



Department of Chemicals and
Petrochemicals, Government of India



ICC
Indian Chemical Council



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INDO-JAPANESE CONFERENCE ON PROCESS CHEMISTRY R&D

30 - 31 January 2014

Hotel Ramada Plaza Palm Grove, Juhu Tara Road, Juhu Beach
Mumbai – 400 049 INDIA

About the Conference.....

The Indian Chemical Industry with a current size of USD 108 billion is an important constituent of the Indian economy. It accounts for about 7% of the GDP and could grow at a rate of 11-15%. The Industry is supported by a large number of in-house R&D centres staffed by talented scientific researchers who help in technology absorption, process innovation and technology development and intensification.

The performance of the Japanese Chemical Industry is well-known and the strength of Japanese Chemistry, particularly in Organic Chemistry is outstanding as evidenced by the award of Nobel Prizes to scientists like Suzuki and Noyori. The contributions of Japanese Pharmaceutical Industry are numerous. Recognizing these, there have been continuing attempts in recent years to have dialogues between Indian and Japanese chemical industries at different levels.

It has also been felt for some time that it would be important and appropriate to bring the scientists from India and Japan together in a suitable forum for interactions. The idea got a fillip when Prof. Takayuki Shioiri, an eminent Japanese organic chemist, adjunct Professor at Meijo University, Honorary President of the Japanese Society for Process Chemistry and member of Hikal Scientific Advisory Board proposed that a joint **Indo-Japan Process Chemistry Research & Development Conference** could be organised in India.

ICC with the support of **Department of Chemicals & Petrochemicals, Government of India** and the Japanese Society for Process Chemistry (JSPC) have organised this 2-day Conference in Mumbai on 30-31 January 2014. **The Conference will cover process chemistry and design, process engineering and scale up, safety, environment and sustainability.**

It is expected that the conference will provide to the participants, increased motivation, and expansion of domain knowledge leading to personal improvement and organizational advance.

Who should attend:

CEOs, Corporate Planners, Financing Institutions, Representatives of Consultancy Organizations, R&D Institutes, Service Providers, Academia (*Teachers & Students interested in processes*) etc. can consider attending this Conference.

8.00 - 9.00 Hrs. REGISTRATION

SESSION - 1

INAUGURATION

- 9.00 - 10.30 Hrs. Inauguration & Address by the Chief Guest:
- **Dr. T. Ramasami**, Secretary, Dept. of Science & Technology, Govt. of India
Address by Guest of Honour:
- **Mr. Indrajit Pal**, Secretary (C & PC), Ministry of Chemicals & Fertilizers, Govt. of India
Address by:
- **Dr. A.J.V. Prasad, Jt.** Secretary DCPC, Ministry of Chemicals & Fertilizers, Govt. of India
Key-Note Address:
- **Prof. M. M. Sharma**, Former Director, Institute of Chemical Technology, Mumbai, India
- 10.30 - 10.45 Hrs. TEA BREAK / Networking Session

SESSION - 2

NOVEL METHODS DIRECTED TO PROCESS CHEMISTRY & DEVELOPMENT

- 10.45 - 11.15 Hrs. **Development of New Formylation Reaction Using Magnesium Amide: Process Research for a Novel Sodium Channel Blocker E2070**
- **Dr. Katsuya Tagami**, Executive Director, API Research Japan, Eisai, Japan
- 11.15 - 11.45 Hrs. **Challenges in Process Chemistry**
- **Dr. Rajamannar Thennati**, R&D, Sun Pharma Advanced Research Company Ltd., Vadodara, India
- 11.45 - 12.15 Hrs. **Asymmetric Reactions Using Bifunctional Hydrogen-Bond-Donor Catalysts**
- **Prof. Yoshiji Takemoto**, Graduate School of Pharmaceutical Sciences, Kyoto University, Japan
- 12.15 - 12.45 Hrs. **Sonocrystallization as a Method to Control the Crystal Size Distribution and Morphology**
- **Prof. Aniruddha B. Pandit**, Department of Chemical Engineering, Institute of Chemical Technology, Mumbai, India

SESSION - 3

NOVEL METHODS DIRECTED TO PROCESS CHEMISTRY & DEVELOPMENT

- 14.00 - 14.45 Hrs. **Application of PAT in Design, Development and Scale up of Crystallisation Process**
- **Ms Suvarna Choudhary**, Astra Zeneca India Pvt. Ltd., Bangalore, India
- 14.45 - 15.00 Hrs. TEA BREAK / Networking Session

SESSION - 4

NOVEL METHODS DIRECTED TO PROCESS CHEMISTRY & DEVELOPMENT

- 15.00 - 15.30 Hrs. **Development of Enantioselective Reactions Catalyzed by Chiral Phosphoric Acid**
- **Prof. Takahiko Akiyama**, Department of Chemistry, Gakushuin University, Japan
- 15.30 - 16.00 Hrs. **Development of Specific Functional Group-directed Practical Hydrogenation Methods Using Heterogeneous Catalysts**
- **Prof. Hironao Sajiki**, Gifu Pharmaceutical University, Japan
- 16.00 - 16.30 Hrs. **An Efficient Catalytic System for C-H Arylation: A Novel and Practical Synthesis of Angiotensin II Receptor Blockers**
- **Dr. Masahiko Seki**, Senior Research Manager, Process R&D Department, Healthcare Business Division II, API Corporation, Japan
- 16.30 - 17.00 Hrs. **New Trends in Agrochemical Process Research and Development**
- **Dr. Birja Shanker**, Vice President R&D, United Phosphorus Ltd., Thane, India
- 17.00 - 17.30 Hrs. **Concluding Remarks**
- 17.30 - 18.30 Hrs. TEA BREAK / Networking Session

SESSION - 5

CONFERENCE DINNER & LECTURE

- 19.00 - 19.30 Hrs. Conference Dinner Lecture by: **Mr. Kiyoshi Asako**, Consul General of Japan, Mumbai
- 19.30 - 22.00 Hrs. CONFERENCE DINNER

8.00 - 9.00 Hrs. TEA / Coffee

SESSION - 6

PROCESS RESEARCH, DEVELOPMENT & SCALE UP

- 9.00 - 9.30 Hrs. **Practical Approach to Prepare Neurokinin Receptor Antagonist CS-003 via Asymmetric Oxidation Reactions**
- **Dr. Hiroshi Tomori**, Senior Director, Process Technology Research Laboratories, Pharmaceutical Technology Division, Daiichi Sankyo, Japan
- 9.30 - 10.00 Hrs. **Catalytic Oxidations**
- **Dr. (Mrs.) Lakshmi Kantam**, Director, IICT, Hyderabad, India
- 10.00 - 10.30 Hrs. **Development of Highly Active Catalyst for Alcohol Oxidation**
- **Mr. Masami Kozawa**, Synthesis Research Department, Chemical Research Laboratories, Nissan Chemical Ind. Ltd., Japan
- 10.30 - 11.00 Hrs. **Research and Development of Amino Acids Derivatives**
- **Dr. Toshihisa Kato**, Corporate Vice President, Ajinomoto, Japan
- 11.15 - 11.30 Hrs. **TEA BREAK / Networking Session**

SESSION - 7

PROCESS SCALE UP AND ENGINEERING

- 11.30 - 12.00 Hrs. **Process Development for the Large Scale Production of Unnatural Amino Acids**
- **Dr. Masaru Mitsuda**, Distinguished Scientist, Head of Research Team, Fine Chemicals Group, QOL Division, Kaneka Corporation, Japan
- 12.00 - 12.30 Hrs. **Process Development and Scale up of Generic API**
- **Dr. Vilas Dahanukar**, Vice President & Head - Global R&D, Dr. Reddy's Laboratories Ltd., Hyderabad, India
- 12.30 - 13.00 Hrs. **Concept to Commercialization of New Process Chemistry: Engineering Aspects**
- **Dr. S. Siva Kumar & Dr. Utpal Vakil**, SABIC Technology Center, Bangalore, India
- 13.00 - 14.00 Hrs. **LUNCH BREAK**

SESSION - 8

PROCESS SCALE UP AND ENGINEERING

- 14.00 - 14.45 Hrs. **Process Intensification / Continuous Processes for Fine & Specialty Chemicals**
- **Dr. Vivek Ranade**, Dy. Director, Chemical Engineering & Process Development Division, National Chemical Laboratory, Pune, India
- 14.45 - 15.00 Hrs. **TEA BREAK / Networking Session**

SESSION - 9

PROCESS SAFETY / PRODUCT SAFETY

- 15.00 - 15.30 Hrs. **Relevance of Process & Product Safety in Process Chemistry R&D**
- **Mr. Vijay Bhujle**, Head - Expert Services, Intertek India Pvt. Ltd., Mumbai, India

SESSION - 10

GREEN PROCESSES INCLUDING BIO-ENERGY

- 15.30 - 16.00 **A New Ether Process Solvent: Cyclopentyl Methyl Ether (CPME) for Green Chemistry & Process Innovation**
- **Mr. Mitsuru Sugawara**, Sr. Chief Researcher, New Materials Development Lab., R&D Centre, Zeon Corporation, Japan
- 16.00 - 16.30 Hrs. **Advanced Bio Energy Research - Indian Initiatives**
- **Dr. D. K. Tuli**, Executive Director R&D, Indian Oil Corporation, Faridabad, India
- 16.30 - 17.00 Hrs. **Concluding Remarks & Vote of Thanks**
- 17.00 - 18.00 Hrs. **WAY FORWARD FOR AN INDIAN CHAPTER** (*By Invitation Only*)

About the Organisers.....



Indian Chemical Council (ICC) was established in the year 1938 to promote the interests of the nascent Indian chemical industry. Pioneers of the chemical industry in India such as Acharya P. C. Ray brought together a group of industrialists including Rajmitra B. D. Amin and founded this national body.

What began as a vision, emerging from foresight and aspirations of the founding members, became the Indian Chemical Manufacturers Association (ICMA) and was subsequently rechristened as **Indian Chemical Council (ICC)**. Today, ICC has become the representative body of chemical industry in India and includes members both Indian companies as well as subsidiaries of multinational companies operating in India.

Home Page: <http://www.indianchemicalcouncil.com>



The Japanese Society for Process Chemistry (JSPC) was founded in 2001, after several symposia and sincere discussions between process chemistry directors of industries and university professors. JSPC aims to promote and encourage the development of process chemistry in various directions among members. Process chemistry includes synthetic chemistry, analytical chemistry, chemical technology, solid state chemistry, environmental science, regulations, patent problems and so on, to mention a few. JSPC has regular symposia twice a year, summer and winter, after the foundation commemorative symposium was held in 2002.

Members of JSPC belong to industries, especially pharmaceutical ones, manufacturers of intermediates, universities and so on. Process chemistry now occupies an important hub position between substance creative chemistry and commercial production. Without its strong activity, no useful compounds would be produced in an efficient manner on a large industrial scale. JSPC believes that the society will have a key feature to advance and improve process chemistry in this century.

Home Page: <http://www.jspc-home.com/process/index.html>

Registration Fees (Including Service Tax @ 12.36%)

ICC Members	₹ 13,500/- per delegate
ICC (Early Bird Discount if registered before 15 January 2014)	₹ 11,500/- per delegate
Non-Members	₹ 18,500/- per delegate
Non-Members (Early Bird Discount if registered before 15 January 2014)	₹ 15,000/- per delegate
Group Discount: 3-5 Delegates	15% Discount
Group Discount: More than 5 Delegates	20% Discount

Partnership

Principal Partner	₹ 7,50,000/-	7 Complimentary Registration
Platinum Partner	₹ 5,00,000/-	5 Complimentary Registration
Gold Partner	₹ 3,00,000/-	4 Complimentary Registration
Silver Partner	₹ 2,00,000/-	2 Complimentary Registration
Lunch / Dinner Partner	₹ 1,50,000/-	1 Complimentary Registration
Tea / Refreshment Partner	₹ 1,00,000/-	1 Complimentary Registration

Handbook containing Presentations

Advertisement Charges:

Back cover	₹ 75,000/-
Inside Front Cover	₹ 50,000/-
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Inside Full Page	₹ 30,000/-

For further details and registration, please contact:

Indian Chemical Council

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URL: www.indianchemicalcouncil.com



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ADVISORY COMMITTEE

INDIA

1. **Mr. Yogesh M. Kothari**, President - ICC & CMD, Alkyl Amines Chemicals Ltd., Mumbai
2. **Mr. Jai Hiremath**, CMD, Hikal Limited, Mumbai
3. **Prof. G. Mehta**, National Research Professor & Lilly-Jubilant Chair, School of Chemistry, University of Hyderabad
4. **Mr. S. Lamba**, MD, Eisai Knowledge Centre, Vizag.
5. **Prof. G. D. Yadav**, VC, Institute of Chemical Technology, Mumbai
6. **Mr. V. Shankar**, MD & CEO, Rallis India Limited, Mumbai (to be confirmed)
7. **Dr. K. Nagarajan**, Scientific Advisor, Hikal, Bangalore
8. **Mr. S. R. Lohokare**, MD, National Peroxide Limited, Mumbai

JAPAN

1. **Prof. Kiyoshi Tomioka**, Doshisha Women's College of Liberal Arts, Professor Emeritus of Kyoto University, President of JSPC
2. **Dr. Kunisuke Izawa**, Advisor, Hamari Chemicals & JSPC
3. **Dr. Toshiro Konoike**, Advisor, Osaka Synthetic Chemical Laboratories, Vice President of JSPC
4. **Dr. Takayuki Shioiri**, Meijo University, Professor Emeritus of Nagoya City University, Honorary President of JSPC
5. **Mr. Shigeru Soda**, President of Office Well SODA, Vice President of JSPC

ORGANIZING COMMITTEE

INDIA

1. **Dr. S. U. Kulkarni**, Director, R & D, Sabic Research & Technology, Bangalore
2. **Dr. Mrs. Lakshmi Kantam**, Director, IICT, Hyderabad
3. **Dr. S. Nambiar**, MD, AstraZeneca India Pvt Ltd., Bangalore
4. **Mr. S. R. Lohokare**, MD, National Peroxide Limited, Mumbai
5. **Mr. H. S. Karangale**, Director General - ICC, Mumbai
6. **Dr. V. S. Ekkundi**, Head of R&D, Hikal Limited, Bangalore

JAPAN

1. **Prof. Shuji Akai**, Graduate School of Pharmaceutical Sciences, Osaka University
2. **Dr. Toshihisa Kato**, Corporate Vice President, Ajinomoto
3. **Dr. Naoyuki Kishi**, Vice President, Process Technology Research Laboratories, Pharmaceutical Technology Division, Daiichi Sankyo CO., LTD.
4. **Dr. Masaru Mitsuda**, Head of Research Team, Fine Chemicals Group, QOL Division, Kaneka Corporation
5. **Dr. Hironao Sajiki**, Gifu Pharmaceutical University, Vice President of JSPC
6. **Dr. Katsuya Tagami**, Executive Director, API Research Japan, Eisai Co., Ltd.

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REGISTRATION FORM

To,
The Secretary General
INDIAN CHEMICAL COUNCIL
Sir Vitaldas Chambers, 6th Floor,
16 Mumbai Samachar Marg,
Mumbai – 400 001

Date: _____

Tel: 22047649 / 22048043 / 22846852, Fax: 22048057
E-mail: iccmumbai@iccmil.in / events@iccmil.in

Dear Sir,

With reference to the above, we are deputing following representative/s from our organization to attend the Conference:

Sl. No.	Name of Participant	Designation	Contact Details (Mobile/Email)
1.			
2.			
3.			
4.			
5.			

Registration Charges :

- ICC Members : ₹ **13,500/- per delegate**
(Early Bird Discount if registered before 15 January 2014) : ₹ **11,500/- per delegate**
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- Group Discount : 3 – 5 Delegates : **15% Discount**
- Group Discount : More than 5 Delegates : **20% Discount**

We are enclosing herewith our Cheque No. _____ dated _____ for Rs. _____ being the Registration Fee.

Name : _____

Designation : _____

Name of the Company : _____

Address : _____

Tel./ Fax Nos. : _____

E-mail : _____

Kindly draw the Cheque in favour of **INDIAN CHEMICAL COUNCIL**