPT 2019**

**&**

**01<sup>st</sup> OCT 2019**

*Hotel Grand Hyatt, Mumbai*

*A SPECTRUM OF*  
**OPPORTUNITIES.**



# About NRC

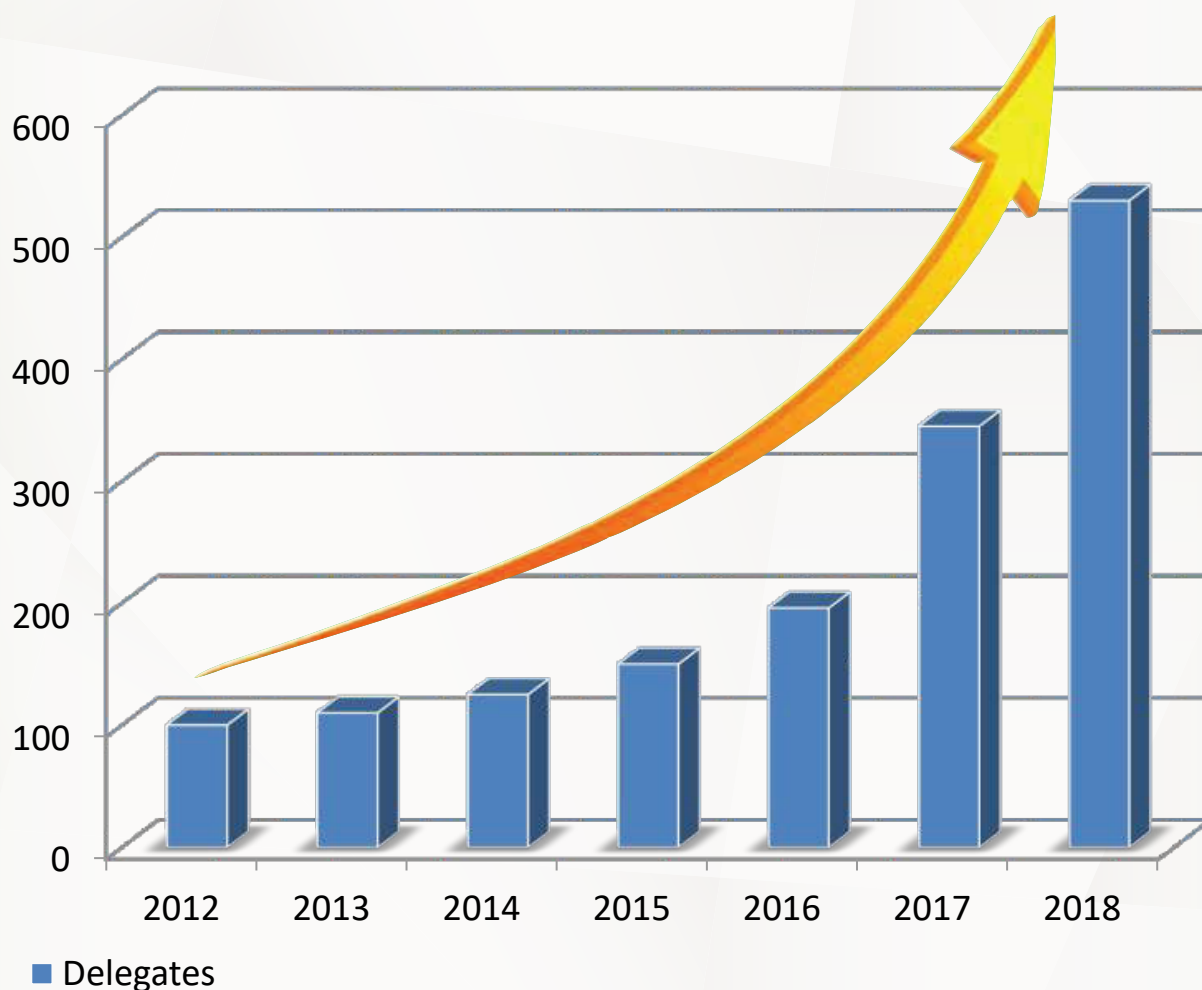
*NRC is an initiative of All India Rubber Industries Association (AIRIA) since 2012 to conduct program for the industry on recent developments on raw materials, machinery, processes and industry trends. The event covers technical and commercial topics. The event is conducted annually in different region of the country from time to time.*

*The Indian rubber industry is on a growth trajectory and likely to grow in double digit YOY in the coming decade. It is two days Mega Event wherein we will have Technical as well as a few Non technical presentations by Eminent Speakers from India and Overseas.*

*NRC brings together delegates from Industry, Government agencies, Related Industries and Academia for further understanding and developing the Indian Rubber Industry.*



# History of National Rubber Conference



*AIRIA initiated the National Rubber Conference (NRC) in 2012, which continued to be an annual event . NRC 2019 will be in th 8 in its series.*

*The National Rubber Conference signified the emergence of the Indian Rubber Industry on the world stage with advanced technology and competitive rubber products reaching many countries across the globe.*



NRC 2019







**Mr. Shashi Singh**

Chief Convener - NRC 2019

## Message from the Chief Convener

National Rubber Conference (NRC) under the wing of All India Rubber Industries Association (AIRIA) is India's leading platform for rubber conference and successfully running for 8th straight year. This reputation has not been achieved by accident. NRC brings together delegates from Industry, Government agencies, Related Industries and Academia for further understanding and developing the Indian rubber industry.

It is my honour and privilege to have been appointed by the AIRIA (WR) committee as the Chief Convener for the NRC (WR) being held in Mumbai. We have a dedicated team which is focusing collectively to make NRC (WR) 2019 a Mega Event

The theme of this year's event is "Circular Economy, Recyclability & Sustainability of the Rubber Industry-A new Paradigm Shift" – and it certainly mirrors India's focus on growing its manufacturing sector in competition with the major economies of the world. It is without doubt that we are living in a world increasingly characterised by VUCA (Volatility, Uncertainty, Complexity & Ambiguity), and India is no exception. However, these challenges will also create opportunities as people, firms, industries and economies alike are forced to innovate to stay ahead of the curve. Advances in technology have never been as rapid as they are today, and successful adoption of these advances will be crucial as our industry progresses.

It is my belief that the next decade will be a transitional period for the Indian rubber industry, and we will have to deep-dive and form strategies to ensure long-term sustainability in growth. The possibilities are endless. Indian rubber industry has many positive strengths. The quality of Indian rubber products has been globally accepted as exports have been growing at more than 20% YOY for the past more than 10 years. However, the rubber industry is faced with many challenges. Increased imports due to inverted duty structure are harming the industry which needs to be addressed. More focus is needed from policy makers to help the industry tide over the crisis caused by free import of rubber products. High interest costs are leading to slow shift in high-technology equipment. We have curated a diverse range of topics addressing these issues and opportunities for you over the next two days, and we hope to facilitate a healthy debate and exchange of ideas amongst the various stakeholders in our industry. We will once again celebrate the camaraderie we share.

I extend my gratitude to the organising team for working tirelessly to make this event a success and hope you enjoy the conference!

**Mr. Shashi Singh**

Chief Convener, NRC  
Vice Chairman WR



# NATIONAL RUBBER CONFERENCE 2019

## CORE COMMITTEE

**Mr. Vikram Makar**

*President, AIRIA*

**Mr. Vinod Bansal**

*National Convener, NRC & Events*

**Mr. Shashi Singh**

*Chief Convener, NRC | Vice Chairman WR*

**Mr. Umesh Dhruv**

*Chairman WR, AIRIA*

**Mr. Vishnu Bhimrajka**

*Managing Committee Member*

**Mr. Rasesh Shah**

*Convener, NRC*

**Mr. Soumil Shah**

*Convener, NRC*

**Mr. Prashant Wani**

*Convener, NRC | Pune Chapter Chairman*

**Mr. Mazhar Vohra**

*Hon Member & Past President -AIRIA*

**Mr. Yogen Lathia**

*Past President -AIRIA*

**Mr. Niraj Thakkar**

*Past President -AIRIA*

**Mr. Dharmesh Dhanani**

*Vice Chairman WR*

**Mr. Ravindra Barde**

*Vice Chairman WR*

**Mr. Rajendra Shah**

*Managing Committee Member*

**Mr. Siddharth Bhimrajka**

*Managing Committee Member*

**Mr. Vinod Patkotwar**

*Editor, Rubber India*

**Mr. Bharat Relan**

*Managing Committee Member*

**Mr. Rajesh kothari**

*Gujarat Chapter Chairman*

**Mr. Yazdi Patel**

*Member, AIRIA*

**Mr. Vishal Makar**

*Member, AIRIA*





# NATIONAL RUBBER CONFERENCE 2019 COMMITTEE



Mr. Pratik Relan  
Mr. Urnil Dhruv  
Ms. Prajakta Kotasthane  
Mr. Sachin Patkotwar  
Mr. Abhilash Kuruvayil



Mr. Milind Joshi  
Mr. Gaurav Shah  
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Mr. Rajiv Bansal  
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Mr. Kishor Katkar  
Dr. K. Rajkumar  
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Mr. Kishore Keswani  
Mr. Rajni Changela  
Mr. H. S. Chitkara  
Mr. Mitesh Shah  
Mr. Pratik Shah  
Mr. Ramprasad Das



# SOME KEY PAPERS



01

## International Rubber Study Group

*Global Rubber Economy: Towards a Sustainable Future*

02

## CA Govilkar and Associates

*Recession or slow down in India?*

03

## ICIS Consulting

*"Global/India Butadiene Outlook and Opportunities in India for Butadiene Derivatives"*

04

## Performance Speciality Products India Pvt. Ltd.

*Performance Speciality Products India Pvt. Ltd.*

05

## Lord India Pvt Ltd

*Environmentally Preferred Chemlok Adhesives as a Green Initiative*

06

## IIT, Kharagpur

*Finite element analysis as a sustainable tool toward global rubber business challenges*

07

## Naval Materials Research Laboratory Ambarnath (NMRL)

*Rubber for Defense - Improvements on existing and futuristic*

08

## IR Tubes

*"Introduction to Restrictive and Regulatory requirements for ROHS - REACH - CAL 65."*

# ENGAGING MINDS, EMPOWERING SUCCESS!

For more details please register today



# SOME KEY PAPERS



09

## Indian Rubber Manufacturers Research Association

*IRMRA's annual Technical service for MSME sectors benefit*

## Rubber Board

1. Carbon Black/Silica
2. Latex Master Batch and Devulcanization of End-of-Life-Cycle Rubber Products

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## The Chemours Company

*New Viton™ FKM with Improved Dynamic Properties to meet Current and Future Automotive Trends*

## Reliance Industries Ltd.

*Butyl Rubber applications beyond Tyre & Tubes*

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## MCKV Institute of Engineering

*Devulcanization to Revulcanization: A Sustainable Approach to Solve the Disposal Problem of Waste Tire*

## The Automotive Research Association Of India

*The Automotive Research Association Of India*

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## Quantum Leap Consultants

*Electric Vehicles - Market Trends, Regulations, Challenges & Opportunities with respect to Rubber Industry*

## Teijin India Pvt. Ltd.

*Case studies on Aramid applications*

16

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EMPOWERING SUCCESS!





# PANEL 1

## DISCUSSION

*The Way Forward For Indian Economy*

**Mr. Ashish Vaid**

*President, Indian Merchants Chamber*

**Prof. Ananth Narayan**

*Associate Prof. - Finance,  
S. P. Jain Institute of Management & Research*

# PANEL 2

## DISCUSSION

*Interactive Session - Challenges faced by Rubber Industry in the current economic scenario*

**Dr. Rajkumar**

*Director, Indian Rubber Manufacturers  
Research Association*

**Dr. James Jacob**

*Director, Rubber Board - India*



NRC 2019



# SOME GLIMPSE OF NATIONAL RUBBER CONFERENCE 2018 MUMBAI



20 Technical and Non-Technical presentations by Eminent Speakers from India and Overseas. Rubber fraternity across the Globe attends the National Rubber Conference, 2018 organised by **AIRIA - Western Region, Mumbai**

**500+**  
DELEGATES

Inaugural by the hands of **Shri. Ravindra Chavan** – Minister of State for Ports, Medical Education, Information Technology, Food and Civil Supplies and Consumer Protection, Government of Maharashtra.

**50+**  
PARTNERS





# NATIONAL RUBBER CONFERENCE 2019 MUMBAI

## OBJECTIVES

*The aim of the NRC is to bring together Rubber Fraternity to the advanced technology and innovations that are available throughout the world.*

*The object of conference is to present the New Developments in Technology, Product Innovation, New Launches, and Improvements in processing Technologies, Fuel and Energy, Challenges in Quality, Cost reduction, Availability of Raw Materials, Present Business Scenario with updated trends covering regulations and standards.*

*The event is one of the most comprehensive two days seminar which informs the RUBBERENTREPRENEUR not only on futuristic technical developments in the polymer industry but also requirement of rubber product industry now and in future as well as topics on strategizing decision of today for a successful tomorrow.*

## PLAN

*The National Rubber Conference 2019 is to be held on **30<sup>th</sup> September 2019** & **1<sup>st</sup> October 2019** at Hotel Grand Hyatt, Mumbai.*

*The theme for NRC 2019 : **'Circular Economy, Recyclability & Sustainability of the Rubber Industry - A New Paradigm Shift'**.*

*A Circular Economy is an economic system aimed at minimizing waste and making the most of resources. This regenerative approach is in contrast to the traditional linear economy, which has a 'take, make, dispose' model of production. In a circular system resource input and waste, emission, and energy leakage are minimized by slowing, closing, and narrowing energy and material loops; this can be achieved through longlasting design, maintenance, repair, reuse, remanufacturing, refurbishing, recycling, and up cycling.*

*Proponents of the circular economy suggest that a sustainable world does not mean a drop in the quality of life for consumers, and can be achieved without loss of revenue or extra costs for manufacturers. The argument is that circular business models can be as profitable as linear models, allowing us to keep enjoying similar products and services.*





## PARTNERS

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### PLATINUM PARTNER



### DIAMOND PARTNER



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Siddhi Glasto Private Limited  
Rubber Formulation Development & Manufacturing Corporation

SILVER PARTNER



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# NATIONAL RUBBER CONFERENCE

Circular Economy, Recyclability & Sustainability  
of the Rubber Industry – A New Paradigm Shift



NRC MUMBAI 2019

SEPTEMBER 30<sup>th</sup> & 01<sup>st</sup> OCTOBER 2019

Hotel Grand Hyatt, Mumbai

## Delegate Registration Form

Name of the Company: .....

Address: .....

..... GST no: .....

Name of the Delegates	Mobile Number	E-mail Address
1 .....	.....	.....
2 .....	.....	.....
3 .....	.....	.....
4 .....	.....	.....
5 .....	.....	.....

### - Delegate Fees -

	Upto-31 <sup>st</sup> Aug 2019	31 <sup>st</sup> Aug - 15 <sup>th</sup> Sept 2019	16 <sup>th</sup> Sept - 30 <sup>th</sup> Sept 2019
Members	Rs. 8,000/-	Rs. 10,000/-	Rs. 12,500/-
Non Members	Rs. 9,000/-	Rs. 12,500/-	Rs. 15,000/-
Students(Limited)	Rs. 2,000/-		
Foreign Delegates	US \$ 250/-		

\*The fees are inclusive of applicable tax.

Cheque to be in favour of “All India Rubber Industries Association - WR” is enclosed.

Cheque No ..... Dated ..... for Amount Rs .....

Drawn on Bank .....

Authorised Signatory .....

**PLEASE RETURN THE FILLED FORM WITH PAYMENT DETAILS  
TO THE SECRETARIAT** by E-mail or through Post / Courier

**GST No. 27AAACA7076R1Z1**

#### BANK ACCOUNT DETAILS FOR ONLINE TRANSFER

Beneficiary of the A/c: “All India Rubber Industries Association - WR”

Bank : Bank of India,  
Chakala Branch, Andheri East, Mumbai 400 099.

Current A/c No: 006720110000859

IFSC Code: BKID0000067

#### Ms. Chetna Bodke

Manager – Admin & Marketing

#### ALL INDIA RUBBER INDUSTRIES ASSOCIATION

B-601, Pramukh Plaza, 485, Cardinal Gracious Road,  
Andheri (East), Mumbai 400 099, India.

Tel: 91-22-2839 2095 / 2839 2107.

Mobile: +91 7045831221, Email: manager@allindiarubber.net

Web: www.allindiarubber.net





**NRC MUMBAI 2019**

***"CIRCULAR ECONOMY, RECYCLABILITY & SUSTAINABILITY  
OF THE RUBBER INDUSTRY – A NEW PARADIGM SHIFT"***

**30<sup>th</sup> SEPT 2019**

**&**

**01<sup>st</sup> OCT 2019**

*Hotel Grand Hyatt, Mumbai*

**ALL INDIA RUBBER INDUSTRIES ASSOCIATION**

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Web: [www.allindiarubber.net](http://www.allindiarubber.net)

