

Draft Minutes
 ASC OP/TF 3 Optics and Electro-Optical Instruments – Optical Elements and Assemblies – Wavefront Standard
 Tuesday, October 18th, 2011
 11:00 to 12:00 EDT
 Conference Call

Attending

<input type="checkbox"/>	Committee Members (7 of 18 w/1 alt.)	Representing (Parent Organization)
x	David Aikens	Savvy Optics Corp.
<input type="checkbox"/>	Gordon Boulton (Alternate)	JDSU
<input type="checkbox"/>	David Corridon	Individual
<input type="checkbox"/>	Walter Czajkowski	APOMA (Edmund Optics)
x	Jessica DeGroote Nelson (Alternate)	Optimax Systems, Inc.
x	Marla Dowell	IEEE/LEOS
x	Marla Dowell	NIST
<input type="checkbox"/>	Lincoln Endelman	SPIE (Endelman Enterprises)
x	Chris Evans	Zygo Corporation
<input type="checkbox"/>	Krishna Gupta (Alternate)	Zygo Corporation
<input type="checkbox"/>	Jeff Guttman	Photon, Inc.
x	Donna Howland	Northrop Grumman Aerospace Systems
<input type="checkbox"/>	Hal Johnson	Harold Johnson Optical Lab
<input type="checkbox"/>	Allen Krisiloff	Triptar Lens Company, Inc.
<input type="checkbox"/>	Mike Mandina (Alternate)	Optimax Systems, Inc.
<input type="checkbox"/>	Stephen Martinek	4D Technology
<input type="checkbox"/>	Wayne McKinney (Alternate)	Lawrence Berkeley National Lab
<input type="checkbox"/>	Rick Plympton	Optimax Systems, Inc.
<input type="checkbox"/>	Bob Smythe	R. A. Smythe, LLC
<input type="checkbox"/>	Piotr Szwaykowski	Engineering Synthesis Design
x	Peter Z. Takacs	Brookhaven National Lab
<input type="checkbox"/>	Ray Williamson	Ray Williamson Consulting
<input type="checkbox"/>	Dr. Valeriy V. Yashchuk	Lawrence Berkeley National Lab
Observers (1)		
<input type="checkbox"/>	Gene Kohlenberg	OEOSC
<input type="checkbox"/>	Paul Murphy	QED Technologies

1. Welcome and Introductions

C. Evans opened the meeting at 11:11 EDT. Dave Aikens, Chris Evans, Peter Takacs, Marla Dowell, Donna Howland and Jessica DeGroote Nelson were on the call.

2. Adoption of Agenda

P. Takacs moved to adopt the draft agenda. M. Dowell seconded the motion, which carried unanimously.

3. Approval of draft minutes of the January 19, 2011 meeting

J. DeGroote Nelson moved that the draft minutes be accepted; P. Takacs seconded the motion; the motion carried unanimously.

4. Wavefront Standards

a) OP1.004 Review of Ballot and Comments

Balloted by TF3; majority voted in favor. All comments were just editorial, and were accepted by the project leader. The document will be revised accordingly and submitted for OP level approval as a draft standard. Peter noted that the default resolution was a little unclear, and it could be improved with more clear language. C. Evans will review that section and see if it is clear as written, or could benefit from a modification.

b) OP1.005 update

P. Takacs directed us to the document posted on the website regarding 2-D PSD calculations. The complication in this example is that there is data missing in the center, as is often the case with a Fizeau image. Peter's proposed method is to take a sub-section of continuous data and do statistical analysis on these regions, but there is an issue with mining a large data set for a smaller region. The low order polynomial needs to be detrended, and the data set then filtered with some kind of windowing to suppress the edge function. In his analysis, Peter shows that the rect filter results in a significantly higher PSD across the spectrum, and in fact obscures the real features of the PSD. In addition, the selection of the proper order of detrending is critical. The method Peter uses is to successively increase the order of the detrending and look at the overall rms of the residual surface. When increasing the order does not significantly impact the rms, the detrending is sufficient.

C. Evans noted that we should be careful to use the term "Areal PSD" rather than "2-D PSD" to prevent confusion. The next item would be to imbed some of these insights into OP1.005, and offer up a new draft.

5. Action Items

a) OP1.004

- C. Evans will review the default integration length language. He will also make the needed editorial changes based on the comments of the TF level review, and submit the new draft for OP ballot by Nov 15th.
- M. Dowell said that she still needs to compare OP1.004 with ISO 14999 by Nov 1st.
- D. Aikens to ballot the OP1.004 draft at the OP level by December 15th.

b) OP1.005

- P. Takacs will prepare the next committee draft by March 1, 2012.

6. Time and Place for next OP/TF 3 Wavefront Meeting

D. Howland moved that we have a face-to-face meeting in conjunction with OF&T in Monterey in June, and a teleconference in the April time-frame provided the OP1.004 ballot results are available in time. J DeGroot Nelson seconded and it carried.

7. Adjournment

P. Takacs moved that the meeting be adjourned. J. DeGroot Nelson seconded the motion. The meeting was adjourned at 12:11 EDT.