

SOLID STATE ANALYSIS IN THE PHARMACEUTICAL SCIENCES

15 December 2017 9 am – 4 pm

Venue: School of Pharmacy Room 713, Adams Building

COURSE DESCRIPTION

The course is of particular importance for any postgraduate student working in drug development or delivery or wanting to pursue a career in the pharmaceutical industry and researchers who would like to learn more about solid state analysis.



Presenters

Associate Professor Clare Strachan
(University of Helsinki, Finland)

Professor Thomas Rades
(University of Copenhagen, Denmark)



The solid state of materials plays an essential role in drug and dosage form development, with the majority of drugs being administered in a solid form. Detailed knowledge about the solid state behavior of drugs and dosage forms is thus required to rationally develop medicines, and this is increasingly important since many new drugs will have to be developed as enabling formulations, containing the drug in a metastable or even unstable solid state.

Being confronted with a plethora of techniques, rational characterization of drugs and dosage forms, as well as process control, can be a daunting task. In this course, we will;

1. provide an introduction to the different solid state forms and levels of solid state analysis (thermal, diffractometric, spectroscopic and imaging).
2. outline the most important solid state characterization techniques, their application in pharmaceutical solid state characterization, their pros and cons, and their most useful combinations.
3. discuss case studies (mostly from our own research) to highlight the rational combination of techniques.

There is no cost to attend this course. There will be a casual networking dinner on Thursday evening at a local restaurant and this is at attendees own cost.

Please email [Arlene McDowell \(arlene.mcdowell@otago.ac.nz\)](mailto:arlene.mcdowell@otago.ac.nz) to indicate your attendance.



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