

N03 Radiation & Radiological Protection

11th – 15th September 2023

Module lecturers: Gavin Smith (AGS), Kara Lynch (KL), Stuart Christie (SC)
Laboratory demonstrators: Toby Wright (TW), Adhitya Sehkar (AS) William Hillman(WH)

Radiation users please note: Radioactive sources will be used in the laboratory

Timetable

Monday 11th September – Blackett Lecture theatre – Ground Floor, Schuster Building

09:00 - 09:30	Welcome and Introductions
09:30 - 10:30	Lecture (AGS-1)
10:30 - 11:00	Coffee break
11:00 - 11:45	Lecture (AGS-2)
11:45 – 12:30	Lecture (AGS-3)
12:30 - 13:30	Lunch
13:30 - 14:20	Lecture – (KL-1)
14:20 – 14:50	Introduction to Laboratory (TW,AS,WH)
14:50 – 15:40	Lecture - (SC-1)
15:40 - 16:10	Coffee break
16:10 - 17:00	Lecture – (SC-2)

Tuesday 12th September – Blackett lecture theatre – Ground Floor, Schuster Building

09:00 - 09:50	Lecture - (SC-3)
09:50 – 10.40	Lecture – (SC4)
	Coffee break
11:00 - 13:00	Group 1: Laboratory (with a break for lunch) Group 2: Tutorial; complete pre-course question sheet; Space Batteries briefing (TW)
13:00 – 14:00	Lunch
14:00 – 15:00	Lab & Tutorials (cont'd)
15:00 – 15:10	Coffee break
15:10 – 18:10	Group 1: Tutorial; complete pre-course question sheet; Space Batteries briefing (TW) Group 2: Laboratory
Before 6:10 pm	Hand in completed pre-course answer sheet to AGS or NTEC Office

Wednesday 13th September – Blackett lecture theatre – Ground Floor, Schuster Building

09:00 – 10:00	Lecture (KL-2)
10:00 – 13:00	Group 1: Laboratory Group 2: Presentations (Groups 2a, 2b)(KL/SC); Space batteries exercise
Mid-morning	Coffee break
13:00 - 14:00	Lunch
14:00 – 15:00	Lecture by Rick Hallard (Former President of the Society of Radiological Protection) <i>Radiological protection in the nuclear industry</i>
15:00 - 18:00	Group 1: Presentations (Groups 1a, 1b)(KL/SC); Space batteries exercise Group 2: Laboratory
Mid-afternoon	Coffee break

Thursday 14th September – Blackett lecture theatre – Ground Floor, Schuster Building

09:00 – 11:30	Group 1: Laboratory Group 2: Space batteries exercise; IAEA short film Coffee break as required
11:30 – 12:30	Industry Lecture by Ahmed Aslam (Jacobs) <i>Radiation Shielding</i>
12:30 – 13:30	Lunch
13:30 – 14:30	Industry Lecture by Lewis McFarlane (TÜV SÜD – Nuclear Technologies Division) <i>LWR/BWR Source Terms and Radiation Protection in the Industry</i>
14:30 – 15:00	Coffee break
15:00 – 17:30	Group 1: Space batteries exercise; IAEA short film Group 2: Laboratory

Friday 15th September – Blackett lecture theatre – Ground Floor, Schuster Building

09:00 - 10:00	Lecture (KL-3)
10:00 - 10:45	Space batteries – discussion of results (AGS)
10:45 - 11:00	Coffee break
11:00 - 12:00	Lecture (KL-4)
12:00 - 12:30	Module Review (AGS/KL/SC/AS/WH)