

SPONSORSHIP / NOMINATION CERTIFICATE

Prof./Dr./Mr./Ms./Mrs./.....
.....

is an employee of our institute and his/her application is hereby sponsored / nominated. The applicant will be permitted to attend the short-term course “**Surfactant mediated pollutant removal techniques**” in Centre for the Environment at IIT Guwahati during 19/01/2016 to 23/01/2016, if selected.

Our institute is (tick one):

- TEQIP Project funded /& listed Institution
 CFTI
 State Govt Funded Institution
 Other Institution

Signature of Authority:

Designation:

Date:

Official Seal

Selected participants will be informed by e-mail
The duly sponsored / Nominated application form should be mailed to:

Prof. Mihir Kumar Purkait

Department of Chemical Engineering

Indian Institute of Technology Guwahati
Guwahati - 781 039, Assam

Ph. No. 0361-2522262(O), 09954248807 (M)

Fax No.: 0361-2582291

E mail: mihir@iitg.ernet.in

Homepage:

<http://www.iitg.ernet.in/chemeng/MKP.html>

ABOUT TEQIP

Under the TEQIP-II program sponsored by the MHRD IITs have been invited to participate by establishing a Centre dealing with KNOWLEDGE INCUBATION (KIC) vide DO No. 16-25/2013-TS.VII dated 25th June, 2013. These Centres are intended to become a focal point for training Faculty, Staff and Students from TEQIP-II institutions in Knowledge Engineering, Content Creation, Improving Teaching, Pedagogy & administrative skills in identified niche areas/disciplines.

ABOUT KIC

KIC- Knowledge Incubation Cell at IITG functions as a multi disciplinary as well as interdisciplinary Innovation Incubation Centre with Knowledge Management as its focus. Its activities are in the area of improving quality of technical education, incubator of Innovative Ideas; implementer of contemporary pedagogy practices and development of Learning Content in Technical institutions.

ABOUT IIT GUWAHATI

SNAP OF CAMPUS

IIT Guwahati campus is spread over a sprawling 785 hectares plot of green land on the north bank of the river Brahmaputra around 25 km from the heart of the city. With hills and vast open spaces the campus provides an ideal setting for training.

Details on how to reach IITG Campus are available on the website: www.iitg.ac.in



Indian Institute of Technology Guwahati



IITG

SHORT TERM COURSE on

Surfactant Mediated Pollutant Removal Techniques

January 19th - 23rd, 2016

Conducted by:
Centre for the Environment
IIT Guwahati

Organized by:
Knowledge Incubation Cell
Centre for Educational Technology
URL: <http://iitg.ernet.in/cet>

TEQIP



ABOUT THE COURSE

Application of surfactant science and the underlying fundamental concepts has long been cornerstone of Chemical Engineering. As Chemical Engineering is diversifying into fields such as Biotechnology, Biomedical Engineering, Environmental Engineering and Microelectronics processing, the modern surfactant science has changed its focus and significance. Surfactant science and the related interfacial phenomena were largely studied in Chemistry Department, but it is now solidly anchored in Chemical Engineering. The efforts of Chemical Engineers are mainly towards the processing of low-volume high-value products. This future defines an opportunity to design and engineer surfactants that possess relatively exotic and varied chemistry. The objective of this present short term course on **SURFACTANT MEDIATED POLLUTANT REMOVAL TECHNIQUES** is to describe recent progress in surfactant and interfacial science in a manner that defines areas which are suited for further study or technological exploitation.

COURSE CONTENTS

Outlines of the broad topics that will be covered during the course are as follows:

- Overview of surfactants in process technology
- Surfactant synthesis & characterization
- Properties of surfactant solutions
- Surfactants in multiphase flow
- Surfactant adsorption at the interface
- Bubble separation
- Liquid membrane & its applications
- Interfacial forces in the stability of colloidal particles
- Adsorptive micellar flocculation
- Cloud point extraction
- Micellar chromatography
- Micellar enhanced ultrafiltration
- Biosurfactants
- Surfactants in nanotechnology
- Interfacial reactions
- Enhanced oil recovery

* Laboratory classes on some selected topics will be conducted

ELIGIBILITY

The course is open to Faculty members, of TEQIP listed Institutions / Engineering Colleges and Govt. funded NE State Technical Institutions. Seats that remain unfilled will be open to other institutions. No course fee is charged. Candidates from TEQIP institutions will be reimbursed TA & DA from their respective institutions.

BOARDING AND LODGING

Boarding and lodging facilities (Guest House or Hostel rooms) will be provided for the selected candidates from TEQIP listed institutions. Depending on availability, lodging may be extended to non TEQIP candidates on self payment basis.

IMPORTANT DATES

The last date for the receipt of duly sponsored applications: By email (scanned copy): 25/12/2015
Hard copy must reach by: 31/12/2015

Intimation of selection: 01/01/2016

SELECTION CRITERIA:

Number of seats: 30

Selection will be based on First cum first served basis from priority (i) TEQIP mapped Institution (ii) CFTI (iii) State Govt. Institutions (iv) Other institutions.

FINANCIAL ASSISTANCE FOM IITG

Limited number of selected participants from CFTIs & State Govt institutions in the NE (ie: Non TEQIP funded institutions) may be considered for reimbursement of to and fro railway fare via shortest route in sleeper class (proof of journey / ticket needed) and free lodging and boarding in the hostel during course period. Participants will be informed by e-mail. For all other participants no TA/DA will be paid by IIT Guwahati.

Address for correspondence :

Name : Prof. Mihir Kumar Purkait

Department of Chemical Engineering

Indian Institute of Technology Guwahati

Guwahati- 781 039, Assam, India

Phone: +91-9954248807

<http://www.iitg.ernet.in/chemeng/MKP.html>

Application Form

1. Name (block letters):
2. Designation & pay scale:
3. Organisation:
4. Address for communication:

Pin code: Ph. No.:

E-mail:

Fax No.

Mobile No.:
5. Highest Academic Qualification:
6. Specialization:
7. Experience (in yrs):

(a) Teaching: (b) Industrial:
9. Choice of Accommodation:

 Hostel Guest House Will make my own arrangement.
10. Category: General Reserved

Please register me for the course on **“Surfactant mediated pollutant removal techniques”** to be held at IIT Guwahati.

I am sending an advance copy of this application by email to the coordinator of the course.

I undertake to send the Hard copy signed by the Head of our Institution.

Place:

Date:

Signature of the applicant



**Application Form for TEQIP Short Term course on
Surfactant mediated pollutant removal techniques
January 19 – 23, 2016, IIT Guwahati**

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