

Draft Minutes

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

October 30, 2013, 11:00-12:00 EDT (-4:00 GMT)

Held by teleconference

1. Welcome and Introductions

R. Youngworth opened the meeting at 11:00 EDT with introductions. On the call were Ray Williamson, Allen Krisiloff, and Brian Stamper. The following joined the meeting in progress (times in EDT): Chris Svec (11:02), Nick Smith (11:04), Paul Murphy (11:05), and Donna Howland (11:40).

2. Adoption of Agenda

A. Krisiloff moved we adopt the agenda, and R. Williamson seconded the motion, which carried unanimously. Meeting documents were available online.

3. Review of Minutes and Review of Action Item Status

The minutes from the previous meeting were discussed, as well as the action items list which all relate to OP1.006 on Asphere metrology. Additional actions pertinent to aspheres come in the voting of relevant standards we are discussing.

N. Smith moved we accept the minutes from the previous meeting. C. Svec seconded, and the motion carried.

4. Discussion of International standards ISO10110-5, -6, -12

R. Youngworth discussed that the first two standards also now cover considerations for aspheres, per the international community's discussion and decision a few years back. ISO10110-12 remains the primary asphere definition standard and now has an appendix covering a few additional forms including Forbes' Qbfs and mention of Qcon being allowable but is not explicitly shown.

5. Discussion of International standard ISO10110-19

R. Youngworth and A. Krisiloff led a discussion of the status of ISO10110-19. In the Gaithersburg meeting we got consensus that the word freeform would be dropped. The US is providing the German delegation detailed feedback as it advances to the final (FDIS) phase before publication. Ultimately the goal is to ensure the standard is useful and does not cause any backward compatibility, confusion, and has some utility. Pending how the next draft progresses will dictate how the US delegation approaches the final vote to ratify. For more information please contact R. Youngworth who compiled the US response after Gaithersburg.

6. OP1.006 Aspheric Metrology Draft Update

The current draft is partially complete, but was not distributed for the meeting. A number of people have raised questions about the scope which will be revisited with some key experts. The concern is that the standard scope may be too broad and informative as currently being implemented. We talked specifically about a key question whether this standard covers data acquisition and methods, post-processing and filtering of said data, or both of these topics (N. Smith and P. Murphy provided a lot of input in this discussion specifically). Currently we have also deemed that freeform types of surfaces are out of scope. Two action items have been taken to address these concerns and further discussion will take place at the next TF5 teleconference. Also note that the fact we are working on this standard has been raised to the

international community along with a solicitation for other delegations' input if there is interest in an international standard. The US plan has not changed and ultimately we may drive an NWIP through to start an international project once we have a draft in place.

Action Item: R. Youngworth to revisit standard scope with D. Aikens. Experts in metrology will be consulted and we likely will have a call to affirm the scope of the standard to move forward.

Action Item: R. Youngworth to verify PINS requirements and deadlines with D. Aikens.

7. Additional Items

TF5 is now primarily responsible for OP1.006. Keeping a forum for discussion about asphere standards remains important and everyone should feel free to suggest or discuss additional topics of interest. We mentioned development of an explicit freeform standard or looking to see what needs the illumination optics community may have for non-spherical standard development. R. Williamson pointed out maturity of technologies is very important for standardization, noting that freeforms are still a researched topic. A. Krisiloff pointed out similar questions can be made to the precision engineering crowd. Regardless, the invitation to make suggestions is open.

8. Time and place for next meeting of TF5

R. Youngworth proposed the next meeting to be Tuesday, January 14, 2014 at 11:00 EST. A. Krisiloff moved to accept this proposed date and R. Williamson seconded the motion. The motion was ratified unanimously.

9. Adjourn

R. Williamson moved we adjourn, B. Stamper seconded, and the motion carried unanimously. The meeting adjourned at 12:00 EDT.