

Draft  
Minutes  
ASC OP/TF 4, Conversion of ISO 10110 to a National Standard Task Force Meeting  
January 26, 2009  
Fairmont Hotel, California Room  
170 South Market Street  
San Jose, CA 95113

<b>Present</b>	<b>7 Attendees; 1 Alternate Representing 20 ASC OP Member Organizations</b>	
<input checked="" type="checkbox"/>	<b>Committee Members</b>	<b>Representing</b>
<input checked="" type="checkbox"/>	David Aikens	Savvy Optics Corporation
<input checked="" type="checkbox"/>	Gordon Boulton	JDSU Corporation
<input type="checkbox"/>	Andrei Brunfeld	Xyrtext
<input checked="" type="checkbox"/>	Benjamin Catching (Alternate)	JDSU Corporation
<input type="checkbox"/>	David Corridon	Individual
<input checked="" type="checkbox"/>	Walter Czajkowski	APOMA (Edmund Optics)
<input type="checkbox"/>	Frank Dombrowski	Gage-Line Technology, Inc.
<input checked="" type="checkbox"/>	Marla Dowell	IEEE/LEOS
<input checked="" type="checkbox"/>	Marla Dowell	NIST
<input checked="" type="checkbox"/>	Lincoln Endelman	SPIE, (Endelman Enterprises)
<input type="checkbox"/>	Charles Gaugh	Davidson Optronics, Inc.
<input checked="" type="checkbox"/>	Ulph Griesmann	OSA (NIST)
<input type="checkbox"/>	Krishna Gupta	Zygo Corporation
<input checked="" type="checkbox"/>	Hal Johnson	Harold Johnson Optical Lab
<input checked="" type="checkbox"/>	Alan Krisiloff	Triptar Lens Co., Inc.
<input checked="" type="checkbox"/>	Stephen Martinek	4D Technology Corporation
<input type="checkbox"/>	Jonathan McGuire (Alternate)	Northrop Grumman Laser Systems
<input type="checkbox"/>	Sam Richman (Alternate)	Research Electro-Optics, Inc.
<input checked="" type="checkbox"/>	William Royall (by phone)	Eastman Kodak Company, Retired
<input checked="" type="checkbox"/>	Peter Takacs	Brookhaven
<input type="checkbox"/>	Trey Turner	Research Electro-Optics, Inc.
<input type="checkbox"/>	Steve VanKerkhove	Corning Tropel
<input checked="" type="checkbox"/>	Ray Williamson	Ray Williamson Consulting
<b>Observers (3)</b>		
<input checked="" type="checkbox"/>	Gene Kohlenberg	OEOSC
<input type="checkbox"/>	John Hamilton	Northrop Grumman
<input checked="" type="checkbox"/>	Donna Howland	Northrop Grumman Aerospace Systems
<input checked="" type="checkbox"/>	Bruce Netherton (by phone)	Lockheed Martin Coherent Technologies

### Auditor's Summary of Meeting

At this meeting the Task Force reviewed several parts of ISO 10110 to determine what would need to be changed in order to make them appropriate candidates for American National Standards. The next meeting was set to be held in Rochester, NY the second week of May 2009.

#### 1. Welcome and Introductions

D. Aikens opened the meeting at 8:38 a.m. There was a round of introductions so that those on the phone could hear who was in the room.

#### 2. Adoption of Agenda

G. Boulton moved that the agenda be approved as revised, and R. Williamson seconded it. The motion carried unanimously.

### **3. Approval of the Minutes of the October 20, 2008 Teleconference**

A. Krisiloff moved that the draft minutes be approved; H. Johnson seconded the motion, which carried unanimously.

### **4. Review/approve final version of ISO 10110-1**

D. Aikens reviewed draft **BSR-OEOSC OP1 110-1 vsn 2 3** giving attention to the changes made to the earlier draft. He read each ANS Note and discussed the reason for it.

M. Dowell proposed that rather than using ANS Note 7, a statement should be given early in the document listing the ANS standards and their equivalent ISO standards. D. Aikens said that he could put that table in the ANS foreword.

M. Dowell noted that the table would have to be revised as more ANS equivalent standards were approved. D. Aikens showed those who were present in the room a table of correlation between ANS and ISO standards that he created for the ISO 10110 class.

A. Krisiloff said that he was confused about what and when ISO standards will be replaced with ANS standards.

D. Aikens drew a time line for the creation of ANS equivalent standards for ISO 10110 standards. Then A. Krisiloff asked what the ANS Notes were trying to establish. D. Aikens replied that ISO 10110-1 has explicit references to ISO 10110-2, -3, -4, -5, -6, and -7. He continued that ANS Note 7 is an implicit reference to equivalent ANS standards when they become available. After more discussion, ANS Note 7 was moved immediately after the current ANS Note 8.

A. Krisiloff moved that the edited OP1.010 be circulated for balloting. B. Catching seconded the motion. The motion carried unanimously.

The Task Force recessed at 10:14 am and reconvened at 10:29 a.m. D. Aikens went to register as instructor for the two OEOSC classes, and A. Krisiloff began chairing the meeting. He chose to move the OP3.001 status report to the next item so that D. Aikens could participate in other items later on the agenda.

### **5. Status report on OP3.001 rewrite/ ISO 10110-18**

A. Krisiloff presented a chart that compares several optical glass standards. This chart accompanies these minutes on the optstd.org website. He said that the glass manufacturers are using a different striae condition than what is currently in OP3.001. OP3.001 has qualitative identifiers while Schott has developed a quantitative method of identifying striae.

D. Aikens suggested that A. Krisiloff create a working draft of the revised OP3.001 to share with those persons who indicated that they would like to review the updated standard. G. Kohlenberg said that several of those who replied to his query about reviewing the standard wanted to specifically know what was being proposed so that they could decide who in their organizations should participate. It would be possible for him to send them a copy of the current document along with his comparison chart, and then he could describe what he proposed to modify.

D. Aikens urged A. Krisiloff to use information on Schott and O'Hara websites as a background for modifications.

### **6. Review/Approve final version of ISO 10110-10**

D. Aikens resumed leadership of the meeting at this point. The Task Force reviewed the draft standard to make sure that ANS changes were consistent with what was done in OP1.110-1.

ANSI Note 3 was inserted to make the standard comply with the techniques required by the drafting software designers.

The ANSI Notes in clause 3.7 are there to recognize common practice in both Europe and the US.

ANSI Note 7 should be made the same as in the comparable note in ISO 10110-1.

R. Williamson asked about the sign convention in ANSI Note 6. D. Aikens said that the ISO convention states that a convex surface is plus, and a concave surface is minus. R. Williamson suggested that the lens designer convention and the ISO convention would be consistent if the buried surface were assigned to the right-most surface. The note was modified to use that convention.

D. Aikens agreed to provide an update for Figure 4, which will be labeled ANS Figure 1. He also agreed to create a hand drawn doublet and define what goes into the five-box table for a cemented-doublet drawing, and give it to G. Kohlenberg for insertion into the standard. The note at the bottom of the drawing would now say, "Indications in accordance with ANSI/OEOSC OP1.110-10."

G. Boulton moved that the editorial changes to the standard be approved. W. Czajkowski seconded the motion, which carried unanimously.

### **7. Status report on OP3.001 rewrite/ ISO 10110-5**

A. Krisiloff presented his chart. OP3.001 has a qualitative scale for striae while the glass manufacturers have created a quantitative scale.

1:48 question from W. Czajkowski. G. Boulton new standard for striae.  
D. Aikens urged A. Krisiloff to get a working draft quickly.

Figure 3 Aikens to provide Figure 3 changes and a new ANSI figure 1. Aikens will give me data for ANS table.

G. Boulton moved to accept these changes. W. Czajkowski seconded.

#### **8. Proposed foreword to ISO 10110-5**

B. Catching said that first ISO 14999-4 will have to be adopted because items in ISO 10110-5 are defined in ISO 14999-4.

#### **9. Status report on ISO 14999-4**

B. Catching reviewed this document. He said that this document attempts to eliminate the concept of peak-to-valley (P-V), and wants to define optics solely in terms of sagitta, rotational irregularity, and RMS values. P-V is deeply ingrained in the US optics industry, so the ANS version cannot simply abandon the concept. A different letter for indication would be required.

D. Aikens recommended that a work item to create an ANS version of ISO 10110-5 and ISO 10110-14 to serve the US optics industry. These new versions could then be offered to the international community.

B. Catching was asked to prepare revised forewords for ISO 10110-5, ISO 10110-14, and ISO 14999-4 for the next meeting.

#### **10. Proposed strategy for ISO 10110-9**

G. Boulton prepared a table that listed proposed areas of change with suggested changes. This table accompanies these minutes on the optstd web site.

D. Aikens suggested that ISO 9211 be added to the agenda for the next meeting so that the Task Force can decide if it should be adopted as an ANS.

#### **11. Proposed strategy for ISO 10110-12**

This is a recent revision of ISO asphere standard. B. Catching recommended that this standard be adopted as is and then work with the ISO committee to make some minor improvements. A. Krisiloff moved that an ANS final draft of this standard be prepared including the draft ANS foreword that includes a note saying, "References to international standards shall be replaced with ANS equivalents per ANSI/OEOSC OP1.110-1." R. Williamson seconded the motion. The motion carried unanimously.

#### **12. Status report ISO 10110-6**

R. Williamson said that he contacted Reinhold Litchel, who is responsible for the ISO document. He and his group has begun a rewrite of the ISO document. That group is interested to see if the US delegation has the same philosophy in execution.

#### **13. Action items**

#### **14. Time and Place of next TF 4 Meeting**

R. Williamson moved that the Task Force meet in Rochester, New York during SPIE/APOMA Optifab the second week in May 2009. B. Catching seconded the motion which carried unanimously.

#### **15. Adjourn**

G. Boulton moved that the meeting be adjourned; B. Catching seconded the motion, which carried unanimously. The meeting adjourned at 11:53 a.m.