

Micro and Meso Subcommittee Meeting Minutes
Wednesday, 15 March 2017
ICDD Headquarters
Conference Room D
11:00 a.m. – 12:00 noon
S. Speakman, Chairman

1. Call to Order – *Susan Quick*
2. Appointment of Minutes Secretary – *Melissa Mitchell*
3. Approval of Minutes of the 2016 March Meetings

1ST – Fred Wireko

2ND – Tim Fawcett

VOTE – APPROVE (8), AGAINST (0), ABSTAIN (0)

4. Review of Mission Statement

The Micro and Meso Subcommittee will identify systems in which ordered **FEATURES** on the nano, meso, or microscale are important in the diffraction and the performance of the material; and will identify how the ICDD and PDF can serve the scientific community by providing reference and resource material, by creating or adapting a formalized description of these materials, and contributing to techniques by which these materials can be characterized.

MOTION to change mission slightly – REMOVE “Features” and REPLACE with “Pores, Channels, and/or Cages.”

1ST – Cyrus Crowder

2ND – Winnie Wong

VOTE – APPROVE (9), AGAINST (0), ABSTAIN (0)

5. Board of Directors’ Liaison Report – *Nothing to report. Jim Kaduk was present, and Matteo Leoni later joined, but no comments made by either on this topic.*

6. Automated Framework Topography - *NEITHER PRESENT* T. Blanton/S. Kabekkodu
Tim Fawcett commented that there was someone working on a system for this, and looking for standards in this area. It was recommended that ICDD staff interact with someone at ICSD.

7. Report from Zeolite Task Group – *Susan Quick*

The TG met in October 2016, and again Friday-Monday (03/10-3/17) – Continue to Review Patterns in the database, and to do research on, and identify the 3-letter codes for the Zeolite Guide.

IZA – Code Always Letters

ZZ1 – Structure, but no code yet

ZZ4 – Structure, but IZA had not given it as Code yet

ZZ9 – Almost no information on pattern

Over the weekend, over 250 New Zeolites were identified in the database. Also, some cluster analysis. Cyrus Crowder did some extensive work on Polymorph Zeolite data.

New member attended, LORI HATHERLY. New members to join the Task Group is always open.

8. Proposed keywords - *Susan Quick*

Discuss keywords to add to PDF

a. Definitions

Keywords for “MOF” (Metal Organic Framework) not defined; IUPAC’s definition of a MOF is not clear. Headquarters (Stacy Gates-Rector) has been in contact with Lars Ohrstrom (Sweden), and Nick Vukotic (ICDD Student Affiliate) volunteered to help.

ICDD Standard for identifying MOFs? To try to bring it forward as a standard. Stacy Gates-Rector is trying to get a MOF Task Group put together. Tim Fawcett suggests Stacy send an email to Natalie Auderbrand (former GIA recipient) in France, for possible assistance.

“UNNAMED MOF” – MICRO/MESO SUBCLASS

MOTION – *Allow the publication of MOF patterns although the phases do not have an official name at the time. Proposing the entries could have the name “UNNAMED MOFS” at this time.*

1ST – Jim Kaduk

2ND – Cyrus Crowder

VOTE – APPROVE (9), AGAINST (0), ABSTAIN (0)

b. Criteria for ICDD to add keyword to a reference

9. New Business

Mesoporous Task Group – *No report at this time.*

New Business:

- *Search database for members that could help form a subcommittee*
- *Plenary Speaker on Micro/Meso next year?*
- *Matteo Leoni has had a conversation with two people about the definition of a MOF.*

10. Adjournment – *Susan Quick*