

Electron Diffraction Subcommittee Minutes
Thursday, 18 March 2010
J. Faber, pro-tem, J. Michael, Chairman

1. Call to Order J. Faber

2. Appointment of Minutes Secretary H. McDonnell

1998 transparencies were supplied for the meeting. A very old Mission Statement was read. H. McDonnell noted that the Mission Statement was reviewed in 2009 and should be compared to the one read at the Meeting. Below is the Mission Statement from 2009.

3. Approval of Minutes from March 2009

4. Review of Mission Statement

The Electron Diffraction Subcommittee serves as a bridge between the electron diffraction community and the other parts of ICDD. It will communicate the needs of electron diffractionists to ICDD, so that ICDD may more effectively respond to those needs. It will assist in communicating to the electron-diffraction community the way in which ICDD will serve them. To these ends, it will cooperate with other ICDD subcommittees and with the central organization of ICDD. Specifically, the subcommittee shall monitor the status of and suggest improvements to the databases and related products used in electron diffraction (those produced by other organizations, as well as those produced by ICDD).

D. Crane discussed new features for 2010.

- Proper extinctions
- Improved display
- Increased performance and preferences
- Spot pattern overlay (import image)

Features being worked on for 2011:

- Identify zone axis from displayed lines
- Adding an electron mode to SIEve+

Discussions:

D. Janney: Spends a great deal of time identifying the zone-axis.

M. Rodriguez: Can we automate zone axis identification?

J. Reid: Yes, there are routines to do this. We will evaluate implementation feasibility. This was mentioned in our recently submitted article for Microscopy Today.

J. Faber: P. Lu slated for Subcommittee Chair.

D. Janney: SEM vs. TEM; SEM is bigger market

R. Goehner: Is it worthwhile to look at the old database?

H. McDonnell: Determine approximate sales. Electron diffraction is a small percentage of overall sales. We experienced an impressive spike in FY 2005-2006, followed by steady sales, then a drop-off. The sales to this market are supported by three distributors. Currently, there is only one active distributor in this market.

Discussions with Nanomegas need to take place again in regards to their precession software.

E. Webb with Sandia was recommended as a new contact for the subcommittee.

Consensus is that we need more participation and more momentum in order to get the subcommittee working.

5. Adjournment