

Meeting Minutes (Draft 1)

ASC-OP/TF6: Infrared Materials

Thursday, May 24, 2018 11:00 am EDT

Webinar

CALL TO ORDER at 11:00 AM EDT

Adam Phenis, Chairman of TF6, called the meeting to order.

WELCOME AND INTRODUCTIONS

AMP, Adam Phenis (Member Rep)	Lockheed Martin, Boris Pinkhasov (Member Obs)
II-VI, Alan Hedges (Member Rep)	Lockheed Martin, Brittnee Mound (Member Obs)
Individual, Eric Herman (Member Rep)	Lockheed Martin, Steve Rentz (Member Obs)
Lockheed Martin, Dan Palmari (Mmbr Rep)	Lockheed Martin, Zdravko Obradovic (Mmbr Obs)
M3 Measurement, Erik Stover (Member Rep)	NGC, Chris Svec (Member Observer)
NGC, Donna Howland (Member Rep)	Individual, William Wolfe (Observer)
NIST, John Burnett (Member Rep)	Jenoptik, Hilmar Straube (Observer)
Triptar, Allen Krisiloff (Member Rep)	Photonic Sense, Christian Hell (Observer)
Viavi Solutions, Charles Kennemore (Member Rep)	PNNL, Amy Qiao (Observer)
	Schott USA, James Marro (Observer)

Quorum Not Achieved: 9 out of 22 members present (9/22 < 50%)

RECORDING SECRETARY

Allen Krisiloff, Secretary of ASC OP

ADOPTION OF AGENDA

Motion by Dan Palmari. Second by Eric Herman. Passed 100%

APPROVAL OF PREVIOUS MEETING'S MINUTES (April 20, 2016)

Motion by Eric Herman. Second by Allen Krisiloff. Passed 100%

REFRACTOMETER MEASUREMENTS UPDATE by John Burnett

Index data for Germanium from 3 microns to 14 microns that were presented last year showed clear improvement in accuracy and precision over previously published results. However, comprehensive error bars between 1.6 and 3 microns were not nearly as good. Our commercial monochromator's wavelength selection accuracy contributed more to the error budget in this range because of the shorter wavelength and because of the absorption lines.

We purchased a new monochromator and modified the drive mechanism by replacing the gears with a direct drive screw and linear encoder. The uncertainty in wavelength was reduced from 0.2 nanometers to 0.015 nanometers. Final index uncertainty was reduced by a factor of 2x.

We will re-measure the Germanium samples during the next few months and start on the ZnSe samples. Germanium results should be ready in August.

STANDARDS PROJECTS UPDATE by Allen Krisiloff

Spectral band standard will be put to ballot during the summer.

NEXT MEETING

SPIE's O+P in San Diego in August.

Motion by Erik Stover. Second by Donna Howland. 100% approved.

ADJOURNED at 11:50 am ET

Motion by Dan Palmari. Second by John Burnett. 100% approved.