

About Us

Department of Chemistry, National Institute of Technology, Tiruchirappalli, celebrated the Golden jubilee year of its inception in 2014. Apart from teaching B.Tech. and M.Sc. (Chemistry) students, the Department is actively engaged in basic and applied research. The research programmes of the Department are funded by MHRD, UGC, CSIR, DST, MOEF, BRNS, DRDO, etc. and the Department has to its credit a wide range of sophisticated instruments for supporting current trends in research.



**Completed registration forms
should be sent to**

**Dr. L. CINDRELLA
Professor and Head**

**Department of Chemistry
National Institute of Technology
Tiruchirappalli 620015**

EMAIL: cind@nitt.edu

Phone: 0431 2503634

**Last date for receipt of the
registration form : 24.11.2015**

**Total number of participants = 30
(on first come first served basis)**

***Workshop
on***

**Self assembled layers –
Preparation, Characterization
and Applications**

27.11.2015 - 28.11.2015



Organized by

**Department of Chemistry
National Institute of Technology
Tiruchirappalli 620015
Tamilnadu**

Scope of the Workshop

Material surface exhibits functionality such as catalytic activity, cohesibility, and reactivity. Designing structures with intended properties has gained momentum to such an extent that mono layers of active material does the same function as the outer surface of the bulk material thereby promising enhanced activity per unit surface area. Custom-designed layers are less material based and more property filled. Hence this workshop aims to focus on the simple methods of preparation of the self assembly while highlighting their applications. The characterization techniques such as goniometric analysis will help to evaluate the hydrophobicity and hydrophilicity of the surfaces. The super hydrophobic self-cleaning surfaces and their characteristic surface properties such as contact angle, hysteresis, surface energy and surface tension will be assessed. The electrochemical technique such as impedance spectroscopy will be demonstrated to evaluate the characteristics of self assembled layers.

The theory sessions will be supported with experimental evaluation by using Contact angle meter and Electrochemical surface analyser. The Lab sessions will be conducted during the afternoon sessions.

Who can participate? Post graduate students (both I M.Sc. and II M.Sc) of Chemistry can apply.

Registration Fee: Rs.200/-

(DD for Rs.200/- should be drawn in favour of "The Director, NIT, Tiruchirappalli, and payable at Tiruchirappalli)

ORGANIZER

Dr. L. CINDRELLA
Professor and Head

Department of Chemistry
National Institute of Technology
Tiruchirappalli 620015

Registration Form

Workshop on
Self assembled layers –Preparation,
Characterization and Applications

27.11.2015 - 28.11.2015

Name: _____

Institution: _____

Address: _____

Email: _____

Mobile/Phone No: _____

Accommodation needed: Yes/No.

(Accommodation will be provided in the Institute Hostel subject to availability and the nominal accommodation charges will be borne by the participant)

Registration fee remittance details:

DD No.: _____

Date : _____

Rs.: _____

Bank: _____

Signature:

Date: