

# HORIZONS



(ISCMA President Mr Vinay D Patil, Past President Dr K. M. Shah welcome Union Cabinet Minister Mr Nitin Gadkari & Mr Nikhil Meshwani –Reliance Industries during India Chem on 4th October 2018)

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"ROLE OF POLYMERS IN SPECIALITY CHEMICALS"

**EDITORIAL BOARD**

Dr. K. S. Murthy  
Shri. Vinayak M. Natu

**Fastest growing manufacturer in speciality chemicals offers its national and international clients innovative range of performance chemicals such as:**



### ❖ POLYMER ADDITIVES & WAXES

- ❖ Polyethylene Waxes (Oxidised, Non Oxidised)
- ❖ Internal / External Lubricants for PVC
- ❖ Release Agents for Plastics
- ❖ Fatty Bisamide Waxes
- ❖ Antistatic Agents for Plastics
- ❖ Synthetic Waxes
- ❖ Fatty Acid Esters
- ❖ Processing Aids



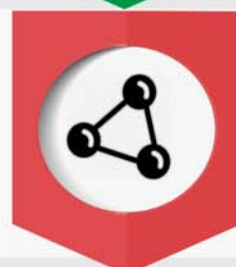
### ❖ AQUEOUS WAX ADDITIVES

- ❖ Paraffin Wax Emulsions (Anionic, Non Ionic & Cationic)
- ❖ High Density Polyethylene Wax Emulsions (Non- Ionic)
- ❖ Low Density Polyethylene Wax Emulsions (Non-Ionic, Cationic)
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### ❖ LUBE OIL PACKAGES / METAL WORKING FLUIDS

- ❖ Soluble Cutting Oil Additive Package
- ❖ Rust Preventive Oil Additive Package
- ❖ Knitting Oil Emulsifier Package
- ❖ Semi Synthetic Cutting Fluid
- ❖ Drop Point Improver for Grease



### ❖ ADDITIVES / ESTERS / AMIDES

- ❖ Esters: Sorbitan, Mono, Di Esters, Glycerol, Polyol etc.
- ❖ EP/ Antiwear Additives - Phosphate Esters.
- ❖ Corrosion Inhibitors - Alkyl Imidazoline, Amine Borate, Amides.
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### OUR BRANDS



### Industries / Applications :

**Metal Working Fluids | PVC Stabilizers | Rigid PVC Pipes & Fittings | Construction Chemicals  
Mould Release Agent | Printing Inks | Textile | Hot Melt Adhesive | Explosive | Master Batches  
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Corporate Office:  
1104-1105, Cyber One, Plot No. 4-6, Sector No. 30 A, Vashi, Navi Mumbai-400703,  
Maharashtra, India.  
Contact: +91-022-68172100 (100 Lines), Email: info@qci.in / sales@qci.in, Visit- www.qciindia.com  
Works: Khalapur, Dist. Raigad, Maharashtra, India.

## From the President's Desk



Dear Members.

At the outset I would like to thank the members on electing me as President of this august body for the next two years. I have inherited this position vacated by Shri Kashiprasad C Murarka who has brought ISCMA to its glorious heights. Now the responsibility on my shoulder has increased to maintain the glorious heights and to take it to the next level. I have confidence that with the help of managing committee and all immediate past Presidents, I hope to serve the association to achieve the results to match the glorious past. We are passing through an anxious time when the growth has been stagnated, inflation on the rise as well as depreciation in Indian rupees, Export slow down.

Though the scenario looks grim, the potential for growth and business opportunities particularly for our country in Speciality chemical sector seems very optimistic. The role of association can address the challenges of Speciality chemical manufacturers' by increasing interaction among members as well as providing common platform and necessary support in terms of compliance on environmental issues, responsible care, safety and health, REACH regulation, Eco certification & other capabilities will bring us into the competitiveness on global level.

We are emphasizing to conduct activities for our members to increase their business. In last six months we have conducted many activities such as participation in India-Chem in association with FICCI, Workshop on E-Way bill, ICT award function, Diwali get together and many more. The response from the members has tremendously increased and also their participation.

I would like to thank Mr. Harshad Shah for his mission to increase the new membership. We have a legacy of 66 years of experience and maturity on our side. On this occasion we are honouring our members by giving the certificate of membership. If we can help each other in sharing the knowledge on the issue mentioned earlier, I am confident that we will be able to make noticeable difference. I appeal to the all members to participate in forth coming events such as workshop on safety data training & participation in Chemspec exhibition.

Wishing you all well  
Sincerely Yours'  
Vinay D Patil  
President



ISCMA (Indian Specialty Chemicals Manufacturers' Association) founded in 1952. It is all India body representing manufactures of Indian Specialty Chemicals dedicated to the growth of Indian Specialty Chemicals Industry. The association members consists of large, medium, small scale, traders and technocrats.

**ISCMA Broadly serves the following objectives:**

- The association promotes and safeguards the interest of the specialty chemical industry.
- To make representation with Govt authorities or bodies on any matter affecting the specialty chemicals trade and industry.
- To promote better service to members, information on safety, health, environment, sustainability, responsible care initiatives under the structured of self-regulation.
- To recognize services for promotion of specialty chemical industry.
- Exchange of views to members.
- Providing facilities for conferences, exhibitions, seminars, technical training relating to specialty chemicals.
- To promote technical knowledge and other information for the benefit of others.
- Promote co-operation among Indian specialty chemical manufacturers.
- To promote and preserve high standard of business integrity and principals.
- To promote trade connected with specialty chemicals in India.
- Coordinating with all other associations or bodies in India as well as other countries.
- To extend and maintain international liaison.

## Editorial Board



**Dr.K.S.Murthy**

Dr.K.S.Murthy is Technical Consultant at Pidilite Industries Limited since March 2002 working on regulatory aspects of textile dyes, speciality chemicals and pigments. He is graduated in Technology of Intermediates and Dyes from UDCT (now ICT) in 1961 followed by Junior Research Fellowship under the supervision of Prof K.Venkataraman on "Constitution of azoic coupling components and dyes derived from cyanuric chloride" during 1961-63 at National Chemical Laboratory, Pune. Subsequently he obtained PhD under the guidance of the discoverer of Reactive dyes, Professor Ian D Rattee, OBE at the Department of Colour Chemistry & Dyeing at the University of Leeds with Research Assistantship in 1967. "Effect of temperature on the kinetics of hydrolysis of dichlorotriazinyl reactive dyes" was published in JSDC August 1969.

Besides Pidilite, his 50 years stint in the colorant industry includes technical service, sales and marketing for BASF, Hoechst Dyes & Chemicals Ltd/Mafatlal Dyes & Chemicals Ltd and Indokem Ltd at textile units. His 5-decade career also includes 20 years of techno-commercial journalism passionately pursuing and covering events prolifically as honorary writer for the benefit of readers and archives. This includes speciality chemicals, dyes, textiles, chemical engineering besides medical topics in industry journals such as Colour Publications, Chemical Weekly, Chemical Industry Digest, India Dyechem Bulletin and Consumer Guidance Society of India.

The Trustee Board of the UK-based Society of Dyers and Colourists (SDC) conferred Silver Medal of the Society for his 'Sustained support to the Indian textile industry' at a function held in Bradford, UK on April 26, 2013. SDC is a world-renowned educational charity established in 1884 committed to the advancement of science and technology of colour. Some past SDC Gold Medallists include Prof Ian D Rattee (also Perkin Medallist), Harry H Sumner (of ICI Organics and University of Manchester Institute of Science & Technology) his thesis examiner. He feels honoured to be given a small niche in this 'Hall of fame' featuring such stalwarts, albeit at a different level and is pleased that his work and years of committed efforts have been recognised and acknowledged by SDC internationally.



**Vinayak M. Natu**

Since 2008, he has been an international technical consultant with a dozen of leading multinational and Indian companies in the field of coating materials, inks and nanotechnology. His diverse assignments include new product and technology development as well as techno-marketing.

He is a Post Graduate in Physical Chemistry from the Institute of Science, Mumbai with 44 years of chemical industry experience in R&D, Quality Management and Technical service.

He worked with Ciba-Geigy, Asian Paints, and Jubilant Organosys in various capacities. He retired as the Vice President-Technical at Kansai Nerolac Paints in 2007. He has served as the chairman of the Central Technical Committee of Indian Paint Association.

He has eight patents to his credits covering the fields of coatings, resins, colourants and nanomaterials.

He runs a website: [www.coatingsys.com](http://www.coatingsys.com) devoted to nanotechnology and coatings. He has authored the book: "Nanotechnology for Surface Coatings" which is one of the first such books on the subject.

He keeps himself abreast with modern development in coatings science by regularly attending the European and American conferences.



**INDIAN SPECIALITY CHEMICAL  
MANUFACTURERS' ASSOCIATION**

**PAST PRESIDENTS OF THE ASSOCIATION**

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## Managing Committee Members for the year 2018 - 2020



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President



Dr. Subhash V. Udeshi  
Vice President



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Shri. Kashiprasad C. Murarka  
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Shri. Deepak V. Bhimani  
Past President (2012-2016)



Dr. Kishore M. Shah  
Past President (2007-2012)

## Invitees



Shri. Harshad Shah  
Member



Shri. Hardik Sampat  
Member



Shri. J.B.Purohit  
Member

## Welcome to new members

M/s. Jay Ambe Enterprise

M/s. HSE Solutions Private Ltd.

M/s. Ganraj Industries

Mr. C.N. Sivaramakrishnan (Industry Consultant)

M/s. Rajen Kishor & Co.

M/s. Classic Solvents Pvt. Ltd.

M/s. AUM Adhesives Pvt. Ltd.

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M/s. Mihir Chemical Industries Pvt. Ltd.

M/s. AMAR IMPEX

M/s. Jaychem Marketing

M/s. Heetu Chemicals And Alkalies Ltd.

M/s. Ultimate Chem (India) Pvt. Ltd.

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M/s. Red Rose Enterprise

M/s. Trio Chemicals & Allied Products

M/s. Mitkalp Exim





## **Catalonia Connects to Chemical Industry; AP Economic Development Board - Fine & Specialty Chemicals**

Indian Specialty Chemicals Manufacturing Association organised meeting with representatives of Catalonia Trade and Investment on 29th June 2018 at the Association Hall.

Barcelona is the second Smart City in the world. Talent and education in universities. Constant search for new business opportunities through systematic incorporation and internationalization. The representatives were here to promote an entrepreneurship in their region, do business in Catalonia and generate revenues. They assist companies financing, start-ups, clusters, innovation, technology transfer, foreign trade etc. If someone wants to do business and set up office, they help them expand further. Chemical industry is the second largest industry in Catalonia. Trade fairs and congresses happen there. Brochures were distributed for information. Discussion was succeeded by question-answer with comments and suggestions for mutual benefit.

### **Catalonia Trade & Investments:**

Pro-business government creates a supportive business climate. Catalan Government Agency for Foreign Investment and Business Competitiveness (ACCIO). Eurecat Technology Centre of Catalonia acts as bridge between R&D public system (knowledge system) and companies (value generation).

Mr. Robin Singh and Ms. Juliana Chiva Polvillo under Ministry of Enterprise and Labor spoke about companies in chemical industry Catalonia in Barcelona and vice versa for technology transfer. The chemical sector is active with multinational companies such as BASF, Clariant, Dow, Henkel to mention a few. One can reach €400M ready consumers.



Turnover: Diverse industrial base. Chemical sector comprises agrochemicals & fertilizers, paints & coatings, food packaging, plastic for automobile industry, cosmetics and new materials for 3D printing. 748 chemical companies in Catalonia with turnover of €16,268M with strategic force from the government. 21% of GDP equals to industry @€42,670M of which, share of chemicals is 10%. After China, Europe is third in the world in terms of consumption of chemicals. Specialty chemicals are in demand besides pesticides, agrochemicals and consumer chemicals like cosmetics, pharmaceuticals etc. Niche segment is organic like neem fertilizers. Basic items are 56% of industry with focus on pesticides industry.



Exports: ≥€10M. Catalonia represents 17% of industry exports and 50% of chemicals in Spain. France is one of the biggest exporting countries followed by Brazil. Imports are done, and India is also exporting to them.

R&D: Domestic expenditure of €108M, 11.5% of that made by industry. 12 universities offering chemical studies, degrees in chemistry besides technological centers and



ISCMA President Mr Vinay D Patil welcoming to Ms. Juliana Chiva Polvillo



ISCMA President Mr Vinay D Patil Welcome to representative of Catalonia Trade & Investment Mr Robin Singh & Juliana

research groups. 59% incurred on R&D cost and 60% of revenue on patents reimbursed as incentives. Catalonia produces 1% of total innovation in the world.

**FDI Opportunities:** They are second in terms of FDI and job creation. Business activity and opportunities - between 2011 and 2016, 35 projects were registered with investment of €744M and creation of 1,657 jobs. Paints and Coatings is the subsector and pesticides and fertilizers lead capital investment. 61 Indian companies have done FDI in 5 years during 2011-2016. Most companies do manufacturing followed by R&D, design development. Corporate rate of tax is 25% besides incentives.

**Infrastructure:** More than 200 international chemical companies have their headquarters in Catalonia especially in ports of Tarragona and Barcelona, which offer logistics operators. Railways, roads, airport and ports facilitate transport systems. Productive workforce with labor costs and skilled manpower. **Employment:** 28% of the industry.

**Regulatory issues:** Lower corporate tax (25%); tax deduction schemes for R&D and investment activities - patent box up to 59% on R&D; 12% on innovation. €110M is spent on innovation in attainments of new products, technology incorporation and bridge future problems of the world.

## ISCMA Members meeting with Andhra Pradesh Economic Development Board

AP overview – AP EDB has commissioned task force committee on chemicals and allied industries. Eco system and captive market. Mr.Sandeep Mamidi, Senior Associate and Ms.Pawani Chaudhari, Associate spoke about APEDB, growth rate, per capita income, vision 2029 and investment of \$145-bn. They presented Fine & Specialty Chemicals cluster in Nellore, Naidupet, Attivaram and Sri city for automobile components.

AP is the 8th largest state in India, GDP \$120bn, with connectivity of 6 operational ports (6 more in 2020) besides road network, rail, waterways and coastline to support transport. Infrastructure with two industrial corridors: - Visakhapatnam Chennai and Chennai Bangalore corridor. Good quality education provided by engineering and management colleges. Contribution of manufacturing to GSDP at 9.95% to 15% (now 11.2%). Industries GSDP from 20.7% to 25%. \$32-bn and 10,00,000 new jobs. Progressive labour policies and skilled manpower with robust infrastructure. Industrial parks at Visakhapatnam and Nellore; infrastructure, water supply, power and effluent treatment zero discharge common effluent plant.

More than 100 leading companies are present in the state like Pidilite Industries, Tata Chemicals, Excel Industries (600 crores), Ultramarine & Pigments, BASF, Dr.Reddy's etc. 60 pharma units are operating here.

Thrust areas: Fine and specialty chemicals, Agro and food processing, petroleum, chemicals, fertilizers and petrochemicals etc. Key incentives are Industrial Area Local Authority (500 crores and 2000 people employment), power cost, capital subsidy, SGST; desalination where required etc. Fiscal incentives are offered like interest subsidy, stamp duty, power fixed capital subsidy, SGST and land etc.



(ISCMA MC Members meeting with Andhra Pradesh Economic Development Board on 29th June 2018)

L to R -Mr Harshad Shah, Mr Hardik Sampat, Mr Vinit Patel, Dr Subhash Udeshi, Mr Vinay D Patil, Mr Mr.Sandeep Mamidi, Dr K.S. Murthy, Mr Sandeep Gupta, Ms.Pawani Chaudhari, Ms Jyotika Kotian





Mr. Manoj Mehta addressing the Managing Committee of ISCMA

Highlights: International participation from China, Japan, Iran, Germany, Turkey, Vietnam besides Petroleum, Chemicals and Petrochemical Investment Regions (PCPIR) states like Gujarat, Andhra Pradesh and Odisha states. Over 20,000 business visitors; 300 exhibitors; Buyer-seller meet by CHEMEXCIL; buyer delegation from USA, Europe, Middle East and South Asian countries.

Make in India program: The chemical and petrochemicals sector has an important role to play in realizing the vision. India Chem series highlight the investment possibilities in the country's chemical industry and give a fillip to initiative of the Government of India. Investments, innovation and infrastructure are thrust areas for chemical industry. GST reform would also boost by lowering the transaction cost while avoiding cascading effect on the taxes. Reverse concept - Go to a place, produce something there and bring it to India.

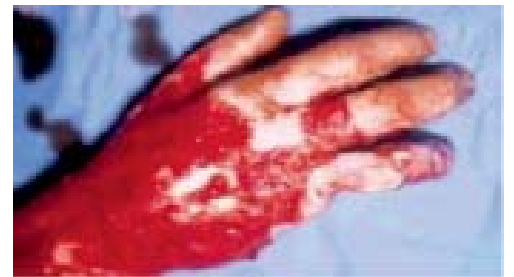
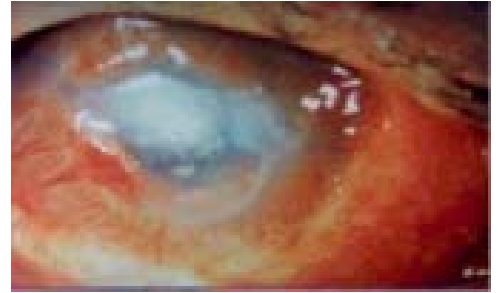
Exhibitors, Delegates and Visitors: Participants from national and foreign; Iran, China, Japan, UK, Spain, USA, Germany, Italy, Brazil, Turkey and South East Asian countries etc. CEOs, engineers, technocrats and scientists; marketing chiefs, professionals and consultants; policy makers, diplomats and foreign commercial corps; Industry associations, trade delegations; Academia (faculty and students); chemical traders etc.

Business opportunities: Technology transfer; investment; joint venture – partners and project collaborators; technology adaptation and upgradation; plant, machinery, process control equipment; projects and services; logistics, warehousing, supply chain in chemicals; sourcing requirements; showcase latest products, machinery, equipment and developments in the industry; Business tie-ups and collaborations; Contract research and manufacturing etc.

## Ms. Ratna Mehta - Evolution of First Aid after Chemical Splashes

ISCMA featured Ms. Ratna Mehta, Country Manager, HSE Solutions Private Ltd / Prevor on the above subject on 8th August 2018 at their Association Hall. She discussed about the concept of DIPHOTERINE first aid to manage industrial chemical risks, stopping incidents from turning into accidents against chemical reactions and its role in the management of cutaneous acid burns and ocular chemical injuries. Chemical burn is painful compared to thermal and iron burns especially when any chemical falls on part of joint like wrist or elbow it can have irreversible damages. It is up to management to improve safety standards of employees.

Prevor established safety products for chemical burns in France about 50 years ago. Ms. Mehta spoke about toxicology laboratory and chemical risk management studies and results of Diphoterine, a polyvalent active first aid solution safe to use on eyes and skin. Potential data for number of accidents is not available but Germany had accidents in a week calculated about \$2-bn on chemical analysis. Workers who use the chemicals do not know the consequences and hence they provide training for awareness. Several chemicals Are in use and more keep adding up. Contact of chemical to the skin or eye and burn happens in about a minute. Handling chemicals at work place can have critical consequences with chemicals such as acids (sulphuric, hydrochloric), alkalis (caustic soda, ammonia), oxidisers, reducers, chelators, solvents (toluene, DMS) and irritants. In first aid, water has a limited efficiency on concentrated chemicals. Such splashes area managed with Diphoterine solution, polyvalent rinsing solution with no burn and work-loss.



Water is safe for first aid burns but has limitations since penetration of the chemical is faster than water, which is hypotonic because of osmotic pressure than that of body and moves with the chemical inside the body. It cannot suck the chemical and goes with it when chemical comes in contact. It does remove surface layer of the chemical and yet penetrates inside to some extent. Diphoterine, amphoteric compound, works with all the 6 families of chemicals by stopping chemical reaction. While working, pH drops to 9 in the physiological range of 5.5-9.



ISCMA President Mr Vinay D Patil welcoming to Ms. Ratna Mehta



Ms. Ratna Mehta addressing the Managing Committee of ISCMA

With high absorption and hypertonic on the surface and whatever chemical has penetrated inside tissues, it sucks up, thereby preclude after affects, hospitalisation and consequent loss of work.

Dr. Parag Kulkarni, consulting doctor for about 60 companies at Boisar industrial area received an award for best study from Nordic Burns Association of Plastic Surgeons, Sweden in July 2016 for - ocular, dermal, and pain factor. Besides raising awareness on chemical risk at Indian Chemical Council, he conducted seminars on Chemical Burns Management and studied 120 cases in Tarapur industrial area, Boisar. The products for body wash are 5 litre DAP; 50 ml for eye wash. For spills, they have suitable products turning them into non-hazardous waste for incineration. Medical advice is mandatory. The products are available ex-stock Mumbai imported from France. The prices are at par to that of France. Shelf life is 2 years. They are in contact with hospitals and Kadam Eye Hospital at Vadodara.

National Health Services in England recommend Diphoterine and the product has been used by various companies viz. Chemical industry including Pidilite, Food (Jubilant, Dabon etc), Pharmaceutical (Alembic, Dr.Reddy's Lab etc), Cosmetics (L'Oreal), Photovoltaic cell (Indosola, Moser Baer etc), Nuclear (NFC), Cement (Ambuja, ACC etc), Ports Mumbai Port, Mazagon Docks etc), R&D (Natco, Dabur etc) and Waste management (Bharuch Environ).

## Mr.Pramod Bargage's Presentation of e-Way Bill

President Vinay Patil welcomed the speaker and the gathering. Deputy Commissioner of Sales Tax, Mr. Pramod Bargage in an interactive session on e-Way Bill provided general education, awareness, insights and frequently asked questions at ISCMA on 18th September 2018.

He submitted his presentation material for the reference of the members. Excerpts follow:

- Objectives of EWB: Single bill for the movement of goods throughout country, tracking the movement of goods and verification by the officers.
- Stakeholders: Suppliers, recipients, transporters and department officers.
- Benefits of EWB: Traders need not visit tax offices, waiting time reduced, auto generation of GSTR-1 Returns and of suppliers and saving of official's time in collecting and matching with the returns of the tax payers,
- Features of EWB System: User friendly, multiple modes for EWB generation and monitoring and consolidated EWB.
- Charging section: Section 68 of GST - Inspection of goods in movement; Section 122 - Penalty for offence. Section 129 - Detention, seizure and release of goods and conveyances in transit, Section 130 – consolidation of goods, conveyances and levy of penalty.
- e-Way Rule 138
- Registration & Enrolment: URL – <http://ewaybillgst.gov.in>; Registration for tax payers under GST, Enrolment of unregistered transporters, registration of citizens, forget password/login name.
- Registration on portal.
- E-Way Bill Amendment Notification 12/2018.
- Rule 138 (1) – Information to be furnished prior to movement of goods and generation of EWB; consignment value exceeding Rs.50,000 in relation to a supply or due to inward supply from an unregistered person furnished information specified in Part A of Form GST EWB
- Rule 138 (1) Proviso & Explanations.
- Rule 138 (2) When goods are transported by a registered person.
- Rule 138 (3) Transporter.
- 138 (4) Bill number made available to the supplier, recipient and transporter.
- Rule 138 (5) Change in vehicle and Assignment of EWB, when goods are transferred from one conveyance to another, part B shall be updated by conveyor or recipient. 5 (A) transporter may assign EWB to another transporter for further movement of goods.



ISCMA President Mr Vinay D Patil welcoming to Mr.Pramod Bargage





- Rule 138 (6) Consolidated EWB - the transporter may indicate the serial number of e-way bills generated in respect of each such consignment electronically on the common portal and a consolidated e-way bill in FORM GST EWB-02 may be generated by him on the said common portal prior to the movement of goods.
- Rule 138 (7) Aggregate consignment value  $\geq 50,000$ , the transporter except railways, air and vessel, shall in respect of inter-State supply generate the e-way bill.
- Rule 138 (8) Integration with GSTR1 - The information furnished in Part A of FORM GST EWB-01 shall be made available to the registered supplier on the common portal who may utilize the same for furnishing the details in FORM GSTR-1.
- Rule 138 (9) Cancellation of EWB - When goods are not transported as per details in the e-way bill, EWB may be Cancelled within twenty-four hours of generation of EWB.
- Rule 138 (10) Validity period - One day / per 100 Km, additional day / part thereof –Normal Vehicle.
- Rule 138 (11) - Acceptance of EWB – (a) Details of EWB shall be available to supplier, if registered and part A is furnished by recipient or the transporter.  
(b) to the recipient, if registered, if part A is furnished by supplier or the transporter and the supplier or the recipient shall communicate his acceptance or rejection of the consignment covered by the e-way bill.
- Rule 138 (12) Acceptance of EWB - If a person does not communicate his acceptance or rejection within seventy-two hours of the details being made available to him on the common portal or the time of delivery of goods, it shall be deemed that he has accepted the said details.
- Rule 138 (13) One nation one EWB - The e-way bill generated under this rule or under rule 138 of the Goods and Services.
- Rule 138 (14) No EWB required for - (a) Goods being transported are specified in Annexure; (b) non-motorised conveyance; (c) from the customs port, airport, air



cargo complex and land customs station to an inland container depot or a container freight station for clearance by Customs; (d) State Notified areas. (e) Exempted goods, other than de-oiled cake. (f) alcoholic liquor for human consumption. (g) where the supply of goods being transported is treated as no supply under Schedule III of the Act. (h) (i) under customs bond from an inland container depot or a container freight station to a customs port, airport, air cargo complex and land customs station, or from one customs station or customs port to another customs station or customs port, (ii) under customs supervision or under customs seal. (i) transit cargo from or to Nepal or Bhutan; (j) exempt from tax under Notn. 7/2017 (Supply by CSD to unit canreen) & 26/2017 (supply by Atomic Energy Department to NPCIL of heavy water & nuclear fuels). (k) movement caused by defence formation as consignor/ee (l) When consignor is Central / State Government/local authority for transport of goods by rail; (m) In case of empty cargo containers; (n) From POB to weigh Bridge, within 20 km with delivery.

- Rule 138 A - Documents required 138A (1) (a) the invoice or bill of supply or delivery challan, (b) a copy of the e-way bill in physical form or the e-way bill number in electronic form or mapped to a Radio Frequency Identification Device embedded on to the conveyance Provided, 'b' is not applicable in case of movement of goods by rail or by air or vessel. (2) Invoice Reference Number obtained, by uploading tax invoice in FORM GST INV-1 may be produced for verification by the proper officer in lieu of the tax invoice and such number shall be valid for a period of thirty days from the date of uploading. (3) Where the registered person uploads the invoice under sub-rule (2), the information in Part A of FORM GST EWB-01 shall be auto-populated by the common portal based on the information furnished in FORM GST INV-1. (4) The Commissioner may, by notification, require a class of transporters to obtain a unique Radio Frequency Identification Device and get the said device embedded on to the conveyance and map the e-way bill to the Radio Frequency Identification Device prior to the movement of goods. (5) Notwithstanding anything contained in clause (b) of sub-rule (1), where circumstances so warrant, the Commissioner may, by

notification, require the person-in-charge of the conveyance to carry the following documents instead of the e-way bill (a) tax invoice or bill of supply or bill of entry; or (b) a delivery challan, where the goods are transported for reasons other than by way of supply.”

- Rule 138 B - Verification of EWB 138B. Verification of documents and conveyances. - (1) The Commissioner or an officer empowered by him in this behalf may authorize the proper officer to intercept any conveyance to verify the e-way bill in physical or electronic form for all inter-State and intra-State movement of goods. (2) The Commissioner shall get Radio Frequency Identification Device readers installed at places where the verification of movement of goods is required to be carried out and verification of movement of vehicles shall be done through such device readers where the e-way bill has been mapped with the said device. (3) The physical verification of conveyances shall be carried out by the proper officer as authorised by the Commissioner or an officer empowered by him in this behalf: Provided that on receipt of specific information on evasion of tax, physical verification of a specific conveyance can also be carried out by any other officer after obtaining necessary approval of the Commissioner or an officer authorised by him in this behalf. ”
- Rule 138 C - Inspection and verification of goods (1) A summary report of every inspection of goods in transit shall be recorded online by the proper officer in Part A of FORM GST EWB-03 within twenty-four hours of inspection and the final report in Part B of FORM GST EWB-03 shall be recorded within three days of such inspection. (2) Where the physical verification of goods being transported on any conveyance has been done during transit at one place within the State or Union territory or in any other State or Union territory, no further physical verification of the said conveyance shall be carried out again in the State or Union territory, unless a specific information relating to evasion of tax is made available subsequently.
- Rule 138 D - Rights of transporter. Facility for uploading information regarding detention of vehicle - Where a vehicle has been intercepted and detained for a period exceeding thirty minutes, the transporter may upload the said information in FORM GST EWB-04 on the common portal.
- How to generate e-Way Bill with examples.
- Penalty provisions: Sec 122 (xiv) - Where a taxable person who transports any taxable goods without the cover of documents as may be specified in this behalf shall be liable to pay a penalty of Rs. 10,000; Section 129 - Detention, Seizure and release of goods and conveyances in transit. Section 130 - Confiscation of goods and conveyances and levy of penalty.

Nodal Officers/Help Desk staff: Toll Free No.1800 225 900; mahaewaybill@gmail.com; www.mahagst.gov.in

## ISCMA Meeting-Trade and Investment Opportunities in Spain(Iberian)

Spain is one of the most significant economies in the world - 13th in terms of size; destination for foreign investment (9th largest recipient of FDI worldwide). Iberian Officials Mr. Evgeny Gouchapov and Associate partners Txaber Fernandez and Aritz Santiago visited ISCMA on 20th September 2018 to seek cooperation, provide service, assist SME develop and increase their presence in the Spanish market. The objective is commercial balance between India and Spain and to obtain information regarding players for achieving trade and investment.

Mr. Vinay Patil, President welcomed and gave a brief of the members and their activities in export and import of specialty chemicals. With more than 35 years experience in providing advice regarding investments and opening markets to clients by monitoring sales channels, Iberian Office, the Joint Venture resource between two consultancy companies, provides professional service to Spanish companies enter and develop international markets and networking between companies, agents and distributors of the sector.



Iberian officials' presentation, question/answer discussion, clarifying doubts, and compliance to REACH regulation are given below:

- Trade between Spain and India, its development in the previous years and structure of commercial balance with imported/exported groups of products. In 2017 it was -\$2.9-bn (Import \$4.37-bn and Export \$1.43-bn). Structure of trade balance comprising imports and exports of various products (in %).



- Possibility of obtaining Business Intelligence Data to identify exporters and importers, products bought, quantity of order, billing amount etc, how to enter market and increase trade with Spain.
- Role of Iberian Office in approaching Spain, steps taken to achieve objectives in the market and support that could be obtained. Information of the market and international strategy of competitors for meaningful information on target countries, clientele, market volume and market strategy; company inputs; developing strategic agreements and collaborations, 182 unique clients (importers).

Commercial balance in chemical industry during 2013-2017 of Spanish exports to India (\$1290-mn; Organic chemicals - \$346-mn) and Spanish imports from India (\$2829-mn; Organic chemicals - \$1420-mn). Commercial balance in chemical industry – Chapter 29 EXIM.

Achieving goals within the Spanish market with Iberian Office services in trade in view of trade business expansion (search for sales agents and distributors), marketing research (operational market research and competition analysis) and tailored services (Spanish customer landing page, trade fairs). In trade in phases (project launch, search in prioritised markets, contact, visits, commercial follow up).

Investment like establishing the company either alone or with a partner (JV) and with Iberian Office services (Sole Proprietorship; Joint Venture).

Preliminary steps and Share capital in Corporation (S. A) and Limited Liability Company (S. L).

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## ISCMA Participated in India Chem 2018 - 4<sup>th</sup> & 5<sup>th</sup> October 2018





**ISCMA**® INDIAN SPECIALITY

ISCMA (Indian Speciality Chemicals Manufacturers' Association) manufactures of Indian Speciality Chemicals dedicated to the members consists of large, medium, small scale, traders and etc.

**ISCMA** primarily serves the following objectives:

- The association represents the interest of the speciality chemical industry
- To represent the industry before government or bodies on any matter
- To provide information on safety, health, environment and quality chemical industry
- Exchange of information and experience
- Provide information, conferences, seminars, technical training
- To provide information for the benefit of the industry
- Promote the growth of Indian Speciality Chemicals







Mr Anjani Prasad along with Mr Vinay D Patil-ISCMA President participated in India Chem conference 2018

Mr N. K. Parekh and Mr Kishore Shah visited ISCMA Stall during India Chem 2018



## ISCMA Diwali Celebration 2018 – Musical Extravaganza

Martin Luther King, Jr said, “A genuine leader is not a searcher for consensus but a moulder of consensus.” Maintaining growth momentum of the ISCMA (Indian Specialty Chemicals Manufacturers' Association, Erstwhile Textile Auxiliary Manufacturers' Association), almost 65 years old, comprising over 150 members is a Herculean task. Mr. Vinay D Patil, President is obsessed with creating a long lasting activity that bears testimony to his traits, enjoys his work and feels there is lot to be done in taking the Association forward and calls to mind Michael Porter's quote “Sound strategy starts with having the right goal.” Members, spouses and invitees appreciated the Diwali Get-Together organised on 26th October 2018 at Juhu Vile Parle Gymkhana Club.



The thematic backdrop proclaimed 'Light up the world with an experience, leave behind an impression. This festive season plant a life so that it brings to this world something that you will always remember with a smile.' President Mr Vinay Patil, alumnus in Textiles of UDCT (now ICT) and entrepreneur (S. A. Pharmachem Private Ltd) welcomed the gathering and thanked the Managing Committee members and sponsors for their support. Past presidents Mr. N. K. Parekh, Mr. L. N. Gandhi, Mr. Deepak Bhimani, Dr. Kishore Shah, et al, pillars of the Association, were honoured for their vision, foresight, contribution and for setting the trend. They unveiled 'Horizons' Newsletter (April-June 2018) edited and published by Immediate Past President Shri Kashi Murarka. His message conveyed through Dr. Shah said that though we are in the business, we are not drivers of competition but members of one family and should help each other.



Mr. Amit Shah (Chemical Engineer and entrepreneur in chemicals with passion for music) and group enthralled the audience with melodious singing listener's choice of interactive cine music extravaganza. Some invitees and a young girl rendered songs with orchestra. Dr.K. S. Murthy enacted Gabbar Singh of 'Sholay' fame and also sang 2 film songs. The celebration ended with dinner.



## ISCMA Annual Awards to ICT Students, Best Researcher, Support and Non-Teaching Staff

Steve Jobs said "Your work is going to fill a large part of your life, and the only way to be truly satisfied is to do what you believe is great work. And the only way to do great work is to be passionate about it."

Merit Cum Means Scholarships and Certificates, sponsored by ISCMA since 2012, are awarded to students in all branches of chemical technology, pharmacy and chemical engineering and a best research professor besides non-teaching and support staff class 3 and class 4. The award function held on 11th December 2018 at K.Venkataraman Auditorium was attended by past presidents, members and students.

Mr. Vinay Patil, President, spoke about collaboration of ISCMA with ICT and its activities. Prof M.M.Sharma rechristened Textile Auxiliary Manufacturers' Association founded in 1952 to Indian Specialty Chemical Manufacturers' Association in 1985 and more than 50% members are alumni of ICT.



Prof G.D.Yadav, Vice Chancellor said ICT is number one in ranking and recognized for sectorial excellence. With addition of the campuses at Jalna Marathwada and Bhubaneswar, it envisaged increase in productivity and establish connectivity with industry. Students will study chemical process economics besides law, sustainability (CO<sub>2</sub>, Water and Material Foot Prints), environment, water and risk (process safety and hazard) management related issues. They have introduced courses in artificial intelligence in process industries, machine learning so that with blending, student can go to industry and learn to do anything. ICT is growing and works for societal causes and government is asking them to develop concurrent industry and technology and solve problems of masses by innovative education.

Prof Yadav appreciated the gesture of awards and suggested enhancing the value to Rs. 15,000 from Rs. 5,000 since about 50% students come from poor rural families. They offer scholarships to about 360 undergraduate students ranging from Rs. 10,000 to one lakh. Further, he requested financial assistance from Members' Trusts, Endowments and CSR to non-teaching staff, support staff and students. He appealed for generous stipends, placement of students and if there is any sick industry, they will give advice by consultation in collaborative manner to come out of red and become green. He said that Mr.Somaiya donated an endowment for green chemistry.

Introducing Chief Guest Mr.Samir Somaiya, CMD, Godavari Biorefineries Ltd, Mr.Vinit Patel said they manufacture sugar, ethanol, renewable energy, chemicals, biogas and composite and work for 20,000 small farmers in 200 villages to help their



productivity and standard of living. Mr.Somaiya, Chairman of K.G.Somaiya Trust; Medical Trust, Institute of Applied Agricultural Research, is a Chemical Engineer, Visiting Instructor at School of Chemical Engineering, Cornell University.

Happy visiting an educational institution and his association with ICT, Mr.Somaiya congratulated ISCMA for promoting talent. He returned to his business at the age of 26 years as Chemical Engineer in January 1993. With license to make 20 tons of chemical per day, their job was to ensure same yield with the same feedstock and were penalized should they produce more or less. India had very little foreign exchange reserve then to pay for import bills. Country was given some money by IMF who imposed some conditions. Control of production was associated with benefits like import duty @ 250% and low prices of raw materials like molasses and within two weeks, the world changed price of Rs. 144 to Rs.2,500 per kg. Duty of finished goods was brought down to 50% within 3-4 years and now 5% thereby margin became loss suddenly. The challenge was emulating imports and competition.



ISCMA President Mr Vinay D Patil welcoming chief guest Mr. Samir Somaiya, CMD, Godavari Biorefineries Ltd



Mr Samir Somaiya addressing the audience during ICT award function

Research and Development was Quality Control then and Intellectual Property was not protected. He had contacted Prof S.B.Chandalia at that time for advice on processes and collaboration with Dr.V.C.Malshe and Dr.V.G.Gaikar. Prof M.M.Sharma continues to guide them in their journey. He advocated belief in oneself and to build a routine. Choose a team with best people for the job and leave out prejudices and discrimination. Through perseverance, they created some products quickly and believed in value addition. Visits to BASF, Germany were in vain to sell specialty chemicals in 1996 and 1997 and they realized to sustain a competitive advantage, you need knowledge-based chemistry. BASF was buying specialty chemicals from Europe, USA, Japan and South Africa. By persistence, they have been supplying those products and some others.

One must fight injustice such as treatment meted out in buying by a chemical company overseas with a policy that they would not buy certain products from outside the developed world. Business not obtained on merit is tolerable but not prejudice. Subsequently, that company changed its policy in a constructive manner.

They are sugar producers besides ethanol used in biofuels, perfumery, cosmetics and beverage industry and make commodity and specialty chemicals derived from this. In their business of 80% sugar, it is now 40% and the rest chemicals. One must have an open mind. In their agricultural center, he observed a farmer not using fertilizers and pesticides and his raw materials were mainly sun and water. A well-planned scientific approach using agro ecological principles outdone integrated neural management. In the world of sugar, there were Australia and South Africa and today India, Brazil. In the field of biorefinery, his company is making 25 products from sugarcane of which sugar is only 2. In cancer biology and drug discovery, a couple of products are doing well at the research and hope to enter clinical stage in a year.

Mind moves like a wind and it is possible to control only through practice and discussion. Mr.Somaiya concluded stating 4 principles, taught by his 91 year old grandfather to live by: Do something not done earlier, Speak truth, Keep your word, Don't lose mind, and Do not bring shame to your mother doing things you shouldn't be doing.

Presentation of Awards: Prof A.B.Pandit spoke about criteria of selection for 4 awards which warranted careful consideration. Best Researcher, Non-teaching staff in category 3 and Class 1-4 for support staff. Whereas Class 4 category was awarded hitherto, now Class 3 was also awarded due to demand. About selection, absenteeism or attendance in the year (Jan to Dec 2017) besides their age and recognition, impressions of Heads of Department were taken into consideration. Selection of faculty, the criteria was number of publications and citations in a calendar year besides subsequent calendar year



and weightages with appropriate impact factors. Mr.Somaiya, Prof Yadav, Mr.L.N.Gandhi Dr.K.M.Shah and Mr.Vinay Patil bestowed the awards on the winners.



Best Researcher: Dr.Parag Gogate, Associate Professor in Chemical Engineering for outstanding contribution in 2017-2018. His interests are Cavitation phenomenon, Wastewater treatment, Design of multiphase reactors, Separation processes and Process



From Left to right Mr L.N.Gandhi, Mr Vinay D Patil, Mr Samir Somaiya, Mr Parag Gogate, Prof G.D.Yadav, Dr K M Shah & Mr Vinit Patel

intensification. Besides research publications of 250, he had also contributed 25 chapters in books and has numerous citations. He is consultant to industry and recipient of many awards.

Proposing Vote of Thanks, Mr. Vinay Patil thanked Mr. Samir Somaiya, Prof G. D. Yadav and the participants for making the function a success.

<b>ISCMA Awards to Students, Faculty, Non-Teaching and Support Staff</b>			
Merit-Cum-Means Scholarship for B.Tech; B.Pharm and B.Chem Engg - Rs.5,000/- Cash + Certificate			
<b>B.Tech</b>	<b>Dyes</b>	<b>Oils</b>	<b>Textiles</b>
Year of Study	Name	Name	Name
First Year	Rushikesh Sanjay Mandlik	Ms. Nidhi Rajesh Sangale	Ms. Sharda Dnyaneshwar Bhawar
Second Year	Satish Shrivallabh Prasad	Prasad Anil Parab	Likhit Gurudatt Malvade
Third Year	Nupur Rajesh Damke	Hitesh Dattarao Hanwate	Ashwini Sahebrao Tarte
Final Year	Aamir Abdulrahiman Nurle	--	Varun Tripathi
<b>B.Tech</b>	<b>Surface Coating</b>	<b>Polymer</b>	<b>Food</b>
Year of Study	Name	Name	Name
First Year	Raveesh Raghunadhan S	Ms. Gayatri Rajendra Kadam	Ghananil Narendra Sarode
Second Year	--	Nilesh Rajendra Patil	Akshaykumar Nitinkumar Koradiya
Third Year	Sakshi Devisingh Hazari	Jay Kalpesh Patel	Ankit Ashokkumar Dhelriya
Final Year	Sampanna Vikas Mhatre	Sagar Rajendra Bade	Ashishkumar Jasvantbhai Darji
<b>Pharma</b>	<b>B. Pharm</b>	<b>B.Chem.</b>	<b>Engg</b>
Year of Study	Name	Name	Name
First Year	Ashish Shrikant Changediya	Akshay Subhash Bharati	Jay Dinesh Sankhe
Second Year	--	Sushil Subhash Bondre	Nishant Narendra Pardeshi
Third Year	Sachin Dashrath Binnar	Rahul Samadhan Ambhore	Vaibhav Dnyaneshwar Tinghase
Final Year	Shubham Raju Kumawat	Amol Balu Gare	Chetan Nitin Pandere

- **Best Researcher** – Rs.25,000/- Cash + Certificate.  
Dr. Parag R. Gogate, Department of Chemical Engineering, ICT. He has published 30 research papers; No. of Citations – 1611 in the calendar year of 2017.
- **Award for non-teaching staff** – Rs. 11,000/- Cash + Certificate.  
Shri A. S. Kargutkar, Lab Attendant, Department of Chemical Engineering.
- **Awards of Special Category for the Children of Class 4** - Rs.5,000/- Cash + Certificate
  - ❖ Merit Holder of SSC – Ms. Prajakta Bhikaji Satardekar – 78.80%
  - ❖ Merit Holder of HSC – Mr. Dhanraj Jitendra Singh Panwar - Science - 63.38%
  - ❖ Merit Holder of Degree from different stream like Arts, Commerce, Science, Medical and Engineering: Mr. Pranay Bhikaji Satardekar - M. Sc. (Textile Chemistry) – CGPA 9.03
  - ❖ Merit students from special achievement in sports or any other activity:
  - ❖ Mr. Akib Khan - Power lifting - State level championship - First Place (14.10.2018) and Certificate of Participation (23rd, 24th & 25th Sept. 2018) at National Powerlifters Federation, India.
- **Award for non-teaching staff (Class III)** – Rs. 11,000/- Cash + Certificate.  
Ms. J. S. Salim, Jr. Typist Clerk at Finance and Accounts section.



( Mr Harshad Shah MC members welcoming to Mr L.N Gandhi past President ISCMA)



( Mr Ashok Pathare welcoming to Prof A. B. Pandit –ICT)



(Mr Vinay D Patil welcoming to Prof Rekha S. Singhal)





(ISCMA President welcoming to Mr Ravi Raghavan-Past President UAA & Editor chemical weekly)



(Mr Jayprakash Purohit MC members welcoming past President Dr K. M. Shah)



(Mr Vinit Patel-Treasurer's welcoming Prof G. D. Yadav -VC ICT)

## Chemi Care : A profile

Chemi Care, established in the year 1988, was founded by Mr. Atul Bavishi. He is ably supported by his sons Mr. Naman Bavishi and Mr. Aakash Bavishi being the key personnel in heading various verticals of the organisations.



Mr. Atul Bavishi

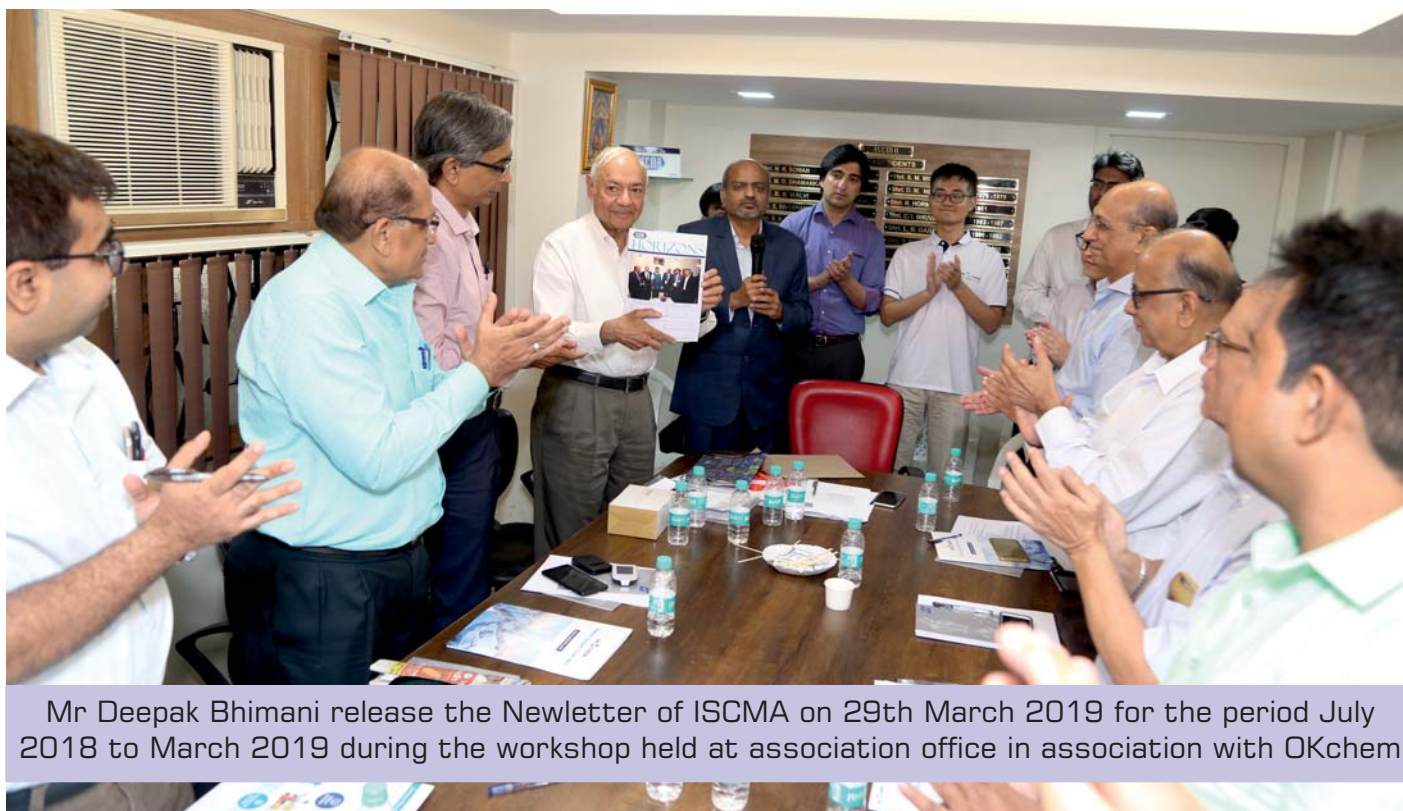
They have over the years developed its niche and specialises in importing, supplying locally and exporting various kind of Petrochemicals and Waxes like Surfactants, Monomers, Ethyleneamines, Ethanolamines, Oleo Chemicals, Paraffin and Microcrystalline waxes, Polyvinyl Alcohols and various other products for diverse industry sectors primarily being textiles, auxiliaries, pharmaceuticals, personal care, packaging, paper, etc. They source their product from the most reliable and largest manufacturers of the world. Over the past three decades, they have constantly evolved as a company which utilises the best of global networking and R&D tools to ensure our customers get technical support and unmatched delivery standards.

Chemi Care today has offices in Mumbai, Ahmedabad and Rajkot with stock points at Mumbai, Ahmedabad, Morbi and Rajkot. Their team of experts are well versed with the local market as well as are backed by global international trends prevalent in the industry.

Phone : +91 22 40226980/64

Fax : +91 22 67551633

Web : [www.chemicare.com](http://www.chemicare.com)



Mr Deepak Bhimani release the Newsletter of ISCMA on 29th March 2019 for the period July 2018 to March 2019 during the workshop held at association office in association with OKchem

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  - ▶ Ethylene Diamine (EDA)
  - ▶ Diethylene Triamine (DETA)
  - ▶ Triethylene Tetra Amine (TETA)
  - ▶ Tetraethylenepentamine (TEPA)
  
  - ▶ PVA JP 05Y
  - ▶ PVA JP 20/20Y
  - ▶ PVA JP 24
  - ▶ PVA JP 27
  - ▶ PVA JF17
  
  - ▶ PVA 2488
  - ▶ PVA 2688
  - ▶ PVA 1799
  - ▶ PVA 2699
  - ▶ LAB
- ▶ Diethanolamine
  - ▶ Di Methyl Ethanolamine (DMEA)
  - ▶ Methyl Diethanolamine (MDEA)
  
  - ▶ Perchloroethylene
  - ▶ Trichloroethylene
  
  - ▶ Crude Glycerin
  - ▶ Refined Glycerin
  
  - ▶ Glyoxal 40 %
  - ▶ Paraformaldehyde 91%
  
  - ▶ Sodium Tri Poly Phosphate (STPP)
  - ▶ Sodium Hexa Meta Phosphate (SHMP)
  
  - ▶ PE Wax
  - ▶ Parafin Wax
  - ▶ Microcrystalline Wax 725
  - ▶ Microcrystalline Wax 725D
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**Get -Together Organised by MC Members Mr Ashok Pathare (Pax-Chem) for ISCMA members as well as well-wishers from chemical industries on 16th Jan 2019.**



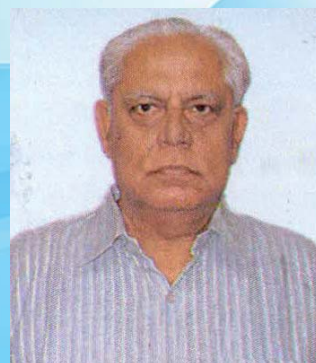
## ISCMA Members visit to K. J. Somaiya College of Science & Commerce

ISCMA MC Members visited to K. J. Somaiya college of Science & Commerce on 21<sup>st</sup> Jan 2019 and met with Principle Pradnya Prabhu and Sangeeta Shrivastava along with their chemistry department staff. Discussed with them possible support from the chemical industries in terms of industry and academic collaboration to understand the requirement of students as per the need from the industries and possible support in terms of internships as a curriculum of their academic career. Managing committee visited to their laboratories and campus.



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E-mail : maheshwarrangrasayan@gmail.com

## ISCMA meeting with India Factoring and Finance Solutions Pvt. Ltd.

A meeting was organised at ISCMA office with India Factoring and Finance Solutions Pvt. Ltd. IFFS is a specialized non-banking finance company in India regulated by the reserve Bank of India under the NBFC Factory category, licensed by RBI to offer only Factoring Products in India. IFFS offer a complete range of Factoring products to Indian SME'S i.e. Domestic Facoring Recourse, Export Factoring Non-recourse and Export Factoring Recourse.



ISCMA members with Mr Vijay Bhatt & Mr Mahaveer Reddy of IFFS

Mr. Vijay Bhatt & Mr Mahaveer Reddy interacted with the ISCMA members and they explained the IFFS main role is to purchase open account receivables upto 150 tenor, prepay up to 90% of invoice value immediately, followup and collect debts from his client's buyers, offer a projected sales linked facility.

IFFS giving benefits to clients by improves his cash flow by funding upon presentation of invoices, client need not to spend time on chasing over due debts, no losses due to bad debts, improves commercial competitiveness , Self liquidating finance.

IFFS company finances for Export mainly to USA and European countries. In other countries AAA rating companies are acceptable. Anyone interested in details will contact to ISCMA office. In short we can say that IFFS is expert in Factoring Product.



## Sauradip Chemical Industries Pvt Ltd visiting fellowship lecture at institute of chemical technology on 18/12/2018

Dr. Kishore Shah – Chairman– Sauradip Chemical Industries Pvt Ltd, Past President of ISCMA said during his address that we have introduces fellowship lecture series, where every year, we invite eminent people from Industry. Our aim is to have interaction between industry and academia.

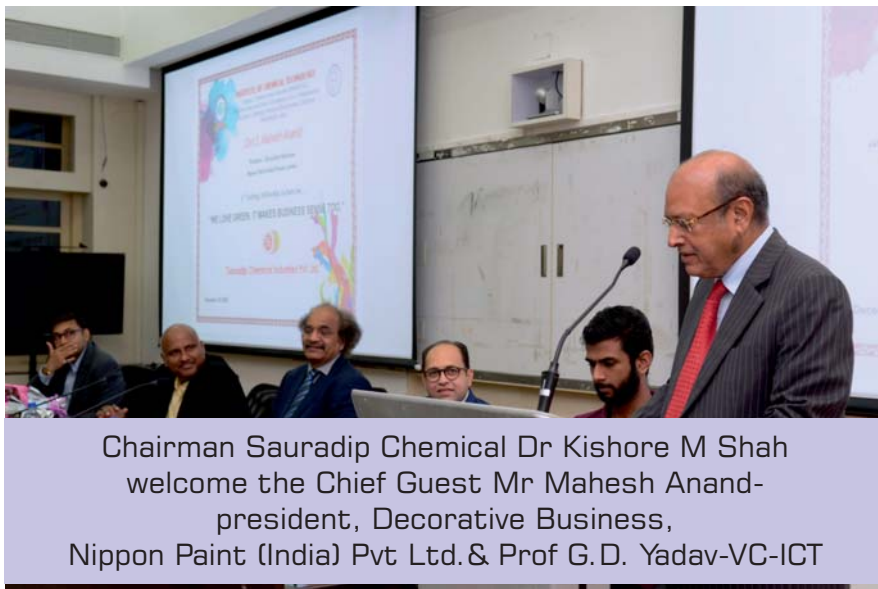
Rajiv shah – Managing Director – Sauradip Chemical Industries Pvt Ltd spoke on the sustainable solutions for customized performance chemicals offered by Sauradip Chemical Industries Pvt Ltd

Sauradip Chemical Industries Pvt Ltd has a wide range of products for the coatings industry such as High Performance Defoamer, Wetting & Dispersing Agents

and Buffering Agents, Viscosity modifiers for waterborne and solvent borne coatings. Sauradip chemicals also manufactures high performance Defoamers, Wetting & Dispersing agents, Humectants for colorants. Sauradip Chemicals has been awarded ISO 9001: 2015 for quality management and OSHAS 18000 for environmental.

Sauradip Chemical Industries Pvt Ltd has been awarded Certificate of excellence by Institute of Economic studies in production, Quality, Innovation & Management.

Prof. (dr.) G. D. Yadav – Vice Chancellor – ICT introduced Chief Guest – Shri. Mahesh Anand, president, Decorative Business, Nippon Paint (India) Pvt Ltd. Prof Yadav praised Dr. Kishore Shah for generous donation for renovation of Polymer and Surface Coating Post Graduate and undergraduate Laboratories.



Chairman Sauradip Chemical Dr Kishore M Shah welcome the Chief Guest Mr Mahesh Anand-president, Decorative Business, Nippon Paint (India) Pvt Ltd.& Prof G.D. Yadav-VC-ICT



Shri. Mahesh Anand, president, Decorative Business, Nippon Paint (India) Pvt Ltd addressing the gathering

Shri. Mahesh Anand, president, Decorative Business, Nippon Paint (India) Pvt Ltd said during his address that Indian Paint Industry is now very accepting of green and environment-friendly paints, such as no odour, low VOC (volatile organic compounds) paints and those that have additional functionalities such as protecting indoor air quality. This is in line with international trends and is lending

support to the adage that “Green makes great business sense”.

### **Emphasis on sustainable products**

Nippon Paints is the fifth largest Paint Company in India, operating in the decorative, industrial and automotive paints segments. The company has three factories in India; At Taloja (Industrial Paints), Delhi (Auto refinish) and Chennai (Decorative). “Nippon Paints

was the first company in India to adopt a “Go Green” policy thanks to global DNA of the company, which emphasis sustainable products. It is a pioneering company for having introduced functional products in the Indian Market, including paints having anti-viral and anti-bacterial properties, as well as the first to bring in exclusive stores for selling paints. Every other company followed this trend – Mr. Anand said.

Nippon Paints India is also the only company in India, according to Mr. Anand, whose manufacturing facility is “Green co-certified and whose products are Green Pro certified by the confederation of Indian Industry. It is a founding member of the Indian Green Building council (IGBC), has reduced its carbon di-oxide foot-print by 34% between 2012 and 2018.

Pointing to some global trends, Mr. Anand noted that China is discouraging solvent based paints production by imposing a 4% cess that cannot be passed on to customers and needs to be borne by the company. This was introduced in 2017 and has been a catalyst in accelerating the shift from solvent-based to water-based coating systems.

Mr, Jaideep Shah - Executive Thanked Mr. Mahesh Anand for specially coming from Chennai & Talking about going Green Paints. Also thankful Dr. G. D. Yadav for always supporting the Sauradip Chemical Industries Visiting Fellowship lecture.



Mr S.T. Mhaske welcoming to  
ISCMA President Mr Vinay D Patil



### **FORTHCOMING EVENTS**

**Participation in Chemspec India 2019 – Do visit our Stall**  
16<sup>th</sup> and 17<sup>th</sup> April 2019

**“2 days, Safety data sheet training programme – At ISCMA office”**  
26<sup>th</sup> and 27<sup>th</sup> April 2019



## “ROLE OF POLYMERS IN SPECIALITY CHEMICALS”

Mr Rajiv Shah (MD-Sauradip Chemicals) has given his talk on “Role of Polymers in Speciality Chemicals and its Potential in India. He has interacted with ISCMA members in a simple language with examples so that everybody understand the complex chemistry. The following are silent features of his speech during the workshop conducted on 29th March 2019 at association office.



Mr Rajiv Shah (MD-Sauradip Chemicals) delivering lecture at workshop conducted by ISCMA on 29th March 2019

### SYNTHETIC POLYMERS

- Polymers are large molecules composed of repeated chemical units.
- The number of repeat units in a chain is called the degree of polymerization (DP) or chain length.

### VULCANIZED RUBBER

- In the mid-1800s, American scientist Charles Goodyear began working with rubber to try to make it more temperature stable.
- He accidentally allowed a mixture of sulfur and pre-rubber to touch a hot stove.
- The rubber did not melt but only charred a little.

### NYLON

- One promising candidate was formed from the reaction of adipic acid with hexamethylenediamine and was called fibre 66 because each monomer containing unit had six carbons.
- It formed a strong, elastic, largely insoluble fibre with a relatively high melting temperature.
- DuPont chose this material for production. Such polyamides were given the name “Nylons”.

### TEFLON

- Other key developments included polytetrafluoroethylene, a slick material also known as Teflon; polysiloxanes, also known as silicones.
- It has an extremely wide temperature use range and were a component of the soles of the shoes that first touched the moon.
- Polyester fibers and plastics such as poly (ethylene terephthalate) (PET), used in carbonated drink bottles.
- Most speciality chemicals are organic chemicals that are used in a wide range of every day products used by consumers and industry.
- It is a consumer driven sector and as such the specialty chemical industry has to be innovative, entrepreneurial and consumer driven.
- In contrast to the production of commodity chemicals that are usually made on large scale single product manufacturing units to achieve economies of scale, specialty manufacturing units are required to be flexible because the products, raw materials, process & operating conditions and equipment mix may change on a regular basis to respond to the needs of customers.



## DISHWASHING PROBLEMS

Two major problems are encountered in dish wash – Filming & Spotting

- Filming is usually caused by Inorganic salt precipitation.
- Spotting is caused from Inadequate removal of protein containing substances.
- Harder the water, more is the filming & spotting

- Liquid Detergents have a market share to the tune of 70% in US & Europe.
- Washing water contains Calcium, Magnesium and other inorganic Salts.
- They react with various ingredients of the detergent to form insoluble salts which deposit on clothing & make them stiff & yellowish
- Saurasperse 351 is a low molecular weight polyacrylate for use in the manufacturing of Liquid detergents.
- Polymers not only provide very good Dispersancy of soil but also act as crystal growth inhibitors. Polymers are totally soluble with surfactants and are environmentally safe.

## CELLULOSE DERIVATIVE FORMS

- HPC (hydroxypropyl cellulose)
- HPMC (Hydroxypropyl Methyl Cellulose)
- CMC (Carboxy Methyl Cellulose)
- MC (Methyl Cellulose)

Applications:-

They have been applied to fruits & vegetables for providing barriers to oxygen, oil or moisture transfer.

**“ OUR THOUGHTS CREATE OUR REALITY ”**



ISCMA President Mr Vinay D Patil handing over certificate of membership to pass president of ISCMA Mr Deepak Bhimani (Navdeep Chemicals-CMD)



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