

Approved Minutes
ASC OP1 ‘Scratch and Dig’ Draft Standard Review
Sunday July 29, 2001
1:00 p.m. — 5:00 p.m.
Monday, July 30, 2001
8:30 a.m. — 12 Noon
Marriott Hotel and Marina
San Diego, CA

Attendees (15)	Representing
David Aikens	Thermawave
Gordon Boulton	OCLI
Andrei Brunfeld	Display Inspection Systems
Walt Czajkowski	APOMA
Lincoln Endelman	Endelman Enterprises
Birgit Gillman	Zygo Corporation
John M. Hamilton	Northrop Grumman Corporation
Hal Johnson	Harold Johnson Optical Lab.
John Johnson	ZYGO
Gene Kohlenberg	OEOSC
David J. Kerko	Corning
Bruce Netherton	Spectra-Physics
Harvey Pollicove	COM
William Royall	Eastman Kodak Company
John M. Schoen	COM

The meeting was opened at 1:04 p.m. D. Aikens thanked the group for giving up their Sunday afternoons to work on the draft.

H. Pollicove moved that the draft minutes of the May 6, 2001 meeting be approved as amended by G. Kohlenberg. W. Royall seconded the minutes; the motion carried.

The first order of business was to draft an agenda for the two sessions of this meeting.

Agenda for meeting

1. Introductions – what are you looking for by participating
2. Report from Switzerland
3. Report on Northrop’s work on calibrating illumination
4. Timeline and task leaders for metrological-based standard
5. Objectives for the next meeting
6. Finish the first draft of BSR/OEOSC OP1.002 for publication
7. Initiative for standard illumination hardware
8. Line-by-line review of BSR/OEOSC OP1.002

J. Hamilton moved that the Task Force accept the agenda proposed by D. Aikens. B. Netherton seconded the motion. The motion carried.

Introductions

D. Aikens asked for a round of introductions. Each person stated his/her interest in this standard.

Report from Switzerland

H. Pollicove discussed the activities during the ISO/TC 172/SC 1 meeting in St. Gallen, Switzerland. Scratch and dig issues were not covered at that time.

Report on Northrop's work on calibrating illumination

J. Hamilton reviewed his efforts in examining the illumination conditions for evaluating scratches. There is not a lot of correlation among the several methods of viewing samples. Northrop has a limited list of samples that it using in this evaluation. He asked others at the meeting to consider submitting samples relevant to their business to be included in this test.

There followed a general discussion concerning the merits of an appearance imperfection standard and a performance imperfection standard. D. Aikens finally reminded the group that the group was revisiting the same issues that were discussed in the previous meeting.

The group recessed at 2:36 p.m. and reconvened at 2:54 p.m.

Timeline and task leaders for metrological-based standard

	COMPLETION DATE
1. Finish BSR/OEOSC OP1.002 for publication	
2. Steps to a performance standard	
2.1. Agree on course of action	
2.1.1. Same artifact, different lighting	
2.1.2. Microscopy/machine vision	
2.1.3. Variable magnification	
2.1.4. Variable lighting	
2.1.5. Variable artifacts/substrates	
2.1.6. Same artifact and lighting, different observers	
2.2. Assign task leader	7/29/01
2.2.1. D. Aikens appointed J. Hamilton to be the task leader	
2.2.2. , D. Aikens appointed J. Johnson to be co-task leader.	
2.3. Design experimental plan	Off-line
2.4. Develop funding strategy	7/29/01
2.5. Solicit/award work	
2.5.1. H. Pollicove agreed to manage the solicitation	
2.6. Conduct experiments	1 year
2.7. Reports from experiments	7/02
2.8. Draft standard	7/02
2.9. Edit standard and approve	Fall/winter '02
2.10. Submit measurement/validation standard to ANSI	4/03

Objectives for the next meeting

Agenda for next meeting

- 1) Unfinished business on draft OP 1.002
- 2) Go through results of initiative to solicit funds, project planning and experimental
- 3) Reviewing the proposed standard starting points for notation and interpretation.

Committee will meet again at Photonics West in January. The Task Leaders will call another meeting if it is needed before the January meeting.

Initiative standard illumination hardware

Line-by-line review of BSR/OEOSC OP1.002

The committee recessed at 3:47 p.m. and reconvened at 4:03 p.m. and began the review of the BSR/OEOSC OP1.002.

The committee recessed for the day at 5:05 p.m.

D. Aikens reconvened the meeting at 7:36 a.m., July 30, 2001.

D. Aikens distributed a draft of the project plan, which he said would be e-mailed to the task force.

Finish the first draft of BSR/OEOSC OP1.002 for publication

W. Royall distributed his draft of section 3.10.2, Inspection by Comparison to a Known Standard.

After discussing the wording of magnification, J. Hamilton moved that new wording be applied. B. Netherton seconded. The motion carried 8 to 2.

The meeting recessed at 9:37 a.m. so that copies of an edited version of 3.9.2, Fractures and Edge Chips, and 3.9.3.1, Fractures and Edge Chips, could be made.

The session reconvened at 9:47 a.m. with a review of the alternative wording.

W. Royall moved to extend meeting into afternoon with understanding that the document would be available to rest of the task force to review. B. Netherton seconded the motion, which carried.

The meeting recessed at 11:55 a.m. for lunch, and reconvened at 1:36 p.m.

The full committee reviewed Section 1, Scope — 2.1.2.10, Outgassing. Sections 3, Requirements, — 3.9, Optical Component Details, except for 2.1.2, Area Imperfections, and 2.1.3, Edge Imperfections, were reviewed by a special committee, subject to approval by the full committee. **The full committee members are asked to e-mail**

1) changes desired for sections 2.1.2.11, Ripple, — 2.2.2, User, and

2) approval or suggested changes to section 3, Requirements, — 3.9, Optical Component Details.

The review process continued until the meeting was adjourned at 5:21 p.m.