

Draft Minutes

ASC OP/TF 3 –Committee for Optics and Electro-Optical Instruments –Wavefront Standards Meeting (Held in conjunction with OSA Optical Fabrication and Testing)

June 24, 2012 14:00-15:00 PDT

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

Welcome and introductions C. Evans brought the meeting to order at 14:11 PDT, with P. Takacs, M. Dowell, S. Martinek, D. Aikens, R. Williamson (phone), and D. Howland (phone) in attendance.

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

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

Wavefront Standards

1. OP1.004 –D. Aikens explained that the ballot still in process, no significant comments to date. We still need to get 10 more ballots to have a quorum.

Action: D. Aikens will send out a reminder to those who have not yet submitted a ballot

2. OP1.005 - P. Takacs announced that he can find a simplification of the current direction he is pursuing. It will draw more on the extraction of data from the profiler to get a valid answer.

C. Evans asked if there was going to be clear guidance on what kind of window to use and a prescription to get a result. P. Takacs said he would put in a recommended window. Of specific interest is when we need to make a series of profile measurements in various orientations and need to report a PSD value. How will we know which and how many profiles we need to take, to get the same answer.

The best approach may be to have a general treatment of detrending and windowing, but then have a default approach, if no more guidance is provided.

C. Evans suggested that we also have the ability to calculate other statistical properties, such as the structure function. D. Aikens suggested we keep it simple for now, and come back to harder function later.

D. Aikens asked if the normalization problems with 2D PSD have been solved, and P. Takacs said yes, they are all gone. He also said that we need to do something about notations,

since the ISO standards are badly done and excessive. D. Aikens suggested that we draw from ASME B46.1, rather than the ISO, for notation and definitions. P. Takacs observed that our notations are based on ISO, which don't agree with B46.1. D. Aikens explained that we can modify our version of OP1.0110-8 to have whatever notation we want, or to reference a document that can translate from one to the other.

S. Martinek asked if we will be able to deal with polar symmetry or other data set shapes. P. Takacs said that a general shape is dealt with by taking a series of local rectangular patches and averaging the result.

Action: P. Takacs will deliver a new CD by the end of August.

Overview of status of OP1.0110-5. M. Dowell reviewed the status of the ANS version of ISO 10110-5. This will be the drawing notation standard which will be used in conjunction with OP1.004. She reported that in the last revision of OP1.004, the definition of saggita has been lost, which results in a need to reference ISO 14999-4. She will submit a ballot comment, requesting we add back in the saggita definition and remove ISO 14999-4. This will allow us to go ahead and revise OP1.0110-5, and circulate it for ballot.

Action Items from this meeting

Action: P. Takacs will deliver a new CD by the end of August.

Action: D. Aikens will send out a reminder to those who have not yet submitted a ballot.

Action: M. Dowell will do one last review of OP1.0110-5 and OP1.004 and confirm we aren't missing anything else.

Time and place for the next meeting M. Dowell moved that we schedule the next meeting for Thursday, September 13th, 2012 11:00 EDT. S. Martinek seconded and the motion carried.

Adjourn. M. Dowell moved we adjourn, and S. Martinek seconded. The motion carried and we adjourned 15:37