Annual Report of an ANSI/OEOSC TAG to ISO TC172 Subcommittee Covering the Year 2016

TAG Subcommittee Number and Name: SC3 Optical Materials and Components

TAG Subcommittee Leader: Dr. Leonard Hanssen

ISO Meetings Held During 2016
Subcommittee meetings usually include break-out meetings of working groups and project groups. List the top-level meeting; do not list the break-out meetings.

<table>
<thead>
<tr>
<th>Subcommittee, Working, or Project Group Meeting Name</th>
<th>Date(s)</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>SC3 Optical Materials / WG1 Raw Optical Glass</td>
<td>Oct. 11, 2016</td>
<td>Hotel Minerva, Bucharest, Romania</td>
</tr>
<tr>
<td>SC3 Optical Materials / WG3 Characterization of IR Materials</td>
<td>Oct. 12, 2016</td>
<td>Hotel Minerva, Bucharest, Romania</td>
</tr>
<tr>
<td>Joint: SC3 Optical Materials / WG1 Raw Optical Glass and SC1 Fundamental Standards / WG2 Preparation of drawings for optical elements and systems</td>
<td>Oct. 12, 2016</td>
<td>Hotel Minerva, Bucharest, Romania</td>
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**ISO Meetings Scheduled for 2017**

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<tr>
<td>SC3 <em>Optical Materials</em></td>
<td>Oct. 13-15, 2017</td>
<td>Tokyo, Japan</td>
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</table>

**Significant Accomplishments in 2016**

**ISO Subcommittee**

Due to an increased workload of standards development, two of SC3’s Working Groups (WG1 and WG3), joined the meeting of the full SC1 in Bucharest, Romania adding to SC3’s typical bi-annual meeting cycle, which will be continued next year in Tokyo, Japan.

During 2016 three Committee Drafts (CDs) were recommended for revision (CD2s):
ISO/CD 19740, *Optics and photonics – Optical materials and components – Test method for homogeneity of infrared optical materials*
ISO/CD 19741, *Optics and photonics – Optical materials and components – Test method for striae of infrared optical materials*
ISO/CD 19742, *Optics and photonics – Optical materials and components – Test method for impurities of infrared optical materials*

During 2016 one Working Draft Item (WD) was recommended to become a Committee Draft (CD):
ISO WD 21575 "Optics and photonics - Test method for water resistance of optical glass by powder method"

During 2016 one Approved Work Items (AWI) became a Working Draft (WD):
ISO/AWI 21395-1 *Optics and photonics - Test method for refractive index of optical glasses - Part 1: Minimum deviation method*

During 2016 two Committee Drafts Items (CDs) were recommended to become Draft International Standards (DISs):
ISO/CD 12123: 2010 (ed. 2), *Optical and photonics – Specifications of raw optical glass*
ISO/CD 10110-18 *Optics and photonics - Preparation of drawings for optical elements and systems - Part 18: Material Imperfections - Stress birefringence, bubbles and inclusions, and homogeneity and striae*

One Committee Drafts remains under review (CDs):
At the end of 2016, four Committee Drafts (CDs) were in the voting process for Draft International Standards (DISs):

ISO/CD 9211-8: 2010, *Optics and photonics – Optical coatings – Minimum requirements for optical coatings — Part 8: Coatings used for laser optics*

Seven ISO standards under systematic review were confirmed for renewal (SRs):

ISO 11382:2010, *Optics and photonics — Optical materials and components — Characterization of optical materials used in the infrared spectral range from 0,78 μm to 25 μm*

**US TAG Subcommittee**

The US had 6 participants attend the Bucharest SC3 WG meetings, including the initial participation by Paul Murphy of QED Technologies.

**Significant Problems Encountered in 2016**

**ISO Subcommittee**

No current issues were encountered.

**US TAG Subcommittee**

No new problems were encountered.
**Projections for 2017**

**ISO Subcommittee**
Continued progress on the standards in process.

**TAG Subcommittee**
Continued active participation by the US TAG members in the process of the current standards under development, including as project leaders.