

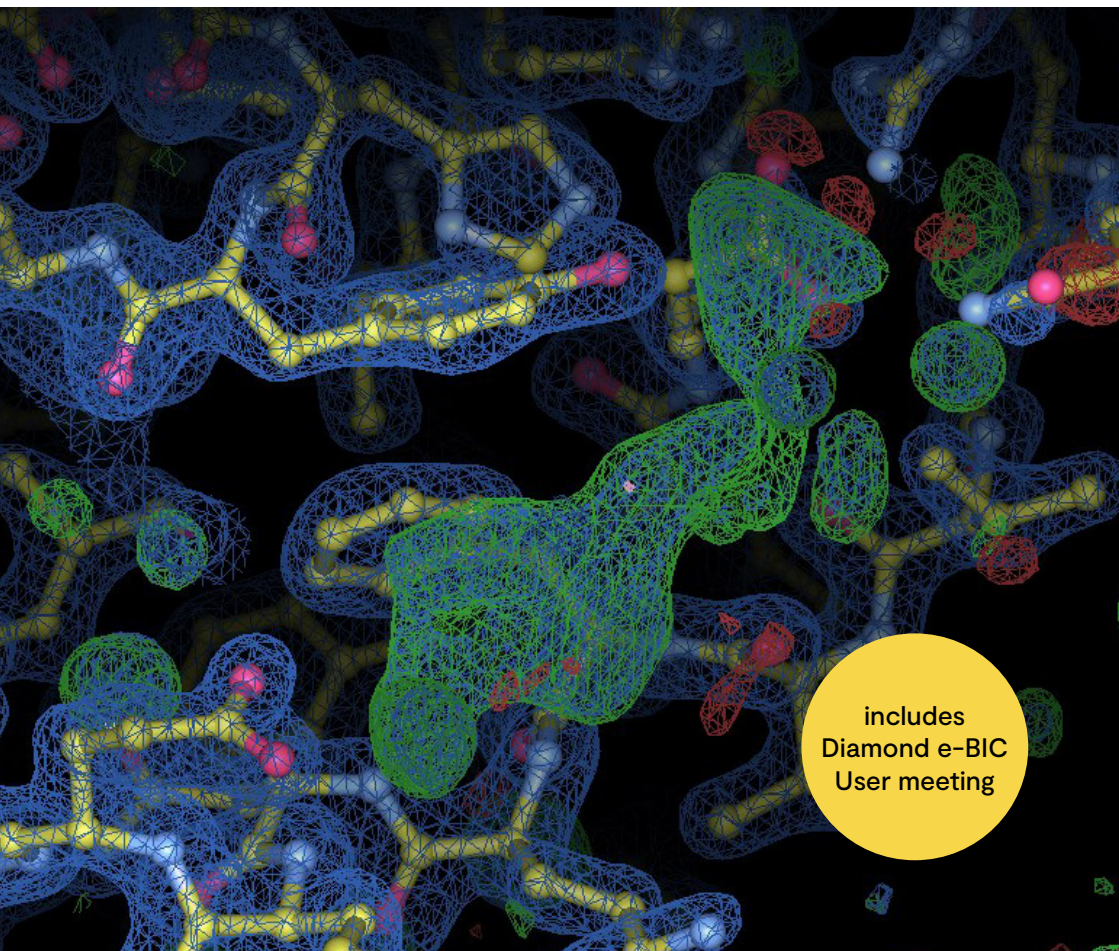


Information booklet for In-Person Delegates

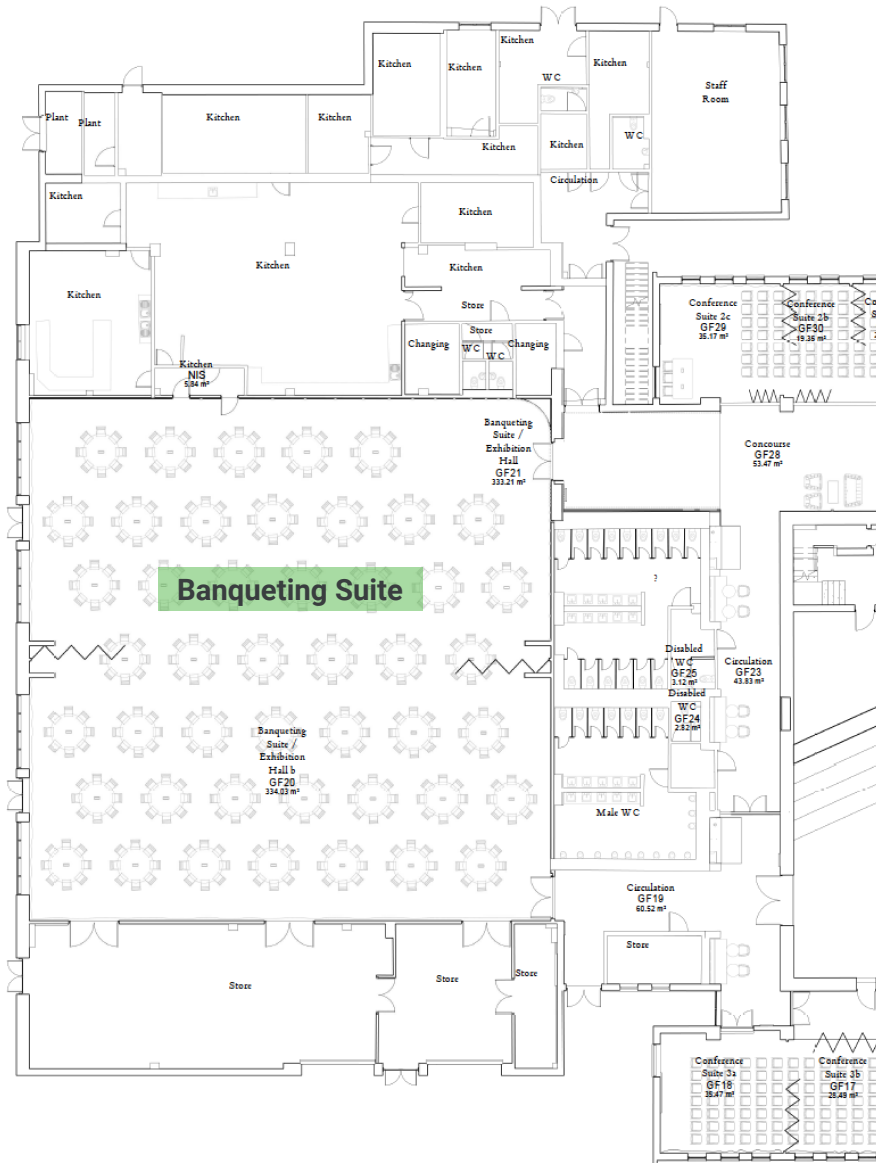
Spring Symposium 2022

3 - 5 May 2022

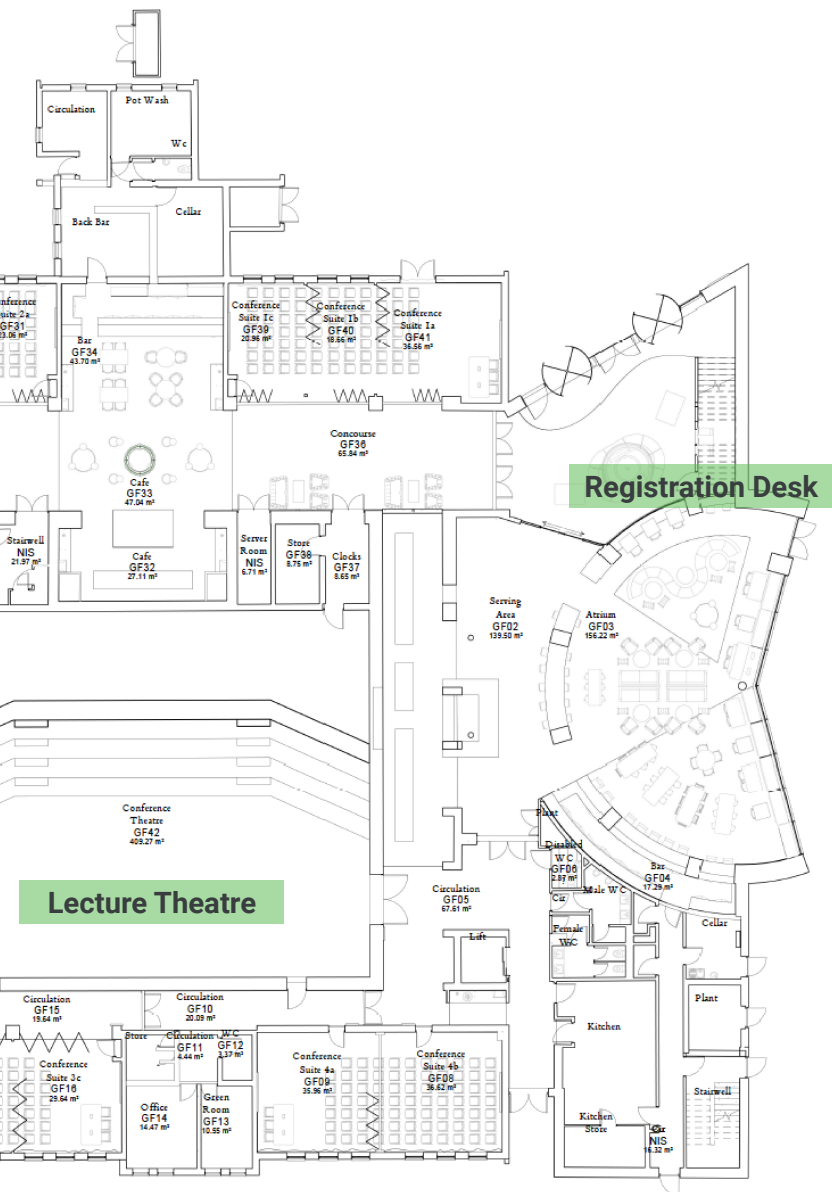
EMCC Nottingham and Virtual



includes
Diamond e-BIC
User meeting



1 Ground Floor Ffe Ga
1:150



Welcome to the 2022 CCP-EM Spring Symposium at the East Midlands Conference Centre (EMCC). Below is some useful information which should help you during Spring Symposium but please don't hesitate to contact any of our Conference Organisers should you require additional assistance or information.

Registration Desk

The members of the Team this year are:

- Anna Clark
- Karen McIntyre
- Georgia Lomas

All will be happy to help with any queries you may have. For all AV assistance Stuart Eyres will be on hand.

Accommodation / Keys

Orchard Hotel

Check-in is from 14:00 check-out by 11:00. Check-in is at the main Hotel reception which is manned 24 hours. Breakfast is served from 07:00.

Lunches and Refreshments

Lunches and refreshments for all days will be available in the Banqueting Suite of the EMCC.

Quiet Room

There will be a "Quiet Room" available for those delegates who need to remove themselves from the lecture theatre and still follow the lectures. The lectures will be streamed on a monitor to this room.



Tuesday 3rd May 2022

Diamond Biological Cryo-imaging User Meeting: eBIC & B24

This will take place in main lecture theatre in EMCC commencing at 13:00.

Networking Event

This year there will be a Networking Event held at 19:00 in the Banqueting Suite of EMCC. It will be an informal event and pizzas, burgers, and potato wedges and various puddings will be served on a subject to availability basis.

Wednesday 4th May 2022

CCP-EM Spring Symposium VIII

These talks will take place in main lecture theatre in EMCC commencing at 09:00.

Conference Dinner

The Conference Dinner commences at 19:00 in the Banqueting Suite in EMCC. A cash bar will be available for the purchase of drinks and quiet areas will be available for those who wish to chat and relax.

Thursday 5th May 2022

The conference will run from 09:00 and closes at 16:00.

A luggage store will be available in EMCC from 08:00 to store your luggage if checking out from your accommodation today. Luggage is left at your own risk. Please ensure that you allow plenty of time to check your luggage in as queues can be long. The Orchard hotel also have a luggage room which you may prefer to use.

Taxis will be available from outside the EMCC after the conference closes. Taxis do not need to be ordered and are freely available. Speakers, however, should book taxis through the Registration Desk.



Diamond Biological Cryo-imaging User Meeting: eBIC & B24

| Time | Title | Speaker |
|---------------|--|--|
| 13:00 - 13:10 | Welcome | Martin Walsh (Diamond Light Source) |
| 13:10 - 13:40 | eBIC user updates | Kyle Morris (eBIC, Diamond Light Source) |
| 13:40 - 14:10 | Structural insights into the nuclear import of mammalian proteasomes (eBIC user talk) | David Haselbach (IMP Vienna) |
| 14:10 - 14:40 | Mechanism of dynein-2 in intraflagellar transport (eBIC user talk) | Katerina Toropova (Birkbeck) |
| 14:40 - 15:30 | Tea & Coffee Break | |
| 15:30 - 16:00 | B24 user updates | Chidinma Okolo (B24 Diamond Light Source) |
| 16:00 - 16:30 | Integrative imaging of SARS-CoV-2 infection (B24 user talk) | Luiza Mendonca (University of Oxford) |
| 16:30 - 17:15 | User meeting round-table discussion During the user meeting eBIC representatives will discuss topics raised in the eBIC User Survey | Chairs: Natasha Lukoyanova (Birkbeck, University of London) & Jamie Blaza (University of York) |
| 17:15 | Close | |
| 19:00 | Networking Event & Social, Pizza & Beer | |



CCP-EM Spring Symposium VIII

| Time | Title | Speaker |
|---------------|---|---|
| 09:00 - 09:30 | Opening & Welcome What's New in CCP-EM? | Matt Iadanza (UKRI-STFC, CCP-EM) |
| 09:30 - 10:00 | What's New in eBIC? | Karen Davies (eBIC) |
| 10:00 - 10:30 | What's New in RFI? | Michael Grange (The Rosalind Franklin Institute) |
| 10:30 - 11:00 | What's New in EMDB/EMPIAR | Gerard Klewegt (EMBL-EBI) |
| 11:00 - 11:30 | Tea & Coffee Break | |
| 11:30 - 12:00 | RELION 4 and beyond - Structural heterogeneity and algorithmic robustness | Dari Kimanius (MRC-Laboratory of Molecular Biology) |
| 12:00 - 12:30 | Map post-processing with DeepEMhancer | Ruben Sanchez-Garcia (University of Oxford) |
| 12:30 - 12:50 | Zernikes3D: Analysis of conformational landscapes from CryoEM data | David Herreros (National Central for Biotechnology, CSIC) |
| 12:50 - 14:30 | Lunch | |
| 14:30 - 15:00 | The physical origins of specimen movement in electron cryomicroscopy | Katerina Naydenova (MRC-Laboratory of Molecular Biology) |
| 15:00 - 15:30 | Towards Microsecond Time-Resolved Cryo-Electron Microscopy | Ulrich Lorenz (EPFL) |
| 15:30 - 15:50 | Structural diversity of GABA(A) receptors | Andrija Sente (MRC-LMB) |
| 15:50 - 16:30 | Tea & Coffee Break | |
| 16:30 - 17:00 | New methods for preparing, imaging and processing cryo-EM samples | Tim Grant (University of Wisconsin -Madison) |
| 17:00 - 17:30 | Overview of recent developments for tools in Phenix for cryo-EM | Dorothee Liebschner (Lawrence Berkeley Laboratory) |
| 17:30 - 18:00 | Progress and Problems in cryo-EM Validation | Peter Rosenthal (The Francis Crick Institute) |
| 18:00 - 19:00 | Break | |
| 19:00 | Conference Dinner | |

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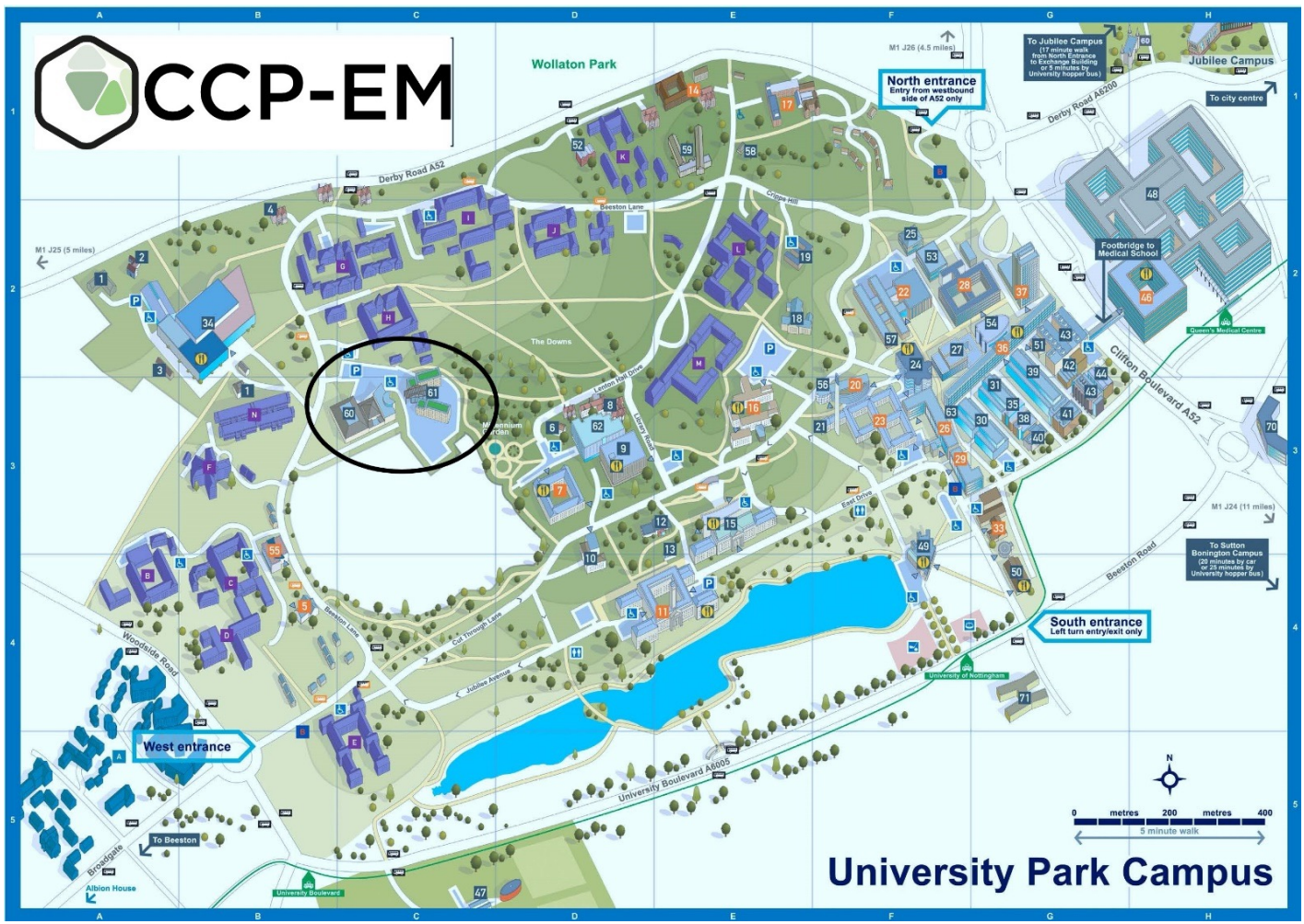
| Time | Title | Speaker |
|---------------|---|--|
| 09:00 - 09:30 | Cryo-electron tomography and subtomogram averaging for structural determination of membrane coat complexes | Giulia Zanetti (Birkbeck, University of London) |
| 09:30 - 10:00 | Cryo-electron tomography workflows to extract quantitative and geometrical information from variable protein assemblies | Florian Schur (Institute of Science and Technology, Austria) |
| 10:00 - 10:20 | Capturing Inhibited Assemblies of the Membrane Attack Complex by CryoEM | Emma Couves (Imperial College, London) |
| 10:20 - 11:10 | Tea & Coffee Break | |
| 11:10 - 11:40 | Automated data acquisition for high-resolution tomography and subtomogram averaging | Wim Hagen (The European Molecular Biology Laboratory) |
| 11:40 - 12:10 | Single particle cryoEM pipelines (reasons to be optimistic) | Rebecca Thompson (University of Leeds) |
| 12:10 - 12:30 | Using cryo-EM of SARM1 to help design new therapeutics against neurodegenerative disease | Katie Cunnea (Evotec) |
| 12:30 - 14:00 | Lunch | |
| 14:00 - 14:30 | How to deal with large and dynamic macromolecular complexes | Holger Stark (Max Planck Institute Biophysical Chemistry) |
| 14:30 - 15:00 | Discovery of a druggable pocket and a drug in SARS-CoV-2 spike glycoprotein | Christiane Berger-Schaffitzel (University of Bristol) |
| 15:00 - 15:30 | Cryo-EM structures of the deltaretroviral intasome in complex with the host factor Protein Phosphatase 2A subunit B56γ and HIV integrase inhibitors | Goedele Maertens (Imperial College, London) |
| 15:30 - 16:00 | A conserved mechanism for regulating replisome disassembly revealed by cryo-EM | Tom Deegan (MRC - Human Genetics Unit) |
| 16:00 | Meeting closed | |

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