

# Meeting Minutes (Draft 1)

## ASC-OP/TF6 – IR Materials and SPIE IR Materials Working Group

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Wednesday, April 20, 2016  
Calloway Room, Hilton Baltimore (SPIE DCS)

### **CALL TO ORDER at 8:18 am EDT**

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

### **WELCOME AND INTRODUCTIONS (Agenda Item 1)**

Dave Aikens, Savvy Optics	Leonard Hanssen, NIST
Erik Stover, M3	Dean Scribner, Northrop Grumman
Tom Petty, Northrop Grumman	Hilmar Straube, Jenoptik
Mark Durham, DRS Technologies	Daniel Hahn, Hellma Materials
Dawn Jennings, Photonic Sense	Andreas Zickler, Photonic Sense
Ian Murray, BAE	Allen Krisiloff, Triptar
Yann Guimond, Umicore	Nathan Carlie, Schott
John Burnett, NIST	

### **ADOPT AGENDA**

Motion by Dave A.; Second by Allen K.; 100% passed

### **APPROVE MINUTES FROM PREVIOUS MEETING (August 12, 2015)**

Motion by Dave A.; Second by Nathan C.; 100%

### **REFRACTOMETRY REPORT (John B.)**

John B. reviewed the details of the refractometer he uses and how he reduces systematic error. He is still measuring the Germanium samples. It is a very tedious process, and he is regularly interrupted by other priorities at NIST. Discussion followed.

Measurements are made through the middle of the sample prisms. Homogeneity is not measured directly. This study has been focused on assessing uniformity of index from sample to sample. Homogeneity can be studied later.

John favors the Sellmeier equation for fitting when it comes to a standard, but other candidates may be considered. Specific measurement wavelengths ought to be specified. When comparing results to other studies, it is important to note that many published indices are not measured but calculated.

### **STANDARDS PROJECTS (Allen K.)**

Ballots expected for Spectral Bands and for Sampling Protocol in early 2017.

### **OTHER TOPICS – GRIN MATERIALS**

Currently there is no clear pathway for the standardization of GRIN materials. Northrop Grumman has conducted some studies under DARPA. Results may not be published. Over the years, the Univ. of Rochester has conducted extensive studies on GRIN materials.

### **NEXT MEETING AT DCS ANAHEIM**

Motion by Dave A.; Second by Erik S.; 100%

### **ADJOURNED Closed 10:00 am EDT**

Motion by Allen K.; Second by Leonard H.; 100%