

**AGENDA**

**Metals and Alloys Subcommittee**

Tuesday, 15 March 2022  
1:00 p.m. Eastern Daylight Time  
Peter Wallace, Chairman

- I. Call to Order P. Wallace
- II. Appointment of Minutes Secretary Michael Carr
- III. Approval of Minutes of [March 2021](#)
- IV. Review of Mission Statement

The Metals and Alloys Subcommittee shall be responsible for (1) assuring that the metals and alloys subfile meets present and future needs of metallurgists and materials scientists, (2) developing and updating the metals and alloys subfile, (3) editing metals and alloys data and products to ensure a high standard of quality, (4) extending the coverage and usefulness of the metals and alloys subfile, and (5) maintaining a web page to communicate with members and other materials scientists.

- V. Board of Directors' Liaison Report

2021 Motion:

The Metals & Alloys Subcommittee (Pete Wallace & Jeff Dann) recommends to the Board of Directors that the *M&A Z and M&A Empirical Chemical Formula be relabeled as the Standard Z and Standard Empirical/Chemical Formula*. The following notes are considered an integral part of this motion:

1. In most cases, both the M&A Z's and M&A empirical/chemical formulae are based on critically-reviewed prototype structures, and we have adopted the Z and chemical/empirical formulae of the prototype structure.
2. In a very few cases, the Z and empirical/chemical formulae are based on atomic volumes, the authors' cell, and the authors' assigned crystal system.

BoD Response:

The BoD asked that the Metals & Alloys Subcommittee discuss further their recommendation that *M&A Z and M&A Empirical Chemical Formula be relabeled as the Standard Z and Standard Empirical/Chemical Formula* with the Editor-in-Chief; a better understanding of what is needed, beyond what already exists in the database, is needed.

ICDD Staff Response:

EiC had discussions with M&A subcommittee with screenshots. Following is the reply from M&A subcommittee chair, Peter L Wallace, dated June 23, 2021, regarding M&A motion status:

*Hi Suri,*

*Based on the screenshot, everything is good. What had concerned us was that in the printouts we are editing, the columns read Std Z MA, Standard EmpForm MA etc., and we felt that the database should just say Std Z, Standard EmpForm, etc. Thus the screenshot was extremely helpful, and we thank you.*

- VI. Thoughts on the PDF Phase Diagram Capability**
- VII. M&A Prototype Structure Profiles – Application to PSCI-VII**  
The M&A prototype profiles will be used in the upcoming PSCI-VII review. Currently, there are about 9,000 prototype structure and synonyms listed in our prototype structure database
- VIII. Prototype structures and M&A Working Group Activities**
- IX. M&A Editor’s report**
- X. Old Business**
- XI. New Business**
- XII. Adjournment**