

Meeting Minutes

ASC-OP/TF7: Lasers

Sunday, February 2, 2020

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

CALL TO ORDER AT 10:03 AM PST

Michael Thomas, Chairman of TF7, called the meeting to order.

WELCOME AND INTRODUCTIONS

APOMA, Walt Czajkowski; Army Research Lab, John McElhenny; Coherent, Bruce Perilloux; Edmund Optics, Nathan Carlie; Edmund Optics, Jay Nelson; Edmund Optics (Japan), Satoshi Mukaeda; Excelitas Tech, Trey Turner; NIST, Leonard Hanssen; Northrop Grumman, Jonathan Arenberg; Northrop Grumman, Donna Howland; Optimax, Patrick Augino; Spica Tech, Michael Thomas; Triptar, Allen Krisiloff.

RECORDING SECRETARY

A. Krisiloff

ADOPTION OF AGENDA

Motion by A Krisiloff. Second by M. Thomas. Passed 100%

APPROVAL OF MEETING MINUTES FROM 2019 FEB 3

Motion by M. Thomas. Second by J. Arenberg. Passed 100%

GENERAL DISCUSSION ABOUT LASER DAMAGE STANDARD

Publication of papers and conversations at conferences such as the Boulder conference and at ISO meetings continues to generate interest in participation. J. Arenberg is organizing a round robin test of samples from several companies. Several testing labs will be needed to test a few dozen samples in a statistically relevant manner.

REVIEW OF LATEST DRAFT OF THE LASER DAMAGE STANDARD

We want to balance the needs of science with regard to technical relevance and the needs of commerce with regards to simplicity and cost-effectiveness. Software or an outline of the analytic algorithm should be part of the standard. There are concerns about liability if software code is incorporated into the standard. A set of check-problems could be included to give users a way to confirm their implementation of the algorithm. Our definition for "damage" needs to be explained. Right now we should concentrate on nanosecond pulses; CW might need additional consideration.

ROUND ROBIN

For the round robin, we need to define the testing regimen, for example, a flat-top beam is needed to correctly expose the samples. Several different spot sizes and fluence should be used, too. We will summarize results in a published paper. We need someone to coordinate the collection of samples and collate the results. Spica Tech can serve as one of the testing labs. Edmund Optics may have a damage test lab operational by the end of the year. J. Arenberg will draft a testing procedure for review.

NEXT MEETING

Webex by J. Arenberg in mid-year, if needed. Face-to-face meeting at Photonics West 2021. Motion by J. Arenberg. Second by N. Carlie. Passed 100%.

ADJOURNMENT

Adjourned at 12:15 pm. Motion by J. Arenberg. Second by M. Thomas. Passed 100%.