

Minutes of the ICDD Non-Ambient Diffraction Subcommittee Meeting 12 March 2008

Meeting was called to order by Andrew Payzant. Scott Speakman agreed to record the minutes.

The minutes of last meeting (March 2007) were not available, but a summary was given by A. Payzant, and confirmed by those who had been present. ICDD Board of Directors' Liaison (S. Misture) reported that there was nothing to report to the subcommittee.

The chair reviewed the subcommittee membership, mission statement, and noted the increase in non-ambient entries in the PDF. Upcoming activities include a non-ambient session at the ACA 2008 Meeting, a non-ambient workshop at DXC 2008, and a high-temperature XRD session at DXC 2008.

A suggestion to pursue a special issue of Powder Diffraction dedicated to non-ambient XRD met a positive response from all in attendance. The possibility of a "feature paper" coming out of the workshop at DXC 2008 was also discussed, and will be further developed by Scott Misture.

The importance of capturing thermal expansion data (where available) in the comment field of the PDF was discussed. No motion was deemed necessary, as the ICDD staff are already trying to do this.

Some discussion of how best to incorporate new useful non-ambient data into the PDF followed. The need for high-temperature patterns to facilitate search-match was clear, but there was concern about overloading the File with closely similar patterns. Further, the difficulties in verifying accuracy in temperature for HTXRD data was agreed to pose some issue, and it was agreed that ICDD should promote and promulgate use of methods for temperature calibration.

Motion 1:

The Non-Ambient Subcommittee recommends to the Technical Committee that we encourage use of ICDD Grant-in-Aid to support applications for development of non-ambient data from important materials in increments appropriate for the non-ambient behavior of the materials.

A. Payzant moved.

Second by M. Rodriguez.

Passed 8-0-0

A second recommendation to request funds to support a Task Group meeting at DXC 2008 was, on the recommendation of Tim Fawcett, not framed as a motion, but would be communicated to the Technical Committee Chair (by A. Payzant). This Task Group will identify and recommend to the ICDD, methods for capturing, reporting, and publishing non-ambient data, and will identify and promote techniques and calibrations for non-ambient data collection.

Motion to adjourn followed.