

Hamilton

host

X-RAY FLUORESCENCE SPECTROMETRY

modular short course with special topical workshops

June 18 – June 29, 2018

Offered by

London X-ray Consulting Group

Week 1: Introductory XRF

June 18 – June 22, 2018

Includes :

‘SAMPLING AND SAMPLE PREPARATION FOR XRF’ Workshop (June 22)

Week 2: Advanced XRF

June 25 – June 29, 2018

Includes :

‘APPLICATION DEVELOPMENT: WORK SMART’ (June 29)

Registration options:

- Weeks 1 and 2 or Week 1 or Week 2 (provided week 1 was attended previously)
- Workshops only

**All theoretical lectures are reinforced
with practical laboratory exercises.**

For further information and registration:

Contact: Dr. Charles Wu, Course Coordinator

E-mail: info@LondonXrayConsultingGroup.com

Web Address: <http://www.LondonXrayConsultingGroup.com/shortcourse.html>

Special Hands-On Session

WORK SMART NOT HARDER

- method development
good practice
- matrix corrections:
 - *fundamental parameters (FP)
 - *influence coefficients
 - *compensation methods
- standards and standardization
- QA/QC/Validation approaches
- GLP, GMP compliance

Week 2

Building on the Principles

Special Topic Workshop

SAMPLE PREPARATION

- pressed powders, fused beads
- metals, liquids, special sample preparations
- grain size, mineralogical, chemical, and surface effects
- introduction to quantitative major and trace analysis
- figure of merits and selection of instrumental parameters
 - counting statistics and detection limits
 - matrix effects: absorption and enhancement
- detectors, pulse height selection, spectral analysis
- dispersion of x-rays, EDX and WDX spectrometers
- properties of x-rays, excitation and scattering of x-rays

Week 1

The Foundation

Who should attend?

Week 1:

- XRF Operators
- people involved in sample preparation
- anyone using XRF data: geologists, material scientists, plant managers, QC managers, etc.

Week 2:

- XRF Lab Managers involved in audits, method validation, accreditation
- analysts responsible for calibrations
- academics, material scientists, and application scientists