

The Crystallography Open Database in its 11th Year

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The Crystallography Open Database (COD) [1-3] was founded on March 5, 2003, by Armel Le Bail, Lachlan Cranswick, Michael Berndt, Luca Lutterotti, and Bob Downs. It combined ideas pertinent to the arXiv project (that started in 1991 with NSF funding) and the American Mineralogist Crystal Structure Database [4] (that was founded in 2001 and also funded by the NSF). The COD started with some 4,000 entries and has since grown to more than 215,000 entries, available at four mirrors worldwide [3]. It features now an automated deposition system at the Vilnius University⁴ (Institute of Biotechnology) where researchers can deposit their work [5], either published or prior to publication. At Portland State University¹, we started in 2004 to display the entries of the COD interactively in 3D in a Jmol applet [6]. Complementing their commercial counterparts, this talk will review open-access crystallographic databases.

[1] <http://www.crystallography.net>; [2]

<http://nar.oxfordjournals.org/content/40/D1/D420.full.pdf+html>;

[3] <http://journals.iucr.org/j/issues/2009/04/00/kk5039/kk5039.pdf>;

[4] <http://rruff.geo.arizona.edu/AMS/amcsd.php>; [5]

http://www.crystallography.net/initiate_deposition.php; [6]

<http://nanocrystallography.research.pdx.edu>