

We are pleased to announce the first **SEA COAST** workshop in the Southeast Asian region. The course is organized to provide instruction in fundamental principles of protein X-ray Crystallography to graduate students, postdoctoral researchers, and more established young scientists who have a background and/or are interested in protein X-ray crystallography.

The workshop will cover an overview of macromolecular crystallography and structure solution process including **crystallization, data collection theory, processing, phasing, refinement, validation, PDB deposition of the structural data, molecular graphics and bioinformatics.**

Intensive training in modern crystallographic software suites, such as **CCP4, PHENIX, SHELX, Global Phasing software** and many more individual programs will be provided by the software developers.

The students who have unresolved crystallographic problems, will have the opportunity to work one-on-one with the world class experts!

### INTERNATIONAL SPEAKERS

**Terese Bergfors**

*Uppsala University,  
Sweden*



**Ronan Keegan**

*CCP4, Harwell, UK*



**Eugene Krissinel**

*CCP4, Harwell, UK*



**Andrey Lebedev**

*CCP4, Harwell, UK*



**Andrew Leslie**

*Medical Research Council  
Laboratory of Molecular  
Biology, Cambridge, UK*



**Bernhard Lohkamp**

*Karolinska Institutet,  
Sweden*



**Garib Murshudov**

*Medical Research Council  
Laboratory of Molecular  
Biology, Cambridge, UK*



**Ruslan Sanishvili**

*Advanced Photon Source,  
Argonne National Laboratory,  
Argonne, USA*



**Tom Terwilliger**

*Los Alamos National  
Laboratory, USA*



**Andrea Thorn**

*Rudolf Virchow Center for  
Experimental Biomedicine,  
University of Wuerzburg, Germany*



**Clemens Vornrhein**

*Global Phasing Ltd.,  
Cambridge, UK*



**David Waterman**

*CCP4, Harwell, UK*



### LOCAL SPEAKERS

**Nuttawan Pramanpol**

*Synchrotron Light Research  
Institute, Thailand*



**Leela Ruckthong**

*King Mongkut's University of  
Technology Thonburi, Thailand*



**Marasri Ruengjitchachawalya**

*King Mongkut's University of  
Technology Thonburi, Thailand*



For more details of the workshop, please visit the SEA COAST website:

<http://science.kmutt.ac.th/kmuttcp4>

The application is now open until **November 30, 2018.**

30 applicants will be selected for participation in the workshop. For questions, please contact

**Dr. Leela Ruckthong** at [leela.ruc@mail.kmutt.ac.th](mailto:leela.ruc@mail.kmutt.ac.th) or

**Dr. Ruslan Sanishvili** at [rsanishvili@anl.gov](mailto:rsanishvili@anl.gov)

