

CCP-EM UK cryoEM Facilities Meeting 2-3 June 2025

Location: Radcliffe Conference Centre, University of Warwick
<https://warwick.ac.uk/services/conferences/spaces/radcliffe>

Travel:
<https://warwick.ac.uk/services/conferences/guestinfo/location/>

Accommodation: Radcliffe Warwick Conferences Hotel. Rooms have been reserved by CCP-EM so please reserve via our registration site. Free parking available. More details on the accommodation here:

<https://www.guestreservations.com/warwick-conferences-radcliffe>

Aim: Help all members of the cryoEM facility community

Providing world class cryoEM facilities is essential for the continued success of our field in the UK. This conference will provide opportunities to:

- Identify and share problems and solutions to run successful facilities
- (Re)Build self-support network for the facility staff
- Introduce new members of support staff to the community
- Share best practices and training materials
- Establish collective impact of cryoEM over the 'post revolution' decade for use in future grant applications
- Discuss current software solutions and identify gaps for future development

Contact:
ccpemevents@stfc.ac.uk

Potential challenge theme focus areas:

The idea is to have a series of sessions to discuss challenge areas and share solutions. Here are some suggestions but please get in touch (ccpemevents@stfc.ac.uk) if you have any others.

- Instrumentation - what do you have and what do you want. What has worked well, what hasn't, how to maintain older systems.
- Funding - how is your facility funded, what is required and how can we help each other in a competitive field?
- Training - how do you deliver training, what is required in 2025, what resources can be shared?
- Data management - how much data do you generate, how is this stored, if it FAIR to keep petabytes of data and how to do that?
- Tip and tricks for running a successful facility - what worked for you to share with others
- Future challenges in UK EM e.g. tomography, drug discovery/industry, connection w/ other related fields e.g. cell biology, proteomics, ML/AI
- Other suggestions?

Costs:

Thanks to CCP-EM's industrial license holders attendance only costs £25. Accommodation is also available for the 2nd June (£168).



Day 1: Monday 2nd June
Radcliffe Conference Centre Space 1 (M1)

- 10:00** **Arrival / coffee and informal networking**
- 11:00** **Session 1 - Software**
30mins New developments in CCP-EM software for tomography and automated pipeline tools
30mins Processing pipelines and computational support at eBIC
30mins Example of computational pipelines at another facility or open discussion of computation needs of facilities / areas for development
30mins CryoEM data and metadata deposition at the EBI
- 13:00** **Lunch**
- 14:00** **Session 2 - Challenge discussion**
Table discussions on challenge theme (1hr)
Feedback to room (30mins)
- 15:30** **Coffee**
- 16:00** **Session 3 - Challenge discussion**
Table discussions on challenge theme (1hr)
Feedback to room (30mins)
- 17:30** **Session 4 - (Re)establishing support networks for UK facilities**
Whole room discussion
How best to help each other? Should we have a mailing list, WhatsApp group, Slack etc?
Should a professional body be established?
- 16:00** **Drinks / informal networking**
- 19:00** **Dinner**



Day 2: Tuesday 3rd June
Radcliffe Conference Centre Space 1 (M1)

9:00 Session 5 - Challenge discussion

Table discussions on challenge theme (1hr)
Feedback to room (30mins)

10:30 Coffee

11:00 Session 6 - Impact and success stories and impact from facilities

The last decade of life science cryoEM has been highly successful and the next decade is extremely promising providing funding can be established to continue personal support and to purchase the next generation of instrumentation. Can we establish a shared library of impact stories which can be used to help everyone secure future funding. Ideas to discuss - shared website for all UK cryoEM facilities, example of high impact studies, other metrics and case studies e.g. industrial, white paper on details?

Table discussions on impact (1hr)
Feedback to room (30mins)

12:30 Lunch

14:00 Session 7 - Challenge discussion

Table discussions on challenge theme (1hr)
Feedback to room (30mins)

15:30 Review and takeaways

Whole room discussion

16:00 Depart

