

Non-ambient Subcommittee Meeting Minutes
16 March 2016

Chair: Andrew Payzant
Minutes Secretary: Scott Misture

Mission Statement reviewed

Approval of 2015 minutes (Pam Whitfield/Bryan Wheaton; unanimous)

Liaison Report: Vanessa Peterson detailed the response of the board to the motions passed last year related to the extraction of CTE from database.

Tim Fawcett gave an overview of the tutorials describing new non-ambient data mining capabilities in the latest PDF-4 database and Sleve. There was considerable discussion throughout the presentation, mainly centered around accuracy in temperature, and implementing new macros to meet the needs of the non-ambient diffraction community.

Discussion following Fawcett's presentation:

- Clear need to develop and document "best practices"?
- What is a non-ambient "star" pattern?
- How best to distinguish "quenched" and/or "metastable" data from non-ambient in-situ data?
- Need to check that data agree with published phase diagrams!
- How to evaluate accuracy of temperature or pressure?
- Detail regarding the hardware used in the non-ambient data acquisition should be documented where available.
- Editorial warning ought to be used when in doubt about quality

New Business:

- Recommended future DXC workshop/session on calibration/certification/best practices – maybe DXC 2017?
- Recommended improved communications between subcommittee and ICDD on development of non-ambient analyses and other new features
- Semiannual non-ambient subcommittee telecom proposed to expand communication between members - Payzant to coordinate first of these with ICDD (ICDD contact yet to be identified) to be held in September 2016.
- Recommend that ICDD target non-ambient grants-in-aid to acquire strategic HTXRD data.

No new motions referred to Technical Committee for consideration this year.

Motion to adjourn.