International Union of Crystallography (IUCR)*

International Centre For Theoretical Physics (ICTP)*

Malaysian Nuclear Agency (Nuclear Malaysia)

Malaysian Nuclear Society (MNS)

First Announcement

INTERNATIONAL CONFERENCE ON NEUTRON AND X-RAY SCATTERING

(ICNX 2009)

June 22-24, 2009

Kuala Lumpur, Malaysia

- **- to be confirmed later**

INTRODUCTION

In view of the success of previous neutron and x-ray scattering conference in this region (ICNX 2007, Bandung, Indonesia), it has been decided to reconvene the International Conference on Neutron and X-Ray Scattering, in 2009. The conference will take place from June 24 to 25, 2009 in Kuala Lumpur, Malaysia.

Scattering technique using neutron and x-ray is a powerful method to probe and study the structure and dynamics of materials ranging from the mechanics of proteins folding and its effect in physiology to the ordering of atomic magnets of solid material of industrial interest. Both neutron and x-ray can be exploited using a variety of measurement techniques to provide information not otherwise available.

The availability of new optical system that can micro-focus neutron provide opportunity to explore new characterization technique and full-utilization of small research reactor that scattered throughout the world. The build of new synchrotrons allow more scientist to use high-intensity x-ray for their research. In addition, new modeling approach and software development permit valuable connection between theoretical and experimental analysis. Characterization with neutron and x-ray scattering have made significant contribution to the large research activities in engineering, materials development, polymer dynamics, chemical technology, biological studies, and physics, and will continue to do so.

The objective of this conference is to bring together scientists who develop neutron and x-ray scattering instruments, perform characterization experiments, synthesized materials and computation. Discussion will be focused on recent results and ideas in these areas. The conference will consist of lectures and poster on new and emerging areas in scattering technique

WHO SHOULD ATTEND

Researchers in research organizations, government, industry and academia, who are working on instrument development, materials synthesis and characterization, modeling and simulation of neutron and x-rays scattering experiment.

CALL FOR POSTERS

Posters are invited on the topics outlined and others falling within the scope of the conference. Abstracts of no more 300 words should be submitted before ***January 31th. 2009***. We strongly encourage the submission of abstract electronically.

Abstracts should clearly state the purpose, results and conclusion of the work to be described in the final poster. Final acceptance will be based on the full-length paper of the poster. The poster must be presented at the conference.

The language of the conference will be English.

PUBLICATION OF PAPERS

Full length paper of poster presented will be printed in a proceedings published by The American Institute of Physics (AIP)

CONFERENCE VENUE

The conference venue and details of the program will be announced later.

EXHIBITION

There will be space for organizations to display products, services and literature to the theme of the conference. Further details are available from the Conference Secretariat

CONFERENCE TOPICS

Include (but are not limited to):

Neutron and X-Rays Scattering
Small/Wide Angle Scattering
Diffraction
Inelastic Scattering
Reflectometry
Interferometry
Tomography/Radiography
Polarized Neutron
Pulsed Neutron
Synchrotron X-rays

Modeling & Algorithm
Density Functional Theory
Finite Element/Volume
Molecular Dynamics
Monte Carlo
Computed Tomography
Residual Stress

Instrumentation
Cryogenic Technology
Real-Time Experimentation
Micro-Focus Technology
Neutron/X-ray Detector
Neutron/X-ray Optics
Imaging System Development
Digital Signal Processing
Data Analysis/Software Development

LOCATION

Kuala Lumpur is the largest city in Malaysia function as the center for major commercial and social life in the country. The international airport is approximately 30 min to the city centre by train. It is a city with a combination of modern thriving metropolis and lingering old world charm. It houses over 1.3 million inhabitants with wide ethnic diversity which uniquely blends age-old customs and traditions: colorful festivals, songs and dances and a rich variety of foods to tempt the palate.

A distinctive combination of old colonial and new Asian where tea houses, shops and hawker stalls line streets next to world-class hotels and high-rise office blocks, you can see all these in Kuala Lumpur.

ENQUIRY FORM

Wherever possible, information about this conference will be sent to you by e-mail

Title (Prof/Dr/Mr/Mrs/Ms).....
Name.....
Organization.....
Address.....
Postcode/Zip Code.....
Country.....
Telephone.....
Fax.....
E-mail.....

By completing this form, we understand that you are agreeable to receiving further information on this event. We will not disclose this information to third parties.

ABSTRACT SUBMISSION

E-mail submission

Please submit your abstract including your name, full address and contact numbers. Submission should be directed according to the conference topics:

Neutron and X-ray Scattering
e-mail: megatharun@nuclearmalaysia.gov.my

Modeling & Algorithm
e-mail: raf@nuclearmalaysia.gov.my **or**
faridah@nuclearmalaysia.gov.my

Instrumentation
e-mail: aziz_mohd@nuclearmalaysia.gov.my

Fax submission

Fax : **+603-8925-0907**
Fax one copy of your abstract together with the completed Enquiry Form

Mail Submission

Mail: *Abdul Aziz Mohamed* **OR**
Megat Harun Al Rashid Megat Ahmad
ICNX 2009, Conference Secretariat,
Block 34, Materials Technology Group
Agensi Nuklear Malaysia
43000 Bangi, Selangor
MALAYSIA

*Please mail a copy of your abstract with a completed Enquiry Form

For enquiry – Tel.: +603-8925-0510