

# Mixing Technology Course

Sheraton Grand Bengaluru Whitefield Hotel & Convention Center,  
Karnataka, India. 22<sup>nd</sup> & 23<sup>rd</sup> November 2022



Supported by  
**HF Mixing Group**, Germany



**IRC**  
**2022**  
INTERNATIONAL  
RUBBER CONFERENCE

Sheraton Grand Bengaluru Whitefield  
Hotel & Convention Center, Karnataka, India.



Dear Sir / Madam,

We are pleased to inform you that International rubber conference organization (IRCO) and Indian Rubber Institute (IRI) are organizing IRC2022 during 24th to 26th November 2022 at Sheraton Grand Bengaluru Whitefield Hotel & Convention Center, Karnataka, India. The theme of the conference is “Sustainable technology, innovation and Mobility”.

The present members of the IRCO are Australia, Brazil, China, Czech Republic, France, Germany, India, Japan, Korea, Malaysia, the Netherlands, NGTR, Russia, Slovak Republic, Thailand, Turkey, UK and USA. The conference will be held on a rotation basis in all these countries. As a part of this mega event, Indian Rubber Institute (IRI) is organizing a Mixing Technology Course with the support of HF Mixing Group, Germany.

Mr. Ian Latchem, Mr. Alexander Quast and Dr. MN Aji are taking classes for the participants. The programme will be held on 22nd and 23rd Nov. 2022, Sheraton Grand Bengaluru Whitefield Hotel & Convention Center, Karnataka, India. The participation fee for two days programme is Rs. 20,000/- + GST for Indian participants and USD 350 for international participants. This will be a great opportunity for budding compound and mixing technologists to enhance their knowledge to perform better in their career. Requesting your participation in this programme to make it a great success.

Thanking you for your support.

**P. K. Mohamed**

Chief Convener

IRC2022, Bengaluru, India

## MIXING OF RUBBER COMPOUNDS

The goal of mixing is to provide rubber composites having useful performance and processing properties. It also must provide consistency and uniformity. Any short coming in the areas of a rubber compound mixing such as poor dispersion of all ingredient's, additives and also blending of a different grade of rubber used for compounding may be shown up in downstream processes and in service. This may lead to unacceptable level of rejections in downstream process stages and final products. It is of paramount importance that the mixing process must be optimized with respect to processing characteristics of the compound and its performance.

Speaker will cover these topics comprehensively during the seminar and panel discussion. The speakers may provide adequate technical and practical explanation of problems faced by manufacturing on mixing & subsequent processing.

## COURSE CONTENT

- Tangential mixing technology
- Intermix mixing technology
- Tandem mixing technology
- Kneader mixing technology
- Optimization of a mixing parameters
- Preventive maintenance parameters
- Troubleshooting
- How to improve rheological and failure properties of compounds through adoption of proper mixing technology
- Selection of mixing technology
- Industry 4.0 concepts in Mixing
- Silica Technology
- Mixing of Specialty Rubbers

There will be a panel of discussion participating best experts in the area of product and compound design and compound mixing.



**Mr. Ian Latchem**

Mr. Ian Latchem is the Regional Sales Manager – Farrel Limited, heading up the HF Mixing Group Sales Team in the UK. Current responsibilities also include servicing numerous Key Accounts, including customers in India. He has over 40 years of industry experience having started his engineering training at Farrel Limited in 1977, he has many years of experience in repairs, installation, and commissioning of various technologies of polymer processing machinery, including Tangential and Intermeshing mixers. Ian has travelled extensively, including living in Africa for 15 years, where he serviced the Farrel Limited and other major equipment manufacturers agencies. He has presented several papers at both National and International Conferences.



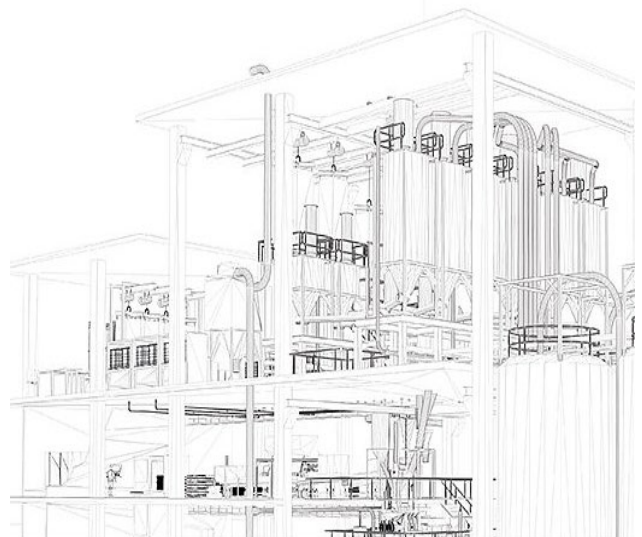
**Mr. Alexander Quast**

Mr. Alexander Quast is a System Solution Specialist in the HF Mixing Group. He has 19 years of experience in the Company and holds several important positions. As a Manager of the Technical Center at HF MG Germany, he has supported the Research & Development of various innovative developments. Since the beginning of 2018 onwards, he is worldwide working as a System Solution Specialist for Mixing Room Layout and throughput Optimization. He holds a Technical degree in Mechatronics as well as a further advanced degree in Electronics. He earned a very good reputation in the field of state-of-the-Art Mixing Room Solutions. He presented several papers at National and International conferences.



**Dr. MN Aji**

Dr. MN Aji is one of the well-known Mixing Specialists, with an abundant knowledge and skill in the field of Mixing Technology of Tangential, Intermeshing, Tandem and Kneader (UMIX). He is an expert in resolving issues related to internal mixers and mixing process. He is presently working as a Manager Process Technology, located at IUHF Bangalore / HF Mixing Group and active across the world. His qualifications are MTech in Chemical Engineering and Diploma in Polymer technology. He has completed 28 years of experience in mixing processes and maintenance of equipment. He has participated several National and International Seminars, Conferences and also conducted workshops in India and abroad.





## SESSION CHAIRMAN

**Mr. V K Misra**

Mr. V.K. Misra, a Technologist and Engineer by training has experience of 49 years in Tyre Industry. He started his career in Inchek (Now TCIL) as Management Trainee and is currently in JK Tyre & Industries, where he is working since last 32 years. He had extensive exposure in Germany on Design Technology through collaborations.

Mr. Misra is actively involved in various academic Institutions such as American Chemical Society, IRI and is presently functioning as Vice Chairman of IRI Governing Council and Chairman of IRI, Karnataka Branch. He has also functioned as CII - Exim award assessor and has participated as lead assessor assessment of leading organizations to evaluate compliance to Business Excellence Model of CII.

He is currently Technical Director of JK Tyre & Industries, responsible for overall control of Technology globally and supports Companies Expansion and modernization plans. He has played a key role in JK Tyre & Industries to spear head Radial Technology, a pioneering effort by JK Tyre in India.



## Dr. Burhan

More than 35 years in the Industry, Dr. Burhan has rich experience in Compound design, Compound & Process development for Mixing, Calendering, Bead Making, Extruding & curing. product development for aftermarket and OEMs and Manufacturing in India and Europe. He has worked as Material Research Engineer, Raw Material and Compound Development Chief (R&D), Compound and Process Development Manager, Technology Director and currently Technical Advisor @ JK Tyres & Industries Ltd.



## Mr. Bharat Patel

Mr. Bharat leads Process technology development in Upstream Processes Mixing, Extrusion, Calendering, Bead and Stock preparation areas. He expanded the area of expertise from Mixing Process to other critical processes and responsible for developing technological solution in Apollo Globally. Prior to this role Bharat was involved in improving the efficiencies in Mixing Process and having vast experience of mixing technologies with Mixers from 11D 2 Wing Rotors, 4 Wing Even Speed Mixer to Latest Tandem Mixing technology. He is also involved in digitization process of Mixing.



Date	Time	Subject	Speaker
22.11.2022	10.00 to 10.15	<b>Introduction</b> HF Mixing Group - The Company...	
	10.15 to 11.30	<b>Session 1 - Mixer &amp; Technology</b> Intermix, Tangential, and Tandem Mixer Technology	Mr. Ian Latchem
	11.30 to 11.45	Coffee Break	
	11.45 to 13.00	<b>Session 2 - Automation &amp; Technology</b> Mixer control systems / Development and Industry 4.0	Mr. Alexander Quast
	13.00 to 13.45	Lunch	
	13.45 to 15.45	<b>Session 3 – Processing – (Part-1)</b> Mixing Technology (Mixing of speciality Rubbers) Development in Tangential and intermeshing mixing	Dr. M.N Aji
	15.45 to 16.00	Coffee Break	
	16.00 to 17.30	<b>Session 4 – Processing – (Part-2)</b> Mixing Technology (Mixing of speciality Rubbers) Development in Tangential and intermeshing mixing	Dr. M.N Aji
	23.11.2022	09.30 to 11.00	<b>Session 5 - Mixer &amp; Technology</b>  Downstream Technology
11.00 to 11.15		Coffee Break	
11.30 to 13.00		<b>Session 6 - Automation &amp; Technology</b>  3D Scan, Pre-Engineering Services, Material Handling Simulation	Mr. Alexander Quast
13.00 to 13.45		Lunch	
13.45 to 15.45		<b>Session 7 – Processing</b>  Mixing Technology (Silica mixing , & A comparative study of Tangential, Intermeshing, and kneader systems) + Q&A	Dr. M.N Aji
15.45 to 16.00		Coffee Break	
16.00 to 18.00		<b>Outro :</b> Summary and future Outlook...  <b>Panel Discussion</b>	

## International Rubber Conference Organization (IRCO)

The International Rubber Conference Organization (IRCO) is an association of rubber societies around the world which plan the calendar for the main international rubber conferences. By careful selection of conference proposals and monitoring of events, the IRCO ensures that all conferences run by its member societies meet the very demanding requirements dictated by the IRCO and thus provide delegates with first-class conferences.

## Indian Rubber Institute (IRI)

Indian Rubber Institute (IRI) is a professional body of Technologists, Engineers, Scientists, Academicians and Professionals associated with Indian Rubber industry. It was registered on 25th May 1987 under West Bengal Societies Act XXVI of 1961, and is the successor in India of Plastics and Rubber Institute (PRI), London, U.K. IRI is a non-profit organization engaged in the development of diverse areas of technological education, training and skill development in Rubber sector. Affiliated with American Chemical Society (ACS), Rubber Division Member of International Rubber Conference Organization (IRCO), UK is Training Provider of Rubber Skill Development Council (RSDC).

### Sheraton Grand Bengaluru Whitefield Hotel & Convention Center Prestige Shantiniketan Hoodi, Whitefield, Bengaluru, Karnataka 560048, India



COURSE FEE	INR 20,000 + 18% GST	Indian Participants
	USD 350	International Participants

For further details / registration, please contact IRC2022 Workshop Convener Mr. Jiby Isaac  
[Jiby.Isaac@apolloyres.com](mailto:Jiby.Isaac@apolloyres.com)

### CONFERENCE & EXPO SECRETARIAT - IRC 2022

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