

INTERNATIONAL

Convention on Colorants - 2025



THE DYES & PIGMENTS
MANUFACTURERS ASSOCIATION OF INDIA



Department of Chemicals and Petrochemicals,
Government of India



Department of Speciality Chemicals Technology
Institute of Chemical Technology



6th & 7th March 2025
The Club, Andheri, Mumbai

Publication Partner



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Preamble

The 10th International Convention on Colorants (COC 25) will be held on 6th and 7th March 2025 at The Club, Andheri, Mumbai. This biennial event is organized jointly by Department of Speciality Chemicals Technology (formerly Department of Dyestuff Technology), Institute of Chemical Technology and The Dyes & Pigments Manufacturers Association of India (formerly The Dyestuff Manufacturers Association of India). Its purpose is to provide a platform for discussing the current status and future trends in the colorants field.

While the Indian chemical industry seems to have by and large weathered the worldwide pandemic and its aftermath, the Indian colorants industry was severely impacted by volatility in raw material prices and rising transportation costs. The continuing war in Ukraine, conflict in the Middle East and disruption in the Red Sea shipping corridor have drastically affected global business. Developing and adopting inherently safe, efficient and environmentally friendly manufacturing processes has therefore become imperative.

COC 25 will be an occasion for industry professionals, academicians, manufacturers and application specialists to network and address all these and other relevant issues. It will feature a select group of national and international speakers who are recognized experts in their chosen field. Over 250 delegates are expected to attend this convention thereby creating a very good opportunity to make new contacts and renew old ones.

This convention will be immensely beneficial to entrepreneurs, marketing and manufacturing professionals, R&D scientists and university researchers.

Who Should Attend?

(from Colorants and Allied fields)

- **Chief Executive Officers**
- **Production, Application and Marketing Executives**
- **Senior Technology and Management Executives**
- **Corporate Managers**
- **R&D Scientists**
- **Students**

Focus Areas

- **Process engineering and intensification**
- **Environment and regulatory provisions**
 - **Functional colorants**
- **Sustainable colorants and coloration**

Delegate Fees – per delegate

(includes Conference kit, Lunch and Dinner)

Indian Delegates

(For three or more delegates from the same Company)

Rs. 7500

Rs. 7000

DPMAI Members / GDMA Members

(For three or more delegates from the same Company)

Rs. 6500

Rs. 6000

Foreign Delegates

US \$ 200

Students

Rs. 1200

18% GST will be applicable on all the delegates fees.

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Tentative Program

Thursday, 6 March 2025

0800-0900	Registration and breakfast
0900-1040	Inaugural session Chief Guest Address Keynote Speaker: Mr Rajesh Rathi, Managing Director, Sudarshan Chemical Industries Limited
1040-1115	Tea Break
1115-1255	Session I: Process intensification Prof Sanjay Mahajani, Indian Institute of Technology – Bombay, Mumbai - Process intensification in the chemical industry Dr Bijaya K Mishra, Consultant - Surfactant – The workhorse as process and performance facilitator
1255-1400	Lunch Break
1400-1540	Session II: Functional colorants - I Prof Eli Zysman-Colman, University of St Andrews, UK - Design of multi-resonance thermally activated delayed fluorescence materials for high-performance organic light-emitting diodes Prof Filip Bures, University of Pardubice, Czech Republic - Push-pull chromophores
1540-1600	Tea Break
1600-1740	Session III: Process development Dr B Ganesan, Deepak Nitrite Ltd, Mumbai - (Title to be finalized) Prof Vishwanath Dalvi, Institute of Chemical Technology, Mumbai - Continuous diazotization and coupling for dye synthesis in SlurryFLOTM reactor
1740-1900	Poster Session
1900 onwards	Cocktails and Dinner

Friday, 7 March 2025

0830-0930	Registration and breakfast
0930-1110	Session IV: Environment & regulatory affairs Dr Kamlesh Kushalkar, Archroma India (Pvt.) Ltd., Mumbai - (Title to be finalized) Dr Rajesh Bhat - Advanced technologies for waste water treatment
1100-1130	Tea Break
1130-1310	Session V: Sustainable colorants and coloration Prof Roshan Paul, University of Beira Interior, Portugal / RWTH-ITA, Germany - Sustainable innovations in colourants and colouration Dr Jose Paul, Vice President – Operations, Agro Processing Cluster, Synthite Industries (P) Ltd, Cochin - Natural sources of colorants, isolation and application in food products
1310-1410	Lunch Break
1410-1550	Session VI: Functional colorants - II Prof Gen-ichi Konishi, Tokyo Tech, Japan - Environmental responsive fluorophores: Rational design and applications Prof Daniel Escudero, KU Leuven, Belgium - (Title to be finalized)
1550-1610	Tea Break
1600-1740	Session VII: Process engineering Shrikant Saraf, Director – Leading Edge Systems Private Limited - (Title to be finalized) Iqbal Singh, LACE Pvt Ltd, Vadodara - Spray drying
1750-1820	Concluding Session

The Dyes & Pigments Manufacturers Association of India

The Dyes & Pigments Manufacturers Association of India (DPMAI), established in 1950 (as The Dyestuffs Manufacturers Association of India - DMAI), is the Apex Body representing Dyes, Pigments, Optical Brighteners and Dye Intermediates manufacturers from all over the country, covering all sectors of the Colorants Industry – MSMEs to multinationals. DPMAI regularly takes up various issues of concern to the Colorants industry with the concerned Government Agencies. Department of Chemicals and Petrochemicals (DCP), Ministry of Chemicals and Fertilizers, Government of India seeks DPMAI opinion in framing policies concerning Colorants Industry. Since 1991 has been regularly submitting a 10 year Action Plan to the Government for achieving goals, set for the Colorants industry.

DPMAI feels proud that Indian Colorants Industry has emerged as a major player in the world with a Global market share of about 17%. The actual export performance exceeded the targets set in the first two 10 year Action Plans. DPMAI honours its members with annual awards for their excellence in various fields, felicitates students of Color chemistry from ICT, conducts Seminars, arranges and hosts overseas Trade delegations and organizes conferences to bring Colorant makers and its diverse users on a common platform to understand the present and future needs and deliberate on improvement in available products, future trends and developments. For the convenience of end users, DPMAI with the support of DCP, Ministry of Chemicals and Fertilizers, Govt. Of India, had organized such three Conferences on “Textiles: Business & Environment Sustainability – Challenges for the Colorants Industry” in 2013 in Coimbatore and in 2016 and 2022 in Ludhiana.

Over the years, DPMAI & China Dyestuff Industry Association (CDIA) have established close links. Besides holding regular interactions, and active participation in China Inter Dye Exhibition every year; the first Inter Dye Asia (an international exhibition) was jointly and successfully held in December 2011 in Ahmedabad. DPMAI & CDIA jointly established Asia Dyestuff Industry Federation (ADIF) in 2018 with a view to assisting in accelerating the development of Asian Colorants. Globally recognized as the Apex association for the Indian Colorants Industry, DPMAI is regularly invited for participation and presentations in prestigious events such as ITMA and International Congress of International Federation of Associations of Textile Chemists and Colourists (IFATCC).

To address the needs of the Colorants industry at a business platform bringing together related stake holders, buyers and sellers from India and abroad with focused emphasis on textiles (India being now viewed as a global sourcing hub for all of types of textiles); Colour Publications, along with DPMAI have started organizing Expos (Chroma TexChem) in Mumbai, the commercial capital of India and one of the leading centres for textile industry. The 1st EXPO was conducted successfully on 14th & 15th November 2019, the subsequent editions jointly with The Gujarat Dyestuffs Manufacturers Association (GDMA), on 13th & 14th October 2022, 19th & 20th December 2023 and 21st & 22nd October 2024 which has become an yearly event.

Starting in 2005; the International Convention on Colorants (COC), jointly conducted by DPMAI and Department of Speciality Chemical Technology, ICT with support from DCP, Ministry of Chemicals and Fertilizers, has become a very successful biennial event. Appreciating the continuous need for Innovation in Technology, and to enable the industry to benefit from the latest worldwide developments in the field, 10th international Convention on Colorants 2025 (COC 25) is being organized on 6th & 7th March 2025 in Mumbai.

Department of Speciality Chemicals Technology

Department of Speciality Chemicals Technology (earlier Dyestuff Technology) was established in 1944 under the stewardship of Prof. K. Venkataraman, the then director of Institute of Chemical Technology (ICT, formerly known as UDCT), University of Mumbai. Under the successive leadership of highly experienced, talented and hard-working scientists and scholars such as Professors B. D. Tilak, S. V. Sunthakar, S. Seshadri, D. W. Rangnekar, V R Kanetkar and P.M. Bhate the department has trained more than 1000 undergraduate students and over 500 postgraduate students.

The department of Specialty Chemicals Technology has recently built its new state-of-the art laboratory building with the courtesy of Colourtex Industries Pvt Ltd. The two storeyed facility with a total area of 8200 sq. ft. consists of the Research laboratory, Process Intensification Laboratory, Analytical laboratory and Instrumentation Laboratory, for undergraduate and postgraduate students; thus, building a strong sense of industrial working culture in them. The laboratory is equipped with all the modern instrumentation.

The Department is a unique centre of learning that offers an advanced curriculum in tune with the latest industrial and academic developments. Not only has it produced a new generation of talented technologists and bright researchers, it has also led to an effective industry-academia relationship. The B. Tech course in Dyestuff Technology emphasizes the chemistry, technology and engineering of organic intermediates and colorants. The student leaves the Institute equipped with a working knowledge of laboratory synthesis, scaling up skills, key manufacturing processes and analytical techniques. The faculty members are associated with prestigious national and international academies as Fellows.

Prof. K. Venkataraman did pioneering work in synthetic dyestuff chemistry, natural colorants, structural elucidation and spectral studies. His volumes on “The Chemistry of Synthetic Dyes” are still widely read and treated as the bible for dyestuff chemists and technologists worldwide. These have been translated into more than 14 languages. Prof. B. D. Tilak worked extensively in the field of anthraquinone and naphthaquinone vat dyes, and on azide chemistry. Prof. S. V. Sunthakar investigated the chemistry of steroids, pesticides and silicon compounds in addition to dyestuff chemistry. The contribution of Prof. S. Seshadri to the Vielsmeier-Haack reaction and coumarin chemistry is very well recognized. Prof. D. W. Rangnekar published widely in the area of heterocyclic chemistry and was instrumental in initiating BRNS-BARC sponsored projects on the synthesis of laser dyes and solid state lasers. These projects, which became vital for the country post Pokhran-II, were successfully executed and completed by Prof. V. R. Kanetkar.

The Department currently engages on niche areas of research like fluorescent dyes for sensing and sensitizers for DSSC besides the high-performance textile colorants and DFT computations, design and synthesis of graphene derivatives and their applications; energy storage materials, flame retardants, bio-probes, waste stream treatment, advanced catalysts, semiconductor materials, anticancer materials, sensors and surfactants, macro molecule synthesis, Green processes for intermediates, dyes, and specialty chemicals, fragrance molecules, agrochemical synthesis, bioactive molecules and functional colorants. The outstanding research work (reported over 1000 publications) carried out by these stalwarts has created a permanent impact on dyestuff and allied industries, globally and locally.

Contact Details

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