ANSI/OESC TAG to ISO/TC 172/SC 1 Annual Report for 2011

Prepared by TAG/SC 1 Leader: Dave Aikens

Number of Meetings Held during 2011: 1

Date: October 11, 2011

Location: Okinawa, Japan

Number of Meetings Scheduled for 2012: 1

Date: October 2012

Location: St. Gallen, Switzerland

List any significant accomplishments for ANSI/OEOSC TAG/SC 1 this year.

In 2011, SC1 published only one standard, ISO 14997:2011 which was a minor revision to bring this standard in alignment with the new notation standard for surface imperfections, ISO 10110-7. However at the same time, the committee has 17 active work items, many of which are quite substantial. Of these active projects, the US is leading six, and actively participating in another six. More important, perhaps, is that we are continuing to make progress on migrating ISO 10110 and its associated standards to be more applicable to the US optics industry. Of particular note is that the committee is willing to consider adopting parts of the American National Standard OP1.002 for surface imperfections into a new version of ISO 10110-7.

The most important standards projects under way at this time are:

ISO 10110-12/CD Aspheric surfaces. Amendment to add Forbes Q aspheres

ISO/PWI 10110-xx Material imperfections. New part to replace parts -2, -3, and -4 and reconcile with ISO 12123

ISO/PWI 10110-1 General. Major revision to expand notation for system drawings, merge with -10

ISO/NP xx New standard for specifying surface form measurements made by wavefront sensing

ISO/NP 10110-xx New part for the drawing standard for freeform optical surface descriptions

ISO/PWI 10110-6 Centring Tolerances. Major revision to accommodate freeform optics

ISO/NP 10110-5 Surface Forms. Major revision to allow asymmetric tolerances for freeform optics

In the coming year, US led projects are expected to result in five new draft standards at the CD or DIS level, and two new published standards.

List any problems encountered by the ANSI/OEOSC TAG/SC 1 during the year

We have struggled to accomplish our ISO related objectives due to a lack of experts able to devote the time and energy to supporting standards. Because SC1 (and SC3 as well) is not market-led, like many standards committees, but develops fundamental standards, it is very difficult to convince businesses they will benefit from supporting work in this area. Specifically, we continue to lack sufficient representation in the areas of electronic data transfer, environmental specifications and testing, and to a lesser extent optical metrology.