

DAY 2		
CHEMICAL CRYSTALLOGRAPHY		PROTEIN CRYSTALLOGRAPHY
Single Crystal XRD (Bruker)	Powder XRD (Rigaku)	Computational Crystallography Data Processing & Model Building
APEX workshop with hands-on training. The primary topic of this workshop is to teach participants the usage of APEX for data integration, structure determination and refinement from single crystal area detector data. The workshop is open to all applicants interested in the capabilities of APEX.  What you will learn:  Introduction to the concept and the workflow  CIRRUS for Sample Submission and Results Dissemination  Structures within minutes  Exploring the reciprocal space, defaults, challenges, and pitfalls  Starting a data collection, tips and tricks  Indexing including twin handling  Data integration and scaling  Structure solutions and refinement including twins, disorder, and others	Theory of X-ray Diffraction	Part-I: Lecture  Introduction to Molecular Replacement Experimental Phasing Structure Refinement & Model Validation  Part-II: Hands-On Molecular Replacement Model Building & Refinement Model Validation Summary & Closing

## What you will do:

•Use your own laptop to determine and refine several organic and inorganic structures

## **Instructors:**

Dr. Kenji Yoza, Senior Application Scientist SC-XRD, Bruker Japan K.K Dr. Zhang Zhenyi, Senior Scientist SC-XRD, Bruker Shanghai Dr. Prathapa S. Jagannatha, Product Manager SC-XRD, Bruker India Scientific Pvt. Ltd.

## Instructors:

Dr. Muhammad Firdaus Bin Omar Dr Low Yiin Jian Mr. Takahiro Kuzumaki

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