



Conferences and Workshops

Join Rigaku at future meetings

In June, Rigaku introduced the new SmartLab 3 at the European Powder Diffraction Conference (EPDIC) held at Århus University, Århus, Denmark. Shown above is the Rigaku booth where a SmartLab goniometer and the new SmartLab 3 system was available for attendees to view.

Rigaku will be sponsoring, attending or exhibiting at the following conferences and trade shows:

Denver X-ray Conference
Big Sky, MT, USA
July 28 – August 1

Microscopy and Microanalysis
Hartford, CT, USA
August 4 – 7

IUCr 2014
Montreal, Canada
August 5 – 12

[See the complete list](#)

Lab in the Spotlight

IUCr-UNESCO Rigaku OpenLab in Cambodia
Institute of Technology of Cambodia, Phnom Penh, Cambodia



Inst. of Tech. of Cambodia

Kim Ngun Bun

Students arriving

The **IUCr-UNESCO OpenLab Cambodia** started on July 7th. The opening ceremony was chaired by Kim Ngun Bun (lecturer at ITC and local organizer of the event), and welcome speeches were given by Phol Norith (Deputy Director of ITC), Kazuyuki Inoue (Rigaku Corporation), Ros Soveacha (UNESCO Cambodia) and Michele Zema (IUCr, Project Manager for IYCr2014).



Phol Norith

Ros Soveacha



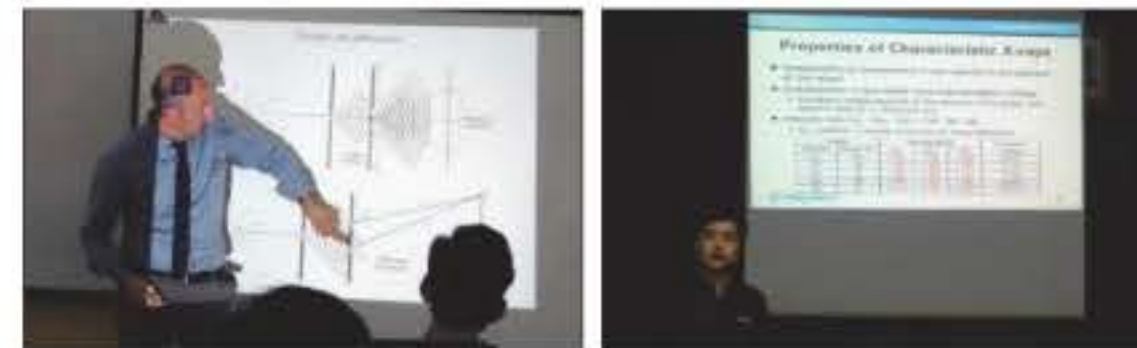
Michele Zema

Opening remarks were followed by a talk by Dr. Bun about research activities and perspectives in Cambodia and at the ITC in particular. Michele Zema (IUCr) then introduced the global IUCr-UNESCO OpenLab project and the worldwide activities taking place during IYCr.

The afternoon was dedicated to the basics of symmetry and diffraction (M. Zema). On the second and third days, Dr. Yue Bing (Rigaku Corporation) introduced the topic of X-ray powder diffraction, including systems, methods and instrumentation.



Opening session



M. Zema

Yue Bing

The last two days were dedicated to hands-on tutorials. Students were able to collect powder diffraction patterns from their own samples and analyze the data.

Everybody enjoyed the great atmosphere and perfect organization. The social dinner held in a typical Khmer restaurant was a perfect icebreaker for all participants.



Coffee break

Rigaku staff

Banquet

[Read more about this event](#)



Thin Film Training Textbook

Overview of the principles of X-ray reflectivity (Part 7)

Our next installment of Rigaku's thin film training textbook concerns the experimental aspects of reflectivity measurement. Reflectivity measurements must accurately measure a wide range of intensity changes in the extremely low angle range of grazing X-ray incidence. With grazing X-ray incidence, even extremely narrow X-ray beams produce a widespread radiation field on the sample surface. This makes correct optics alignment, sample mounting, and sample alignment before measurement particularly important.

[Click here for Part 7](#)