Draft Minutes

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

September 18th, 2012, 11:00-12:00 EDT (-4:00 GMT)

Held by teleconference

1. Welcome and Introductions

R. Youngworth opened the meeting at 11:02 EDT with introductions. On the phone were Ray Williamson, Nick Smith, Ron Scotti, Donna Howland, Bob Smythe and Dave Aikens. D. Hoover and P. Murphy dialed in at 11:04. C. Evans joined at 11:05.

2. Adoption of Agenda

D. Aikens moved we adopt the agenda, and B. Smythe seconded the motion, which carried unanimously. Meeting documents were available online and were also sent by e-mail.

3. Review of Minutes and Review of Action Item Status

R. Scotti moved we accept the minutes from the previous meeting. C. Evans seconded, and the motion carried with one abstention. The action item list in the tracking document was reviewed. Action items have been updated per these meeting notes.

4. Asphere drawings ISO 10110-12 and OP1.0110-12

R. Youngworth walked us through the current version of the ISO 10110-12 DAM and the US comments. The ISO DAM explicitly references Qbfs, but then allows Qcon with a note. We will need to review this at the international level, and modify OP1.0110-12 to resolve comments based on the reconciliation of the new ISO and current OP solutions. We also are looking into a version that defines departure normal to the base surface of a conic (a conic version of Qbfs).

Action Item: Group to review the two versions of the standard and get feedback to R. Youngworth by 10-15-12 for the meeting in St. Gallen.

Resolved Action Item: P. Murphy sent R. Youngworth reference to a paper with a Qbfs type of formulation with a base conic. See http://www.opticsinfobase.org/oe/abstract.cfm?uri=oe-19-10-9923 Section 3 if interested. R. Youngworth will investigate further for committee vote on next draft of OP1.0110-12 and the ISO St. Gallen meeting in late October.

5. ISO 10110-19 WD - ambiguity

R. Youngworth offered that the term "freeform" has become a buzz word without any clear definition, and which means different things to different people. The German perception is that a freeform is "any complex surface". C. Evans offered that a freeform surface has no axis of rotation. R. Williamson and D. Aikens both offered examples which are simple surfaces, but which have no axis of rotation on or off the part (such as acylinders, biconics, and surfaces that have symmetry on a 120 degree rotation.)

D. Aikens offered to review the new Part Designer feature in Zemax and report to the committee on how that fits with this freeform notation standard.

Action Item: Group to consider C. Evans definition versus the current German draft and decide how to best disambiguate the term "freeform"

Action Item: D. Aikens to review new part drawing capabilities in Zemax and report back.

6. Other active standard drafts

R. Youngworth offered that the other standards, ISO 10110-5, -6 and ISO 14999-4, which are also severely impacted by the freeform initiative.

7. Asphere Metrology PINS

K. Medicus was not able to attend, so R. Youngworth will follow up with her before the next meeting. We will leave her previous action stand for the next meeting.

Action Item: R. Youngworth will follow up with K. Medicus on her current draft by 10-3-12.

Action Item: K. Medicus to have outline of the proposed standard on asphere metrology by the next meeting.

8. Time and place for next meeting of TF5

R. Youngworth recommended the next meeting will be another telecom at 11:00 CMT December 11, 2012. C. Evans moved we accept that proposal, and R. Williamson seconded. The motion carried.

9. Adjourn

R. Williamson moved we adjourn, C. Evans seconded, and the motion carried. The meeting adjourned at 11:37 EDT.