

Seminar: X-ray Fluorescence Spectrometry (XRF) - A powerful technique for the analysis of materials

When: 16 October 2017 (Monday), 10:00 am - 4:00 pm

Where: AHC Lab 5, Ground Floor, AgHort building, Massey University, Palmerston North

Topics

XRF is a powerful technique which can be used for the analysis of solids (B – U) and liquids (Na – U). The technique is extremely powerful for the analysis of unknown materials. Within a few minutes samples can be well characterized. For industrial customers, their application can be setup to work in turn key operation suitable for process workers to test samples and produce good analytical results with minimal training. The presentation will discuss

- Sample preparation
- XRF instrumentation (basic theory)
- Applications

Sample Types and Preparation

- Liquids
- Filters (Gas & Liquids)
- Solids
- Loose Powders
- Pellets
- Polymers
- Metals
- Fusions (Comprehensive discussion by Danny Verbeeten)

Physics of X-rays:

- What are they?
- Origin?
- Properties?
- Influence of Measurement Path – Vacuum, Helium and Air

Registration is complimentary, and lunch will be provided.

To register, visit this link

<https://goo.gl/9eEAgv>

For any enquiries, contact:

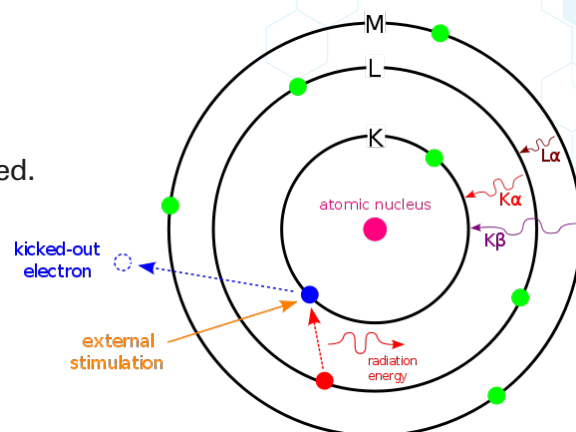
Neil Hughes, neil.hughes@bruker.com

Basic Theory of Bench Top & Floor Standing XRF

- EDX & Polarized EDX
- WDX (Sequential & Simultaneous)

Applications

- Mining, Industrial Materials
- Cement
- Metals
- Polymers
- Multi-Layer Analysis
- Mapping
- Unknown Materials



● Presenters

Elvy Grigolato – Bruker XRF Application Scientist

Mr Elvy Grigolato has worked in the field of XRF for more than 30 years. During this time he has worked for sixteen years in the aluminium industry, 10 years at James Cook University and joined Bruker shortly after the Australian office was opened. During regular visits to the applications laboratory in Karlsruhe and working in Asia, he has gained exposure to applications not routinely performed in Australia and New Zealand. He is currently the Bruker application support scientist supporting Australia, New Zealand and South East Asia. He is also a technical assessor for NATA and IANZ for ISO17025.



Danny Verbeeten – XRF Scientific Group Chemist

Danny Verbeeten is a chemist with XRF Scientific and provides application support and product training for new sample preparation equipment. He operates a small applications laboratory for fusion methods development as well as quality control analysis. He has over 20 years' experience as an analytical chemist in a variety of laboratories both government and commercial. Danny has expertise in a wide range of metal and mineral analytical techniques including EDXRF, spark emission and ICPAES.

