TRAINING PROGRAM ON
MEDICAL TEXTILES

THEME: Feasibility of Manufacturing Reusable PPE and Sustainable Solutions for Recycling of Disposable PPE Products

ON VIRTUAL PLATFORM

24th & 25th MAY, 2022

TRAINING PROGRAM WILL COVER

Manufacturing of Reusable PPE Products

- Introduction and Scope of Reusable PPE
- Feasibility and suitability of reusable products
- Appropriate Material Selection
- Performance expectations of materials used
- Best practices in screening materials for acceptable performance
- Standard test methods utilized by industry

Washing Procedures

- Specific procedures to each type of reusable PPE products
- Sterilization vs. Disinfection vs. Decontamination practices
- Washing related labelling requirements in Hospitals
- Efficacy expectations of PPE before and after washing
- Hospital Testing procedures

Sustainable Solutions for Recycling of Disposable PPE Products

- Overview on Environmental Impact of Disposable PPEs
- Benefits of applying the “Circular Economy” philosophy
- Sustainable Manufacturing practices of Disposable PPEs
- Use of bio-based and recyclable/ biodegradable materials
- Sustainable Chemical Finishes for medical textiles

Reprocessing of PPE Items to Reduce Waste

- Solutions for Reprocessing of PPE items to reduce waste
- Procedures for the safe recycling of PPE materials.
- Treatment & storage methodologies
- Educating end users

WHO SHOULD ATTEND

- Product Development Professionals
- Production & Quality Assurance Professionals
- Research Institutions
- Hospital -
  - CSSD/ Laundry Dept. Staff
  - Clinical Laboratory Staff
- Medical Regulatory Professionals
- Faculty & Students - Textile & Medical fields

BENEFITS

- Acquire knowledge on developing Reusable PPE
- Washing procedures for effective reusability
- Knowing Sustainable Solutions to protect environment

For registration, contact:

INDIAN TECHNICAL TEXTILE ASSOCIATION (ITTA)
Tel: 022-49635711; Mob: 09769464616
Email: info@itta.india.org  Website: www.itta.india.org
### TRAINING PROGRAM ON

**MEDICAL TEXTILES**

**THEME: Feasibility of Manufacturing Reusable PPE and Sustainable Solutions for Recycling of Disposable PPE Products**

**24TH - 25TH MAY 2022**

#### PROGRAM SCHEDULE

<table>
<thead>
<tr>
<th>DURATION (HRS)</th>
<th>TOPICS</th>
<th>SPEAKERS</th>
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<tbody>
<tr>
<td><strong>DAY 1 - 24TH MAY 2022 (15.00 - 18.00 HRS)</strong></td>
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<tr>
<td>15.00 - 15.20 hrs (20 min)</td>
<td>Welcome &amp; Overview of Medical Textiles</td>
<td>Dr. Anup Rakshit</td>
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</table>
| 15.20 - 15.45 hrs (25 min) | Introduction and Utility of Reusable PPE & Masks  
- Overview of the important considerations when determining the feasibility and suitability of reusable PPE: Which PPE items are applicable (e.g., gowns) and are not applicable (e.g., examination gloves)?  
- Specific discussion on reusable medical masks | Mr. Matthew McGarrity |
| 15.45 - 16.05 hrs (20 min) | Material Selection  
- Discussion on the minimum performance expectations of materials used in reusable PPE  
- Standard test methods utilized by industry; Acceptable performance criteria | Mr. Matthew McGarrity |
| 16.05 - 16.20 hrs (15 min) | Hospital Testing Procedures  
- Non-laboratory “ad-hoc” PPE evaluations- carried out by hospital staff; Current industry practices; Utility of these types of tests and Limitation of these types of tests | Mr. Matthew McGarrity |
| 16.20 - 16.40 hrs (20 min) | Washing Procedures for Safe Reuse  
- Washing procedures specific to each type of reusable PPE  
- Sterilization vs. Disinfection vs. Decontamination practices for reusable PPE; Efficacy expectations-before & after washing | Mr. Matthew McGarrity |
| 16.40 - 17.20 hrs (40 min) | Overview of a Hospital-Laundry  
- Types of soils cleaned in a hospital-laundry & Handling of infected items  
- Washing cycles & parameters- chemicals & water used for cleaning  
- Machines used & Automation in modern hospital-laundry  
- ETP and effluent recycling | Mr. Vivek Kulkarni |
| 17.20 - 18.00 hrs (40 min) | Experience working on Reusable PPE with National Health Service (NHS), UK & Hospitals -  
- Development of a Net Zero focused circular textiles system  
- Materials required for Reusable PPE  
- Repurposing to extend functional life including social benefits  
- Recycling including resource considerations | Dr. Tom Dawson |
| 18.00 - 18.15 hrs (15 min) | Interactive Session and Feedback | |
### DAY 2 - 25TH MAY 2022 (15.00 - 18.00 HRS)

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<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
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| 15.00 - 15.30 hrs (30 min) | **Indigenous Development of PPE Coverall**  
- Material selection  
- Manufacturing process  
- Testing and Certification | Mr. Birendranath Bandhopadhyay |
| 15.30 - 16.05 hrs (35 min) | **SUSTAINABLE SOLUTIONS FOR RECYCLING OF DISPOSABLE PPE PRODUCTS**  
- Brief Overview of Disposable PPE’s Environmental Impact  
  - Key Considerations in Reducing Waste of Disposable PPE Manufacturing  
  - Discussion of applying the “circular economy” philosophy as it applies to disposable PPE.  
  - Sustainable PPE manufacturing best practices including: Use of bio-based and recyclable/ biodegradable materials; Sustainable Policy Considerations | Mr. Matthew McGarrity |
| 16.05 - 16.40 hrs (35 min) | **Solutions for the Reprocessing of PPE Items to Reduce Waste**  
- Focused discussion on prolonging the use life of PPE:  
  - Lessons learned from contingency strategies applied during COVID-19 pandemic  
  - Discussion on masks & filtering facepiece respirators and best practices on decontamination | Mr. Matthew McGarrity |
| 16.40 - 17.20 hrs (40 min) | **Safe and Sustainable Recycling**  
- Procedures for the safe recycling of PPE materials.  
- Thermal compactor to melt down polymer-based PPE, enabling to convert into PPE again or other plastic products | Mr. David Scheeres |
| 17.20 - 18.00 hrs (40 min) | **Sustainable Chemical Finishes for Medical Textiles**  
- Sustainable Functional Effects: Sustainable Water based Products on fabrics | Mr. Alex Pandian |
| 18.00 - 18.15 hrs (15 min) | **Interactive Session and Feedback** | |
| 18.15 - 18.20 hrs (05 min) | **Concluding Remarks** | |

**SPEAKERS:** Highly Experienced Professionals from USA, UK & Indian Industry --

1. Mr. Matthew McGarrity, Cora Consulting, USA
2. Dr. Tom Dawson, Founder, Revolution-ZERO, UK
3. Mr. Vivek Kulkarni, Technical Advisor to Leading Hospitals, Ex-Head of Technical and R&D - Ecolab India of Ecolab, USA
4. Mr. Birendranath Bandhopadhyay, President, Kusumgar Corporates Pvt. Ltd., India
5. Mr. David Scheeres, Director, Thermal Compaction Group Ltd., UK
6. Mr. Alex Pandian, Business Development Manager, Coatings & Technical Textiles, Archroma India Pvt. Ltd., India
7. Dr. Anup Rakshit, Executive Director, Indian Technical Textile Association (ITTA), India
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24TH - 25TH MAY 2022

ADMISSION FORM

ITTA MEMBERSHIP ID - ........ [Not Required for Non-members]

I. PERSONAL INFORMATION

Name
Address
City.........................................State..........................................................Pin
Mob No....................................................Email ID.................................

II. CURRENT WORKING EXPERIENCE (For Employees only)

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<thead>
<tr>
<th>Sr. No.</th>
<th>Company Name &amp; Designation</th>
<th>Yrs. of Experience</th>
<th>Tel No. &amp; Email ID of Company</th>
<th>Total Yrs. of Experience</th>
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III. ACADEMIC QUALIFICATIONS (For Students only)

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<th>Sr. No.</th>
<th>Qualifications - Degree/ Diploma</th>
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<th>Years of Completion</th>
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IV. TRAINING FEES

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<th>Category</th>
<th>Rates (Per candidate)</th>
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<tr>
<td>1</td>
<td>Employees of ITTA Members</td>
<td>Rs. 2500 + 18% GST</td>
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<td>2</td>
<td>Employees of Non-Members</td>
<td>Rs. 3500 + 18% GST</td>
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<td>3</td>
<td>Students</td>
<td>Rs. 500 + 18% GST</td>
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## V. PAYMENT MODE

Payment to be made directly into Bank Account (Through NEFT/RTGS only - should not be thru IMPS)

### A/C. Name: INDIAN TECHNICAL TEXTILE ASSOCIATION

Bank Name: Bank of Baroda, Chakala Branch, Mumbai - 400093

Current Account No: 04220200000491

IFSC Code: BARB0CHAKAL

## TERMS AND CONDITIONS

1. Admission Form duly filled should be emailed to info@ittaindia.org along with NEFT/RTGS payment receipt copy on or before 23rd May 2022. After accepting your candidature, you will receive a confirmation email from ITTA.

2. Admission Fees are Non-Refundable.

3. The entire 2 days Training program will be on-line through Zoom or equivalent digital platform.

4. Before 3 days of the training program starting date you will receive a system generated confirmation email containing the Link & instructions for joining the training thru video conferencing.

5. First day you have to join 30 mins before the starting time, then next day you can join 20 mins before the schedule time, using the same link.

**NOTE:** All fields are mandatory. Do not leave any blank spaces put N/A if not applicable.

For any other help & information, please contact thru email - info@ittaindia.org or call - 9769464616.

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**For Individual Candidate / Student**

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<th>Name of Candidate/ Student</th>
<th>Authorisation by the Company</th>
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<th>Signature of Candidate/ Student</th>
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