

1st

First Circular

Annual Workshop
on
Catalysis

6-9 March, 2017



Organized by
Department of Applied Chemistry
Indian Institute of Technology
(Indian School of Mines)
Dhanbad-826004 (Jharkhand) INDIA

www.ismdhanbad.ac.in

Annual Workshop on Catalysis

About IIT(ISM) Dhanbad



Indian Institute of Technology (Indian School of Mines) is a fully residential institute situated in Jharkhand, India. Indian School of Mines was established by the Govt. of India in 1926 on the model of Royal School of Mines, London. Apart from Earth and Mineral Science Departments of national and international reputation, the Institute has expanded into diverse branches of science and engineering. The Govt of India has declared it as a full fledged IIT on 6th September 2016. To know about the Institute, please visit at <http://ismdhanbad.ac.in/>

About the Department

Department of Applied Chemistry at Indian Institute of Technology (Indian School of Mines) Dhanbad is in existence since 1989, having good infrastructural facilities and highly qualified faculty members. The Department offers 2yrs. M.Sc. Chemistry Course and Ph.D. programmes, while it also caters to various B.Tech. M.Tech. courses offered by other Departments. The Department is actively involved in research activities in multidisciplinary areas such as transition metal mediated catalysis, nano catalysis, gold nanomaterials, oxide nanorods, nanotubes, gas phase reactions, artificial photosynthesis, corrosion, polymer nanocomposites, conducting polymers, metal-organic frameworks, molecularly imprinted polymer synthesis, supramolecular chemistry, bioinorganic chemistry, photochemistry, heterocyclic chemistry in addition to the traditional divisions i.e. inorganic, organic and physical chemistry. The Department has about 100 full time research scholars at present and runs several sponsored projects funded by DST, CSIR, BRNS and UGC. The Department organized several conferences, National Seminars and Workshops. To know about Department, please visit at : <http://www.ismdhanbad.ac.in/applied-chemistry/>

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Importance and Scope

Sustainable energy is a theme in 21st century. Due to rapid depletion of fossil fuel globalized research has been focused to find alternative fuel for future generation. Different groups have been working for development of solar cell, bio-diesel, wind power etc. The recent advancements in nanotechnology has made a spectacular breakthrough in catalysis during the last decade. Advanced nanomaterials, mesoporous materials, organic-inorganic hybrid nanocomposites have made a significant landmark for the transformation of bio-mass to gasoline fraction as well as in bio-diesel synthesis. The abundant bio-mass in Asian countries can be used for production of biofuel through catalytic pathway. The workshop aims to apprise participants about the latest developments in Catalysis and also provide hands-on experience on instrumentation, such as Reactor, GC, Chemisorption and Physisorption techniques etc.

Topic of the Workshop

Topics to be covered with application in relevant field of Heterogeneous catalysis.

- Interface between nanotechnology and energy related catalysis.
- Process on Biomass conversion .
- Bio-diesel.
- Generation of hydrogen from hydrocarbons.
- Hydrotreating process.
- Catalyst characterization by different techniques.

Who can Attend

Research scholars, PG faculty members, Scientists and Industry persons.

About Venue Location

IIT(ISM)Dhanbad, is well connected with Kolkata International Airport by road or train (Howrah, Sealdah, Kolkata terminal). Dhanbad is well connected by train from most parts of the country.

How to Apply

Applicants are requested to download the registration form available online at <http://www.ismdhanbad.ac.in> and send the hard copy of the registration form along with the demand draft/AC payee cheques in favour of “ **Workshop on Catalysis**” payable at **SBI, ISM, Dhanbad branch** to the Coordinator on or before **31st Jan 2017**. **Travel cost and registration fee may be waived for deserving candidates depending on the availability of fund.**

Annual Workshop on Catalysis

Invited Speaker (Confirmed)

Prof. B. Viswanathan

National Center for Catalysis Research,
Department of Chemistry
IIT-Madras

Prof. P. Selvam

Professor
National Center for Catalysis Research
Department of Chemistry, **IIT-Madras**
Adjunct Professor - **Tohoku University, Sendai, JAPAN**

Prof. A. K. Suresh

Institute Chair and Professor in
Chemical Engineering, **IIT Bombay**, Powai

Prof. S. P Moulik

Emeritus Professor and Emeritus Scientist
Center for Surface Science
Dept. of Chemistry, **Jadavpur University**
Kolkata-700032

Dr B. M. Reddy

Head and Chief Scientist
Indian Institute of Chemical Technology (IICT)
Hyderabad

Dr. D Srinivas

Chief Scientist and Chairman
Catalysis and Inorganic Chemistry Division
National Chemical Laboratory (NCL), Pune

Prof. Asim Bhaumik

Senior Professor
Department of Material Science
Indian Association for Cultivation of Science
Jadavpur, Kolkata 700032

Dr. Anil Kumar Sinha

Head, Hydroprocessing Area, Refining Technology Division
Indian Institute of Petroleum
Dehradun, Uttarakhand

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Registration Fee

M.Sc Student : Rs 500/- (without accommodation)

M.Tech/JRF : Rs 1500/- (without hand on experience)

M.Tech/JRF : Rs 2500/- (with hand on experience)*

Faculty Members and Scientists, Staff nearby state/central universities : Rs 4000/ -

Industry People: Rs 5000/-

* Only 35 limited seats are available for hand-on-experience session for external participants on "first come first served" basis.

Accommodation

Shared accommodation may be arranged on demand if available. Local hospitality will be Provided depending on the availability of the fund.

Core Organizing Committee

Chief Patron : **Prof. D. D. Misra**, Chairman GC and EB IIT (ISM) Dhanbad

Patron : **Prof. D. C. Panigrahi** , Director, IIT (ISM), Dhanbad

Chairman : **Prof. D. D. Pathak**, Head of the Department

Co-Chairman : **Prof. G. Udayabhanu**, Associate Dean (A&R)

Convenor : **Prof. Biswajit Chowdhury**

Organizing Secretary : **Dr. R. P. John**

Joint Secretary : **Dr. H. P. Nayek** and **Dr. S. Sahu**

Treasurer: **Dr. S. K. Padhi**

Advisory Committee

Prof S. K. Paul Dean (F&P) IIT (ISM)

Prof. S. Mohanty Dean (Acad); IIT (ISM)

Prof. J. Manam Dean (Student welfare) IIT (ISM)

Prof. V.M.S.R. Murthy Dean (IRAA); IIT(ISM)

Prof. J. K. Pattanayak Dean (I) IIT (ISM)

Prof. Vishnu Priye Dean (R&D); IIT (ISM)

Prof N. R. Mandre, Associate Dean IIT (ISM)

Prof. G. N. Singh Associate Dean; IIT (ISM)

Prof. A. K. Mishra Associate Dean (IRAA); IIT (ISM)

Prof. S. K. Sinha, PCE; IIT (ISM)

Col (Retd) M. K. Singh; Registrar; IIT (ISM)

Annual Workshop on Catalysis

Local Organizing Committee

Dr. Mahendra Yadav, (Applied Chemistry)

Dr. B. K. Antony, (Applied Physics)

Dr. Mukul Das, (Electronics Engineering)

Dr. Sagar Pal, (Applied Chemistry)

Dr. Swapan Dey, (Applied Chemistry)

Dr. Somnath Yadav, (Applied Chemistry)

Dr. G. C. Nayek, (Applied Chemistry)

Dr. (Mrs) Rashmi Madhuri, (Applied Chemistry)

Dr. Chanchal Halder, (Applied Chemistry)

Dr. Soumitra Maity, (Applied Chemistry)

Correspondence Details

Coordinator

Prof. Biswajit Chowdhury

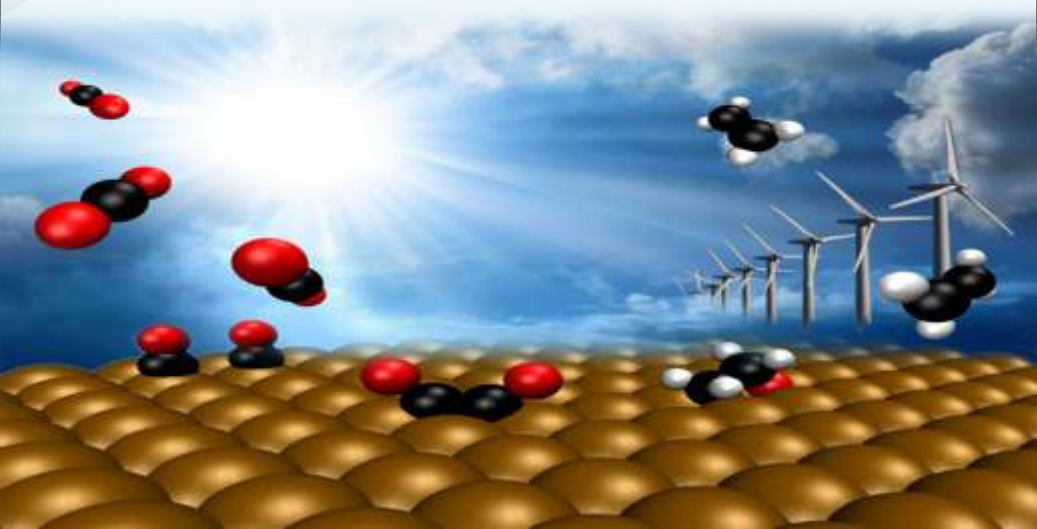
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Department: 0326-223-5281



REGISTRATION FORM



**Annual Workshop
on
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6-9 March, 2017

Organized by
Department of Applied Chemistry
Indian Institute of Technology
(Indian School of Mines), Dhanbad

Name

Designation & Affiliation

Organization

Gender

Address for Correspondence

Mobile No

Email

Academic Qualification

Experience (in years)

Accommodation Required (Yes/No)

Hand on Experience (Yes/No) :

Amount

Details of Demand Draft

Amount DD Number

Date :

Place :

Signature of the Applicant

Technical Session (Tentative)

6th March

9.00-9.45 A.M. Registration

10.00 AM -11.00 AM Inaugural Session

11.00 AM -11.30 AM High Tea

11.45 AM-12.45 PM : Plenary Lecture

12.45 PM- 2.00 PM : Break

2.00 PM- 3.00 PM : Oral Presentations by Young Scientists

3.00 PM- 3.30 PM Tea break

3.45 PM -4.45 PM Plenary lecture

4.45 PM- 5.45 PM Plenary lecture

6.00 PM -6.45 PM Poster Session

7.00 PM - 9.30 PM Cultural Program

7th March

9.00 AM -10.00 AM Plenary lecture

Presentation by Young Scientists

11.00 AM -11.30 AM Tea Break

11.30 AM- 1.00 PM Plenary lecture

1.00 PM -2.30 PM Break

3.00 PM- 4.00 PM Plenary lecture

4.00 PM- 4.30 PM Tea break

4.30 PM- 5.30 PM Plenary lecture

6.00 PM- 7.30 PM Poster Session

8th March

9.30 AM-12.00 PM (Hand-on-Experience and Discussion on Physisorption Techniques)

12.00 PM -1.00 PM (Hand-on-Experience and Discussion on Gas phase reaction)

3.30 PM -7.30 PM Hand-on-Experience and Discussion on Chemisorption Technique

9th March

10.00 AM- 12.00 PM : Hand-on-Experience and Discussion on SEM

12.30 PM- 2.00 PM Hand-on-Experience and Discussion on Gas Chromatograph

4.30 PM : Valedictory Session and Prize, Certificate Distribution

Training program will run in parallel sessions for different batch of the participants.

Title of the talk and session details will be announced in the Second Circular