The 11th Synchrotron, Advanced Technology for Industry: SATI)





X-ray MicroCT: Revealing the Matter Inside Your Products in 3D

P. Pakawanit and C. Rojviriya*

*Beamline manager SLRI, Thailand

Principle of X-ray MicroCT





X-ray MicroCT Beamline

X-ray Tomographic Microscopy

Beamline 1.2W

Experimental station

Exp. hutch BL1.3

Experimental hutch BL1.2W

Exp. hutch BL1.1

BL1.2 : Control cabin - Computer station

- Experiment control & setup
- Data acquisition system
- Sample preparation
- Data processing & backup



Experimental hutch of X-ray MicroCT Beamline







Experimental setup & Sample preparation





X-ray imaging







Composites







BaTiO₃/polydimethylsiloxane





Polymer











Agricultural materials : Interpore network



Metal : Corrosion propagation





Heritage bead



Technical consultants:

- 1. Catleya Rojviriya catleya@slri.or.th (Cat)
- 2. Phakkhananan Pakawanit phakkhananan@slri.or.th (Own)
- 3. Chalermluck Phoovasawat chalermluck@slri.or.th (Whan)



