

CONCEPT TO COMMERCIALIZATION

CENTRE FOR LIPID RESEARCH

(Lipid Science and Technology Division)



CSIR-INDIAN INSTITUTE OF CHEMICAL TECHNOLOGY
HYDERABAD – 500 007

Institutional Expertise

- Product Development
- Process Know-how Package
- Basic/Detailed Design Engineering
- Custom Synthesis
- Technical / Advisory Consultancy
- Up-scaling Facilities on Hire
- Analytical Testing Facilities

Core Competence of Centre for Lipid Research

- Newer Extraction & Processing Methodologies
- Enzymatic, Microwave-assisted & Membrane-based Processes
- Value-added Products from By-products of Vegetable Oils
- Biodiesel from Vegetable Oils
- Castor and other Vegetable Oil-based Chemicals for Surfactants, Perfumery, Lubricants & Specialty Applications
- Structured Lipids like Diacyl Glycerol, Trans-free Vanaspati, Reduced Calorie Fats
- Nutraceuticals like ALA, GLA, DHA, CLA, etc., Food Grade Lecithin, Modified Phospholipids, Glycolipids, Tocopherols, Phytosterols, Stanol Esters, Octacosanol (Polycosanol)
- Chromatographic (GC, GC-MS, HPLC etc.) & Spectral (UV, IR, NMR etc.) Analysis

Commercialized Technologies

- Enzymatic Degumming of Rice Bran Oil
- Upgraded Rice Bran Wax
- Hydrogenated Rice Bran Wax
- Triacontanol / Octacosanol (Polycosanol)
- Food Grade Lecithin
- Tocopherols / Phytosterols
- Dehydrated and Hydrogenated Castor Oil
- Undecenoic Acid / Heptaldehyde
- 11-Bromo and 11-Amino Undecanoic acid
- Sodium Stearoyl Lactylate

For Further Details Contact:

Dr. R.B.N. Prasad, Head, Centre for Lipid Research
CSIR-Indian Institute of Chemical Technology, Hyderabad – 500 007, India
TEL: 91 40 27193179 • TELEFAX: 91 40 27193370
e-mail: rbnprasad@iict.res.in • Web site: www.iictindia.org



REFRESHER COURSE ON CONVENTIONAL, CHROMATOGRAPHIC AND SPECTRAL ANALYSIS OF OILS & FATS



March 14 - 16, 2012



Organized by

**Centre for Lipid Research
CSIR-Indian Institute of Chemical Technology
Hyderabad**

Supporting Organizations

**Oil Technologists' Association of India
Southern Zone**



The Solvent Extractors' Association of India



ABOUT REFRESHER COURSE

Centre for Lipid Research of Indian Institute of Chemical Technology (Hyderabad) is organizing a three day short course on Analysis of Oils and Fats by Conventional, Chromatographic and Spectral Methods in association with OTAI (SZ) and SEA during March 14-16, 2012, at IICT, Hyderabad. The Division is one of the highly productive divisions of IICT orienting its R&D activities complementing the vision of CSIR and the demands of the Indian vegetable oil industry. One of the recent developments during the 11th five year plan is the recognition bestowed on this Group by CSIR as **The Centre of Excellence for Lipid Research**. The vegetable oil industry is one of the oldest and a major industry contributing next only to the petrochemical industry and made rapid progress in recent times due to technological innovations. However, the industry needs to gear up to face the challenge of globalization and also address issues of environmental concern. The ever increasing demands of the quality conscious consumer and stringent food laws imposed by the Government pose not only great challenge to the industry but also offer opportunity to deliver products matching international quality and standards.

The earlier short courses organized by IICT were highly successful as shown by the ratings given by the participants. Moreover, the request for organization of short course at regular intervals reflects the impact it made on the industry and academia. In this context, it was envisaged that a short course of 3 day duration would be appropriate to address the needs of the industry. The course has been designed to equip the participants with the latest and relevant information of analysis of oils and fats with a major thrust to contemporary interests like trans fatty acid, oryzonal content, phosphorus content etc. The course provides both theoretical and practical information to new plant personnel and an opportunity for those experienced to interact with experts in the field and enhance performance of their industry. The course focusses on Conventional, Chromatographic and Spectral Techniques practiced in vegetable oil industry viz. from raw material selection to processing and production.

Registration Charges : ₹ 15,000

Last Date for Registration : March 9, 2012

REFRESHER COURSE ON CONVENTIONAL, CHROMATOGRAPHIC AND SPECTRAL ANALYSIS OF OILS & FATS

March 14–16, 2012

CSIR-Indian Institute of Chemical Technology
Hyderabad

TOPICS COVERED

- Chemistry of Oils & Fats
- Conventional Analytical Methods
- Analysis of Oils & Fats using Spectral Methods (UV-Visible & IR)
- Analysis of Oils & Fats using Thin Layer & Gas Chromatographic Methods
- Importance of Analytical Techniques in Monitoring Vegetable Oil Refining
- Government Rules & Regulations for Vegetable Oil Industry
- Open Session with Faculty to Address any Specific Issue
- About Centre for Lipid Research

DEMONSTRATIONS

- Soxhlet Extraction
- Conventional Methods of Analysis of Oils & Fats
- UV-Visible Spectrophotometric Analysis for Phosphorus and Oryzanol Content
- Thin Layer Chromatography for Detection of Adulteration in Oils
- Gas Chromatography for Fatty Acid Composition of Oils
- IR & GC Methods for Trans Fatty Acid Content
- Rancimat for Oxidative Stability of Vegetable Oils

For Details, Please Contact:

Dr. P. P. CHAKRABARTI

Convener, Refresher Course

Centre for Lipid Research

CSIR-Indian Institute of Chemical Technology

Hyderabad - 500 007

Tel: 040-27191444 / 27193179 • Telefax: 040-27193370

Mobile: 09391005338

e-mail: pradosh@iict.res.in • pchakrabarti@yahoo.com

REFRESHER COURSE ON
**CONVENTIONAL, CHROMATOGRAPHIC AND
SPECTRAL ANALYSIS OF OILS & FATS**

March 14–16, 2012

CSIR-Indian Institute of Chemical Technology
Hyderabad

REGISTRATION FORM

A. Participant: Mr. Ms. Dr.

Name:

(In Block Letters)

Designation:

Organization:

Address for Correspondence:

.....

.....

Pin: Fax:

Telephone:

Mobile: E-mail:

B. Registration Charges: Rs.15,000/-

Demand Draft No. Dated:

* By demand draft drawn in favour of Director, Indian Institute of
Chemical Technology, payable at Hyderabad.

Last date for Registration : **March 9, 2012**

Please mail the Registration Form at the following address:

Dr. P. P. CHAKRABARTI

Convener, Refresher Course

Centre for Lipid Research

CSIR-Indian Institute of Chemical Technology

Uppal Road, Tarnaka, Hyderabad - 500 007

Tel: 040-27191444 / 27193179

Telefax: 040-27193370

e-mail: pchakrabarti@yahoo.com