**2017 MSI Travel Bursary report on attendance of QEM2017, Balaruc-Les-Bains, France 22nd May – 2nd June 2017**

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QEM –Quantitative Electron Microscopy- is an international workshop event held once every 4 years, which lasts 2 weeks. The event is dedicated to advanced transmission electron microscopy techniques and the acquiring of quantitative measurements. QEM is organised by the CNRS, the French National Centre for Scientific Research. Through the CNRS, microscopists and scientists all over France work towards organising QEM.

Lectures took part in the morning until the early afternoon, while practical sessions were completed from afternoon to evening. Lecture topics began by going over basics (wave optics, defect contrast etc), before progressing to the more challenging material (high-resolution quantification, in-situ experimentation). Practical took place either on computer programmes and studying data analysis or on one of the two microscopes which were especially moved to the south of France for the period of the school. Both an FEI Talos system and a Jeol F200 were on site, and with booking, could be used outside of the teaching slots. The practicals that took part on the microscopes included in-situ demos using holders from DENSsolutions and Protochips.

I would highly recommend that anyone who has the opportunity to attend QEM2021 jump at the chance. The intense revision and detail of the lectures and practical sessions would be useful to anyone in microscopy, whether they are a student, technician or postdoc researcher. Anyone who wishes to learn about new TEM techniques such as holography or diffraction tomography, or figure out the best way of getting quantitative results from different sample types, would benefit from this school.

Link to the school: <https://qem2017.sciencesconf.org/>



Group Photo of Attendees and Speakers of QEM2017



Ludvig de Knoop operating an in-situ probe holder using a Playstation controller