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.