The Secretariat Workshop on Rheology Polymer Research Center (PORCE) Faculty of Science and Technology Universiti Kebangsaan Malaysia (UKM) Bangi, Selangor

(Attn: Assoc. Prof. Dr. Ishak Ahmad)

Important Deadline

Registration by: 15th October 2012

Registration Fees

Researchers and lecturers: RM 600.00 Students: RM 350.00

(The course fee includes comprehensive course notes and CD,

lunch and refreshment).

Payment can be made via cheque or bank draft, made payable to 'Bendahari Universiti Kebangsaan Malaysia' and send to:

The secretariat

Workshop on Rheology

Polymer Research Center (PORCE) Faculty of Science and Technology Universiti Kebangsaan Malaysia 43600 Bangi, Selangor (Attn: Assoc. Prof. Dr. Ishak Ahmad)

For further inquiry, please contact: Assoc. Prof. Dr. Ishak Ahmad

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Mdm. Norhayati Sulaiman

(Call: 03-89215424, Fax: 03-89215410)

Website: www.ukm.my/porce

Accommodation

Bookings can be made directly with the hotel:

+603-89213114 Rumah Tamu Ungku Omar, UKM

+603-89261900 NIOSH, Bangi

+603-82102222 Hotel Equatorial, Bangi

+603-89250900/1900 ESSET, Bangi



Workshop on Rheology

6 - 7 November 2012

School of Chemical Sciences and Food Technology Faculty of Science and Technology UKM, BANGI

Organized by:

Polymer Research Center (PORCE),

School of Chemical Sciences and Food Technology Faculty of Science and Technology UKM &

Alpha Analytical (M) Sdn. Bhd.



Introduction

Rheology is principally concerned with extending continuum mechanics to characterize flow of materials that exhibits the combination of elastic, viscous and plastic behavior by properly combining elasticity and Newtonian fluid mechanics. It is also concerned with establishing prediction for mechanical behavior based on the micro- or nanostructure of the material.

Rheological characterization provides a precise means for measuring intrinsic material properties that can be related to its processing characteristics and performance. Theoretically, it is associating external forces and torques with internal stresses and internal strains gradient and velocities.

The workshop will cover both theoretical and practical aspects of rheology. Participants are free to interact with the instructors informally.

Objectives

The main objectives of the workshop are:

- ✓ To disseminate the understanding of basic theory associated with rheology.
- ✓ To offer alternative to material characterization through rheological study.
- ✓ To highlight troubleshooting in measurement of material properties.
- ✓ Data interpretation.

Target Participant

Scientists, engineers, technologists, researchers, technicians, post graduate students and all those interested in rheological study of materials.

Scope of Workshop

The two-day workshop comprises of lectures and hands-on experience on Rheology. The topics of the lectures are as follow:

- Principles of rheology elasticity, viscosity, viscoelasticity, shear rate, shear stress, Hooke's law, temperature effects.
- Advanced topics of rheology storage modulus, loss modulus, time dependency, linear viscoelasticity, gel time, curing behavior
- Understanding rheology testing liquid, melt or solid form, rotational tests, measuring systems, instrument compliance.
- Slurry rheology, food rheology, polymer rheology.
- Rheology in Polymer Science and Technology
- Rheology in Food Science.

Speakers and Facilitators

- 1. Assoc. Prof. Dr. Rusli Daik Expert in polymer study.
- 2. Dr. Maarof Abd. Ghani– Expert in food processing technology.

Organising committee Advisors

Assoc. Prof. Dr. Khairiah Hj. Badri Assoc. Prof. Dr. Rusli Daik

Chairman

Assoc. Prof. Dr. Ishak Ahmad

Secretary

Ms. Azlin Mohmad Azman

Treasurer

Mdm. Nor Fauziana Abd. Aziz

Committee members:

Dr. Suzeren Md Jamil Dr. Azizah Baharum Mr. Hasanuddin Saleh Mdm Norhayati Sulaiman Mr. Johar Puteh

Reply form

Name:
Title :
Address:
Phone no.:
Fax no.:
E-mail:
Participation in workshop as:
Researchers
Students
Others

I/We hereby enclose payment for participant(s) amounting to RM...... in the form of cheque/bank draft no: and made payable to: Bendahari Universiti Kebangsaan Malaysia.