

INS hands-on visit of Swedness school to ISIS

	Mo 11/12 PM	Tu 12/12 AM	Tu 12/12 PM	We 13/12 AM	We 13/12 PM	Th 14/12 AM	Th 14/12 PM	Fr 15/12 AM (Coseners)
Group 1 "physics"	Check-in 15:00	TOSCA	MAPS	Data evaluation	Magnetic scattering analysis	Conclude analysis and short report	Tours	Sum-up & examination
Group 2 "biology"	Check-in 15:00	QENS	TOSCA	MAPS	Data analysis	Conclude analysis and short report	Tours	Sum-up & examination
Group 3 "chemistry"	Check-in 15:00	Data analysis/quantum chemistry	QENS	TOSCA	MAPS	Conclude analysis and short report	Tours	Sum-up & examination
Group 4 "chemistry"	Check-in 15:00	Data analysis/quantum chemistry	MAPS	QENS	TOSCA	Conclude analysis and short report	Tours	Sum-up & examination

AM: 9 – 12:30, PM: 13:30 – 17:00

20 students, to be divided into groups of 5 ("physics", "biology", 2x "chemistry")

Study goals:

1. Physics group: focus on magnetism, evaluation and analysis of magnetic scattering data, MAPS primary instrument.
2. Biology group: focus on dynamics, QENS spectrometer (either ISIS or OSIRIS) primary instrument.
3. Chemistry group: focus on chemical spectroscopy, spectral interpretation and computer simulations, TOSCA primary instrument. Inorganic materials ((complex) metal hydrides, C60?), organic materials (benzene, ethanol)..

Check-in: Welcome, badges, safety, general overview (TS1, TS2)

Data analysis/quantum: intro to spectral interpretation and computer simulations, preparation for data analysis using a-Climax (Ulrich)- Gaussian (check for available university licenses that students can access (KTH, LiU, SU, Chalmers). Access a-Climax from Mantid.

Tours:

1. Muon facility (Mark Telling introduction, Martin Månsson beamline tour)

(students will do the muon e-learning module prior)

2. DIAMOND (TBA) **Check back with David Price**

3. Overview of structural sciences and diffraction activities (Steve Hull introduction, possibly Dariusz&Wojciech tour of diffractometers)

Practical aspect: If possible, combine muon and diffraction tours - i.e. someone takes the students around ISIS (in 2 groups?) and they meet up with Martin at the muon beamlines, Wojciech(?) at Polaris and Dariusz(?) at IMAT.

Have students install Mantid on their laptop

Have as many students as possible install Gaussian on their laptop