

Minutes of the X-Ray Diffraction Methods Subcommittee Meeting

17 March 2010

10:00 am

Chairperson: Jim Cline

Secretary: Scott Speakman

- 1) Call to order
- 2) Motion to accept the minutes: passed
- 3) No input from board because there were no motions from last year's meeting.
- 4) Old business: recap that two task groups were dissolved at last year's meeting
- 5) New business
  - a) No proposals from attendees
  - b) Presentation by Jim Cline: Certification of NIST SRM 660b
    - i) Several points of discussion were prompted by this presentation. Questions and discussion on points of interest to members attending the meeting were:
      - (1) NIST development of a standard for crystallite size
        - (a) This topic was later revisited in the "Other Matters" section of the meeting, where Matteo Leoni led a discussion about interest in the community that NIST develop such as standard.
        - (b) This topic seemed to solicit a large amount of interest from attendees and a general agreement that this standard is desired by the community.
      - (2) Discussion about roughness affecting profile breadth and/or position, particularly as the problem applies to LaB6 which has a large absorption coefficient.
      - (3) Discussion and request about the ability of NIST to provide pre-prepared SRM's (compacts) to reduce error in calibration due to user sample preparation
        - (a) This is a product that has been explored by NIST
      - (4) Discussion about optimal particle size and particle size control for SRM's
      - (5) Discussion about the fact that enriched B will not contribute to price increase in LaB6 SRM
      - (6) Discussion and comments on the impression (correct or not) that work on certifying new SRM's does not begin until current stock runs out
        - (a) Response by Jim Cline: Steps have been/are being taken in to produce a larger inventory of certified SRM's, to increase manpower for developing and certifying SRM's, and stockpiles for future SRM's (640e and f, etc) are being made.
        - (b) Comment by John Faber that the ICDD has written letters of support to address this issue
- 6) Motion to Adjourn.