

Meeting Minutes (Draft 1)

ASC-OP/TF2: Surface Imperfections

Sunday, February 3, 2019

Stockton Room, 5th Fl, Intercontinental Hotel, 888 Howard St., San Francisco, CA

CALL TO ORDER AT 1:30 PM PST

Gordon Boulton, Chairman of TF2, called the meeting to order. Gordon announced that this is his last meeting as Chairman and recommends that Dave Aikens be approved as the new Chairman.

WELCOME AND INTRODUCTIONS

Voting Members

1. AMP Optics, Adam Phenis (Voter Present)	12. Eric Herman, (Voter Absent)
2. APOMA, Walt Czajkowski (Voter Present)	13. Gage-Line, (Voter Absent)
3. Edmund Optics, Jay Nelson (Voter Present)	14. Gray Optics, (Voter Absent)
3. Edmund Optics, Nathan Carlie (Alternate Present)	15. Lockheed Martin MFC, (Voter Absent)
4. Gordon Boulton, Gordon Boulton (Voter Present)	16. M3 Measurement Solutions Inc., (Voter Absent)
5. Hal Johnson, Hal Johnson (Voter Present)	17. NIST, (Voter Absent)
6. Optimax SI, Patrick Augino (Voter Present)	18. Northrop Grumman (NGC), (Voter Absent)
6. Optimax SI, Andy Haefner (Alternate Present)	19. Optic Systems Group, (Voter Absent)
7. Ray Williamson Consult, R Williamson (Voter Present)	20. Research Electro-Optics, Inc. (REO), (Voter Absent)
8. Savvy Optics Corp, Dave Aikens (Voter Present)	21. Riyo LLC, (Voter Absent)
9. Triptar Lens Co, Inc., Allen Krisiloff (Voter Present)	22. Spica Technologies, Inc., (Voter Absent)
10. Ball Aerospace, (Voter Absent)	23. SPIE, (Voter Absent)
11. Blue Ridge Optics, (Voter Absent)	

Bold = Voting Member Present. Quorum threshold of >50% NOT achieved: 9 out of 23 voting members present. Only house-keeping business may be officially conducted.

Observers

1. <i>Thorlabs, Renee Pedrazzani (Observer Present)</i>

RECORDING SECRETARY

Allen K.

ADOPTION OF AGENDA

Added Gordon B's name to the Agenda as facilitator for most of the items. Motion by Dave A. 2nd by Hal J. Passed 100%.

APPROVAL OF MEETING MINUTES FROM 2017 JAN 29

Motion by Dave A. Second by Adam P. Passed 100%

ISSUES NOT EFFECTIVELY COVERED BY CURRENT SURFACE IMPERFECTION STANDARDS

Gordon B's presented two tables. One table is a comparison of sleeks as addressed in several standards. Only OP1.002-2017 addresses them, but has no particular specification. It suggests the use of a special note. The second table compares the treatment of area imperfections. MIL-PRF-13830B specifies the way an area imperfection shall be evaluated. OP1.002-2017 leaves it to a special note or performance in the final application. The ISO standards either fail to address the issue or categorizes area imperfections in terms of digs. Dave A. observed that grey areas are incompletely polished areas while haze and stain are the result of chemical reactions. There is rising concern throughout the industry about area imperfections.

Dave A. also noted that small edge chips are not effectively controlled in any of the standards, and that this is a problem for small optics. The same is true of dig density and tiny scratches and digs (less than 10-5) which are quite problematic for small optics.

Dave A. offered to red-line the current version of OP1.002 to address the issues noted during the discussion.

COMPARISON ARTIFACTS

Dave A. noted that there are fewer and fewer suppliers of comparison artifacts. Davidson, Brysen, and Jenoptik have exited the business. This could become problematic. Renee P. will investigate Thorlabs' interest in making them.

UPDATE ON SAVVY INSPECTOR (DAVE A.)

Automation has been added to the Savvy Inspector.

REPORT ON MACHINE VISION AT THE ISO (DAVE A.)

The ISO project to produce a machine vision standard for surface inspection has become a project to produce a technical report on the subject.

NEW BUSINESS

Eric Herman's poster that decodes and compares MIL and ISO specifications looks good. It is available on the OEOSC's website for free personal use. We can make special arrangements with SPIE for printing and distribution. Copies were printed by Optimax and distributed at an APOMA workshop in October.

GORDON B'S RESIGNATION

The Committee applauded Gordon's long tenure at the helm and noted his leadership in the development of OP1.002.

Gordon B. moved to recommend Dave A. as the new Chairman of the Committee. 2nd by Allen K. Passed 100%. The recommendation will go to the ASCOP chairman.

NEXT MEETING

Optifab 2019. Motion by Dave A. Second by Ray W. Passed 100%.

ADJOURNMENT AT 2:55 PM

Motion by Dave A. Second by Allen K. Passed 100%.