LET US EXPAND YOUR EXPERTISE
INTERFACING WITH OUR KNOWLEDGE

ADVANCE COURSES IN SURFACE SCIENCES

Date: Nov. 4 to Nov. 5, 2019 at Bengaluru
Nov. 6 to Nov. 7, 2019 at Hyderabad
Nov. 8 to Nov. 9, 2019 at Mumbai

Limited Seats Available At Each Location

Presentations

The talks will be delivered by Dr. Daniel Frese, Application Scientists & Dr. Youssef Akil, Technical Consultant of KRÜSS GmbH, Germany.

Internet

At Website www.orbitresearch.co.in / www.kruss-scientific.com, you will find a vast wealth of information on the theory and practice of interfacial chemistry.
Contact Angle Measurement

- Theoretical introduction to contact angle, surface free energy & adhesion.
- Demonstration of methods described in lecture for surface free energy.
- Example applications from research and development, presented by guest speakers.

We will provide practical demonstrations of the methods covered on our own instruments:

Dynamic Surface Tension & Surface free energy.

- Theoretical introduction to dynamic surface tension.
- Demonstration of methods described in lectures.
- Example application from, research and development presented by guest speakers.
- We will provide practical demonstration of dynamic surface tension.

Surface Tension Measurement

By attending our seminar, you will gain in-depth understanding of surface tension (Surface and interfacial tension (IFT)). You will an familiarize yourself with mechanisms surfactant action and learn more about characterizing surfactants. We will use contact examples to illustrate the significance of surface tension.

Whether used for quality assurance scientific research, tensiometry is the measurement technique for analyzing surface and interfacial phenomena of liquids.

Apply our expertise to your measurement tasks

Wettability, adhesion, surface free energy: when it comes to the surface properties of solids, contact angle measurements are an indispensable tool for material research and quality assurance. We would like to share our science expertise and provide helpful knowledge for applying contact angle measurement techniques.
**Dynamic Foam Analysis**

We will provide detail methods of analyses:

- Software-controlled foaming by means of sparging or stirring.
- Investigations of externally produced foams.
- Determination of total, foam, and liquid height.
- Foamability parameters, including maximum height, foam capacity and density.
- Decay parameters, including start, half-life, and time-dependent foam heights similar to Ross-Miles.
- Temperature-controlled measurements up to 90°C.
- Measurement of bubble size distribution and the change in this distribution in different resolution ranges.
- Calculation of mean bubble size and its standard deviation.

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**ABOUT SPEAKERS**

**Dr. Daniel Frese**

*Application Scientist*

KRÜSS GmbH, Hamburg, Germany

Dr. Daniel Frese received his PhD in Biophysical Chemistry at the University of Göttingen, Germany. Since 2014 he is Application Specialist at KRÜSS GmbH, Hamburg - Germany. Dr. Frese has been working together with key companies and research centers in the field of coating technology, surfactant research, adhesives, personal care, just to name a few, building solid experience in surface and interface science.

**Dr. Youssef Akil**

*Technical Consultant*

KRÜSS GmbH, Hamburg, Germany

Dr. Akil researched the wood polymer xylan and its chemical modification by cyclic organic carbonates. Since 2018, Dr. Akil joined KRÜSS as Technical Consultant and specialist in application, service and customer support. Dr. Akil is active in heading regular applications and technical training courses.
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REGISTRATION FORM

CHARGES
Rs.5000 + 18% GST, in favor of Orbit Research & Consultancy payable at New Delhi. Payment Mode; DD, Cheque, NEFT, RTGS.

BANKS DETAILS
ICICI Bank, Preet Vihar, New Delhi-110092, Account No.003705500430, IFSC: ICIC0000037, SWIF No. ICICINBB007, in the name of "Orbit Research & Consultancy".

The free include the course fee, course material Lunch & Tea and a get together Dinner

Title/First Name/Last Name .................................................................
Company ..........................................................................................
Institute/Department ........................................................................
Address ............................................................................................
Phone/Fax .........................................................................................
E-mail ................................................................................................
GST Number ....................................................................................
Registration Confirmation (if different) ................................................
Invoicing Address (if different) ...........................................................

Date ........................................ Signature .............................................

for additional info: please contact Surendra Khurana : 9310039977

PAST PARTICIPANTS

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