

Professional Biography

Dr Clare Newell would bring to the International Committee the perspective of the researchers who will play an increasing role in shaping the SIMS field, together with that of the growing number of life scientists adopting the technique.

Clare is a Principal Laboratory Research Scientist at the Francis Crick Institute, London, and a Visiting Researcher at the National Physical Laboratory (NPL). She has worked with SIMS for ten years, starting in 2016,when the prototype OrbiSIMS was installed at NPL, and led the development of cryogenic OrbiSIMS for imaging lipids and semi-volatile molecules in biological tissues. Her publications also include new OrbiSIMS approaches for multivariate data analysis and for distinguishing isomeric molecules.

Clare's career has developed within the SIMS community. She first attended the conference series as a PhD student supported by travel grants, received the SIMS22 Young Scientist Award and the UKSAF Young Surface Analyst of the Year (Seah) Award, and has since presented regularly and chaired sessions. This experience has given her a clear understanding of the value of early-career support.

Her work sits at the interface of biology and SIMS. As the Crick's leading expert in mass spectrometry imaging, she trains biologists in the technique and has established collaborations that have introduced SIMS to new research groups. She has supervised PhD and MRes students and serves on the committee of the London Metabolomics Network.

As a European representative, Clare would ensure that early-career researchers are represented in the committee's decisions and would support their continued participation as their careers develop. She would also work to broaden participation across disciplines and backgrounds, and to strengthen links between the SIMS and metabolomics communities.