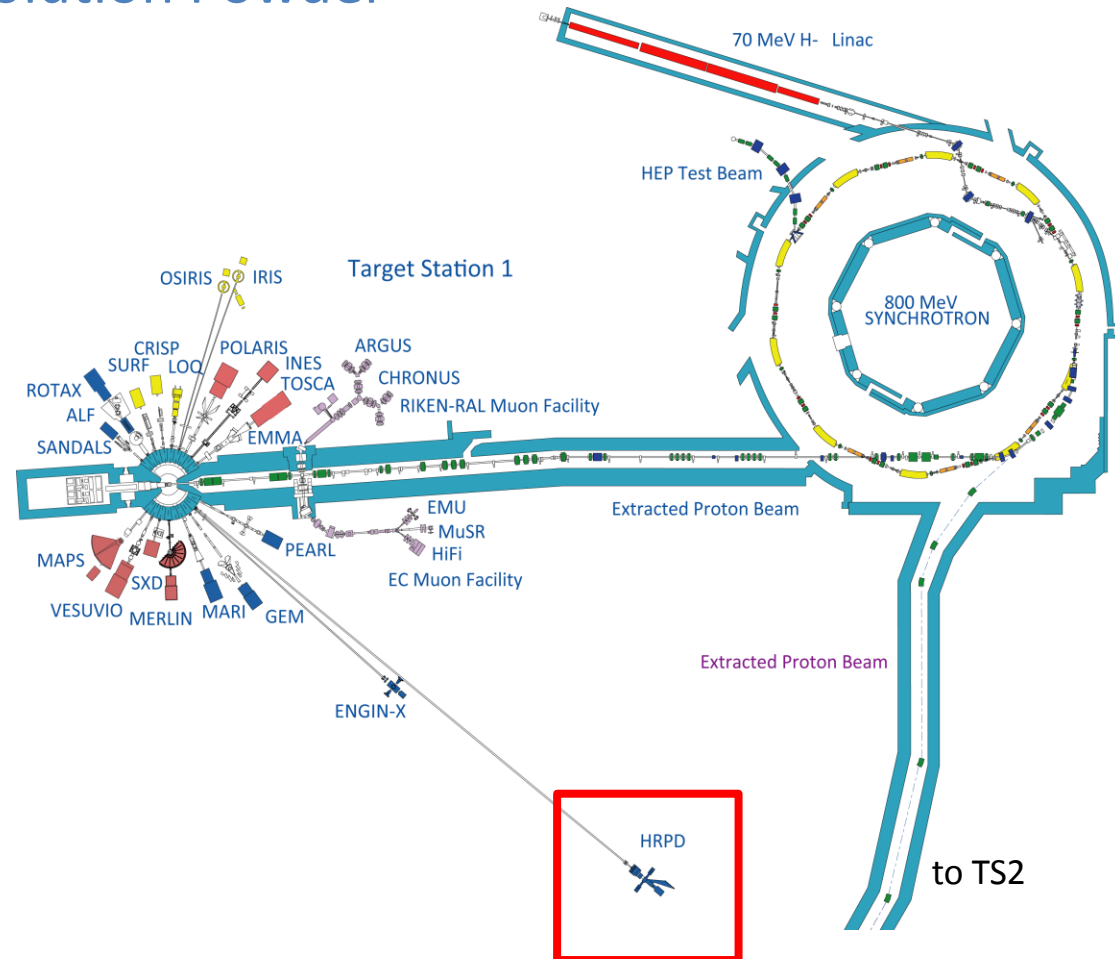
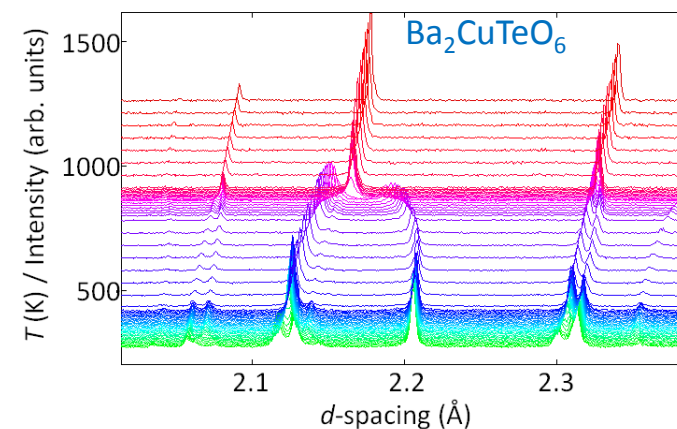
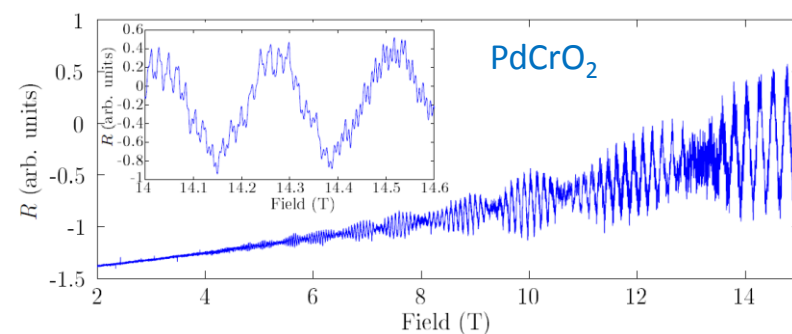
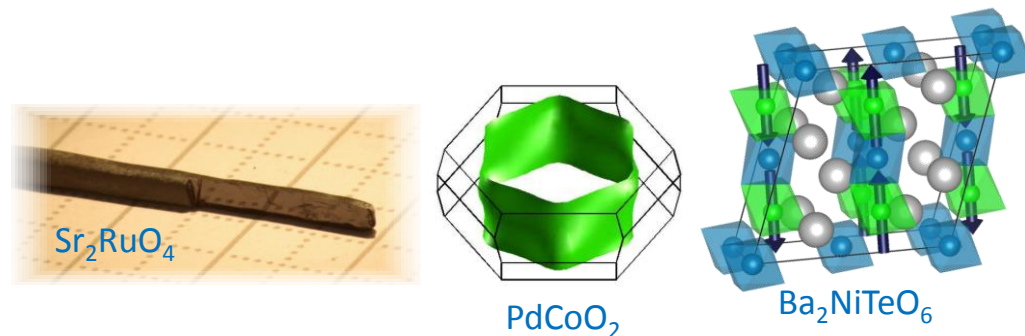
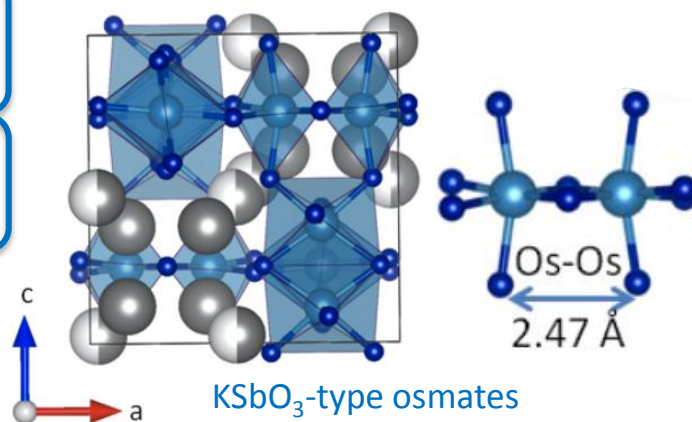
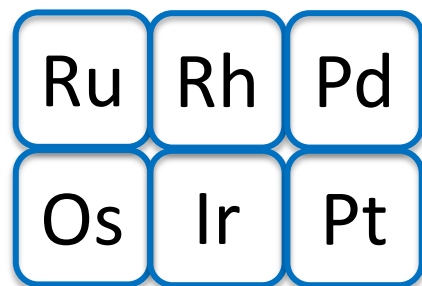


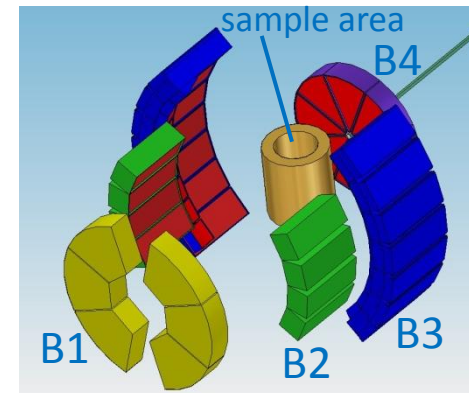
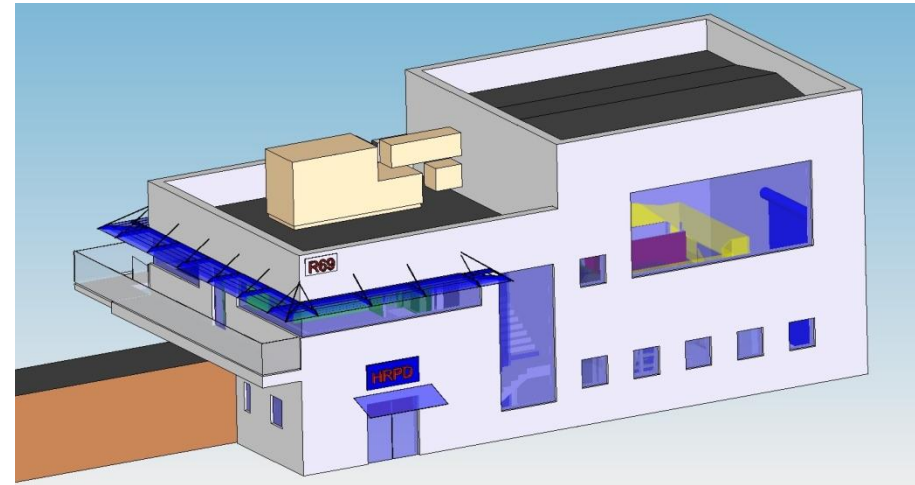
- Since February 2016 an instrument scientist for HRPD (High Resolution Powder Diffractometer) at ISIS
- Previously academic research in St Andrews (PhD), Tokyo and Stuttgart (postdoc)
- Working on structure-property relationships in transition metal oxides



- Crystal growth (floating zone, flux growth), solid state synthesis
- Quantum oscillation studies of Fermi surfaces, resistivity, specific heat, magnetisation
- Neutron diffraction (high resolution, symmetry analysis of phase transitions)

Study of structure-property relationships in transition metal oxides, currently focusing in particular on those containing platinum group metals with strong spin-orbit coupling





Upgrade to include:

- Increase in detector solid angle
- Better low-Q coverage
- Upgrade tank, collimation etc. to allow more flexibility in sample environment (e.g. magnets)

Preliminary modelling has been performed but detailed designs and inclusion of new ideas yet to be undertaken