

ICMS and MAC-MIGS Modelling Camp 2024

Venue: ICMS, Level 5, Bayes Centre, 47 Potterrow, Edinburgh EH8 9BT

TUESDAY 23 APRIL

09.00 - 10.00	Registration and refreshments
10.00 - 12.00	Introductions, housekeeping, and problem description, ICMS lecture theatre (includes coffee break)
12.00 - 12.30	Group forming
12.30 - 13.30	Lunch
13.30 - 16.00	Group work (includes coffee break)
16.00 - 16.30	Day 1 catch up, ICMS lecture theatre
16.30 - 17.00	Group debrief
17.00 - 18.00	Informal welcome reception

WEDNESDAY 24 APRIL

09.00 - 12.30	Group work (includes coffee break)
12.30 - 13.30	Lunch
13.30 - 16.00	Group work (includes coffee break)
16.00 - 17.00	Day 2 catch up, ICMS lecture theatre
17.00 - 17.30	Group debrief

THURSDAY 25 APRIL

09.00 - 12.30	Group work (includes coffee break)
12.30 - 13.30	Lunch
13.30 - 16.00	Group work (includes coffee break)
16.00 - 17.00	Day 3 catch up, ICMS lecture theatre
17.00 - 17.30	Group debrief
19.00 onwards	Modelling camp dinner, the Big Snug @ Ten Hill Place Hotel

FRIDAY 26 APRIL

09.00 - 10.00	Group work
10.00 - 12.30	Final problem presentations, ICMS lecture theatre (includes coffee break)
12.30 - 13.30	Lunch and debrief

Detailed breakdown: Introductions, housekeeping, and problem description (Tuesday 23 April, 10.00-12.00)

10.00 - 10.10	Introductions and housekeeping (Cathal, HWU and Sarah, ICMS)
10.10 - 10.25	#1 Improving techniques for the capture of environmental contaminants (Tim Myers, CRM)
10.25 - 10.40	#2 Efficient economic scenario generation (Joe Meagher, Hymans Robertson)
10.40 - 10.55	#3 Melting scrap copper in an electric arc furnace (William Lee, University of Huddersfield)
10.55 - 11.15	Coffee
11.15 - 11.30	#4 Machine learning applications for soundscape source separation and marine mammal detection (Jane Warley, OSC)
11.30 - 11.45	#5 Energy efficiency in controlled environment agriculture (Ann Smith, University of Huddersfield)
11.45 - 12.00	#6 Expanding lung health initiatives across Scotland (Anne Ritchie, The Cheyne Gang)

Problem presentations (Tuesday) – given by industry partners. These should be 15 minutes long, and introduce the problem; you don't need to leave time for questions as we'll have a bit of discussion time. It would be great to explain a bit of background of your organisation, why the problem is interesting and challenging, and some possible starting directions - feel free to say if you're open to suggestions from the students!

Group forming (Tuesday) – involves academics and industry partners, and students. In this session, we need to collate students' preferences with problems. So, let's kick it off with discussion where students and industry partners mingle for 15mins, then we ask them for their preferences and then we go away and form groups based on discussions with students.

Group work – students work on their allocated problem*

End of day catch-ups – students present their progress so far to the other participants.

Group debriefs – students meet to discuss how to proceed on the problem.

Final problem presentations – students give their final presentations (~20mins each).

** It's up to the industry and academic partner how much time they would like to be involved. You could be in the room with the students directing them (within reason) or you could be in "guru" mode in a different part of the ICMS and they can just come to you when needed. It all depends on how much progress you would like to make on your problem!*