

## Draft Minutes

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

March 10, 2015, 11:00-12:00 EDT (-4:00 GMT)

Held by teleconference

*Please refer to the action items spreadsheet for all current action items including those determined in this meeting.*

### 1. Welcome and Introductions

Rich Youngworth opened the meeting at 11:00 EDT with introductions. On the call were Ray Williamson, Bob Smythe, Kate Medicus, Michael Vitale, Brian Stamper, Paul Murphy, and Rich Youngworth. The following joined the meeting in progress (times in EDT): Donna Howland (11:06) and Allen Krisiloff (11:30).

### 2. Adoption of Agenda, designate a note taker

K. Medicus motioned we adopt the agenda, and R. Smythe seconded the motion, which carried unanimously. Meeting documents are available online.

### 3. Review of 17Apr14 Minutes and TF5 Actions

The group has not met for a year due to the transitions around leadership and questions about the scope of OP1.006. There is still a lot this group can and should do, so this meeting is a little bit of a reset. The minutes from the previous meeting were discussed, as well as the action items list which primarily relate to OP1.006 on Asphere metrology. K. Medicus moved we accept the minutes from the previous meeting. R. Smythe seconded, and the motion carried unanimously.

### 4. TF5 Status Discussion – Leadership and OP1.006

Originally this group was formed to assess any aspheric optics industry movement and standards support. That scope remains intact although the current focus is to deliver a good draft of OP1.006 and to do good work on systemic reviews for published standards of pertinence to aspheric optics. R. Youngworth is the leader of the SC4 telescopic systems effort. Currently he is holding the leadership of TF5 and the development of OP1.006, but we may need to bring in other leaders to complete the tasks due to the additional burdens SC4 imposes. It is very important to re-establish the scope of the TF5 now and OP1.006 and these tasks are in the current action items listing. **If anyone has interest in running TF5 or being the project leader of OP1.006 please send R. Youngworth a note.** *Please see action items lines 6-8 dated 100315.*

### 5. International Standards Status ISO10110-12 SR

R. Youngworth discussed this upcoming important vote. It is likely a revision to incorporate the amendment is necessary. Moreover, there is some current confusion about Q-type of surfaces due to the change in formalism in publications to the Q-Type that has a conic base that reduces to the Qbfs surface. We need to be sure the users understand any formalism allowed. The US expects Germany will support a revision to the standard.

R. Youngworth also explained that ISO10110-19 has been written in a very general way. If some formalism becomes widely used and can be written analytically, it is likely it will end up in ISO10110-12 in the longer term. ISO10110-19 can be applied to any surface but users should use the simplest formalism available. Hence if there is a surface formalism in ISO10110-12 the optimal approach is to use it. If the required surface definition is nowhere else in the standard then ISO10110-19 definitely applies.

## 6. Domestic Standards (ANSI) Status

The publication of the US ANSI standard is very close, per TF4 activity. No further update given in this meeting.

## 7. OP1.006 Aspheric Metrology Draft Update

A memo discussing details of the draft rescope was reviewed and is part of the meeting materials. The goal is to do the reset and scope determination soon. One key question is the “pull” for this standard from the community. If we are merely documenting standard practice or things that must be done universally and properly for parameter verification then of some sort then a “push” may be accepted but generally a “pull” is wise for this type of new document.

B. Smythe brought up the key issue (and often deliverable) in metrology is to ensure correlation between different measurements and metrology methods. This goal is clearly in the scope of OP1.006 and fits well in the effort to define parameters and specify measurement methods given in the memorandum.

K. Medicus also pointed out that other metrology standards mentioned in the memo that have applicability to aspheres are also part of the puzzle. Any gap between these standards and the current OP1.006 should be identified and these other standards can be referenced as appropriate (one example is ISO 14999). This assessment should be included as part of the document scope.

A discussion about other industries and how they make measurements pertinent to finish and surface shape came up. In general areas where there may be perceived overlap (such as TC 172 and surface finish in ISO 25178) we do have the ability to manage the issues at our discretion for optics. This includes some discussion with these other groups but their industries often are more general and have different requirements than optics.

*For information on action items please refer to the action item list lines 9-10 dated 100315.*

## 8. Additional Items

TF5 thanks thank SC7 (Ophthalmic optics and instruments) for sitting in the meeting. M. Vitale stated the intent is to be sure that although the industries are quite different, that no conflicts are created with developing work being done in SC7. B. Smythe did request out of general interest if TF5 (which is effectively working as part of SC1) can see some examples of surface types of standards and metrology being done in SC7. R. Youngworth agreed to ask if this is possible with D. Aikens. The communication will include J. Endres and M. Vitale. *Please see action items line 11 dated 100315.*

## 9. Time and place for next meeting of TF5

R. Youngworth proposed the next meeting to be Tuesday, September 8, 2015 at 11:00 EDT. No objections were raised to this meeting but no vote was taken. *Please see action items list line 12 dated 100315.*

## 10. Adjourn

K. Medicus moved we adjourn, B. Smythe seconded, and the motion carried unanimously. The meeting adjourned at 11:49 EDT.