

KnowHow
WEBINARS
MasterClass

TechnoBiz Program

**Online Short Training Course
for Professional Skill Development**



www.knowhow-webinars.com

2nd Edition



MasterClass (10-Days)

Rubber Compounding for Non-Tyre Products

8-18 November 2021

WWW.KNOWHOW-WEBINARS.COM



9 Experts
*with **315+** Years'*
Combined Experience
in Rubber Processing

Speakers



E. Palaninathan



Kalyan Das



Dr. MN Aji

Speakers



P. Roy Choudhury



Dr. P. Thavamani



Priyabrata Ghosh

Speakers



R. Lakshminarayanan



**Dr. Samar
Bandyopadhyay**



UK Prasad

40 Modules
(55+ Training Hours)



Day 1 (8 November 2021)(Monday)

Module 1

(09:00-10:10 hrs) (70 minutes)

Introduction to Non-Tyre Industry

Speaker: Dr. Samar Bandyopadhyay

Recorded Presentation

Day 1 (8 November 2021)(Monday)

Module 2 (10:30-11:45 hrs) (75 minutes)

General Purpose Rubbers

Speaker: Dr. Samar Bandyopadhyay

Recorded Presentation

Day 1 (8 November 2021)(Monday)

Module 3

(12:15-13:30 hrs) (75 minutes)

**Special Purpose Rubbers (EPDM, NBR,
CR, CPE, CSM, ACM, AEM)**

Speaker: Dr. P. Thavamani

Recorded Presentation

Day 1 (8 November 2021)(Monday)

Module 4

(14:30-15:40 hrs) (70 minutes)

**Special Purpose Rubbers (HNBR, FKM,
ECO, VMQ, FQM, PU)**

Speaker: Dr. P. Thavamani

Recorded Presentation

Day 1 (8 November 2021)(Monday)

Module 5

(16:00-17:50 hrs) (110 minutes)

Fillers for Rubber Reinforcement

Speaker: Dr. Samar Bandyopadhyay



Recorded Presentation

Day 2 (9 November 2021)(Tuesday)

Module 6

(09:00-09:45 hrs) (45 minutes)

Rubber Processing Additives

Speaker: Dr. Samar Bandyopadhyay

Recorded Presentation

Day 2 (9 November 2021)(Tuesday)

Module 7 (10:00-12:30 hrs) (150 minutes)



Rubber Vulcanization Chemicals & Protective Agents

Speaker: Dr. Samar Bandyopadhyay

Recorded Presentation

Day 2 (9 November 2021)(Tuesday)

Module 8

(13:30-15:10 hrs) (90 minutes)



Reinforcing Materials (Textiles & Steel) for Rubber Industries

Speaker: Dr. Samar Bandyopadhyay

Recorded Presentation

Day 2 (9 November 2021)(Tuesday)

Module 9

(15:30-16:30 hrs) (50 minutes)



Rubber Compound Formulation: Development & Case Studies

Speaker: Dr. Samar Bandyopadhyay

Recorded Presentation

Day 2 (9 November 2021)(Tuesday)

Module 10

(17:00-18:20 hrs) (80 minutes)



Rubber Compound Testing

Speaker: Dr. Samar Bandyopadhyay

Recorded Presentation

Day 3 (10 November 2021)(Wednesday)

Module 11 (09:00-11:20 hrs) (140 minutes)

**Molded Rubber Products:
Compound Development**

Speaker: E. Palaninathan

Recorded Presentation

Day 3 (10 November 2021)(Wednesday)

Module 12 (12:00-13:20 hrs) (80 minutes)

**Hydraulic Hoses:
Rubber Compound Development**

Speaker: UK Prasad

Recorded Presentation

Day 3 (10 November 2021)(Wednesday)

Module 13 (14:20-15:45 hrs) (85 minutes)

**Conveyor Belts:
Rubber Compound Development**

Speaker: Priyabrata Ghosh

Recorded Presentation

Day 3 (10 November 2021)(Wednesday)

Module 14

(16:15-17:15 hrs) (60 minutes)

Rubber Mixing Technology & Selection

Speaker: Dr. MN Aji

Recorded Presentation

Day 4 (11 November 2021)(Thursday)

Module 15

(09:00-10:30 hrs) (90 minutes)

Rubber Mixing Procedures & Sequence

Speaker: Dr. MN Aji

Recorded Presentation

Day 4 (11 November 2021)(Thursday)

Module 16

(11:00-12:30 hrs) (90 minutes)

Cost Analysis of Rubber Compound

Speaker: Priyabrata Ghosh

Recorded Presentation

Day 4 (11 November 2021)(Thursday)

Module 17

(13:30-15:10 hrs) (100 minutes)

**Extruded Rubber Products:
Compound Development**

Speaker: P Roy Choudhury

Recorded Presentation

Day 4 (11 November 2021)(Thursday)

Module 18 (15:30-16:50 hrs) (80 minutes)

**Industrial Rubber Rollers:
Compound Development**

Speaker: Priyabrata Ghosh

Recorded Presentation

Day 4 (11 November 2021)(Thursday)

Module 19

(17:20-18:20 hrs) (60 minutes)

Rubber Mixing Plant Management

Speaker: R Lakshminarayanan

Recorded Presentation

Day 5 (12 November 2021)(Friday)

Module 20 (09:00-10:00 hrs) (60 minutes)

**Reverse Engineering
in Rubber Compound Development**

Speaker: Dr. Samar Bandyopadhyay

Recorded Presentation

Day 5 (12 November 2021)(Friday)

Module 21 (10:30-12:00 hrs) (90 minutes)

Footwear Soles:

Rubber Compound Development

Speaker: Priyabrata Ghosh

Recorded Presentation

Day 5 (12 November 2021)(Friday)

Module 22 (12:30-13:25 hrs) (55 minutes)

**Cost Optimization
of Rubber Hose Compounds**

Speaker: UK Prasad

Recorded Presentation

Day 5 (12 November 2021)(Friday)

Module 23

(14:30-15:00 hrs) (30 minutes)

Best Practices for Rubber Chemists in Material Development

Speaker: Dr. Hans-Joachim Graf

Recorded Presentation

Day 5 (12 November 2021)(Friday)

Module 24 (15:15-16:45 hrs) (90 minutes)

Laboratory Management System

Speaker: Dr. Samar Bandyopadhyay

Recorded Presentation

Day 6 (13 November 2021)(Saturday)

Module 25 (10:00-10:45 hrs) (45 minutes)

Setting-up Rubber Mixing Line

Speaker: Dr. MN Aji

Recorded Presentation

Day 6 (13 November 2021)(Saturday)

Module 26

(11:15-12:25 hrs) (70 minutes)

Rubber Mixing Troubleshooting

Speaker: Dr. MN Aji

Recorded Presentation

Day 6 (13 November 2021)(Saturday)

Module 27

(13:30-15:05 hrs) (95 minutes)

**Metal to Rubber Bonded Products:
Compound Development**

Speaker: E. Palaninathan

Recorded Presentation

Day 6 (13 November 2021)(Saturday)

Module 28 (15:30-16:35 hrs) (65 minutes)

**Rubber Reclaim Application
in Non-Tyre Products**

Speaker: Kalyan Das

Recorded Presentation

Day 7 (15 November 2021)(Monday)

Module 29

(10:00-11:25 hrs) (85 minutes)

Safety & Environmental Regulations for Rubber & Tyre Industries

Speaker: Dr. Samar Bandyopadhyay

Recorded Presentation

Day 7 (15 November 2021)(Monday)

Module 30 (12:00-13:00 hrs) (60 minutes)

**Storage of Raw Materials
& Rubber Compounds**

Speaker: Dr. Samar Bandyopadhyay

Recorded Presentation

Day 7 (15 November 2021)(Monday)

Module 31 (14:00-15:00 hrs) (60 minutes)

**How to Judge Quality
of Rubber Compounds?**

Speaker: R. Lakshminarayanan

Recorded Presentation

Day 7 (15 November 2021)(Monday)

Module 32

(15:30-17:00 hrs) (90 minutes)

**Elastomer Curing Systems and their
Effects on Product Performance**

Speaker: Dr. P. Thavamani

Day 8 (16 November 2021)(Tuesday)

Module 33

Fill-Factor in Internal Mixer

Speaker: Dr. Samar Bandyopahdyay

~ 30 minutes

Recorded Presentation

Day 8 (16 November 2021)(Tuesday)

Module 34

50 Best Manufacturing Practices for Custom Rubber Mixing

Speaker: R Lakshminarayanan

~ 60 minutes

Recorded Presentation

Day 8 (16 November 2021)(Tuesday)

Module 35

Maintenance of Rubber Mixing Machinery

Speaker: to be confirmed

~ 60 minutes

Recorded Presentation

Day 8 (16 November 2021)(Tuesday)

Module 36

Water Requirement in Rubber Mixing Plant

Speaker: to be confirmed
~ 60 minutes

Recorded Presentation

Day 8 (16 November 2021)(Tuesday)

Module 37 (15:00-17:00 hrs) (120 minutes)

**Q & A (Part 1) : Rubber Compounding
for Non-Tyre Products**

(Answers for Questions from Past Participants)

Recorded Presentation

Day 9 (17 November 2021)(Wednesday)

Module 38 (09:30-11:30 hrs) (120 minutes)

Q & A (Part 2) : Rubber Compounding for Non-Tyre Products

(Answers for Questions from Past Participants)

Recorded Presentation

Day 9 (17 November 2021)(Wednesday)

Module 39 (12:00-13:20 hrs) (80 minutes)

**Q & A (Part 3) : Rubber Compounding
for Non-Tyre Products**

(Answers for Questions from Past Participants)

Recorded Presentation

Day 9 (17 November 2021)(Wednesday)

Module 40 (14:00-15:15 hrs) (75 minutes)

**Q & A (Part 4) : Rubber Compounding
for Non-Tyre Products**

(Answers for Questions from Past Participants)

Recorded Presentation

Day 10 (17 November 2021)(Thursday)

Q & A Session 1: Rubber Compounding for Non-Tyre Products

(Submitted Questions in Edition 2 will be addressed in this session)

~ 90 minutes

Day 10 (17 November 2021)(Thursday)

Q & A Session 2: Rubber Compounding for Non-Tyre Products

(Submitted Questions in Edition 2 will be addressed in this session)

~ 90 minutes

Day 10 (17 November 2021)(Thursday)

Q & A Session 3: Rubber Compounding for Non-Tyre Products

(Submitted Questions in Edition 2 will be addressed in this session)

~ 90 minutes



TechnoBiz Knowledge Test

Rubber Compounding for Non-Tyre Products
(120 minutes)

This online test can be completed at any time during 19-25 November 2021. You can choose your convenient 90 minutes time as a single shot to participate in this test. Links will be sent on 19 November 2021.



Customised Schedules

Preferred scheduling option is available for companies to train their staff.

Registration Guidelines

Registration Fees

- Member: 750 US\$
- Non-Member: 975 US\$
- Group (5-Pax): 2,350 US\$



Registration Form : <https://webinars.technobiz.org/event-form-18760/>

Please register online at the above link. Immediate registration confirmation note will be sent along with invoice. Participants have payment methods options of *bank transfer* or *credit card* (via Paypal) payments as per their convenience. 100% of Invoice value must be paid.

Remarks: Registration fee includes Training Documents, Certificate of Participation and TechnoBiz Knowledge Test Report. VAT 7% Taxes and Payment Processing Fees will apply on registration fees. Confirmed participants will receive a separate link for each module two days before schedule time.

Registration Guidelines

International Participants

Registration Fees

- Member: 750 US\$
- Non-Member: 975 US\$
- Group (5-Pax): 2,350 US\$



Registration Form : <https://webinars.technobiz.org/event-form-18760/>

Please register online at the above link. Immediate registration confirmation note will be sent along with invoice. Participants have payment methods options of *bank transfer* or *credit card* (via Paypal) payments as per their convenience. 100% of Invoice value must be paid.

Remarks: Registration fee includes Training Documents, Certificate of Participation and TechnoBiz Knowledge Test Report. VAT 7% Taxes and Payment Processing Fees will apply on registration fees. Confirmed participants will receive a separate link for each module two days before schedule time.

Registration Guidelines

Participants (India)

Registration Fees

- Individual: 400 US\$
- Group (3-Pax): 800 US\$

Registration Form : <https://webinars.technobiz.org/event-form-18747/>

Please register online at the above link. Immediate registration confirmation note will be sent along with invoice. Participants have payment methods options of *bank transfer* or *credit card* (via Paypal) payments as per their convenience. 100% of Invoice value must be paid.

Remarks: Registration fee includes Training Documents, Certificate of Participation and TechnoBiz Knowledge Test Report. VAT 7% Taxes and Payment Processing Fees will apply on registration fees. Confirmed participants will receive a separate link for each module two days before schedule time.



Contact Person for Assistance

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