

Minutes of ASC OP Meeting
Monday January 24th 2011 , 08:30 – 12:30 PST
Intercontinental San Francisco
888 Howard Street, San Francisco, CA 94103
Twin Peaks Room (4th Floor)

Present	Participants (10 of 29) Committee Members	Representing
<input checked="" type="checkbox"/>		
<input checked="" type="checkbox"/>	David Aikens	Savvy Optics Corp.
<input type="checkbox"/>	Sam Bailey (Alternate)	Davidson Optronics, Inc.
<input checked="" type="checkbox"/>	Gordon Boulton	JDS Uniphase Corporation
<input type="checkbox"/>	Ben Catching (Alternate)	JDSU
<input checked="" type="checkbox"/>	Walter Czajkowski	APOMA (Edmund Optics)
<input type="checkbox"/>	Jessica E. DeGroote Nelson	Optimax Systems, Inc.
<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 type="checkbox"/>	Lincoln Endelman	SPIE (Endelman Enterprises)
<input type="checkbox"/>	Chris Evans	UNCC representing Zygo Corporation
<input type="checkbox"/>	John Fleischer	Photon, Inc.
<input checked="" type="checkbox"/>	Charles Gaugh	Davidson Optronics, Inc.
<input type="checkbox"/>	Ulf Griesmann	OSA
<input type="checkbox"/>	Krishnakant Gupta (Alternate)	Zygo Corporation
<input type="checkbox"/>	Jeffrey Guttman	Photon, Inc.
<input type="checkbox"/>	Donna Howland	Northrop Grumman Aerospace Systems
<input checked="" type="checkbox"/>	Hal Johnson	Harold Johnson Optical
<input type="checkbox"/>	Dale Josephson (Alternate)	APOMA
<input checked="" type="checkbox"/>	Allen Krisiloff	Triptar Lens Co., Inc.
<input type="checkbox"/>	Ray La Croix	La Croix Optical Co.
<input type="checkbox"/>	Rich Linke (Alternate)	IEEE Photonics Society
<input type="checkbox"/>	Mike Mandina	Optimax Systems, Inc.
<input checked="" type="checkbox"/>	Stephen Martinek	4D Technology Corporation
<input type="checkbox"/>	Wayne McKinney (Alternate)	LBNL
<input type="checkbox"/>	Ashish Mistry	FLIR Precision Optics
<input type="checkbox"/>	Rick Plympton (Alternate)	Optimax Systems, Inc.
<input type="checkbox"/>	Kathleen Richardson	School of Materials Science & Eng., Clemson
<input checked="" type="checkbox"/>	William E. Royall	Rochester Precision Optics
<input type="checkbox"/>	Robert Smythe	R. A. Smythe, LLC
<input type="checkbox"/>	Keith Snyder	Northrop Grumman Laser Systems
<input type="checkbox"/>	Piotr Szwaykowski	Engineering Synthesis Design, Inc.
<input type="checkbox"/>	Peter Takacs	Brookhaven National Lab.
<input type="checkbox"/>	Trey Turner	Research Electro-Optics, Inc.
<input type="checkbox"/>	Ray Williamson	Ray Williamson Consulting
<input type="checkbox"/>	Valeriy Yashchuk	LBNL
<input checked="" type="checkbox"/>	Rich Youngworth	Light Capture Inc.

Welcome and Introductions

D. Aikens opened the meeting at 08:34 PST with introductions.

Adoption of Agenda

W. Royall moved that the agenda be adopted as modified. G. Boulton seconded, and the motion carried.

Approval of the ASC OP Meeting Draft Minutes

A. Krisiloff moved that the minutes to the previous meeting be accepted. M. Dowell seconded, and the motion carried.

Reports

TF 2 Surface Imperfections Specifications (G. Boulbee)

The meeting Sunday morning was summarized. Significant focus on magnification and how it is used in OP1.002. Discussion regarding changing the scope of the revision to OP1.002 to just pull apart the visibility and dimensional methods. Consensus of the group was that the visibility section did not require modification; the dimensional method needed work. T. Turner, G. Eliason, G. Boulbee and D. Howland are collecting documents of existing methods. D. Aikens is trying to wean ARDEC from the SIRA instrument and is making good progress getting the SavvyInspector adopted at the Army. New sets are expected to have better calibrated 10's and 20's, based on current testing.

C. Gaugh reported that Davidson is considering discontinuing their comparison standards. G. Eliason reported the same discussions going on at FSI. D. Aikens reported that, while the SavvyInspector is in the market, it is still not profitable. The companies were encouraged to get together separately to discuss the situation, and advise ASC/ OP if necessary.

Next meeting will be at OptiFab in May.

TF3 Wavefront Specifications (D. Aikens reporting for C. Evans)

On behalf of C. Evans D. Aikens summarized the progress of TF3 since the last meeting. OP1.004, which would take the place of ISO 14999 in an American portfolio of wavefront standards, is looking great; the committee has blessed the current working draft, and it is going to be offered up as an OP draft as soon as the PINS and TF3 ballot paperwork is done. OP1.005 is stuck. The 2D statistical analysis mathematics don't work. P. Takacs, the project leader, is soliciting help from Dr. Murphy of QED and Dr. Scott of T-H. M. Dowell will be reviewing the finished draft of OP1.004 and compare it to the notation standard draft, OP1.0110-5, and see if it can stand alone, or if we need to modify it in some way.

Our current teleconference service is pretty expensive. We should look into more cost-effective ways of doing conference calls if this is going to be a regular thing. Skype was tried, but can't support the number of people involved.

TF4 American blueprint OP1.0110 drawing standards

D. Aikens reported that we have made great progress on many of the standards, but we need to file the PINS documents with ANSI if we are going to develop new standards. Going forward, we will include a vote to start new projects.

M. Dowell moved that the Executive director file all the necessary paperwork for the entire series of standards we are planning to develop and release, and fix any errors on existing PINS documents. G. Boulbee seconded the motion and it carried. Since project initiation is one of the things that ANSI tracks, D. Aikens will create a ballot for the entire OP1 based on M. Dowell's motion. This will direct him to file all the necessary PINS documents on OP1.0110-1, -10, -12, -9, -5, -14, 18, -8, -11, and -6 so we can proceed with generating BSR draft standards. D. Aikens will also get data from ANSI regarding the current PINS status, and straighten out any naming or numbering issues that exist. There need not be a motion to correct errors.

D. Aikens also reported that written comments on the ISO template are best during the task force stage, since we have the freedom to incorporate changes and they are easily implemented. General directions that are not actionable will not be accepted by the project leader unless they come with specific, actionable changes to be made, after the TF level ballot is complete.

The ISO 9211 series is ready for US adoption. G. Boulbee will investigate use of the character "u" in 9211-2 and report back. G. Boulbee moved that we use the ISO MOD 9211 numbering convention. W. Czajkowski seconded and the motion carried.

One-Hour Short Overview of Scratch and Dig Standards

A. Krisiloff asked that this item be tabled. D. Aikens will upload the latest version and we can review it at the next meeting.

Other Business

Establishing TF5, Aspheric notation

D. Aikens has been approached by Andy Kulawiec (QED) and Kevin Thompson (ORA) to serve as a third party to spearhead an industry wide effort to push the new Forbes notation for aspherics. ORA expressed a willingness to help with funding such an initiative. In addition, Edmund Optics sponsored a webinar on IR aspheric optics hosted by Greg Forbes and Dave Aikens. The webinar was well received. Since OEOSC has a charter to advance standards in the industry, it is

reasonable for OEOSC instead of Dave Aikens to drive this. OEOSC can create a new task force, drive standards development, and even sponsor conferences and meetings. It is possible that some money could be raised for OEOSC through such an effort. W. Royall observed that we need to be careful to maintain our neutrality.

R. Youngworth volunteered to serve as task force leader, and to look into creating a conference to generate interest and to learn more about the needs of the industry. C. Evans has offered that UNCC will host a conference on aspheric surfaces, if OEOSC will run it. Could charge \$500 per person attending to cover costs, and we could publish the papers in a proceedings. W. Czajkowski observed that neither ORA nor QED have ever joined OEOSC. D. Aikens reported that there would be a panel discussion on the subject at OptiFab, and that would be a good place to get new members and interest in standards. We could solicit tool makers, users, and fabricators who are not currently involved in OEOSC, such as Zeeko, Panasonic, etc.

W. Czajkowski suggested that the attendance for any OEOSC sponsored summit meetings should be discounted for members, which might encourage people to join to get the discount. M. Dowell suggested you could have the attendance fees for a summit meeting include a one-year membership of OEOSC.

Need to be careful not to create quorum issues for TF5. D. Aikens suggested that the summit meeting could be an OEOSC, instead of an ASC event, but that a TF5 meeting could be concurrent with the summit meeting, if that makes sense.

A. Krisiloff moved that ASC OP create Task Force 5, Aspheric Optics Standards, to develop standards and technical reports to guide the design manufacture and testing of aspheric optics. B. Royall seconded the motion, and it carried.

D. Aikens will circulate a ballot to all of ASC/OP to ratify the recommendation and that R. Youngworth be made chairman.

Review of OP membership

OP membership was reviewed. Currently showing 28 primary members, (29 with Rochester Precision Optics Added) and six observers, with alternates for seven of the primary members. Thirteen members are general interest, Ten are producers (eleven with Rochester Precision Optics) and Five are users. The committee felt that the membership was sufficiently balanced. We should continue to monitor the classifications of the membership, since the class of some members could change over time. We should also continue to seek balance, with more users if possible. Members should pay attention to their classification when they receive their OEOSC participation survey and invoice.

Break 10:15 to 10:30

Review of OP membership (continued)

D. Aikens reviewed the ANSI rules regarding membership and participation in a standards writing body for the committee. Several members of ASC OP felt that anyone who has not paid their participation fee should be automatically dropped as a member. D. Aikens will circulate a ballot for a motion to enact such a policy, provided it is consistent with ANSI rules.

D. Aikens will add membership review to the next meeting agenda. D. Aikens and W. Royall will also prepare a report showing payment status and type of member, and distribute it to the entire membership before the meeting.

S. Martinek expressed interest in getting participation in TF3 from the design code companies. D. Aikens will solicit M. Nicholson for support. We may get more participation from the design code companies with the formation of TF5. It was observed that neither the U of R nor the U of A currently participate in standards development, but UCF, UNCC, and Clemson do. D. Aikens will discuss with D. Howland the current status of the Northrop membership, and whether it should be split into two different user groups. D. Aikens will also look into improvements in the membership process that we could consider.

Review of proposed wavefront sensors standard project

D. Aikens reported that ISO TC172/SC1 WG1 has proposed a new ISO TR for the use of wavefront sensors. It is a general document with fundamentals and seems better written than many of the relevant standards in the area. W. Royall concurred that it seems to be a very good technical report. The committee is asked to review the draft, which is on the website, for discussion at OptiFab. We should identify a US representative to participate, and consider adopting it as an ANS technical report.

ANSI/OEOSC TAG to ISO/TC 172 Mirror Committee action review

D. Aikens described the mirror committee as consisting of anyone who has participated in ISO meetings or correspondence. A. Krisiloff explained that the mirror committee serves as the conduit between the TAG and the ASC OP.

ISO 10110-18. The committee reviewed the action items from the previous year. A. Krisiloff needs to send out a comparison table between the new ISO 10110-18 and the existing ISO 10110-2, -3, and -4 standards. This is now late. A. Krisiloff said he would circulate it to the membership.

ISO 14997. After the editorial revision to ISO 14997, we now need to proceed with a NWP to revise the standard to remove the MIC inspection, improve the description of the microscope inspection, and add the details to the visual inspection. D. Aikens will notify DIN of the committee's intent to offer a NWP.

ISO 25178 series. M. Dowell discussed the actions of TC213/WG16 with T. Vorburger. She explained that the new version of B46.1 "has a bottom", and you can't use visibility to inspect below some size. It breaks the inspection down into three categories; unaided eye, tools, and nanometer feature measured by AFM. ISO has taken B46.1, subdivided it and made a series of standards based on it.

D. Aikens will review B46.1-2009 and report back to TF2 regarding how the scope of the standard has changed from 2002 to include imperfections.

ISO 10110-12. New draft proposed by Asphericon. TF5 to review and provide guidance.

NWP for roughness artifact standard. D. Aikens to propose a draft. This is now late.

ISO 10110-1 and-10. D. Aikens reported that there will be a new version of these standards which will, among other things, allow the use of color and improve the specifications of assemblies.

Five year plan. Both SC1 and SC3 have asked for input concerning new notation, environment, testing, and data transfer standards. W. Royall was asked to review whatever is disappearing from the MIL specs; MIL-STD-810G is huge, and out of date. ISO 9022 and ISO 10109 series are not being used, and are at risk of disappearing. D. Aikens suggested that we combine the environmental standards into a single, less expensive document. All members of the committee will send A. Krisiloff their in formal and imaginative thoughts on the elements of a five year plan.

Diffraction and binary optics standard. We have been requested to consider the need for a diffractive or binary optics standard. There seems to be no way to conveniently write binary coefficients or describe a diffractive optic using a drawing. There was a draft, ISO 10110-16, but it was abandoned. S. Martinek observed that the IR guys do this somehow now, and that a standard might attract more of the IR community to OEOSC. A. Krisiloff offered to contact Mike Morris on his thoughts on the subject, and see if he is willing to participate.

Experts Needed

- SC 1/WG 3, Environmental test methods
- SC 1/WG 4, Data transfer: contents and management
- SC 3/WG 3, Characterization of IR materials
- SC 4, Telescopic systems
- SC 6, Geodetic and surveying instruments

Time and Place for Next OP Meeting

A. Krisiloff moved that we meet again at OptiFab in Rochester in May. G. Boulton seconded, and the motion carried.

Adjourn

Since there was no further business to come before the committee, M. Dowell moved that the meeting be adjourned. S. Martinek seconded the motion. The meeting was adjourned at 12:37 PST.

Summary of Action Items

Actionee	Action	Due
D. Aikens	Upload latest version of one-hour short course	April 15, 2011
D. Aikens	Circulate Ballot to OP to ratify TF5	April 15, 2011
D. Aikens	Circulate Ballot to OP to ratify R. Youngworth as leader	April 15, 2011
D. Aikens	Prepare report showing payment status and type of member	April 15, 2011
M. Dowell	Download membership form from website, fill it in, and send it to Gene	April 15, 2011
D. Aikens	Discuss NGC membership status with D. Howland	April 15, 2011
D. Aikens	Look into upgrading our membership process	May 9, 2011
Everyone	Review NWP for wavefront standard. Names of participants. Adopt as ANS	May 9, 2011
A. Krisiloff	Circulate comparison table of -2, -3, -4 and -18 to committee	April 15, 2011
D. Aikens	Notify DIN of intent to offer NWP for ISO 14997	June 15, 2011
D. Aikens	Review B46.1-2009 and report back to TF2	May 8, 2011
Everyone	Send Krisiloff thoughts on five year plan for environmental and data transfer standards	May 1, 2011
W. Royall	Review whatever is disappearing from inactivation of MIL standards	May 9, 2011
A. Krisiloff	Contact M. Morris on diffractive optics standards participation	May 9, 2011