

Draft Minutes

ASC OP/TF 5- Committee for Optics and Electro-Optical Instruments - Aspheric Optics

April 09, 2013, 11:00-12:00 EDT (-4:00 GMT)

Held by teleconference

1. Welcome and Introductions

R. Youngworth opened the meeting at 11:05 EDT with introductions. On the phone were Dave Aikens, Nick Smith, Chris Evans, Hal Johnson, and Kate Medicus. Chris Svec joined at 11:23. Donna Howland joined at 11:24.

2. Adoption of Agenda

D. Aikens moved we adopt the agenda, and C. Evans seconded the motion, which carried unanimously. Meeting documents were available online.

3. Review of Minutes and Review of Action Item Status

D. Aikens moved we accept the minutes from the previous meeting. C. Evans seconded, and the motion carried.

R. Youngworth observed that our workload is streamlining to a couple of ISO related activities and the Metrology standard. We will continue as a TF, but could consider taking on new projects.

Action Item: R. Youngworth to solicit more help to work on the Metrology standard.

4. Reballot of OP1.0110-12

R. Youngworth reviewed the ballot comments on -12.

Changes:

- ANSI note on use of $A2 r^2$ term
- Order of Qbfs and Qcon changed for priority
- Asphere equations for Forbes added conic base version and slightly modified for consistency. Note above Forbes asphere table includes additional useful information.
- R. Youngworth also said he removed the definition of Rbfs, since it is not required for the mathematics. C. Evans recommended that, if we weren't going to make it clear which Rbfs was correct, we should add a default.

A few items are tabled:

- guidance paper on advantages and disadvantages of different aspheric surface types (could be a paper or informative annex),
- improved surface diagrams (especially for freeforms that should be mentioned at the international level for -19 on the next ballot) even cartoon-like versions (Aikens noted that the Japanese delegation is very helpful with diagrams),
- discussion of how to tolerance implicit surface equations for a/b/c – tabled until the international meeting where it can be mentioned to Sven and the German delegation on a need to provide some input to facilitate practical ease of use (see section 3.3.1.2)

Action Item: R. Youngworth will modify the draft to add back in the definition of Rbfs as the default, and a note recommending the user define the Rbfs explicitly if they want something else. It is due April 12 so OEOSC can reballot.

Action Item: R. Youngworth will informally bring up the tabled items at the international level with appropriate parties.

5. Aspheric Metrology Draft Update

K. Medicus has submitted a draft of the new standard, OP1.006 for aspheric metrology. She walked us through her outline. She has started with instruments, and expanded the outline to include other topics that are related to aspheric metrology. C. Evans expressed his concern that whatever we do should be in sync with the work going on at TC213, especially for filtering. D. Aikens suggests we use this standard to reference the appropriate filtering techniques. Key to our application is the things that need to happen after the data has been taken.

Action Item: R. Youngworth will contact W. Ulrich regarding participating in the Aspheric Metrology standard. A comment offering a courtesy notification to the ISO WG2 convenor A. Kikuchi will also be included.

Action Item: D. Aikens to send relevant standards from TF3 and perhaps ISO TC172 to Kate Medicus.

Action Item: Committee to review current draft and identify any big gaps that need to be addressed.

6. Additional Items

R. Youngworth updated the group on -19 comments, and -12 ISO vote. There was nothing additional on -5 and -6 from international community.

R. Youngworth also announced that Optical Engineering will be running a special issue on freeform optics. Submissions are due at the start of July. [http://spie.org/x1809.xml#Freeform Optics](http://spie.org/x1809.xml#Freeform_Optics)

7. Time and place for next meeting of TF5

D. Aikens moved that R. Youngworth propose a date for the next meeting, possibly as a teleconference, and notify the committee. C. Evans seconded, and the motion carried.

Update: R. Youngworth recommended the next meeting by telecom at 11:00 EDT on Wednesday, October 30th, 2013.

8. Adjourn

D. Aikens moved we adjourn, K. Medicus seconded, and the motion carried. The meeting adjourned at 12:07 EDT.