

Micro and Meso Subcommittee Minutes
Wednesday, 17 March 2010
International Centre Headquarters
Conference Room D
1:00 p.m. – 2:00 p.m.
S. Speakman, Chairman

1. Call to Order
Meeting was called to order by Scott Speakman.

2. Appointment of Minutes Secretary
Michael Carr

3. Approval of Minutes of the 2009 March Meetings

Motion #1

Scott Speakman moved to accept minutes from the 2009 Micro and Meso Subcommittee Meeting.

No Second.

18 in attendance approved.

4. Board of Directors' Liaison Report P. Scardi
No Information to report.

5. Report from Zeolite Task Group S. Quick
Sue Quick reported that the Zeolite Task Group has reviewed all ICSD and LPF entries requested by ICDD staff from March and June 2009. This review included assigning zeolite structure type codes (3 letters), assigning zeolite names, and making confirmations that materials marked as zeolite and molecular sieve are actually those types of materials. Recently designated IZA structure type codes were identified as well to update the ICDD list. In March 2010, a list of approximately 400 ICSD entries was given to the Zeolite Task Group by ICDD staff that did not have a structure type code or zeolite name assigned. Approximately half of these entries have been reviewed. The review produced the addition of structure type codes, zeolite name modifications, alternate designations with primary reference, and removal of zeolite flags from entries where it was not applicable. Sue Quick asks attendees if anyone is interested in joining the task group.

Motion #2

Zeolite Task Group requests up to \$5,000 to allow the 5 members to meet at least twice in 2010/2011. During the meeting the group plans to evaluate new patterns, continue primary vs. alternate review, review unnamed zeolites, ID non-flagged zeolites in currently published databases, and evaluate automated procedures to assign zeolite structure type code (including IZA for their program to assign stc's from reported atomic positions).

SCOTT SPEAKMAN moved.

MIKE BENNETT seconded.

5 In Favor

0 Oppose

13 Abstain (3 by name including MIKE BENNETT, SUE QUICK, JAMES KADUK)

Motion #3

Remove experimental mixtures from the database on task group recommendation rather than just marking them as deleted.

MIKE BENNETT moved.

GEORGE HAVRILLA seconded.

6 In Favor

0 Oppose

12 Abstain

6. Proposed keywords S. Speakman
What does the group wish to consider when it comes to MMM Supergroup? Open Channels vs. Closed Cages, Micro/Meso porous vs. Micro/Meso structural.

- a. Discuss keywords to add to PDF
 - a. Definitions
For MMM Supergroup, Clathrates, Pillared Clays, MOF's.
 - b. Criteria for ICDD to add keyword to a reference

Scott Speakman proposed population of the MMM Supergroup. It was proposed that this supergroup include Clathrates, Zeolites, and Metal Organic Framework materials as underneath groups. Discussion ensued about whether to use both micro/meso porous and micro/meso structural materials or focus on one of these at a time. Cyrus Crowder stated that micro/meso porous materials are different from micro/meso structural materials. This comment precipitated a conversation and the group decided to focus on micro/meso porous materials for now, than worry about micro/meso structural materials at a later time. Jim Kaduk said the main focus will be porous materials that give useful diffraction patterns. Bob Snyder said there will come a time when specific surface information will need to be taken into account and the ASHBY database can be used as a source for this information.

Motion #4

MMM supergroup will include materials with pore sizes in the .25 to .50 nanometer range, most will be ordered, but order is not required. The most important thing is that the material has holes and produces a useful diffraction pattern.

No votes were taken...

Chairman Scott Speakman proclaimed this motion would be voted on in the Technical Committee meeting.

7. New Business
No new business was discussed.
8. Adjournment
Meeting adjourned by Scott Speakman.