

## **RADHA SACHAN**

Mobile: +91 7081300615

E-Mail: [radha.s@hbtu.ac.in](mailto:radha.s@hbtu.ac.in)

Kanpur, Uttar Pradesh, India

### **Professional Synopsis**

✂ A dynamic professional with **almost 7 years** of experience in Product & Process Improvement, Quality Assurance and Technical Services/Marketing.

### **Scholastics**

- Pursuing **Ph.D.** from DTU Delhi (Former DCE) 2018-present
- **M.Tech. (Polymer Technology)** from DTU Delhi (Former DCE) in 2018 (**Gold Medallist**)
- **B.Tech. (Chemical Technology-Paint Technology)** from H.B.T.I. Kanpur in 2008.

### **Academic Project**

#### **Publications**

1. Kartik Jindal, Chaitnaya Chibber, **Radha Sachan** and Roli Purwar (2022), Antimicrobial adhesive using Arnebia Nobilis into silicone acrylate blend for potential wound care application, Lecture Notes in Mechanical Engineering. ISSN: 2195-4356. DOI: 10.1007/978-981-16-9523-0\_10
2. **Radha Sachan**, Sudhir G. Warkar & Roli Purwar (2022), An overview on synthesis, properties and applications of polycaprolactone copolymers, blends & composites, Polymer-Plastics Technology and Materials, DOI: 10.1080/25740881.2022.2113890
3. **Radha Sachan**, Sudhir G. Warkar, and Roli Purwar (2022), Photocrosslinked Poly( $\epsilon$ -caprolactone) – Polydimethylsiloxane – Poly( $\epsilon$ -caprolactone) Triblock Copolymeric Films: Structural, Thermal and Shape Memory Properties, ChemistrySelect, DOI: 10.1002/slct.202201340
4. **Radha Sachan** and Roli Purwar (2021), Silica Modified candelilla wax/thermoplastic polyurethane blend coatings for hydrophobic textiles, The Journal of The extiles Institute, DOI: 10.1080/00405000.2021.1926128
5. **Radha Sachan** and Roli Purwar (2021), Water based quad acrylic copolymer/cloisite 30B nanocomposite heat resistant adhesive: thermal and

rheological properties, Journal of Adhesion Science and Technology, DOI: 10.1080/01694243.2021.1979760

6. Roli Purwar and **Radha Sachan** (2020), Thermoresponsive shape memory polymers for smart textiles, Advances in functional and protective textiles, 1st edition, Edited by Shahid ul-Islam and Bhupendra Singh Butola, Elsevier Publications, ISBN: 978-0-12-822676-6.
7. Composite materials-categorisation, manufacturing process, mechanism and end uses , Priti and Radha Sachan, **Paint India**, Dec'14, pp. 63-69
8. Architectural coating- review of failures and remedy, Priti and Radha Sachan, **Paint India**, Jul'15, pp. 53-63

### **Conferences/Seminars**

1. Radha Sachan, **Oral presentation**, Structural and thermal properties of photocrosslinked poly( $\epsilon$ -caprolactone) – polydimethylsiloxane- poly( $\epsilon$ -caprolactone) triblock copolymeric films, International Conference on Sustainability in Chemical Processes through Digitalization, Artificial Intelligence and Green Chemistry, CHEMCON -2022, 27-30 Dec. 2022, Kanpur, Uttar Pradesh, India.
2. Radha Sachan, **Poster presentation**, Studies on high heat resistant acrylic adhesive, International Conference on Polymer Science and Technology SPSI-MACRO 2018, 19-22 Dec. 2018, IISER Pune, India.
3. Radha Sachan, **Poster presentation**, Silica modified candelilla wax/PU coating for hydrophobic textile, Textile Summit 2018, 17 Nov. 2018, TAI Delhi, India.
4. Radha Sachan, **Paper presentation**, Silica modified candelilla wax/PU coating for hydrophobic textile, National Level Technical Paper Presentation Contest (Antrang'18), 7-8 Apr. 2018, IIT Delhi, India. (Won third prize)
5. Completed Executive Management Programme From Shailesh J. Mehta IIT Bombay, with specialisation in Marketing and HRM, Project work : B2B marketing strategy 2013-14

### **Ph.D. (Pursuing)**

Topic: Studies on Poly(caprolactone-co-dimethylsiloxane) copolymers for thermos responsive shape memory applications

## **M.Tech**

### 1. Minor Project

Silica modified candelilla wax/thermoplastic polyurethane based hydrophobic coating for textiles Duration: 1 year

Guide: Dr. Roli Purwar and Dr. Deenan Santhiya, DTU, Delhi

### 1. Major Project

Studies on high heat resistant acrylic adhesive Duration: 1 year

Guide: Dr. Roli Purwar and Dr, Deenan Santhiya, DTU, Delhi

## **B.Tech**

UV Curable Powder Coatings Duration: 1 year

Guide: Dr. Pramod Kr. Kamani, HBTI, Kanpur

## **Organisational Experience**

**Dec'15-Jul'16 with Delta Specialties, Delhi.**

**Apr'12- June'15 with Afcona Additives**

**Pvt. Ltd., Delhi. Mar'11- August'11**

**with Srisol India Pvt. Ltd., Noida.**

**Jul'08-Feb'11 with BASF Coatings India Pvt. Ltd., Mangalore**

**June'07-July'07(5 weeks) with AKZONOBEL Coatings India Pvt. Ltd., Bangalore as Trainee for internship in Marine Coating department.**

## **Membership in Research Organizations and Professional Bodies**

1. Life Member of Indian Institute of Chemical Engineers (IICChE)
2. Life member of Paint and Coating Technologists' Association (PACT)