

For private circulation only



DMAI Newsletter

The Dyestuffs Manufacturers Association of India

Vol. XXXVII

Issue 4

April - June 2017

CHINA INTERDYE 2017

Cover Story



DMAI Delegation to China Interdye 2017 Exhibition.

ARCHROMA
L I F E E N H A N C E D



COLOR MANAGEMENT

/ Do you dream in color? We do.

All the colors you've *ever* imagined. All the colors you've *never* imagined.

Over 4,300 readily available cotton poplin colors. A galaxy of hues, shades, depths, and saturation in six volumes. For the first time ever you have options you've never dreamed of. Born of 120 years dedicated to the art and science of color, the Color Atlas by Archroma® empowers you to quickly find the exact color you want.

Step into your wildest dreams. Visit colormanagement.archroma.com.



**We touch and color people's lives
every day, everywhere**

www.archroma.com



**The Dyestuffs Manufacturers
Association of India**

DMAI Newsletter

Published by

S. Balasundaram
Executive Secretary

The Dyestuffs Manufacturers Association of India

A-317, 3rd Floor,
Antop Hill Warehousing Complex,
Vidyalankar College Road,
Near Barkat Ali Naka,
Wadala (East), Mumbai- 400 037
Tel Nos. : +91 22 24158156/8157
Fax No.: +91 22 24157374
Email: dmai@vsnl.com
Web: www.dmai.org

Designed & printed by

Colour Publications Pvt. Ltd.
Tel.: 2430 6319
Email: colorpub@colorpub.in

For private circulation only

Contents

Editorial	3
President's Page	5
Cover Story	
CHINA INTERDYE 2017	7
AGM and Awards Function 2017	
Program	11
Chief Guest	13
DMAI Awards Winners	15
Glimpses of DMAI Activities during 2016-2017	17
Glimpses of 66th AGM of DMAI	19
Features	
Getting Best Value from Meetings	
- Mr. Prakash Rastogi	21
Spinel Pigments: Properties and Applications	
- Prajakta Badve	25
DMAI News	23
Forthcoming Events	27
Seminars & Meetings	29



MOHIZOL® & MEACTIVE®

*Range of Conventional and Specialty
Reactive Dyes*

- GOTS Certified*
- Reach Compliant*
- Eco-Passport Certified(Oeko-Tex 100)
- ISO 9002:2008 Certified

Astik Dyestuff Pvt. Ltd
Phone: 91-22-66938641 to 45
Email - sales@astik.com



Connecting with Colours

www.astik.com



Mr. Ram Ajekar
Honorary Editor



Mr. Virendra Widge



Prof. Vinod Kanetkar



Mr. Vinit Shah



Mr. Sandeep Shah

Dear Readers,

Uncertainty and anticipation over effective date of implementation of GST is finally over. It has now become a reality. The GST council did a commendable job in finalizing the process of fixing tax rates for such a vast number of items and also bringing the states on board. Implementation of such a historic measure of such high magnitude and importance is bound to throw up initial challenges. The earnestness shown by the Government in this regard gives the needed assurance that all the doubts will get cleared and clarity on all aspects will be available very soon.

With the availability of entire inputs tax credits, the impact on end users of Colorants like textiles and others is expected to be positive. Similarly, in order to eliminate any adverse impact on house hold expenses, a number of items of daily use are exempted from GST and many others will attract much lower rate. 81% of the total items will be taxed at 18% or lower and hence the measure will not be inflationary as feared by some. This unified single taxation system, besides reducing cost, will also improve ease of doing business by saving considerable amount of time spent on dealing with multiple Government departments. In order to lessen pressure during the transition period, GST council has extended time for filing of returns for July and August till September and that too assesses can file simple returns based on self assessment which is a big relief. Let us hope this landmark legislation will usher in a new era relating to indirect taxation by bringing about a regime of compliance, transparency and free from hassles and corruption leading to faster economic growth.

An agrarian crisis does not auger well for the economy particularly in the Indian context. A few state Governments have announced loan waivers to the farmers recently. However, this is not a permanent solution. The Government at the centre which is fully aware of this and all the state Governments irrespective of their political differences should come together to find a permanent solution. All the necessary rural infrastructure should be provided on a priority basis to improve efficiency and crop yield besides enabling farmers to get remunerative prices for their produce and become independent and self-reliant. The Government's objective of doubling farmers income in five years, when materialized, will give a big boost to the demand for industrial products including Colorants.

The Government has been pushing forward economic reforms in many areas which has resulted in highest ever FDI in flows for FY 2017. Manufacturing sector recorded a jump of 52% foreign investments at USD 20 billion boosting "Make In India" initiative. Service sector and exports grew in recent months. However, GDP growth hit a two year low of 7.1% for FY 2017 as against 7.9% for FY 2016. With demonetization effect fading, expected good rains, increased foreign investments, implementation of GST and several other positive steps initiated by the Government, GDP growth is expected to accelerate from FY 2018 onwards.

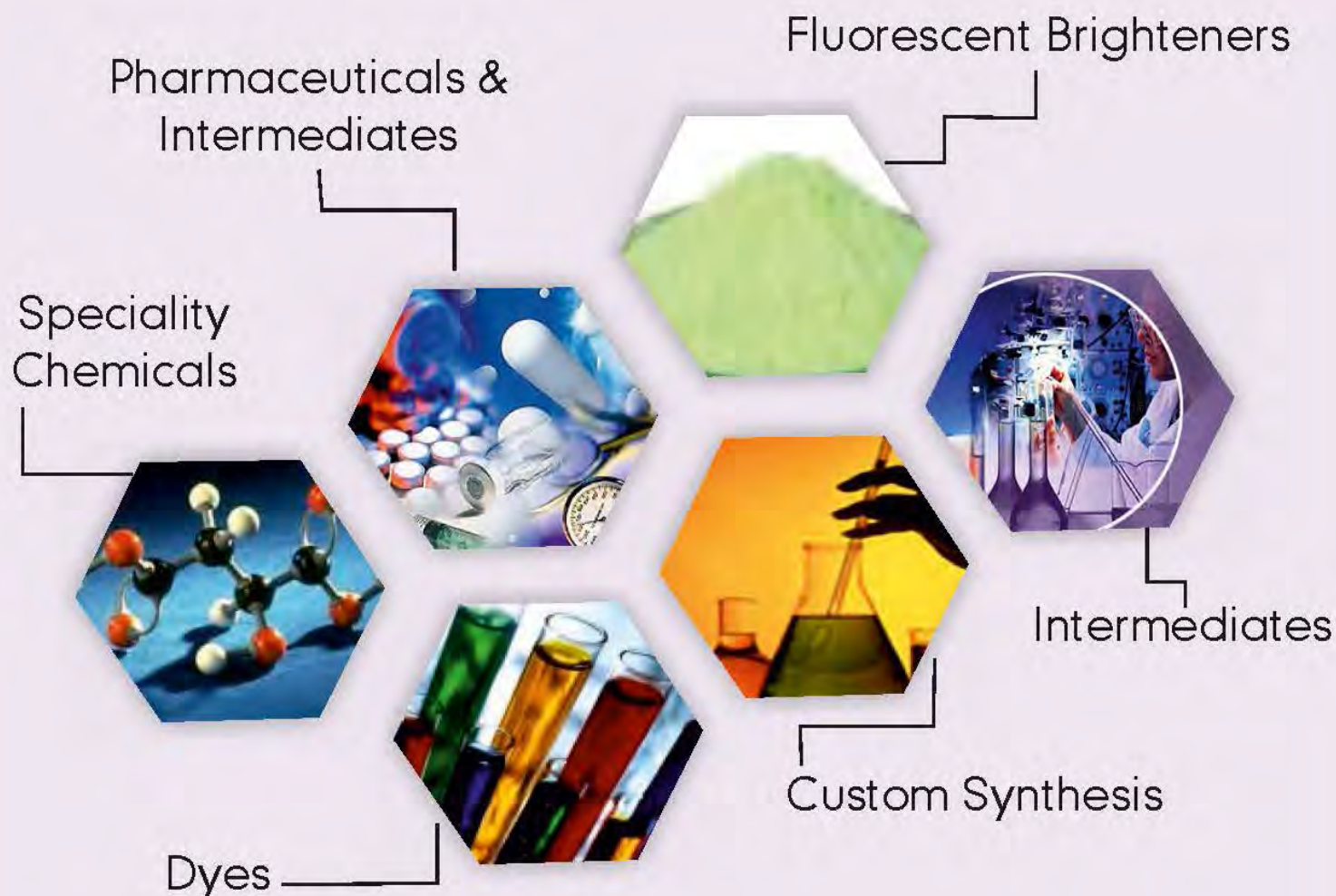
We look forward to seeing you all at the forthcoming Annual General Meeting of DMAI to make the AGM a grand success.

Ram Ajekar
Honorary Editor



AMAR IMPEX

Exporters of



Amar House, 3rd Floor, 14/16, Mumbai Marathi Granthasangrahalaya Marg,
Near Sharda Talkies, Dadar (East), Mumbai - 400 014, India
Tel.: 91-22-24105805/06/07 Fax: 91-22-24105808-9 Email: amarimpex@vsnl.com



I am happy to greet and meet you all again in this fourth quarter after the new Managing Committee assumed office.

Friends, we are on the threshold of many economic reforms now hitting the business ground. After the festive months, of second quarter of 2017, we are now entering the monsoon quarter and I wish you all a rich bounty.



Economic Reforms & GST law

GST, the biggest economic as well as tax reform in post-independence India is rolling out on 1st July 2017. Visionary thinking, political hard bargains and now bold in-depth implementation and execution will be on the ground from July 1. We hope our friends in the Industry will benefit from this reform and apply it themselves to business processes with success, stability and surety. Many learning and awareness events are organized so far and more will follow.

I recommend members to send their accounting and business team to various education, learning and awareness events programs that help to get better GST understanding and make the teams learn things prepare for implementation.

Banking Reforms

The Government's bold initiative - bank lending in terms of quality of assets - is now fully in shape and implemented. I suggest we must study the implications of bankruptcy laws and asset quality criteria well and ensure. So, we must see that our individual companies are very compliant. Since there is good amount of resources for lending available, Industry can look forward to easy finance, but with cautious disciplined approach.

Environment Protection & Regulations

The World Environment Forum is once again very live. The Paris agreement has started facing its political will test with many big western economies showing some reluctance to commitments on quantifiable measures. However, our Government and particularly the Prime Minister is more than committed. So we must continue to be responsible in our Chemicals based industry. As historically, we are not having a very good and encouraging track record, it is more challenging for us to honor this social responsibility. We must leave the planet as good for living for next generation, as we had in our living times.

China Interdye 2017 Exhibition

The 17th Edition of China Interdye 2017 Exhibition was held from 12th to 14th April 2017 and organized by China Dyestuff Industry Association at Shanghai, China. DMAI led a delegation of 19 members to the event.

We had an interactive meeting with China Dyestuffs Manufacturers Association (CDIA), wherein many issues concerning the colorant industry were discussed and deliberated.

Asia Textile Innovation Forum 2017

The two day Asia Textile Innovation Forum was held at Hotel JW Marriot, Juhu, Mumbai on 19th and 20th April 2017, which covered various topics related to innovations in Textile processing and Green Chemistry. Our Imm. Past President Mr. Janak Mehta's presentation on "Analysis of Environmental standards of India's Textile Industry" during the event was very much appreciated by Senior Managers from the Industry, who were present at the Forum.

JITENDRA PATEL

A RENOWNED NAME IN THE VAT DYES
INDUSTRY IN INDIA, ARLEX CHEMI PVT. LTD. IS
THE LEADING MANUFACTURER AND EXPORTER
OF A WIDE RANGE OF VAT DYES.

OUR RANGE OF VAT DYES INCLUDE

- = VAT CRUDE DRY POWDER (C.D.P)
- = VAT PASTE
- = SOLUBILISED VAT DYES
- = VAT POWDERFINE DYES
- = VAT MICRO DISPERSE POWDER
- = VAT RED 1/ D&C RED 30



ARLEX CHEMI PVT. LTD.

B-1302, Cello Triumph, I. B. Patel Road, Goregaon (East), Mumbai - 400 063.
T: 022 6570 1236/37 | E: arlexchemi@gmail.com | W: www.arlex.in



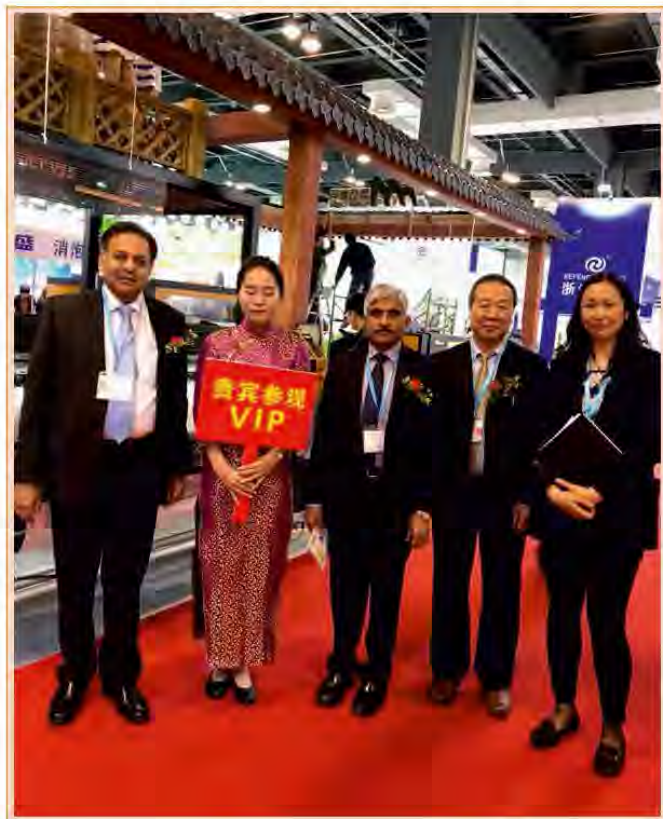
CHINA INTERDYE 2017

The world's largest 17th China Interdye 2017 Exhibition organized jointly by China Dyestuff Industry Association (CDIA), China Dyeing and Printing Association and China Council for the Promotion of International Trade was held between 12th & 14th April 2017 at Shanghai, China.

Exhibition was spread over 40,000 Sq meters in state of the art Shanghai World Expo Centre (Hall 1 & 2) with 630 domestic and overseas exhibitors from 17 countries and regions exhibiting their products. Equally big no of trade visitors (16,681) from 53 countries and regions visited the exhibition this year.

Being World's largest specialized exhibition of the dyestuff industry, our association participated whole heartedly this year as well by taking a member's delegation led by President Mr Jitendra Patel and Past President Mr Janak Mehta to visit the Exhibition.

Exhibition opened on 12th morning with the



brief opening ceremony attended by many dignitaries and lighting of the traditional lamp. President welcomed all the dignitaries, exhibitors & visitors and wished them very fruitful meeting during the next 3 days of exhibition.

Environmentally-friendly products were the hallmark of this year's exhibition. Many well-known Chinese, Indian and international companies showcase advanced technologies and products to promote the ongoing development of the dyeing & printing (including Digital printing) industry. Exhibitors comprised of a variety of advanced environmentally-friendly dyestuffs, organic pigments, catalysts & intermediates manufacturers as well as environmental impact assessment equipment, digital textile printers in addition to printing and dyeing automation technologies and materials.

Indian participation also was much larger as compared to previous years with Chemaxcil taking bigger area and 'INDIA PAVILION' (the largest at the venue) spread over 1642 sq m with more than 140 stalls (exhibitors) from Indian dyes, pigment and intermediate industry. India Pavilion was inaugurated by H.E. Shri Prakash Gupta, Hon'ble Consul General of India, Shanghai.

During the exhibition, concurrent events including several specialized seminars were organized by Chinese Dyestuffs Industry associations & the China Dyeing and Printing Association on subjects like Micro Reaction Technology – a Green way for Dyestuff industry, Forum on Textile Digital Ink Jet Printing, Use of functional textile agents to cope with global environmental change. Additionally, during the exhibition, a number of well-known exhibitors hosted exchange meetings where advanced technologies and concepts were presented.

The DMAI delegation had very informative and updated interactive meeting with China Dyestuffs Industry Association (CDIA) on 15th April 2017. It was attended by President and Secretary of CDIA as well as leader's of the



Chinese dyestuff manufacturers. CDIA President shared data of overall Dyestuff industry in China. It has witnessed stable growth over the last few years. For 2016 financial year the production of dyestuff was 930,000 mt and 0.06% increase over previous year. Value was 60 Billion RMB. Organic pigment production was 230,000 mt and 2.6% increase over last year. Total exports were 230,000 mt and growth over last year was 5.0% CDIA President requested DMAI to send CD of recent COC 2017 proceedings and also expressed desire to attend such conference along with delegation in future.

Both sides have expressed that environmental regulations continue to get stricter. Indian Supreme court has issued very

strict notices to industries about imminent closures unless each unit has proper ETP set up. CDIA also commented that in China most companies are now in Industrial parks with CETPS. Individual companies will have to treat effluent to < 500 ppm COD and send to CETP, which in turn will have to treat it to approximately 50-80 COD and then release into water body.

The meeting concluded with both sides agreeing to exchange of documents/data/information from time to time that will be a useful way to share

and maintain data for both sides.

Overall it is a must visit exhibition for all the members of our association to stay up to date about the latest development in Dyestuff industry and one can meet a large number of exhibitors as well as visitors in just three days. If you decide to visit this exhibition next year, do join the DMAI group as there are many advantages such as you get most economical package with accommodation in comfort of a five star hotel and Indian food (including Jain food), English speaking tour escort and also cover important sight seeing places.

The 7th Interdye Asia will be held in Bandung, Indonesia's textile center, from November 1st to 3rd, 2017. ■

SINCE 1979



Bhavna Colourants LLP

*Exporters of Dyes, Paper Chemicals, Textile Auxiliaries, Pigments
(Powders & Dispersions) OBA, Deformers, Masterbatches,
Food Colours & Agro Chemicals*



BTC Bhavna Trading Co.

Dealers in Dyes & Chemicals



neva creations
radiance forever

The Jewellery Boutique

202/203, 2nd Floor, Dhoot Business Centre,
Plot No.74, R. B. Mehta Marg, 60 Feet Road, Ghatkopar (E), Mumbai-400077. India.

Tel. :- +91-22-25080033 / 44 / 55 / +91-22-25080606 / 0909
Sukesh Shah - 98201 53399 / Chaitanya Shah - 9820653377

Email : sukesh@bhavnacolourants.com / chaitanya@bhavnacolourants.com / chaitanya@nevacreations.com
www.bhavnacolourants.com / www.nevacreations.com / www.facebook.com/nevacreations

We already won all the awards but our quality products only for customer's satisfaction



Our Classic Products

Keviacid Dyes

Kevibasic Dyes

Kevi-Intermediates

Kevipound Pigments

Keviative Dyes

Kevirect Dyes



(A GOVT. OF INDIA RECOGNIZED EXPORT HOUSE)

(AN ISO 9001:2015 CERTIFIED ORGANISATION)

917262701 (AN ISO 22000:2005 CERTIFIED ORGANISATION)

Kevin Dyestuffs & Pigments give you a whole spectrum of possibilities with colours. Whether you want to brighten up your **Textiles, Plastics, Inks, Coating** and other products, add a few accents of our Dyestuff and Pigments which will add colours to your products. **Kevin have Dyestuffs & Pigments** to suit your needs.

Powerful Performance
KEVIN DYESTUFFS
AND PIGMENTS



Our Standard of Products

- ★ Philoshophy is our Policy
- ★ Dedication is our Defination
- ★ Reliability is our Relation
- ★ Quality is our Qualification
- ★ Performance is our Perfection
- ★ Export is our Excitement
- ★ Service is our Sensation

Corporate Office: 304/305, G-24 Gundecha Industrial Complex, Akurli Road, Kandivali (East) Mumbai - 400 101
INDIA ★ Phone: + 91 22 2884 6582/2884 6583/2884 6564/2884 6586 ★ Fax: + 91 22 2887 6419
Email: kevin@kevinindia.in ★ Email: krish_chem@hotmail.com

www.kevinindia.in ★ www.kevinpigments.com



67th Annual General Meeting & Awards Presentation Function of the Association
At Hotel Hyatt Regency, Sahar International Airport Road, Andheri (E), Mumbai-400099
On Friday, the 7th July 2017

PROGRAMME

First Session - Only for DMAI Members

- | | | | |
|-----------|---|--------------------------------------------------------------------------------------------------------------|-----------------------|
| 6.30 P.M. | - | Registration | |
| 6.45 P.M. | - | Welcome Address by President | - Mr. Jitendra Patel |
| 6.55 P.M. | - | Confirmation of Proceedings of 66 th AGM | - Mr. Jitendra Patel |
| 7.00 P.M. | - | Presentation of Annual Report on
DMAI Activities - 2016-2017 | - Mr. C. K. Singhania |
| 7.15 P.M. | - | Highlights of Financial Report for the
year 2016-2017 & Appointment of Auditors
for the year 2017-2018 | - Mr. Rajen Shah |
| 7.30 P.M. | - | Question and Answer Session | |

Second Session - For Members, Guests & Invitees

- | | | | |
|----------------------|---|-------------------------------------------|-----------------------------------------------------------------|
| 7.45 P.M. | - | Presidential Address | - Mr. Jitendra Patel |
| 7.55 P.M. | - | Awards Presentation
by the Chief Guest | - Mr. Virendra Widge |
| 8.25 P.M. | - | Introduction of Chief Guest | - Mr. Anjani Prasad |
| 8.30 P.M. | - | Address by Chief Guest | - Mr. Alexander Wessels
Chief Executive Officer,
Archroma |
| 9.00 P.M. | - | Vote of thanks | - Mr. Lalit Ganatra |
| 9.05 P.M.
Onwards | - | Cocktails and Dinner | |



Bodal Chemicals Ltd.

COLOURS. INTEGRATION. INNOVATION.

One of the
**World's
Leading**
manufacturers of dye
intermediates and dyestuff

**India's
Largest**
manufacturers of dye
intermediates

**Most
Integrated**
dyestuff player in India,
thereby reducing logistics
cost and enabling higher
margins

Produces the
chemicals for
**Detergent
Industry**
(L.A.B.S.A. - 90%)

Manufacturer of
**Water
Purification
Chemicals**

Strong global reach,
**Exports to
over 50
Countries**



**MOST INTEGRATED
INDIAN DYESTUFF
COMPANY**

Head Office

Plot No. 123-124, Phase-1, G.I.D.C. - Vatva, Ahmedabad - 382 445, Gujarat, India.

Phone: +91-79-2583 5437, 2583 4223, 2583 1684

Fax: +91-79-2583 5245, 2583 6052

info@bodala.com

CIN: L24110GJ1986PLC009003



Chief Guest



Alexander Wessels
Chief Executive Officer (CEO)
Archroma

Alexander “Xander” Wessels is at the helm of Archroma since its beginning in October 2013, bringing along 25 years of chemical, pharmaceutical and process industry experience.

Before joining Archroma, Mr Wessels spent 7 years at Royal DSM NV, where his last position was President and CEO of DSM Pharmaceutical Products, a global pharmaceutical ingredients and contract manufacturing organization.

Previously, he held various management and executive positions at Unilever, Quest International, ICI, and as Executive Committee Member of Campina.

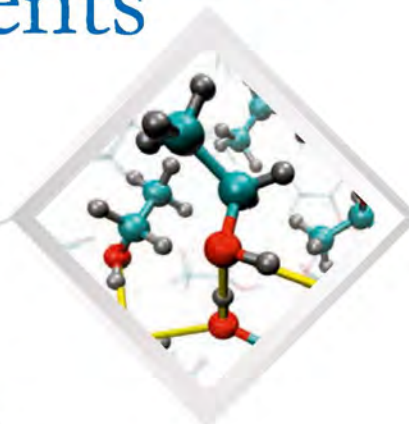
A Dutch native, Mr Wessels has lived and worked in a number of countries around the globe. He brought to Archroma an impressive track record of driving improved business performance, disciplined growth on a global scale and the implementation of strategic initiatives focused on high growth economies, innovation and sustainable solutions.

Mr Wessels holds an MSc in Molecular Sciences from Wageningen University in the Netherlands, and both an MSM and MBA from the Krannert Business School of Purdue University in the United States and Tilburg University, in the Netherlands.

LUMINOPHORE

Whiter Than White

Optical Whitening Agents



UNITED
SPECIALITIES [P] Ltd.

501, Man Excellenza, S.V Road, Vile Parle (W), Mumbai - 400056
Tel : +91-22 -26138053 • 91-22-26138054 • 91-22-2613 8055
sales@unitedspecialities.com • dvv@unitedspecialities.com



DMAI Awards Winners for 2016-2017

- i. Excellent performance in exports of Dyestuffs
Award for Large Scale Unit - **HUNTSMAN INTERNATIONAL (INDIA) PVT.LTD**
First Award for SME - **VEDANT DYESTUFFS INTERMEDIATES PVT.LTD**
Second Award for SME - **ARLEX CHEMI PVT.LTD**
- ii. Excellent performance in exports of Dye Intermediates
Award for Large Scale Unit - **BODAL CHEMICALS LTD**
- iii. Excellent performance in the field of exports of Pigments
Award for Large Scale Unit - **SUDARSHAN CHEMICAL INDUSTRIES LTD**
Award for SME - **KWALITY CHEMICAL INDUSTRIES PVT.LTD**
- iv. Excellent performance in the field of exports of Optical Whitening Agents
Award for SME - **ESKAY DYESTUFFS & ORGANIC CHEMICALS PVT.LTD**
- v. Excellent performance in exports of Dyestuffs/ Intermediates/Pigments/Optical Whitening Agents by a Merchant Exporter
First Award- **KEVIN (INDIA) CO.**
Second Award - **AMAR IMPEX**
Certificate of Merit - **ARCHROMA INDIA PVT.LTD**
- vi. Outstanding performance in Domestic Market
First Award for Large Scale Unit - **BODAL CHEMICALS LTD**
Second Award for Large Scale Unit - **SUDARSHAN CHEMICAL INDUSTRIES LTD**
First Award for SME- **COLORANT LTD**
Second Award for SME- **UNITED SPECIALITIES (P) LTD**
- vii. Excellent performance in Pollution Control
First Award for Large Scale Unit - **SUDARSHAN CHEMICAL INDUSTRIES LTD**
Second Award for Large Scale Unit - **HUNTSMAN INTERNATIONAL (INDIA) PVT.LTD**
- viii. Excellent performance in Safety & Hazards Control
First Award for Large Scale Unit - **ARCHROMA INDIA PVT.LTD**
Second Award for Large Scale Unit - **SUDARSHAN CHEMICAL INDUSTRIES LTD**

TOPPERS : Dyestuff Technology Dept., ICT, For The Year 2015-2016 and their Sponsors

- 1) **F.Y.B.Tech** : NIKITA GULGULE
Sponsored By : **SUN COLORANTS PVT.LTD**
- 2) **S.Y.B.Tech** : AKANKSHA SHRIDHAR
Sponsored By : **SAJJAN INDIA LIMITED**
- 3) **T.Y.B.Tech** : SHRUTI BIYANI
Sponsored By : **K. PATEL CHEMOPHARMA PVT. LTD.**
- 4) **Final Year B.Tech** : UDDHAV AJAY KANBUR
Sponsored By : **ARCHROMA INDIA PVT. LTD**
- 5) **M.Tech 1ST Year** : PRITESH PATIL
Sponsored By : **FORMOKEM (INDIA) CORPORATION**

Trophies carry with them a cash award of Rs.10,000/-

EVERY FABRIC is COLORANT[®] WORTHY



**Be it cotton, chiffon,
polyester, or denim...**

Every fabric that needs colour, needs
COLORANT.

Because it is one brand that goes
through the toughest testing
conditions and adheres to the most
stringent quality norms.

So that customers' satisfaction
doesn't fade away with time.

COLORANT is also India's fastest
growing company, apart from being
an ISO 14001:2004 company.

Need we say more ?

GOTS
certified Reactive Dyes



COLRON[®] Reactive Dyes

www.colorantindia.com

COLORANT[®]
Not just another Brand.

Quality is colorant



Glimpses of the activities of DMAI during 2016-2017

- Various representations to the Dept. of Chemicals & Petrochemicals, Ministry of Chemicals & Fertilizers, GOI, on following issues:
 - Comments on Setting up of Central Institute of Chemical Engineering and Technology (CICET)
 - Suggestions on Amendment / Up-gradation of India -Korea CEPA and Expansion on India - MERCOSUR preferential Trade Agreement (PTA)
 - Inputs on Rules of Origin under the proposed India-Mauritius comprehensive economic cooperation and partnership agreement (CEPA)
 - Submission of information on power requirement for the colorant industry till 2027
 - Representation for inclusion of Fluorescent Brightening Agents/Optical Brightening Agents on imports into Australia & New Zealand for tariff concession
 - Comments on Regional Comprehensive Economic Partnership (RCEP)a Free Trade Agreement (FTA) among 16 countries
 - Representation on Sec. 38 – Refund of Tax (Sub-Sec.4A)
 - Notes on REACH, Skill Development and Ease of Doing Business for the proposed Round Table Conference.
- Submitted to the Ministry of Environment, Forests and Climate Change, GOI a brief write-up on the environmental issues of Dyes and dye Intermediate sector.
 - Representations to the Dept. of Revenue, Central Board of Excise & Customs, Ministry of Finance, GOI requesting to reinstate the DBK rates
 - Submitted details of 5 best practices adopted by the colorant industry to CPCB,
 - Representation to Municipal Corporation of Greater Mumbai for Renewal of 'N' Form.
 - Conducted 66th Annual General Meeting and Awards Presentation Function on 1st July 2016 at Hotel Sea Princess, Mumbai
 - Participated in the 9th edition of India Chem 2016 organized by FICCI in Mumbai from 1st to 3rd September 2016.
 - Attended meeting to set up Central Institute of Chemical Engineering and Technology (CICET) organized by the Dept. of Chemicals & Petrochemicals, Ministry of Chemicals & Fertilizers, GOI on 22nd September 2016 in Mumbai
 - Conducted Half Yearly Meeting at Hotel Promenade, Puducherry on 12-15 January 2017.
 - Organised 7th edition of International Convention on Colorants -2017 on 9-10 February 2017 at The Club, Andheri (W), Mumbai
 - Led delegation to China Interdye 2017 Exhibition from 12th to 14th April 2017 at Shanghai, China.
 - Presentation by Imm. Past President Shri Janak Mehta on 'Analysis on Environmental Standards of India's Textile Industry' at the Asia Textile Innovation Forum 2017 in Mumbai on 20th April 2017.
 - Participated in the Seminar on GST Trade Awareness organized by Chemexcil on 9th May 2017 in Mumbai.
- Submitted Budget Proposal for the Union Budget 2017-2018
 - Regular publication of DMAI NEWSLETTER on quarterly intervals.
 - Monthly publication of DMAI page in Colourage of Colour Publications



devarsons

Group Estd. 1923

The Colour Solution Company

An ISO 9001: 2008, ISO 14001:2004, OHSAS 18001:2007 Company
In house R&D Unit Recognized by Govt. Of India, DSIR, N. Delhi
Govt. Recognized Export House

Devarsons Industries Pvt. Ltd.

441 GIDC, Odhav Ahmedabad 382 415 India.
www.devarsons.com



Glimpses of AGM & Awards Function: 2016



Chief Guest addressing and Office Bearers on the Dais



DMAI Award Winners with Chief Guest



An Attentive and colourful audience



SKAYWHIT OPTICAL BRIGHTENERS

FOR
TEXTILES
DETERGENTS
PAPER

AVAILABLE IN
POWDER AND
LIQUID FORM.

ESKAY DYESTUFFS & ORGANIC CHEMICALS PVT. LTD.
22-D, S. A. BRELVI ROAD, FORT, MUMBAI - 400 001
EMAIL: SALES@ESKAYINDIA.IN/ESKAY_DYESTUFFS@VSNL.COM | WWW.SKAYWHIT.COM
TELEPHONE: +91-22-22870305/2288 0647 | FAX: +91-22-2287 0644





Getting Best Value from Meetings



Mr. Prakash Rastogi
President of ORPIP Global

Meetings are integral activity of business and represent the single largest expense that most organizations spend on their people. Business meetings are organized primarily for the purpose of resolving problems, informing or taking decisions but they can turn out to be time wasters, stressful and ineffective. A significant opportunity exists today in business to transform business meetings from passive process into highly effective and truly collaborative events filled with enthusiasm, energy and positive participation.

While there is no exact data available in India, a rough estimate indicates that more than a million meetings take place in corporate India every month. A recent survey done in USA also found that 82 percent of managers thought their time was wasted in at least half of the meeting they attend. A study conducted by the University of Minnesota, USA found that the amount and length of meetings correlate with "Negative effects" (anxiety and depression) on its participants.

Problems of Meetings

The most common problems with business meetings are that organizers try to accomplish too much, meetings lack clear purpose, have weakly defined roles for participants and there is no clear outcome in many meetings. Too often, participants spend their valuable time for meetings in which they have no real role. If objectives have been identified, the agenda may not truly reflect the purpose. In many meetings there may not be an established process to allow each participant to contribute to objectives of the meeting. It is common problem that meetings extend beyond agreed time schedule and minutes are prepared late. These pitfalls not only make meetings ineffective but also make business meetings a costly spends for organization.

Cost of a Meeting

Though managers regularly take part in the meetings yet seldom they are aware of the cost of meetings. Every business meeting comes at significant cost when one considers all the investments made to hold the meeting; the investment of the participant's time, cost of travel time to attend, facility and support

services used and loss of work schedules and productivity. Consider this example:

- An organization in Mumbai where 10 executives participate in a 4 hour functional meeting, the average personal cost to the company is around 1.0 lakh per month, the overall cost of the meeting could be anywhere around Rs. 50,000 after considering all other overhead cost.

Considering this, it is important to think: does the meeting create a total value in excess of the cost or is it destroying the value. Every business meeting therefore presents an opportunity for the organization and participants to improve the return on investment.

Value from Meetings

Meetings are economical interactive tool for effective communication, generating creative ideas, reinforcing team development and expanding group activity. But this face-to-face contact process with team members can contribute value only when there is proper planning, preparation and conduct and follow up of meetings.

So how do we create meetings that are really effective? How can we streamline meetings, keep them more on-purpose, inject them with participant's enthusiasm and build a sense of value and positive anticipation. Even more importantly, how can we bring out the true strengths of participants to develop a dynamic, business focused organization culture through meetings?

While there could be several possibilities, experience shows that organizations and participants can improve the value from meetings by broadly following the three stage process outlined below:

Preparing for the meeting

Define the purpose of the meeting

The first thing is to decide whether there is really a need to call the meeting. Can the issue intended to be discussed be resolved by an individual discussion or



through a conference call? As a practice, every meeting should have a clear purpose. All participants should know: "What is the purpose of this meeting".

Once it has been decided to hold a meeting, determine who needs to attend. If some members are required to attend only the parts of the meeting that involves them, it should be clearly decided; this way discussion can be kept more focused.

Give proper attention to agenda of the meeting

- Prepare a detailed agenda when scheduling the meeting with clearly defined goals. Agenda should clearly mention the name of chairman, secretary, list of participants, venue and time schedule -start and closing time of the meeting.
- Agenda should outline list of topics to be covered, who will be presenting the different topics, time allocated and information required for discussions and decision.
- It should provide guidelines (templates, etc) for presentation of each contributor. The better expectations are communicated to contributors, the better the meetings will go. One can achieve predictable results faster by applying structured activities as these help participants make methodical progress toward results.
- The basic agenda can be structured in five columns as shown below:

Topic	Time	Presenter	Information for Discussion	Decision

The agenda should be sent to all the participants well before the meeting to enable them to complete their preparation. Specific attention should be given to the venue of the meeting particularly to presentation equipments and sitting arrangements as all these can affect the tone and progress of the meeting.

An agenda is a very good tool to keep participants on track during the meeting; it acts as a reference point for the meeting and represents a standard with which success and progress of the meeting can be evaluated.

Managing the Meeting

Chairman's role

The success of the meeting depends largely on the skills displayed by the meeting chairman. The chairman in fact, is the manager of the meeting. His main role is to ensure that the purpose of meeting is achieved in time and people participating in the meeting have all contributed to the achievement. Leadership is a major factor in the success or failure of the meetings. There are three main responsibilities of

the chairman:

- Managing the process,
- Managing the time and
- Managing the people.

It is chairman's responsibility to motivate participants to act as a team, enable them to make consensus decision and energize them to work together to implement agreed decisions.

Chairman's tasks

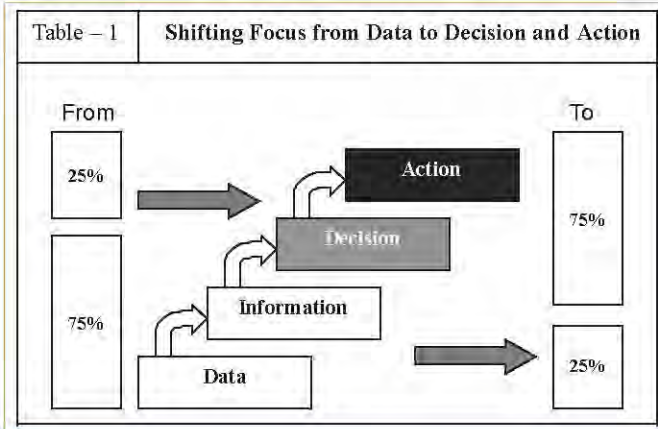
To ensure the meeting is successful, the chairman should:

1. Start the meeting at the designated time, regardless of whether everyone is present. Chairman should avoid taking too much time to summarize for latecomers; doing so sends the message that it is all right to be late for meetings and it wastes everyone else's valuable time.
2. Try to start the meeting with positive, straightforward and consensus building topics before heading into topics which are likely to take more time for discussions.
3. Allocate a specific amount of time for each issue. It is good practice that chairman should have in front of him a wall clock or a watch to help monitor the time. The chairman should move through issues, allowing for discussion but discouraging digression or repetition.
4. Start the discussion and encourage active participation from everyone. The process should allow participants to contribute according to their individual strengths.
5. Should effectively coordinate with secretary, who should document what's going on in the meeting. It is secretary's task to record key decisions, agreements and actions during the meeting and convert these notes into minutes.
6. Avoid distractions. It is a common experience that in most meetings one would always find someone from participants who would come and go from the meeting place distracting other's attention. One person behaving disruptively can drag down the whole team. These situations have to be managed on a case-by-case basis.
7. Should follow a structured path by ensuring that the meeting direction moves more from data to information and then to decision and action. Experience has shown that in large number of organizational meetings more time is spent on discussing voluminous data and little time is available for decisions and actions. A general



Feature

guideline is that data and information should not take more than 25 percent of available time and 75 percent time should be spent on decisions and actions (Table-1). Participants should know how decisions are made and consensus decision-making is the key for the success of the meeting.



8. Summarize the discussion and the recommendations at the end of each logical section. When an agenda item is resolved or action is agreed upon, make it clear who among the participants will be responsible for implementing the actions and include this in the meeting's minutes.
9. Review the meeting process, before closure of the meeting by asking participants: What worked well in the meeting? What can be done to improve the next meeting? This regular feedback from participants strengthens the involvement and motivation and results in continuous improvement in productivity of meetings.
10. Close the meeting before the stated closer time if everything planned in the meeting has been achieved.

Mr. Prakash Rastogi is the President of ORPIGlobal - a management consultancy organization which works with companies on profitability improvement and business strategy. Earlier he was a Vice-Chairman and Managing Director of Clariant (India) Limited from 1995 to 2006 Mr. Rastogi obtained M.Sc (Tech) from Mumbai and subsequently studied business management in Mumbai and at University of Michigan. Mr. Rastogi has over 40 years of experience in marketing, human resources and strategic management. He can be reached at orpipglobal@yahoo.in

Post meeting follow up

Preparing minutes

- Minutes are record of decisions taken and the actions agreed. Minutes should be short, concise and should clearly indicate who is responsible for actions and by when it will be completed. A suggested guideline for recording minutes is given below:

Minute No.	Decisions & Actions	Responsibility	Target Date

- The minutes should be prepared and sent to all participants within two working days. A good business practice in many organizations is that the minutes are prepared by the secretary during the meeting itself and actions and deadline are agreed at the end of the meeting itself. Such actions can significantly contribute in improving enthusiasm and commitment of participants to act on decisions agreed during the meeting.
- Minutes provide a record of the meeting and importantly they act as a review document for use at the next meeting so that progress can be measured and performance and non-performance of agreed actions is given high visibility.

Conclusions

Manager and meetings are inseparable reality; Meetings are in fact integral part of manager's working life. Meetings should not be seen as creating work pressure but should instead be taken as an opportunity to practice team working and strengthen managerial capability. So, next times you are a part of the meeting follow the simple tips given and you can contribute in improving the productivity of the business meeting. ■



News

DMAI Membership with FICCI

We are pleased to inform that DMAI has recently enrolled its membership with FICCI in addition to the existing membership with Indian Chemical Council (ICC) and Indian Merchants' Chamber (IMC).



Manufacturer & Exporter of Dyes & Pigments, Innovatively

K. PATEL CHEMOPHARMA PVT. LTD.

(Government recognised export house)

ISO 9001:2008 & 14001:2004 Certified

Product Range :

Basic & Solvent Dyes • Pigments & Pigment Dispersion

*Manufacture Dyes & Pigments as colorants
for varied customer specific solutions cost effectively;
confirming to international standards, quality, best process' and sustainable environment
with ethical & fair practices with all stakeholders
aiming for global market leadership in the space*



Corporate Office :

A-101, "Alaknanda", Annasaheb Vartak Marg, TPS III, Borivali (West), Mumbai-400 092. INDIA

Tel.: 91-22-2899 4142, Fax : 91-22-2898 6067, 2899 0583

Email : sales@kpateldyes.com, Web : www.kpateldyes.com



K. PATEL CHEMOPHARMA PVT. LTD.

Works : Plot No. 166, B.I.D.C.
Aridkshetra - 383 002, Gujarat, INDIA.
Tel.: 91-2946-8941/91 / 92 / 93 / 94



K. PATEL CHEMOPHARMA PVT. LTD.

Works : Plot No. 167, G.I.D.C.
Aridkshetra - 383 002, Gujarat, INDIA.
Tel.: 91-2946-8941/92



DEVANSHI DYEWORKS

Works : Plot No. 141/2 F, G.I.D.C.
Aridkshetra - 383 002, Gujarat, INDIA.
Tel.: 91-2946-8941/93

Spinel Pigments: Properties and Applications



Prajakta Badve

B. Tech. (Dyestuff Technology), Institute of Chemical Technology, Mumbai, India

Introduction

A pigment is a finely divided solid colorant used to impart colour to a substrate on which it is applied. The main difference between a dye and a pigment is that the former is soluble in the medium in which it is applied whereas the latter is not. Also, dyes are mainly used for textile applications. Pigments are used in paints, inks, plastics and cosmetics. While organic pigments are just about 150 years old, inorganic pigments have been known since prehistoric times. The inorganic pigment industry began manufacture in the 18th century with products such as Berlin blue, cobalt blue, Scheele's green and chrome yellow. The 20th century saw the introduction of pigment cadmium red, manganese blue, molybdenum red and mixed oxides with bismuth into the market.

Inorganic pigments

Inorganic pigments are made up of mineral compounds such as metal oxides and sulphides. These pigments are obtained either from naturally occurring mineral sources or are synthesized in manufacturing plants. Inorganic pigments are available in different forms – powders, pastes, slurries, suspension etc. In general, inorganic pigments exhibit excellent light fastness and resistance to chemical exposure. While organic pigments are transparent inorganic pigments are opaque.

The classification of inorganic pigments [1][2] is presented in Fig. 1. Spinel pigments belong to the class of complex inorganic pigments which are synthetic crystalline metal oxides that have structures identical to those of naturally occurring minerals. Since they contain two or more different metals, they are called complex pigments. This complexity gives a range of metal combinations and in practice gives a wide range of colours. CICPs have excellent acid, alkali fastness and light fastness in tints. They show no fading and are best suited for outdoor applications. Their tinctorial value is weak and hence they appear expensive but in performance they are excellent. They are the most stable and durable type of colorants commercially available. All these pigments contain transition metals which are responsible for producing colour. CICPs can themselves be classified as given in Fig. 2. Spinel pigments belong to the most important AB_2O_4 oxide class. The majority of CICPs are from this class.

Spinel pigments

A typical spinel pigment is a closely packed cubic array of oxygen ions and metal cations with an O/M ratio of 1.33. The spinel structure contains transition metal ion in different oxidation state. There are two distinct coordination environments for metal ions in spinel.

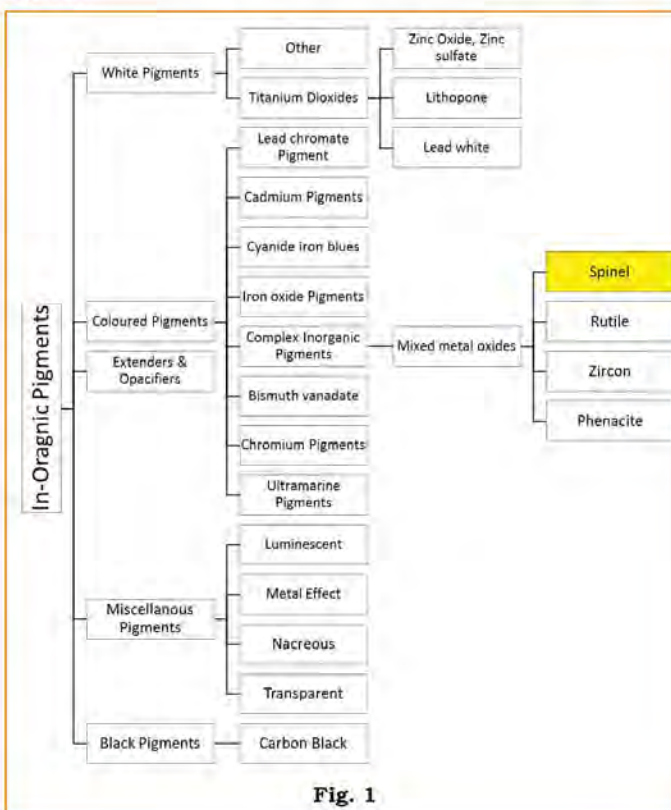


Fig. 1

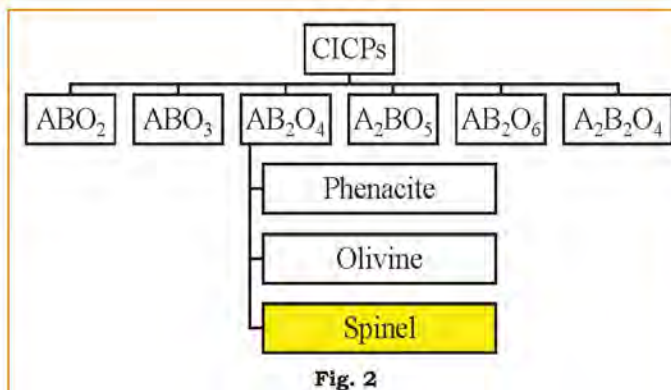


Fig. 2



One site is octahedrally coordinated by the oxygen ions, while other is tetrahedral coordinated. [3] In spinel compounds, the unit cell is a closely packed cubic arrangement of 32 anions with 24 cations distributed in certain intersections/voids between the anions. Among the total number of cations 8 of them occupy tetrahedral sites and the remaining 16 cations occupy octahedral sites.

Synthesis and application

Spinel pigments are produced by calcination (i.e. by strong heating in air) of an intimately mixed blend of metal salts, hydrates and carbonates. The calcination process is accomplished via a non-isothermal firing process run in an electric furnace operated in a temperature range of 1100-1180°C. The actual calcination temperature range is 650 – 1300°C. At low temperatures, the starting materials comprising the respective metal carbonates and hydroxides undergo a decomposition process to form metal oxides. At higher temperature, the metal oxides thus formed react with each other to give the desired inorganic spinel pigment. [4] The calcination product is leached by washing with water. The pigment is then milled to achieve a specific particle size, washed and blended properly to give the final spinel pigment. The milling process can either be a wet grinding process or a dry pulverization process. Table 1 lists typical spinel pigments of five different types.

materials and magnetic materials.^[6] Spinel pigments are also used in paints, plastics, and building materials. $ZnFe_2O_4$, $MgFe_2O_4$, $CaFe_2O_4$ are used as anticorrosive pigments.^[5] $ZnFe_2O_4$ nanoparticles are also used^[7] for the synthesis of polyaniline/ $ZnFe_2O_4$ nanocomposites.

Ferrite spinel pigments are used to prepare epoxy coatings and water-borne styrene-acrylate coatings that are subjected to post-application tests for physical-mechanical properties and anticorrosion properties.^[8] A magneto-photothermal therapy for cancer (in vitro photothermal therapy of prostate cancer cells and in vivo photothermal therapy of human glioblastoma tumours in the presence of an external magnetic field) was developed by using super paramagnetic zinc ferrite spinel ($ZnFe_2O_4$)-reduced graphene oxide (rGO) nanostructures. In vitro application of a low concentration of the $ZnFe_2O_4$ -rGO (20 wt%) nanostructures under a short time period (1 min) of near-infrared (NIR) irradiation resulted in extensive destruction of prostate cancer cells in the presence of a 1 Tesla magnetic field used for localizing the nanomaterials at the laser spot. In the absence of a magnetic field, $ZnFe_2O_4$ -rGO resulted in only 50% cell destruction.^[9]

Conclusion

Spinel pigments are complex inorganic coloured substances that possess two or more than two

Table 1: Examples of spinel pigments

Pigment type	Example	Formula	Hue	Applications [4]
Titanate	Pigment Green 50	$CoTi_2O_4$	Green	Artist colours, ceramics, automotive paints, coil and wire coatings, engineering resins, exterior paints, industrial coatings, military camouflage, plastics, porcelain enamels, roofing granules, vinyl sliding
Aluminate	Pigment Blue 28	$CoAl_2O_4$	Dark blue	
Chromate	Pigment Green 26	$CoCr_2O_4$	Bluish green	
Black	Pigment Black 26	$(Fe,Mn)(Fe,Mn)_2O_4$	Black	
Ferrite	Pigment Brown 33	$(Zn,Fe)(Fe,Cr)_2O_4$ dark brown	Medium brown to	

All pigments listed in the table exhibit excellent light and weather fastness, heat resistance up to 1000°C and excellent acid/alkali and solvent resistance.

Spinel pigments are classified with respect to conservation of electronegativity principle (viz., 2-3 type, 4-2 type, 6-1 type). The 2-3 type of spinel pigments is the most common and colourful and finds application in the ceramics and plastics industries.^[5] Many spinel pigments are used as colorants for ceramics and porcelain enamels. They cover a wide range of colours and many of them are thermally stable up to 1400°C. They are used not only as heat resistant pigments, but they have a great importance as catalytic

transition metals. These transition metals are responsible for imparting colour to these pigments. Spinel pigment have important application from corrosion resistance to cancer treatment.

References

1. Ullmann's Encyclopedia, Sixth Edition, Volume 26, p 651.
2. Kirk-Othmer Encyclopedia, Fourth Edition, Volume 19, p 27.
3. Bauxbaum, Industrial Inorganic Pigments, 3. Coloured Pigments, p 100.
4. Hugh M. Smith, High Performance Pigments, Complex Inorganic Pigments: An Overview, p 44.
5. A. Kalendova, Application of spinel pigments in



Feature

- anticorrosive heat-resistant coatings, Pigments & Resin Technology, volume 29, number 3 (2000), p 166.
- Zaneta Mesíková, Petra Sulcová and M. Trojan, preparation and practical application of spinel pigment $\text{Co}_0.46\text{Zn}_0.55(\text{Ti}_0.064\text{Cr}_0.91)_2\text{O}_4$, Journal of Thermal Analysis and Calorimetry, Vol. 84 (2006) 3, p 733–736.
 - Preparation, Structural, and Electrical Studies of Polyaniline/ZnFe₂O₄ Nanocomposites, Journal of Applied Polymer Science, Vol. 120, p 2856–2862 (2011).
 - Prof. Ing. Andřea Kalendová, Dr. Ing. Miroslav Ulbrich, Prof. Ing. Petr Kalenda, CSc, the study of properties of ZnFe₂O₄ in inorganic coating depending on the structure and morphology of primary particle of Fe₂O₃.
 - Omid Akhavan, Alireza Meidanchi, Elham Ghader and Samideh Khoei, Journal of Materials Chemistry B, DOI: 10.1039/c3tb21834a (2014). ■

Prajakta Badve has completed her B.Tech in dyestuff technology in May 2017, and is now working on a novel reactive dyeing method. Along with applications of the spinel type of pigments, she has also worked on chemistry and variation in structures, classification and colour chemistry of the spinel pigments. She has a deep interest in synthetic organic chemistry and biological chemistry. She has also worked on the synthesis of ortho-Hydroxy benzhydrol and its reactivities towards bronsted acid catalysed substitution reaction. She proposes to do PhD in organic chemistry.



Forthcoming Events

SpCHEM World Expo - 2017

The 3rd edition conference on 'CHEMTECH – SpCHEM World Expo 2017 - The World Forum for Specialty Chemicals in India has been arranged from 13th to 15th December 2017 in Hyderabad. A detailed circular regarding the expo has already been sent to our members on 8th June 2017.



Tariff for Advertisement in DMAI Newsletter

Per annum for 4 issues		
Position	For Members Rs.	For Non-Members Rs.
Back Cover	24000	28500
Inside Cover	18000	21500
Colour Page	14500	17000
Inside page Black & White	10000	12000
For single issue		
Position	For Members Rs.	For Non-Members Rs.
Back Cover	7500	10000
Inside Cover	6000	7500
Colour Page	5000	6000
Inside page Black & White	3500	4000

- Positions subject to availability
- Size of full page advertisement - 19 cm x 25 cm
- Advertisement charges to be remitted in advance

Print with The Power of Kwality Inks

An ISO 9001:2015
CERTIFIED COMPANY



Adding colours to your life

INKS

PIGMENTS

RESINS

- Operating in the Printing Industry for more than 4 decades
- Product Portfolio includes the Fanal Toners, Basic Dyes, Organic Pigments, Flushed Pigments, Resins & Varnishes, Additives, Fluorescent Concentrates, Security Inks, Concentrates for Ink Mixing Kitchen and Printing Inks.
- Applications served - Printing Inks, Plastics, Paints and Coatings
- Backward Integration with the facilities for Pigments, Flushed Pigments and Resins manufacturing
- Laboratory with sophisticated instruments to measure all the parameters of printing inks
- Matching Inks and Special Inks available with Spectrophotometer test reports at unbelievable prices
- Printing experts available for troubleshooting at all times
- Government of India Recognized Star Export House

Kwality Chemical Industries Pvt. Ltd.

Office - W-333/334, T.T.C. Industrial Area, M.I.D.C., Rabale, Navi Mumbai - 400701
Ph. - 022-27603072 / 3 Email - info@kwalitychemical.com



Enquiries -

- Organic Pigments and Toners - +91(022) 27603072 / 8080812813 / 9222223332
- Resin, Varnishes and Additives - +91(022) - 27614049 / +91-9819598080
- Inks, Flushed Pigments and Concentrates- +91-9321128080



- Regional Offices -

North - 09311210666 East - 09331355707 Mumbai - 09987912500 South - 09791188398 West - 09320151552

Mumbai 09331355707

Matching Centre

Kolkata 03325222505



China Interdye 2017 Exhibition

The 17th Edition of China Interdye 2017 Exhibition from 12th to 14th April 2017 was organized by China Dyestuff Industry Association at Shanghai, China. DMAI led a delegation of 19 members to the event. We had an interactive meeting with China Dyestuffs Manufacturers Association (CDIA), wherein many issues concerning the colorant industry were discussed and deliberated.

Asia Textile Innovation Forum 2017

A two day Asia Textile Innovation Forum was held at Hotel JW Marriot, Juhu, Mumbai on 19th and 20th



Mr. Janak Mehta making a presentation

April 2017, which covered various topics related to innovations in Textile processing and Green Chemistry. Imm. Past President Mr. Janak Mehta's presentation on "Analysis of Environmental standards of India's Textile Industry" during the event was very much appreciated by Senior

Managers from the Industry, who were present at the Forum. President Mr. Jitendra Patel and 1st Vice President Mr. Virendra Widge also attended the Forum.



Office Bearers and other participants

GST Trade Awareness Seminar

GST Trade Awareness Seminar was organized by Chemexcil, in association with Service Tax Department, Mumbai jointly with our Association on 9th May 2017. Mr. C.K Singhania, Hon. Secretary briefly addressed the audience on behalf of DMAI. The Topics - Introduction to GST, Overview of GST, Registration, Returns and GSTN were very well covered by Ms. Priya Jadhav, Assistant Commissioner, ST-1 and Mr. Yogesh Loke, Assistant Commissioner, ST-2. During the interactive session, the members' questions were very well handled by the Service Tax Officers. Apart from Mr. C. K. Singhania, the seminar was attended by 1st Vice President Mr. Virendra Widge, Managing Committee member Mr. Ramesh Doshi and many DMAI members.



The Experts on the dais



Question Answer in Session

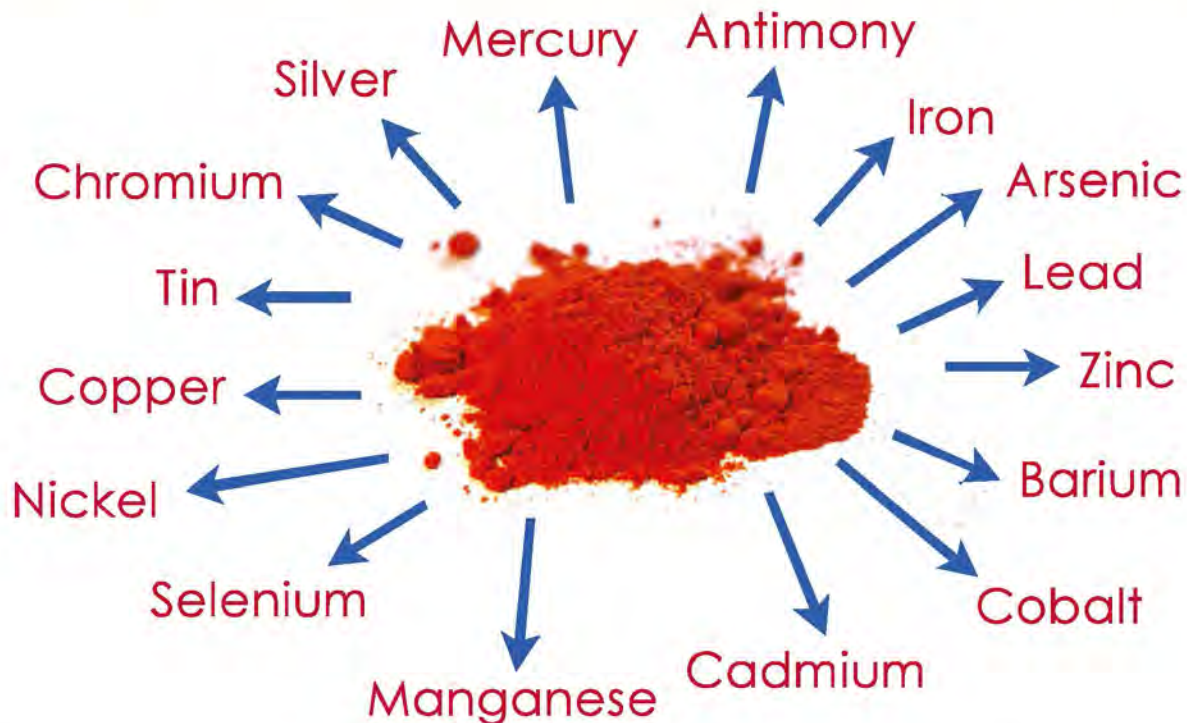
Heavy Metals Testing

NimkarTek Detox Laboratory

NDL is an ISO/IEC-17025 accredited laboratory located at Mumbai



Check Total Heavy Metals compliance to ETAD Code of Ethics, ZDHC MRSL and Ecolabel criteria such as GOTS & OekoTex 100.



NimkarTek Detox Laboratory (NDL) offers this service, using our ICP-OES, to test above 16 Metals

For your queries, contact:

anagha.nimkar@nimkartek.com | +91 9819641527

prasad.pant@nimkartek.com | +91 9920533535

Send your samples to:



NimkarTek Technical Services Pvt. Ltd.

3rd Floor, Narmada, Laxmi Industrial Complex,
Vartak Nagar, Pokharan Road No. 1, Thane (W)
400 606, India.

With Best

Compliments from.....



(AN ISO 9001:2008 & 14001:2004 COMPANY)

MANUFACTURERS & EXPORTERS OF PIGMENTS

(PHTHALOCYANINE BLUE & GREEN PIGMENTS)

WORKS:

SUBHASRI PIGMENTS PVT. LTD.

PLOT NO. 1213/1201/1202/1211 G.I.D.C. INDL. ESTATE

ANKLESHWAR – 393 002

PHONE – 02646- 221780 / 220918

MARKETING OFFICE:

SUBHASRI PIGMENTS PVT. LTD.

402 'TANISHKA'

NEAR-BIG BAZAR, AKURLI ROAD,

KANDIVLI (EAST), MUMBAI-400101

PHONE - 91- 22-28844034, 28853797

FAX - 91- 22-28845184

EMAIL: - dhananjay.s@subhasripigments.com

SUN LEATHER DYES

WE MAKE LEATHER COLOURFUL



SUN COLORANTS (P) LTD

AN ISO 9001 : 2008 & ISO 14001 : 2004 COMPANY

CELL : +91 99789 93199 E-mail : lalit@suncolorants.com

WITH BEST COMPLIMENTS FROM :

VEDANT DYESTUFFS INTERMEDIATES PVT LTD

**MANUFACTURERS OF ACID & DIRECT DYES FOR
LEATHER, TEXTILE & PAPER**

**301/306 Neelkanth Commercial Centre, 3rd Floor,
Plot No. : 122-123, Sahar Road,
Andheri (East),
Mumbai – 400 099**

Phone : (91-22) 2824 8614 / 2835 4415

Fax : (91-22) 2821 1070

EMAIL : admin@vdipl.com

WITH BEST COMPLIMENTS FROM

HUNTSMAN

Enriching lives through innovation

Huntsman International (I) Pvt Ltd

: Regd Office :

Lighthall B-Wing, Saki Vihar Road,
Andheri (E), Mumbai 400 072
Website : www.huntsman.com

: Site Office :

P.O. Umraya, Padra,
Dist.Vadodara-391440, Gujarat

We lead, others follow.



experience
Sudarshan

We're here to solve colour problems.

Searching for the perfect colour doesn't have to be difficult. Just call on Sudarshan and let our color formulation experts go to work for you.

We have over 60 years of experience developing pigments for paints, plastics, inks, construction, textiles and cosmetics. We ensure quality and performance by manufacturing in our own facilities, and our wide range of High Performance pigments meet all international standards.

With offices around the world, our custom-tailored support services are always nearby. With the excellent quality and exceptional value of our products, you're sure to find peace of mind.

Sudarshan Chemical Industries Ltd.

Global Head Office:
162 Wellesley Road
Pune - 411 001, India
Tel: +91 20 262 58 888
Fax: +91 20 260 58 222
Email: contact@sudarshan.com

Sudarshan Europe B.V.

Kingsfordweg 151
1043 GR Amsterdam
Tel: +31 (0)20 403 7504
Fax: +31 (0)20 403 7502
Email: eu@sudarshan.com

Sudarshan North America Inc.

76 N. Walnut Street
Ridgewood, NJ
USA 07450
Tel: +1 201 652 2046
Email: usa@sudarshan.com

Sudarshan (Shanghai) Trading Company Ltd.

Room 1911, 19/F New Hualian Mansion,
East Wing, No. 755 Middle Huaihai Road,
Huangpu District, Shanghai, China, 200020
Tel: +86 21 2215 7500, +86 21 2215 7559
Fax: +86 21 2215 7463
Email: china@sudarshan.com

www.sudarshan.com

First choice for new formulations

SUDARSHAN