

## MS47. History of crystallography and ECA

Chairs: Sine Larsen, Howard Flack

### MS47-P1 Finding your place in the world – using the CSD to benchmark your research

Amy A. Sarjeant<sup>1</sup>, Seth Wiggin<sup>1</sup>, Suzanna C. Ward<sup>1</sup>, Peter A. Wood<sup>1</sup>, Colin R. Groom<sup>1</sup>

1. Cambridge Crystallographic Data Centre, Cambridge, United Kingdom

email: sarjeant@ccdc.cam.ac.uk

All researchers hope to leave a mark on the world with their work. Everyone wants his or her latest opus to be ground breaking, record setting or expectation shattering. If one is lucky enough to hit upon such a success, what happens when it is published into the common consciousness? Does it rise meteorically to the headlines and covers of every journal only to burn out a few years later, or does it become a staple of research projects for years to come? The vast archive that is the Cambridge Structural Database can help us track molecular and structural phenomena, giving us a sense of perspective on when our research darlings were born, and how the work surrounding them has evolved over time. In addition, we can map our current favorites against older trends to judge where we are in the research cycle. Here we take a look through the CSD, charting the course of “famous” molecules such as fullerenes and metallocenes from initial structure determinations to the latest reports. We then compare these trends against current hot topics such as the ubiquitous Metal—Organic Frameworks. Do the trends suggest we are at the zenith of this research, or do they point to many fruitful years in the future?

**Keywords:** databases, crystallography, publications

### MS47-P2 Kathleen Lonsdale & Helen Megaw

Mike Glazer<sup>1</sup>

1. Clarendon Laboratory, Parks Road, University of Oxford, OX1 3PU, UK

email: glazer@physics.ox.ac.uk

In this talk I shall give a brief description of the work and personalities of two famous female crystallographers, Professor Dame Kathleen Lonsdale and Dr. Helen Megaw, both of whom have influenced my own career.

Kathleen Lonsdale was trained as a physicist originally but became a Professor in the Department of Chemistry at University College London. Her last two research students were myself and Howard Flack. Helen Megaw worked in the Cavendish Laboratory, Cambridge, where I was her last postdoctoral assistant.



Figure 1. Kathleen Lonsdale and Helen Megaw

**Keywords:** Lonsdale, Megaw