

ECASIA'17

CasaXPS Data Treatment Techniques 1 Day: Thur. 28 Sept - Neal Fairley and Vincent Fernandez

Thursday 28th September: Extracting Chemical State Information from XPS Data

Instructors: Neal Fairley and Vincent Fernandez

Understanding your sample, understanding the technique and understanding data treatment underpins good science. The objective of this one-day course is to show how the feedback loop formed from these three essential aspects for XPS analysis makes XPS one of the most powerful techniques available to surface analysis.

A one day course will cover the latest developments in data treatment tools in CasaXPS. The course is suitable for people experienced in XPS and XPS data analysis. A series of examples will be used to explain new and old features in CasaXPS. Supervised sessions with videos and data will be part of the short course providing hands-on experience of topics covered during lecture sessions.

Topics will include: Identification of oxidation states, preparation of peak models for polymers, analysis of heterogeneous samples and manipulation of data to extract informed-sample-models from ARXPS, imaging and other evolving data sets. The emphasis will be on extracting self-consistent information from XPS data sets in terms of peak models and atomic concentration. Characterisation of XPS instruments and the importance of the measurement process to proper quantification will be discussed.