

WORKSHOP PROGRAM

8 June 2015

- Registration
- Welcoming address by the organizer/ Chairman
- Case-Study #1: Polymer Analysis
- Refreshment
- Case Study #2: NMR Analysis on Polymer
- Lunch break
- Principle of Thermal Analysis
- Introduction to DSC/ STA model Hitachi
- Refreshment and End of First Day Session

9 June 2015

- Hands on analysis using DSC by Hitachi
 - ✓ *amorphous polymer/ crystalline polymer/semi-crystalline/Semi-amorphous polymer*
- Refreshment
- Hands on analysis using STA by Hitachi
 - ✓ *amorphous polymer/ crystalline polymer/semi-crystalline/Semi-amorphous polymer*
- Lunch Break
- Group Activity: Interpretation and Analysis of Data
- Certificate presentation and Closing Ceremony

IMPORTANT DEADLINE

Registration deadline: 30 May 2015

Go to online registration at www.ukm.my/mpic to participate in the workshop.

Registration Fee

	Early bird	After 30 th May
Researcher / Academician :	RM550	RM600
International Student :	USD250	USD300
Student :	RM350	RM400

For an entitlement to a student rate, please show student ID during registration for verification.

Payment can be made via cheque or bank draft payable to **Bendahari Universiti Kebangsaan Malaysia** and sent to:

The Secretariat

Workshop on DSC/STA for Thermal Analysis on Polymer and Polymer Case Study on FTIR and NMR spectroscopies
Polymer Research Center (PORCE)
Faculty of Science and Technology
Universiti Kebangsaan Malaysia
43600 UKM Bangi, Selangor

Wherever applicable, please separate the cheque or bank draft for the workshop and concurrent Malaysia Polymer International Conference.

For further enquiries, please contact:

Dr Farah Hannan Anuar/

Ms Azlin Mohamad Azman

Tel: 03-89214984/5424 Fax: 03-89215410

Email: porce@ukm.edu.my

Website: www.ukm.my/mpic

Workshop on DSC/STA for Thermal Analysis on Polymer and Polymer Case Study on FTIR and NMR Spectroscopies

8-9 June 2015

**Research Laboratory G104
Chemistry Building
Faculty of Science and Technology**

**Organized By
Polymer Research Center (PORCE)
Faculty of Science and Technology**

**Co-organized with
School of Chemical Sciences & Food
Technology
Faculty of Science and Technology**

**Universiti Kebangsaan Malaysia
The National university of Malaysia**



In Collaboration with



PLT SCIENTIFIC SDN. BHD.

INTRODUCTION

Workshop of DSC/STA for Thermal Analysis on Polymer and Polymer Case Study on FTIR and NMR spectroscopies is designed to continue the tradition of hosting informative and instructional workshops organized by Polymer Research Center. This workshop is in conjunction with Malaysia Polymer International Conference 2015 (MPIC 2015). This Workshop will convene on Monday morning preceding the Conference.

This workshop focuses on thermal properties and thermal behaviors of materials. These topic areas provide excellent examples of how different thermal methods can be used together to provide a more comprehensive understanding of the underlying chemical and physical phenomena. Furthermore, these areas have a broader social appeal due to the development of greener processes and continuing advancement of various manufacturing applications.

The enhancement of knowledge in connection to identifying the relationship between thermal behavior and chemical structure of materials are presented in a form of case study on polymer by mean of spectroscopy analyses.

OBJECTIVES

- To understand the principles of thermal analysis and thermal properties
- To manage thermal analysis data obtained from DSC and STA
- To identify the relationship between thermal behavior and chemical structure of materials

SCOPE OF WORKSHOP

The two-days workshop comprises of lectures and hands-on experience on thermal analysis followed by several case study.

The lectures will cover topic on

- Principles of Thermal Analysis
- Differential Scanning Calorimetry (DSC)
- Simultaneous Thermal Analysis (STA)
- FTIR spectroscopy
- NMR Spectroscopy

SPEAKERS AND FASCILITATORS

BARRY JONES

Director, Magnetic Resonance Business,
Oxford Instruments Industrial Analysis, United Kingdom

FARAH HANNAN ANUAR, PhD

NMR/GPC Expert, Polymer Research Center, UKM

NOBUAKI OKUBO

Application Engineer, Analytical Application Eng. Dept
Hitachi High-Tech Science Corporation, Japan.

- ❑ Mr. Edward Yong, Technical Director, PLT Scientific
- ❑ Ms. Kho Ley Er, Product Manager , PLT Scientific
- ❑ Ms. Bianca Ong, Product Specialist for Hitachi Thermal Analyzer, PLT Scientific
- ❑ Mr. Ng Yean Kai, Service Manager , PLT Scientific
- ❑ Assoc. Prof. Dr. Khairiah Haji Badri, Head of Polymer Research Center, UKM
- ❑ Dr. Hanieh Kargarzadeh, Associate, Polymer Research Center

ORGANISING COMMITTEE

Patrons

Assoc. Prof. Dr. Khairiah Haji Badri
Assoc. Prof. Dr Wan Aida Wan Mustapha

Chairman

Dr Farah Hannan Anuar

Secretary

Ms Azlin Mohmad Azman

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Mdm Nor Fauziana Abd. Aziz

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Dr Siti Fairus Mohd Yusoff

Mr. Adnan Mohamad

Mr. Hasanudin Saleh

Mdm Norliza Abu Baker

Ms Zaharah Harun

Mdm Norhayati Sulaiman

TARGET PARTICIPANTS

Scientists, engineers, technologists, researchers, technicians, postgraduate students, industries and those interested in thermal analysis.

REPLY FORM

Name:

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Affiliation:

Contact Address:

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Phone No.:

Fax No.:

E-mail:

Mode of Participation in Workshop:

Researcher / Academician

Student

Others, Please State

.....
I/We hereby enclosed payment for the registration fee to participate in Workshop of DSC/STA for Thermal Analysis on Polymer and Polymer Case Study on FTIR and NMR spectroscopies

RM.....in the form of cheque/ bank

draft No. and made payable to 'Bendahari Universiti Kebangsaan Malaysia'.