

Dr Louise Male

X-ray Diffraction Facility Officer

[School of Chemistry \(/schools/chemistry/index.aspx\)](/schools/chemistry/index.aspx)

Contact details

Telephone **+44 (0) 121 414 7481** (tel:+44 121 414 7481)

Email l.male@bham.ac.uk (mailto:l.male@bham.ac.uk)

School of Chemistry
University of Birmingham
Edgbaston
Birmingham
B15 2TT
UK



About

Dr Louise Male's main role in the School is to run the single crystal X-ray diffraction service. Single crystal X-ray crystallography is a powerful technique that is used to determine the structure of crystalline solids at the atomic level. It is widely used for compound identification, but the results are also essential in research based on the analysis of solid-state structure.

Dr Male also assists in the upkeep and maintenance of the School's powder X-ray diffraction diffractometers and acts as the point of contact for both the single crystal and powder crystallography activities in the School.

Qualifications

- PhD in Chemical Crystallography 2004
- MSc in Spectroscopic and Physical Methods of Chemical Analysis 2000
- MSci / BA (Hons) in Natural Sciences 1999

Biography

Dr Male qualified with a MSci / BA (Hons) in Natural Sciences from University of Cambridge in 1999. She went on to study for an MSc in Spectroscopic and Physical Methods of Chemical Analysis at the University of East Anglia and then a PhD in Chemical Crystallography with Professor Paul Raithby at the University of Bath.

From 2004 to 2006 she worked as a postdoctoral researcher for Professor Alberto Albinati at the University of Milan as part of the European Research Training Network HYDROCHEM. Then from 2006 until 2008 she worked as a postdoctoral research assistant for the UK National Crystallography Service at the University of Southampton. She has held her current position since August 2008.

Teaching

Teaching Programmes

- X-ray Diffraction course in the Chemistry of the Elements: p-Block module for year 2.

Publications

- Mirri, G.; Bull, S.D.; Horton, P.N.; James, T.D.; Male, L.; Tucker, J.H.R. (2010), Electrochemical Method for the Determination of Enantiomeric Excess of Binol Using Redox-Active Boronic Acids as Chiral Sensors, **JACS**, 132: 8903-8905.
- Chen, W.; Elfeky, S.A.; Nonne, Y.; Male, L.; Ahmed, K.; Amiable, C.; Axe, P.; Yamada, S.; James, T.D.; Bull, S.D.; Fossey, J.S. (2011), A Pyridinium Cation- π Interaction Sensor for the Fluorescent Detection of Alkyl Halides, **Chem. Commun.**, 30: 253-255
- Casey, T.C.; Carlisle, J.; Tisselli, P.; Male, L.; Spencer, N.; Grainger, R.S. (2010), Stereoselective α,α' -Annulation Reactions of 1,3-Dioxan-5-ones, **J. Org. Chem.**, 75: 7461-7464.