Department of Paint Technology

Harcourt Butler Technical University, Kanpur

Title:

Participation and Inter-Institutional Collaboration at APC Rangotsav 2026, ICT Mumbai

Event: 13th Edition of APC Rangotsav 2026
Theme: *Advances in Polymers & Coatings*

Dates: 17–18 February 2026

Venue: KV Auditorium, Institute of Chemical Technology

Participating Institution: Department of Paint Technology, HBTU Kanpur

Host Institution: Institute of Chemical Technology

Participants from HBTU:

- Khushboo Singh (M.Tech. Scholar)
- Kapil Agrawal (M.Tech. Scholar)
- Satyarth Mishra (Ph.D. Scholar)
- Dr. Durgesh K. Soni

1. Introduction

The Department of Paint Technology, HBTU Kanpur, actively participated in the prestigious **APC Rangotsav 2026**, organized by the **Institute of Chemical Technology**. This national-level conference served as a dynamic platform for academic exchange, industry interaction, and research dissemination in the domain of polymers and coatings.

The participation reflects the department's commitment to **academic excellence, collaborative research, and national-level engagement**.

2. Objectives of Participation

The participation in APC Rangotsav 2026 was aligned with the following objectives:

- To promote **inter-institutional academic collaboration**
- To facilitate **research dissemination at a national platform**
- To engage with **leading researchers and industry experts**

- To strengthen **academic networking with premier institutes like ICT Mumbai**
- To expose students to **emerging trends in polymers and coatings**

3. Academic Contributions

3.1 Oral Presentation

Presenter: Satyarth Mishra (Ph.D. Scholar)

Topic: *Low Bake Cathodic Electrodeposition (CED) Coatings*

The presentation highlighted:

- Advances in **low-temperature curing technologies**
- Industrial relevance in **automotive and protective coatings**
- Energy-efficient coating processes

The work was well received by experts, leading to **constructive discussions and knowledge exchange**.

3.2 Poster Presentations

M.Tech. scholars Khushboo Singh and Kapil Agrawal presented their research posters, focusing on:

- Emerging coating technologies
- Functional materials
- Industrially relevant formulations

The poster sessions facilitated:

- Peer-to-peer learning
- Feedback from experts
- Opportunities for refining research directions

4. Inter-Institutional Collaboration

A key highlight of the participation was the strengthening of collaboration between:

- **Department of Paint Technology, HBTU Kanpur**
- **Institute of Chemical Technology** (Department of Polymer & Surface Engineering)

4.1 Faculty-Level Interaction

Dr. Durgesh K. Soni actively engaged with faculty members at ICT Mumbai, leading to meaningful discussions on:

- Joint research opportunities
- Exchange of academic expertise
- Collaborative projects in advanced coatings

4.2 Potential Areas of Collaboration

The discussions opened pathways for future collaboration in:

a. Advanced Coating Technologies

- Functional and smart coatings
- Sustainable and eco-friendly formulations

b. Polymer Science and Engineering

- Structure–property relationships
- Advanced polymeric materials

c. Industrial Applications

- Automotive coatings
- Protective and corrosion-resistant coatings

d. Research Collaboration

- Joint publications
- Sponsored research projects
- Faculty exchange programs

4.3 Student-Level Collaboration Opportunities

- Research internships at ICT Mumbai
- Exposure to advanced laboratory facilities
- Participation in joint academic events
- Co-supervised research projects

5. Industry–Academia Interface

The conference served as a convergence point for academia and industry, enabling:

- Interaction with **industry professionals in coatings sector**
- Understanding of **real-world industrial challenges**
- Insights into **technology trends and commercialization**

6. Key Outcomes

The participation resulted in:

- Strengthened **inter-institutional academic linkages**
- Enhanced **research visibility at national level**
- Valuable **expert feedback for ongoing research**
- Identification of **collaborative research opportunities**
- Improved **student confidence and presentation skills**

7. Benefits to Stakeholders

For Students:

- Exposure to national-level research environment
- Opportunity to present and defend research work
- Networking with experts and peers

For Faculty:

- Collaboration with leading institutes
- Research networking opportunities

- Knowledge exchange with domain experts

For Institution:

- Strengthening institutional reputation
- Expanding academic collaborations
- Enhancing research ecosystem

8. Relevance to NAAC/NBA Criteria

NBA Alignment:

- **Criterion 3:** Program Outcomes (Research, communication skills)
- **Criterion 5:** Faculty Contributions
- **Criterion 7:** Professional Activities

NAAC Alignment:

- **Criterion 2:** Teaching-Learning Enhancement
- **Criterion 3:** Research, Innovation & Collaboration
- **Criterion 5:** Student Progression
- **Criterion 6:** Institutional Networking
- **Criterion 7:** Best Practices

9. Conclusion

Participation in APC Rangotsav 2026 at **Institute of Chemical Technology** marked a significant milestone in strengthening **inter-institutional collaboration, research excellence, and industry engagement**.

The event not only provided a platform for showcasing research but also facilitated meaningful academic interactions that are expected to evolve into **long-term collaborations, joint research initiatives, and enhanced academic exchange**.

Such initiatives reinforce the department's commitment to **innovation, collaboration, and global competitiveness in the field of polymers and coatings**.