

Draft Minutes

ASC OP/TF 4 –Committee for Optics and Electro-Optical Instruments – OP1.0110
(Held in conjunction with OSA Optical Fabrication and Testing)

June 25, 08:30- 11:00 PDT

Monterey Plaza Hotel 400 Cannery Row, Monterey CA 93940
Big Sur Room 1

Welcome and introductions D. Aikens brought the meeting to order at 08:35 PDT, with G. Boulton, S. Martinek, M. Dowell, R. Williamson (phone), R. Youngworth (phone) and D. Howland (phone) in attendance.

Approval of Agenda S. Martinek moved we accept the agenda as published, and G. Boulton seconded. The motion carried.

Approval of Minutes from January Meeting G. Boulton moved we accept the minutes from the previous meeting, S. Martinek seconded and the motion carried.

Review Status of Standards Required D. Aikens presented an overview of the current status of all the standards being developed right now. R. Youngworth observed that we are not tracking ISO 10110-19, and we should add it to our list.

Action Dave: Add part 19 to our list of required standards for OP1.0110.

Review of Individual Parts

1. OP1.0110-9 – D. Aikens presented the comments received in balloting, and reviewed the changes to part 9 that resulted from those comments. M. Dowell moved that we accept the new version as a minor editorial revision, and recirculate it at the OP level. R. Williams seconded, and the motion passed.

Action: D. Aikens to reballot the revised part 9 at the OP level

2. OP1.0110-11 – D. Aikens presented the comments received in balloting, and reviewed the changes to part 11 that resulted from those comments. G. Boulton observed that there was a typo in the table under Thickness, over 100 mm default; it should be +/- 0.8 mm. He also suggested that we could replace all of the +/- tolerances with the \pm symbol. G. Boulton moved that we accept the new version with the additional corrections indicated as a minor editorial revision, and recirculate it at the OP level. S. Martinek seconded, and the motion passed.

Action: D. Aikens to have D. Takaki revise the standard and rebalot the revised part 11 at the OP level

3. OP1.0110-12 - D. Aikens presented the comments received in balloting. The committee reviewed the standard as it is currently, written, and looked at the six comments received.

The first comment was to correct the name of Northrop Grumman in the Foreword. The second comment was to correct the typo in equation 11, replacing De with D3. Both of these were accepted.

The third comment was that the standard only covers toroids and rotationally symmetric aspheres. Since ISO 10110-19 will cover freeform aspheres, the committee decided that this comment should be deferred to when we get to that part of the standard.

The fourth comment, that the document implicitly prefers polynomial, rather than Forbes aspheres representation, was observed to be correct, but that it was too soon to prefer the Forbes representation, since they are still not in wide use.

The fifth comment was more problematic. The tilt and decenter tolerancing used in this standard is out of step with the recommended practice described in ISO 10110-6. The committee felt that we should add notes indicating the preferred method, with ISO 1011 as an alternative, in both the body and the Foreword. We should also add notes after the figures to this effect, or change the figures if possible.

The sixth comment was that cbfs should be defined precisely as described in reference [2], to avoid the potential error of someone using a traditional best fit sphere. R. Youngworth offered to provide the equation to replace the current cbfs definition.

In addition, R. Youngworth observed that the ISO version includes the recursive formula, and we should add that as an Annex. He offered to make this change, as well as the indicated above, and resubmit for a task force vote.

Action Dave: Provide Rich with the current editable copy of part 12.

S. Martinek moved that all these changes be accepted, and that the standard be revised, and then balloted at the TF level by TF5 before proceeding with another OP ballot. R. Williamson seconded, and the motion carried.

4. OP1.0110-5 – M. Dowell reported the results of the TF3 meeting, yesterday. TF3 has agreed to revised OP1.004 to add a definition of saggita which can be used by OP1.0110-5, and allow us to remove the references to ISO 14999-4. She will then revise OP1.0110-5

accordingly, and add a table of definitions cross-referencing the OP1.004 and ISO 14999-4 definitions and how they are used by OP1.0110-5. This will be added as an Annex. She will then review the standard once more for completeness.

Action: M. Dowell will revise OP1.0110-5 to add a definitions Annex and add notes or modify text as needed in the body to create a self-consistent standard by August.

Action: S. Martinek will review the new draft in anticipation of our next meeting in September.

5. OP1.0110-6 – R. Williamson reported that the new draft of ISO 10110-6 is much better than the previous version, and will probably be something we can adopt as a national standard. It will likely not be published until 2015 or 2016, however, so we will need to reference ISO 10110-6:1997 in the meantime. He will continue to monitor its progress and report back periodically.

Action: R. Williamson will consider writing a white paper explaining the issues with ISO 10110-6:1997 for the user community.

6. OP1.0110-8 – D. Aikens presented the Foreword for an ANS version of ISO 10110-8. G. Boulton pointed out a missing sentence in the first paragraph of the Foreword, that D. Aikens will add back in.

Since the part 8 is fine as is and requires no changes for the US, we can proceed immediately to a draft CD for the TF.

Action: D. Aikens to offer a draft CD by August.

7. OP1.0110-18 – We didn't have any update from A. Krisiloff on the status of part 18, but we discussed the pathways forward for a glass specification notation for OP1.0110. We concluded that, since TF1 had reconvened, and was going to review OP3.001, we should probably have part 18 covered with TF1, at least until we had a CD.

Action: D. Aikens to ask H. Johnson to add part 18 to the TF1 agenda in August.

8. OP1.9211-4 – G. Boulton reported that he has not made any progress on OP1.9211-4, but he would prepare a draft by August.

Action: G. Boulton draft a CD of OP1.9211-4 by August.

Action Items from this meeting

Action Dave: Add part 19 to our list of required standards for OP1.0110.

Action: D. Aikens to rebalot the revised part 9 at the OP level

Action: D. Aikens to have D. Takaki revise the standard and rebalot the revised part 11 at the OP level

Action Dave: Provide Rich with the current editable copy of part 12.

Action: M. Dowell will revise OP1.0110-5 to add a definitions Annex and add notes or modify text as needed in the body to create a self-consistent standard by August.

Action: S. Martinek will review the new draft in anticipation of our next meeting in September.

Action: R. Williamson will consider writing a white paper explaining the issues with ISO 10110-6:1997 for the user community.

Action: D. Aikens to offer a draft CD by August.

Action: D. Aikens to ask H. Johnson to add part 18 to the TF1 agenda in August.

Action: G. Boulton draft a CD of OP1.9211-4 by August.

Time and place for the next meeting D. Howland moved that we schedule the next meeting for September 13th, 2012 at 14:00 EDT. S. Martinek seconded and the motion carried.

Adjourn. M. Dowell moved we adjourn, and D. Howland seconded. The motion carried and we adjourned 10:17.