

# ISO/TC 172 2008 Annual Report of Subcommittees

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## TC 172, Optics and Photonics, 2008 Activity

The draft of ISO/DIS 23584-2 “Optics and photonics - Specification of reference dictionary - Part 2: Classes' and properties' definitions” has been attributed to ISO/TC 172 and its subcommittees. The subcommittees are being asked if they want to become responsible for portions of the dictionary.

The voting results for circulation of this draft as a DIS are as follows:

Yes

- Australia (SA)
- Austria (ON)
- China (SAC)
- Germany (DIN)
- Ireland (NSAI)
- Italy (UNI)
- Kenya (KEBS)
- Korea, Republic of (KATS)
- Romania (ASRO)
- Russian Federation (GOST R)
- Switzerland (SNV)
- United Kingdom (BSI)

No

- France (AFNOR)
- Japan (JISC)
- USA (ANSI)

abstain

- Canada (SCC)
- Mexico (DGN)
- Sweden (SIS)

The US negative vote was cast because it is doubtful that the US optics industry would use this database.

The International Organization of Legal Metrology (OIML) asked to establish a 2-way Category A liaison with ISO/TC 172.

ISO/TC 172/SC 3 and ISO/TC 172/SC 7 upgraded their existing Category B Liaison with OIML to a 2-way Category A Liaison; and Ian Dunmill was selected the liaison representative from the OIML office to the Technical Committee ISO/TC 172,

**ISO/TC172/SC 1 Fundamental Standards**  
**US TAG Annual Report for 2008**  
**Prepared by**  
**David M. Aikens, SC1 US Delegation Leader**  
**General Comments**

SC1 and three of its four active working groups met in Bucharest on May 21<sup>st</sup> to 23<sup>rd</sup>, 2008. Representing the US were David Aikens of Savvy Optics, and Allen Krisiloff of Triptar Lens. The US delegation met by conference call two weeks prior to the meeting, and the day before the meeting, to review the comments that had been received and establish clear guidelines on the US positions and our presentation plans for the ISO meeting. This was very effective, and will be repeated before the next ISO meeting as well.

Of the eight key active projects in WG's 1 and 2 (see below), the USA is now well represented in six, and is leading two of them. This is a significant improvement over the past few years.

One important structural change is that Japan has replaced France as the convener of WG2 (drawings). Akira Kikuchi will now take over administration of the WG. This is viewed as a positive result for the USA.

**Issues and Concerns**

The USA continues to lack representation at WG4. Specifically, the USA needs one or more delegates to serve as subject matter experts in information databases and data transfer. The reference database, managed from WG4, continues to lack an American presence, to our peril. All attempts to date of identifying a volunteer for this work have been unsuccessful.

**Results of Bucharest Meeting**

**Members Attending one or more WG's and SC1:**

**Secretariat (All from Germany)**

Lenhardt, Karl (SC1 convener)  
Leitner, Elisabeth (SC 1 secretary)  
Mika, Sabine (Asst secretary)

**USA**

Aikens, David (HOD)	WG1 and WG2
Krisiloff, Allen	WG1 and WG2

**Switzerland**

Heimbeck, Hans-Jörg (HOD, convener WG1)	WG1
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**France**

Bray, Michael (HOD)	WG2
Jeanmichel, Claude	WG4
Leroy, Jean-Christophe	WG4
Testart, Ivan	WG4

**Germany**

Litschel, Reinhold (HOD)	WG1 and WG2
Sänger, Thomas	WG4
Tippner, Uwe	WG4
Tomae, Manfred	WG1 and WG2

### **Japan**

Shibuya, Masato (HOD)	WG1 and WG2
Saito, Michiaki	WG4
Kikuchi, Akira (convener, WG2)	WG1 and WG2
Yoshii, Minoru	WG1 and WG2
Yamamoto, Kimiaki	WG4

### **Romania**

Ursu, Danut (HOD)	WG1 and WG2
Apostol, Dan	WG1
Granciu, Dana	WG1 and WG2
Honciuc, Gheorghe	WG4
Miclos, Sorin	WG4
Sorohan, Georgeta	WG1 and WG2

### **United Kingdom**

Williams, Tom (HOD)	WG1 and WG2
Wood, Roger	WG1 and WG2
Wormell, Prudence (convenor, WG4)	WG4

### **P-members not represented at this meeting:**

Australia, Austria, China, Korea, and Russian Federation

### **Changes in participation in SC1:**

Belgium has withdrawn, Mexico has joined as an O-member.

### **Key projects within SC1 WG1**

PWI 14999-5 “Interferometric measurements... Test methods....”

This PWI will become a NWP and requires significant revision to become a useful standard. The USA will be represented by Dr. Chris Evans in the future.

NWI TBD “Wavefront sensors measurements”

This NWI will be led by Tom Williams until a UK representative can be identified as project leader. The USA will be represented by Dan Neal in this effort.

PWI TBD “Measurement standard for surface texture”

This PWI requires further work. Hans-Jorg Heimbeck will continue to lead this effort. The USA will be represented by Peter Takacs in this effort.

### **Key projects within SC1 WG2**

ISO/CD 10110-8 “... Part 8: Surface texture”

ISO 10110-8 requires a significant amount of work to become current with other pertinent ISO standards, and to meet the needs of the optics industry in the areas of surface slope specifications and

mid-spatial frequency ripple. The revision of this standard is being led by Dave Aikens of the USA. Akira Kikuchi of Japan will assist with the effort. As of this writing, the document is approved for CD, and will be submitted as a DIS in March.

ISO 10110-2, -3, and -4 Materials imperfections

These standards will be combined and reconciled with ISO 12123, and issued as ISO 10110-18. Allen Krisiloff of the USA will lead this effort, and has been asked to prepare a NWI draft for such a standard.

ISO 10110-6 “...Part 6: Centring Tolerance”

This standard required a revision. Reinhold Litschel of Germany will lead this effort. The USA will be represented by Ray Williamson. The USA will likely offer to take over project leadership at the next meeting in Berlin.

ISO 10110-7 and -17 “...Part 7: Surface imperfections”, and “...Part 17: Laser Damage Threshold”

These standards require a revision. Project leaders will be Reinhold Litschel and Roger Wood, respectively. The USA representative is TBD; Dave Aikens will serve as representative in the interim.

**Key projects within SC1 WG4**

ISO/DIS 25297-1 “... NODIF information model”

The document requires significant work before it can be submitted as an FDIS. Specifically, the organization of the standard requires more information on how to use the document, as well as the relationship between parts 1 and 2 of the standard, and the STEP format needs to be reviewed by TC184/SC4 for accuracy. THERE IS NO USA REPRESENTATION IN THIS EFFORT.

ISO/NP 25297-2 “... mapping to classes and properties in ISO 23584”

This project seems to be stalled, and requires extensive, informed technical effort and participation. We do not believe any significant progress will be made until a new member body steps up to lead the effort. THERE IS NO USA REPRESENTATION IN THIS EFFORT.

ISO/DIS 23584-1.2 “Specification of reference dictionary- Part 1: General overview on organization and structure”, and ISO/CD 23584-2 “Specification of reference dictionary- Part 2: Classes and properties definitions”

These extremely important standards continue to proceed without USA representation. They are to be reconciled with the ISO Concept Database, which requires a serious re-write of part 1. Thomas Sanger of Germany has taken on re-writing the standards, as well as referring them to the Secretariat, for reconciliation with the Concept Database, and to contribute 23584-1 to the TMB ahg “Standards as Databases” initiative.

## ISO/TC 172/SC 3 Optical Materials and Components

### US TAG Annual Report for 2008

Prepared by

**Gordon Boulton, SC 3 US Delegation Leader**

There were no ISO or US TAG SC 3 meetings in 2008. Activities were carried out via email correspondence.

#### WG 1, Raw Optical Glass

The US provided editorial comments to DIS 12123, *Specification of raw optical glass*, in September 2008.

WG 1 members agreed to a NWIP to conduct a round robin test of a method for classification of striae in optical glass. If the round robin is successful the PWI will be proposed as an AWI. The US provided technical inputs to the NWIP and agreed to participate in developing the WD (working draft), but not to participate in the actual round robin. Similarly, WG 1 members agreed to a NWIP to conduct a round robin test pertaining to a test method and classification for the climate resistance of optical glass. The US provided technical inputs to the NWIP and agreed to participate in developing the WD (working draft), but not to participate in the actual round robin.

#### WG 2, Coatings

WG 2, Coatings, has been revising three of the four parts of ISO 9211.

9211-1, *Definitions*, advanced through the CD stage and the DIS will be voted on in March 2009.

9211-2, *Optical properties*, advanced through the CD stage and the DIS will be voted on in April 2009.

The US drafted an amendment to 9211-4, *Specific test methods*, to correct an omission pertaining to the specification of the tape used for adhesion testing. Minor editorial issues were addressed at the same. It will be voted on in April 2009.

9211-3:2008, *Environmental durability*, was published.

#### WG 3, Characterization of IR Materials

The US (primarily Leonard Hanssen of NIST) provided extensive comments to CD 11382, *Characterization of optical materials used in the infrared spectral range from 0.78  $\mu\text{m}$  to 25  $\mu\text{m}$* , in December 2008, in its affirmative vote to advance to the DIS stage.

The next meeting of SC 3 and its working groups is planned for Berlin in the 4<sup>th</sup> quarter of CY 2009.

### ISO/TC 172/SC 4 Telescopic Systems

There were no meetings in 2008. The last meeting was held in Berlin in October 2007. The next meeting will be in Germany in the fall of 2009.

Three Ballots were processed during 2008.

- Revision of ISO 14490-3:2004 Optics and optical instruments - Test methods for telescopic systems - Part 3: Test methods for telescopic sights. The US position was that this project is justified.
- ISO/FDIS 14132-5: Optics and photonics — Vocabulary for telescopic systems — Part 5: Terms for night vision devices. The US agreed with the technical content of the draft as presented.
- ISO/CD 14490-8.2: Optics and photonics — Test methods for telescopic systems — Part 8: Test methods for night vision devices. The US agreed to the circulation of this draft as a DIS.

**ISO/TC 172/SC 5 Microscopy and Endoscopes**





## HEAD OF DELEGATION (HoD) REPORT

U.S. Member Body of the  
International Organization for  
Standardization (ISO)



U.S. National Committee of the  
International Electrotechnical  
Commission (IEC)

Please return this report within one month of the completion of the international meeting and submit it to the appropriate ANSI Department as follows:

ISO

USNC

[ISOT@ansi.org](mailto:ISOT@ansi.org)

[USNC@ansi.org](mailto:USNC@ansi.org)

HoD Reports can be used for a variety of purposes. For example:

- To report results of a TC/SC meeting to the related TAG
- To publicize the work of the TC/SC to the related US constituency via the ANSI Reporter, ANSI On-line, USNC News and Notes, or other media
- To suggest areas for possible development of featured articles
- To address specific challenges and concerns that the HoD may bring to the attention of related ANSI and/or USNC/IEC management

**PLEASE REMEMBER:** Your HoD Report is NOT filed as a confidential, password protected document and, therefore, may have broad, unintended distribution. Keep this in mind when preparing the Report and, if appropriate, use a more secure form of correspondence to bring attention to sensitive issues.

Completed by:

Head of Delegation: (Please print)	Lee Shuett
Telephone/Telefax:	631-547-8546
Email:	lshuett@nikon.net
Date:	2009-1-12

Meeting of TC172/SC5 (Designation/Title)
Date(s) September 22-26, 2008

**Location : London, England**

**1. MEETING ATTENDANCE**

Please indicate, if available, both the number of delegates and the countries represented at the Meeting:

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<b>Country, Function</b>	<b>Name</b>	<b>1<sup>st</sup> Plenary</b>	<b>2<sup>nd</sup> Plenary</b>
<b>Chairman</b>	Thomas Bocher	✓	✓
<b>Secretary</b>	Ralf Baur	✓	✓
<b>P-Members</b>			
<b>China (SAC)</b>			
Head of delegation	Songlin Zhuang	✓	
	Huixian Zhang	✓	
	Qionghui Feng	✓	
	Qian Xiao	✓	✓
	Tian Weijian	✓	
	Yan Qiunglai	✓	
	Ma Li	✓	
<b>Germany (DIN)</b>			
Head of delegation	Peter Euteneuer	✓	✓
	Andreas Berg	✓	✓
	Harald Schadwinkel	✓	✓
	Rolf Wartmann	✓	✓
<b>Japan (JISC)</b>			
Head of delegation	Yoshiaki Horikawa	✓	✓
	Akira Shiga	✓	✓
	Chikara Nagano	✓	✓
	Kimiaki Yamamoto	✓	✓
	Masaaki Yamagishi	✓	✓
	Takao Shiihashi	✓	✓
	Yutaka Otani	✓	✓
<b>SWITZERLAND (SNV)</b>			
Head of delegation (mandated and authorized by SNV)	Heinrich Ulrich	✓	✓
<b>UNITED KINGDOM (BSI)</b>			
Head of delegation	Richard Stevens	✓	✓
<b>USA (ANSI)</b>			
Head of delegation	Lee Shuett	✓	✓
	Gerd Weigert	✓	

Please comment on significant or unusual attendance issues (e.g., new member bodies, regular

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members not in attendance, new Chairman or Secretariat, non-accredited U.S. persons, etc.).

None

**2. MEETING OBSERVATIONS**

**2a. Overall, how well did the U.S. meet its objectives on policy or technical matters?**

- Very Successful -- U.S. positions were accepted in whole**  
 **Successful -- Compromises were reached which are acceptable to the U.S.**  
 **Not Successful -- U.S. positions were not accepted**

**2b. Please comment on any issues of significance which might have an impact upon materially affected or interested U.S. parties.**

*WG9 revision of ISO 8255-1 and 8255-2 are currently undergoing WG9 revisions. The final revisions may impact manufacturers of microscope cover glass, manufacturing standards, and labeling in the global market. NOTE: the revisions proposed by WG9 resolve differences with the existing ISO standard language and historic common practice and references in literature on in cover glass nomenclature and dimensions.*

**2c. Was there any discussion for which the United States was unprepared? (e.g., late document distribution, addition of new items, etc.)**

NONE □□□□□

**2d. Did the U.S. extend an offer to assume any new TC/SC Secretariat or management positions?**

- Yes**                       **No**  
 (If yes, please indicate which position and provide Officer contact information.)

**2e. Did the U.S. extend an offer to host any future TC/SC meetings?**

- Yes**                       **No**  
 If yes, please identify:  
 □□□□□

**2f. Were any new issues raised which require, or might involve, coordination with other U.S. bodies? (Include coordination items with other U.S. TAGs, ANSI policy-level committees (AIF, AIC), the USNC TMC and/or Council, etc.)**

- Yes**                       **No**  
 If yes, please identify:

2g.	Did the U.S. put forth/agree to put forth any New Work Items?
<input type="checkbox"/>	Yes
<input checked="" type="checkbox"/>	No
	If yes, please identify: <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
2h.	Was there any evidence of "bloc" or "alliance" voting by participating countries?
<input type="checkbox"/>	Yes
<input checked="" type="checkbox"/>	No
	If yes, please identify any significant issues or concerns:
2i.	Are work items in the TC or SC being affected by related work in regional standards bodies (e.g., CEN, CENELEC, ETSI, PASC, NAFTA, COPANT, etc.)?
<input type="checkbox"/>	Yes
<input checked="" type="checkbox"/>	No
<input type="checkbox"/>	No related regional activity
	If yes, please explain: <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
2j.	Were any issues raised which relate to or impact existing U.S. regulatory matters?
<input type="checkbox"/>	Yes
<input checked="" type="checkbox"/>	No
	If yes, please explain: <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
2k.	Please identify any IMMEDIATE U.S. TAG actions which will be required as a result of this international meeting.
	<i>Contact manufacturers of coverglass materials used in light microscopy to give input in the revision of ISO 8255-2:1997: "Cover glasses..."</i>
2l.	Please identify specific decisions which the U.S. delegation believes to be noteworthy for publication, publicity and/or development of a future article. If there are any, would you be willing to help develop an article for publication?
	None that I know of.
<input type="checkbox"/>	Yes
<input type="checkbox"/>	No
2m.	What might be done to further promote the ANSI Federation's goal of "global standards that reflect U.S. interests?" (Consider such issues as how might the U.S. further promote acceptance of related American National Standards in international and, where applicable, regional fora?)
	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <i>US industry wide participation in standards activities must become much more widespread. As an OEOSC board member with oversight on SC1,3,4,5,6 7 and 9, it is difficult to get even modest participation from manufacturers, professional organizations and individuals unless off shore standards threaten US exports or interests directly. .</i>

<b>2n. Has this report been provided to your TAG Administrator for US TAG distribution?</b>
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>2o. Other Comments</b>
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <i>I am honored to be able to represent ANSI in this capacity and work diligently to insure that US interests regarding microscope and endoscope standards are considered in every SC5 activity.</i>

Jan 2009

**MINUTES OF LONDON ISO/TC172/SC5 MEETING:**

**First Plenary Session**

**Monday, September 22, 2008: 09:00**

**1 Opening of the meeting and roll call of delegates**

The chairman welcomed the delegations present to this 22nd meeting of ISO/TC 172/SC 5. All participants were kindly asked to briefly introduce themselves. The heads of delegation identified themselves as the leader of their delegation. All delegates gave some more detailed information about their person and their affiliations and put their names on a list. The chairman thanked the hosts and organizers for the perfect arrangement of the meeting session.

**2 Adoption of the agenda**  
**ISO/TC 172/SC 5 N 416**

The agenda was unanimously adopted as presented in N 440.

Resolution	London
128/2008	

**3 Appointment of the drafting committee**

Mr. Yamagishi, all heads of delegations and the chairman kindly agreed to assist the secretary in preparing and finalizing the report and the resolutions.

Resolution	London
129/2008	

**4 Report of the last meeting**  
**ISO/TC 172/SC 5 N 409, N 411**

The report of the last meeting was accepted as in N 435 already on 2008-01-31. There were no requests for amendments before and at the meeting.

**5 Report of the Secretariat**  
**ISO/TC 172/SC 5 N 453**

Mr. Baur pointed to document N 453 which was circulated in September 2008 and which provides a written report of the secretariat.

He explained that part of this report was specifically prepared as a report to this Subcommittee meeting. This part provides e. g. information on changes in committee participation, official liaisons

and progress of work since the last meeting in Xiamen in October 2007.

Items 9 to 13 of the agenda featured an overview on items for consideration by the working groups for which a decision regarding the further processing should be taken at the second plenary later that week. Working groups were reminded to take care that these items be addressed in their meeting and propose a conclusion to the second plenary meeting. Specific mention was made of the task for all WGs to review and, where necessary, update the target dates for their projects.

Resolution	London
130/2008	

## 6 Technical work

### 6.1 Three resp. five-years-revisions

The secretary informed the attendees about the voting of the five systematic reviews. Four of them were voted "confirmation" unanimously by the P-member countries and are therewith automatically registered as confirmed. In detail these are ISO 8600-1:2005 (three-year-review), ISO 8600-5:2005 (three-year-review), ISO 8600-6:2005 (three-year-review), ISO 15362:1998 (five-year-review). However, the SC has endorsed this written ballot procedure by resolutions at this meeting.

Resolutions	London	131/2008,	132/2008,	134/2008,	135/2008
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The remaining standard (ISO 9345-2:2003, five-year-review) received in majority votes for a confirmation, but ANSI voted for correction. After discussion of the accompanying (and only) comment, Mr. Shuett has withdrawn this comment because it was not applicable to this standard. The Subcommittee decided to confirm ISO 9345-2:2003.

Resolution	London
133/2008	

The Japanese delegation reported that this standard is adopted in Japan differing from the original ISO standard. The differences are only in Annex A (informative) and were discussed. Result was, that still none of the delegations favoured a revision.

### 6.2 Items to be addressed by the WGs and AHGs (e.g. nomination of experts)

The meeting schedule of the WGs and AHGs was examined with a special view to specific items on the agendas and target dates.

WG 9 was forcefully reminded that project ISO/CD 19012-2 is in "critical" status and in danger of getting deleted from the SC 5 work programme next month due to time violation. WG 9 was urged to deliver a manuscript for DIS shortly after the meeting.

The chairman informed that still not all countries participate in the work of the two AHGs and asked for at least one attending delegate per country.

The following indented text is from the last report, but remains applicable, and shall remind the delegations about their duties concerning ISO Global Directory and Livelink access.

The secretariat forcefully reminded the delegations to check the current situation with their respective nominated experts in ISO Global Directory (for access to livelink). Each delegation urgently was requested to make any necessary changes via their officer in their national standards body. Some of the mailing list are quite outdated and therefore not useful for documents distribution any more.

Delegations were asked to fix the mailing lists and livelink accesses with their officers in the national standard bodies for the SC and all WGs by the end of this year.

Action: All delegations

## 7 Closure of the first plenary session

The chairman thanked all the delegates for contributing and closed the first plenary session.

## Second Plenary Session

Friday, 26 September 2008: 09:00

## 8 Opening of the second plenary session

The chairman welcomed the delegates to the second plenary session which is mainly dedicated to the confirmation of results of the week's meetings.

## 9 WG 6 "Endoscopes"

Report on the working group meeting and confirmation of results

Yutaka Otani gave a verbal report on the WG 6 meeting in London (a written report is available as a separate WG 6 document). The following conclusions and recommendations by the WG were adopted by the Subcommittee:

NWIP for the revision of ISO 8600-1:2005, Optics and optical instruments -- Medical endoscopes and certain accessories -- Part 1 General requirements:

On the recommendation of WG 6, the Subcommittee decided to circulate a New Work Item Proposal. The proposal will be for a revision of ISO 8600-1:2005. It will be based on the conclusions of WG 6.

Project leader: Ogasawara

Target date for circulation of NWIP: January 2009

Resolution	London
136/2008	

NWIP for a new standard for "Requirements for medical endoscopes of water resistant type":

On the recommendation of WG 6, the Subcommittee decided to circulate a New Work Item Proposal. This new standard shall be registered under the standards number ISO 8600-7.

Project leader: Ogasawara

Target date for circulation of NWIP: January 2009

Resolution	London
137/2008	

The Subcommittee followed the recommendation of WG 6 to continue the following work item on working group level rather than to upgrade them to active work item:

PWI *Terms and definitions of endotherapy devices (flexible & rigid)*



Project leader: Matsushita

Resolution 138/2008	London
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The Subcommittee thankfully supported Dr. David Barlow's acceptance of the liaison role to IEC/SC 62 D.

Resolution 139/2008	London
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**10 WG 3 "Terms and definitions"**

Report on the working group meeting and confirmation of results

**Lee Shuett gave a verbal report on the WG 3 meeting in London (a written report is available as a separate WG 3 document). The following conclusions and recommendations by the WG were adopted by the Subcommittee:**

Revision of ISO 8039:1997, "Magnification", draft document and New work item proposal:  
It was decided not to recommend to SC 5 to launch a NWIP and to evaluate the progress at the next meeting. If progress is sufficient, then the convenor and secretary shall decide and take advantage of the ISO time frames. The secretary reminded the participants to check the report of WG 3 in order to finish the tasks in due time.

Project leader: Shuett

Resolution 140/2008	London
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**11 WG 9 "Optical performance of microscope components"**

Report on the working group meeting and confirmation of results

Kimiaki Yamamoto gave a verbal report on the WG 9 meeting in London (a written report is available as a separate WG 9 document). The following conclusions and recommendations by the WG were adopted by the Subcommittee:

Submission of ISO/CD 19012-2 *Optics and photonics - Designation of microscope objectives – Part 2: Chromatic correction* as a Draft International Standard DIS:

On the recommendation of WG 9, the Subcommittee decided to release ISO/CD 19012-2 as a Draft International Standard.

Project leader: Yamamoto

Latest submission of revised draft to ISO Central Secretariat: 2008-10-27

Resolution 141/2008	London
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Revision of ISO 8038-1 and ISO 8038-2:1997 *Screw threads for objectives and related nosepieces*

Circulation of Committee Draft ISO/CD 8038:

On the recommendation of WG 9, the Subcommittee resolved to circulate a Committee Draft for work item ISO/NP 8038. This new standard shall replace the previous standards Part 1 and Part 2 in a single standard.

Project leader: Horikawa

Resolution	London
142/2008	

Revision of ISO 9344, *Graticules*, Circulation of Committee Draft ISO/CD 9344:  
On the recommendation of WG 9, the Subcommittee resolved to circulate a Committee Draft for work item ISO/NP 9344.

Project leader: Horikawa

Resolution	London
143/2008	

Revision of ISO 8255-1 *Optics and photonics – Microscopes – Cover glasses – Part 1: Dimensional tolerances, thickness and optical properties*, Circulation of Committee Draft ISO/CD 8255-1:  
On the recommendation of WG 9, the Subcommittee resolved to circulate a Committee Draft for work item ISO/NP 8255-1.

Project leader: Schadwinkel

Resolution	London
144/2008	

Revision of ISO 8255-1 *Optics and photonics – Microscopes – Cover glasses – Part 1: Dimensional tolerances, thickness and optical properties*, Merger with ISO 8255-2, Resolution 102/2006:  
On the recommendation of WG 9, the Subcommittee resolved to keep both ISO 8255-1 and ISO 8255-2 as separate standards. They shall not be merged. Status of ISO 8255-2: confirmed in 2007 by Resolution 114/2007.

Resolution	London
145/2008	

New project ISO 19012-3 *Optics and photonics - Designation of microscope objectives – Part 3: Spectral transmission of objectives*:

SC 5 agrees that Japanese delegation will finalize the new proposal for draft ISO 19012-3 draft by end of 2008. The draft will be circulated for comment which will be due by end of February 2009.

Resolution	London
146/2008	

Revision of ISO 8578 *Marking of objectives and eyepieces*:

SC 5 agrees that the WG 9 convenor shall collect comments from WG 9 members regarding the existing German proposal. The due date for these comments is end of 2008. The German NC will incorporate these comments into the draft. Additionally, the German NC will incorporate modifications to include marking for spectral transmission, based on the Japanese proposal for draft ISO 19012-3. The German NC will then make a new proposal before 2009-05-31. Discussion concerning this draft will be scheduled for the next WG 9 meeting.

Resolution	London
147/2008	

WG 9 also forwarded the request to add one term to the Vocabulary standard ISO 10934-1. After discussion it was decided not launch a full revision of ISO 10934-1 in order to include just one single term. Furthermore it was decided, that WG 3 shall start a collection of items for a future revision of ISO 10934-1. The secretary volunteered to take care about this and to prepare a list for the next WG 3 meeting.

Action: Secretary

**12 AHG 1 "Basic requirements for microscopes"**

Report on activities

Thomas Bocher gave a verbal report on the AHG 1 meeting in London (a written report is available as a separate SC 5 document). SC 5 agrees that more discussion and input from all member delegations concerning the structure, the requirements and the parameters of this new topic is appreciated. SC 5 allows AHG 1 to continue and, if necessary, to convene again at the next SC 5 meeting.

Resolution	London
148/2008	

**13 AHG 2 "Advanced methods of light microscopy"**

Report on activities

Lee Shuett gave a verbal report on the AHG 2 meeting in London (a written report is available as a separate SC 5 document). SC 5 agrees that work on this project shall be put in stand-by status in consideration of the rapid pace of innovation in advanced fluorescence microscopes. Further, it is agreed to revisit this subject on an annual basis (at the occasion of the SC 5 plenary) and investigate the need for taking up the work again.

Resolution	London
149/2008	

After all WGs gave their reports, the chairman thanked the conveners and secretariats for their work during the last reporting period.

**14 Any other business**

**Report of liaison contact to IEC/SC 62D MT 16 "Electrical equipment in medical practice" (David Barlow)**

Mr. Otani reported about the nomination of David Barlow as new liaison officer (see item 9 and Resolution 139/2008). Details can be obtained from the WG 6 report.

**ISO 10936-2:2001 "Operation microscopes – Part 2: Light hazard from operation microscopes used in ocular surgery"**

The secretary reported about the current status of that draft which is hosted by SC 7. The DIS voting ended recently on 2008-08-25 with a negative result. It received five pages of comments, Germany, Japan and UK voted against the draft. SC 7/WG 6 is now tasked to resolve on the comments and to forward a new DIS manuscript. The secretary will report news at the next meeting.

Document N xxx

**15 Approval of resolutions**

The draft resolutions prepared by the drafting committee were displayed on screen during the meeting and the meeting carefully reviewed all of them. Adjustments or additions were incorporated, where necessary. All resolutions prepared during the meeting were unanimously adopted and approved by all delegations present and are attached to this report.

**16 Requirements concerning a subsequent meeting**

The secretary reported about the possibility to meet in the first week of November 2009 (November 2<sup>nd</sup> to 6<sup>th</sup>) in Berlin in conjunction with TC 172, SC 1 and SC 3 and maybe SC 9. Currently it is planned that SC 1/WG 4 (Reference dictionary) will meet on Tuesday, 3<sup>rd</sup> November.

Mr. Yamamoto reported about serious time conflicts with the first week in November. He shall attend the SC 1 plenary sessions and WG 4. That would cause troubles with placing the WG 9 meeting into the SC 5 schedule. Additionally, it was not seen as advantageous that the SC 5 session is split into pieces, because the majority of delegates may not attend the SC 1/WG 4 meeting. Further, a number of important SC 5 projects needs attention as early as possible and therefore the meeting shall be scheduled as early as possible.

Taking all the above into account, the next meeting date was set to September, 14 to 18 (BW 38). As venue Munich/Germany was selected. Carl Zeiss kindly volunteered to sponsor a social event.

After the secretary recommended to have a two year plan for meetings, the Japanese delegation kindly volunteered to host the 2010 meeting in autumn. Kyoto was accepted from all delegations as the venue.

Resolution	London
150/2008	

**17 Closure of the meeting**

The chairman, Thomas Bocher, thanked the Conveners and project leaders, the secretary Ralf Baur and all the experts and delegates for their work and the excellent cooperation and preparation of and during the London meeting. Special thanks went to Richard Stevens for hosting and to Paul Stevens for organizing the outstanding social event, as well as to Sue Barden for doing all the preparations and for organizing.

**ISO/TC 172/SC 6, Geodetic and Surveying Instruments, 2008 Annual Report**

The US was not represented at the 14th Meeting of ISO/TC 172/SC 6, which was held in Munich, Germany May 23 –24, 2008.

There were five documents up for reaffirmation.

- ISO/DIS 17123-1, Optics and optical instruments -- Field procedures for testing geodetic and surveying instruments -- Part 1: Theory, specifies field procedures to be adopted when determining and evaluating the uncertainty of measurement results obtained by geodetic instruments and their ancillary equipment when used in building and surveying measuring tasks.
- ISO 17123-6:2003 Optics and optical instruments — Field procedures for testing geodetic and surveying instruments — Part 6: Rotating , specifies field procedures to be adopted when determining and evaluating the precision (repeatability) of rotating lasers and their ancillary equipment when used in building and surveying measurements for leveling tasks.

- ISO 12858-3:2005, Optics and optical instruments — Ancillary devices for geodetic instruments — Part 3: Tribrachs, specifies the most important requirements of tribrachs used in geodesy for the connection of the instrument's body with its base.
- ISO 17123-5:2005, Optics and optical instruments — Field procedures for testing geodetic and surveying instruments — Part 5: Electronic tacheometers
- ISO 17123-7:2005, Optics and optical instruments — Field procedures for testing geodetic and surveying instruments — Part 7: Optical plumbing instruments

The 15th Conference of SC6 will be held in Valencia, Spain April, 22 – 23, 2009.

January 13, 2008

**ISO/TC 172/SC 7 - Ophthalmic Optics and Instruments**

**Annual Report for 2008**

Prepared by

Charles Campbell, SC7 US Delegation Leader

ISO/TC172/SC7 did not meet in plenary session during 2008. However there were meetings during the year of WG7 (Implants) and WG9 (Contact lenses) and several project group meetings.

Within the United States, the secretariat of ASC Z80 was changed from the Optical Laboratories Association to The Vision Council.

**Work of SC7 in 2008**

During the course of the year the work of the various working groups, as represented by the documents prepared and voted on, was as follows;

NWIP (new work item proposals) – 6

WG2 – 2

WG7– 1

WG9 – 3

CD (committee drafts) - 6

WG3 disagree- 1

WG6 agree - 1

WG7 disagree – 1

WG9 agree with comment –1/disagree - 2

DIS (draft international standard) – 8

WG3 abstain- 1

WG6 agree –2/agree with comment-1

WG7 agree –1

WG9 agree –2/agree with comment -1

FDIS (final draft international standard) - 3

WG6 agree – 2

WG7 agree - 1

Systematic 5-year review – 12

WG2 – 1 confirm

WG3 – 2 confirm

WG6 – 2 confirm / 4 revise

WG7 - 2 confirm

WG9 - 1 confirm

Technical reports

WG2 –1

WG6 - 1

It can be seen that the work of SC7 in 2008 includes work at all stages of the standardization process and quite similar to the activity of 2007. Quite a number of issued standards came up for systematic review in 2008. This will be the trend in SC7 due to the large number of standards the subcommittee has created over that last 25 years.

#### **Work by the various working groups within SC7**

WG2 –Work, begun in 2007, on a new work item to create a standard for a spectacle frames electronic catalog and identification continued in 2008. This work is being as a joint effort with WG8.

WG3 – The major issue being addressed by WG3 continued to be the standardization of finished spectacle lenses. The position of the United States on this work was discussed above. A Technical Report on parameters effecting lens power measurement was published in 2007. This report only covers spectacle lenses.

WG6 – One standard created by WG6 was issued in 2008. The project group that is creating a standard for instruments that measure the axial length of eyes met several times during the year.

WG7 – One International Standard relating to intraocular lenses, which was created by WG7 was published in 2007. It was a revision of one of the 7 parts of the overall International intraocular lens standard, ISO 11979. Just before the Tokyo meeting the Food and Drug Administration raised an issue on level of endotoxins allowed to be present on intraocular lenses following manufacture. Based on some reported problems with endotoxins that inadvertently made their way in some IV fluids and subsequently caused some eye inflammation following their use in ophthalmic surgery, the FDA became concerned about the tolerances for endotoxins found on interocular lenses following manufacture. There was not time to submit a New Work Item proposal to form to project group to address this issue prior to the meeting in Tokyo but this issue will be addressed in the coming year.

WG8 – Data Interchange – Work continued to create a standard for an electronic catalog for spectacle frames and their identification. This work is being done as a joint effort with WG2.

WG9 – Contact Lenses has been addressing issue raised in the area of care solution compatibility with contact lens materials due to introduction into the business of silicon hydrogel materials.

**ISO/TC172/SC7 publications in 2008**

During 2008, 1 new International Standards originating in SC7 was published. It came from the following working group.

WG6

The next meeting of ISO/TC172/SC7 will be held on 25 to 29 May 2009 in Berlin, Germany.



## ISO/TC 172/SC 9 Electro-Optical Systems (Including Lasers)

### Annual Report for 2008

Prepared by

Robert Faaland, SC 9 US Delegation Leader

The ISO Electro-Optical Systems (including lasers) Subcommittee (ISO/TC 172/SC 9) held its annual meeting in Berlin, Germany, on June 9-11, 2008. The meeting was hosted by the Deutsches Institut für Normung e.V. (DIN). The following US members were in attendance: M. Dowell, R. Faaland (US Delegation Leader), B. Hitz (Chairman ISO/TC 172/SC 9), and D. Neal.

There were no SC 9 developed standards published in 2008.

The following SC 9 developed standards were the subject of a systematic review:

- ISO 11252:2004: *Lasers and laser-related equipment – Laser device – Minimum requirements for documentation*. Voting, which terminated March 17, 2008 (and as confirmed by Resolution 387 (Berlin 15)), proposed circulation of a New Work Item for revision. [NWIP was approved.]
- ISO 11551:2003: *Optics and optical instruments – Lasers and laser-related equipment – Test method for absorptance of optical laser components*. Voting, which terminated on June 16, 2008 (and as confirmed by Resolution 389), proposed circulation of a New Work Item for revision. [NWIP was not approved. Standard has been confirmed.]
- ISO/IEC 11553-1:2005: *Safety of machinery – Laser processing machines – Part 1: General safety requirements*. Voting, which terminated on June 16, 2008 (and as confirmed by Resolution 389), proposed confirmation of the standard and circulation of a New Work Item for revision after publication of ISO/IEC 11553-3 (*Safety of machinery – Laser processing machines – Part 3: Safety requirements for noise reduction and noise measurement methods for laser processing machines and hand-held processing devices and associated auxiliary equipment (accuracy grade 2)*).
- ISO 11670:2003: *Lasers and laser-related equipment – Test methods for laser beam parameters – Beam positional stability*. Voting, which terminated on June 30, 2008 (and as confirmed by Resolution 389), proposed circulation of a New Work Item for revision.

- [NWIP was not approved. Standard has been confirmed.]
- ISO 11810-1:2005: *Lasers and laser-related equipment – Test method and classification for the laser resistance of surgical drapes and/or patient protective covers – Part 1: Primary ignition and penetration*. Voting, which terminated on June 16, 2008 (and as confirmed by Resolution 389), proposed circulation of a New Work Item for revision. [NWIP was not approved. Standard has been confirmed.]
- ISO 15367-1:2003: *Lasers and laser-related equipment – Test methods for determination of the shape of a laser beam wavefront – Part 1: Terminology and fundamental aspects*. Voting, which terminated on June 16, 2008 (and as confirmed by Resolution 389), proposed circulation of a New Work Item for revision. [NWIP was not approved. Standard has been confirmed.]
- ISO 15367-2:2005: *Lasers and laser-related equipment – Test methods for determination of the shape of a laser beam wavefront – Part 2: Shack-Hartmann sensors*. Voting, which terminated on June 16, 2008 (and as confirmed by Resolution 389), proposed circulation of a New Work Item for revision. [NWIP was not approved. Standard has been confirmed.]
- ISO 17526:2003: *Optics and optical instruments – Lasers and laser-related equipment – Lifetime of lasers*. Voting, which terminated on June 16, 2008 (and as confirmed by Resolution 389), confirmed the standard.

The following list summarizes the status of documents being developed by SC 9:

1. New Work Item Proposal (NWIP) for revision of ISO 11252:2004: *Lasers and laser-related equipment – Laser device – Minimum requirements for documentation*. Voting, which terminated on September 11, 2008, approved addition of project to program of work. However, there have not been any manuscripts circulated to date.
2. NWIP for revision of ISO 11551:2003: *Optics and optical instruments – Lasers and laser-related equipment – Test method for absorptance of optical laser components*. Voting, which terminated on December 8, 2008, did not approve the NWIP (lacked nomination of five P-member experts).
3. DIS 11553-3: *Safety of machinery – Laser processing machines – Part 3: Safety requirements for noise reduction and noise measurement methods for laser processing machines and hand-held processing devices and associated auxiliary equipment (accuracy grade 2)*. Voting on the DIS manuscript, which terminated on August 6, 2008, approved the issuance of an FDIS. However, the FDIS manuscript has not yet been circulated. {Standard is being prepared by ISO/TC 172/SC 9 in collaboration with IEC/TC 76 [Optical radiation safety and laser equipment] and should result in a dual-logo document}
4. NWIP for revision of ISO 11670:2003: *Lasers and laser-related equipment – Test methods for laser beam parameters – Beam positional stability*. Voting, which terminated on December 8, 2008, did not approve the NWIP (lacked nomination of five P-member experts).
5. NWIP for revision of ISO 11810-1:2005: *Lasers and laser-related equipment – Test method and classification for the laser resistance of surgical drapes and/or patient protective covers – Part 1: Primary ignition and penetration*. Voting, which terminated on December 8, 2008, did not approve the NWIP (lacked nomination of five P-member experts).
6. DIS 11990-2: *Lasers and laser-related equipment – Determination of laser resistance of tracheal tubes – Part 2: Tracheal tube cuffs*. Voting on the DIS manuscript will terminate on March 2, 2009.

7. NWIP: ISO 14880-5: *Optics and photonics – Microlens arrays – Part 5: Guidance on testing*. Voting, which terminated on June 6, 2006, approved addition of project to program of work. [Note – at the 2006 Boulder meeting, it was clarified that this document will be a Technical Report.] However, there have not been any manuscripts circulated to date.
8. NWIP for revision of ISO 15367-1:2003: *Lasers and laser-related equipment – Test methods for determination of the shape of a laser beam wavefront – Part 1: Terminology and fundamental aspects*. Voting, which terminated on December 8, 2008, did not approve the NWIP (lacked nomination of five P-member experts).
9. NWIP for revision of ISO 15367-2:2005: *Lasers and laser-related equipment – Test methods for determination of the shape of a laser beam wavefront – Part 2: Shack-Hartmann sensors*. Voting, which terminated on December 8, 2008, did not approve the NWIP (lacked nomination of five P-member experts).
10. DIS 21254-1: *Lasers and laser-related equipment – Test methods for laser radiation-induced damage threshold – Part 1: Definitions and general principles* (Revision of ISO 11254-1:2000 and ISO 11254-2:2001). Voting on the DIS manuscript will terminate on April 7, 2009.
11. DIS 21254-2: *Lasers and laser-related equipment – Test methods for laser radiation-induced damage threshold – Part 2: Threshold determination* (Revision of ISO 11254-1:2000 and ISO 11254-2:2001). Voting on the DIS manuscript will terminate on April 7, 2009.
12. DIS 21254-3: *Lasers and laser-related equipment – Test methods for laser radiation-induced damage threshold – Part 3: Assurance of laser power (energy) handling capabilities* (Revision of ISO 11254-3:2006). Voting on the DIS manuscript will terminate on April 7, 2009.
13. NWIP: Cavity ring-down technique for high reflectance measurement. Voting will terminate on February 28, 2009.

The following document-related resolutions were made at the June 2008 Berlin meeting:

1. Item ISO 11252, *Lasers and laser-related equipment – Laser device – Minimum requirements for documentation*. It was agreed to issue a new work item proposal to investigate the need for a revision of ISO 11252. Three P-members (Japan, US and Germany) had voted for revision and the United Kingdom and French delegations agreed to participate actively. Germany volunteered to lead the project. The new work item proposal will be allocated to SC 9/WG 6.
2. Item 11990-2, *Lasers and laser-related equipment – Determination of laser resistance of tracheal tubes – Part 2: Tracheal tube cuffs*. It was agreed to submit a DIS manuscript to SC 9 members for voting and comment.
3. Item ISO 21254-1, *Lasers and laser-related equipment – Test methods for laser radiation-induced damage threshold – Part 1: Definitions and general principles* (replaces ISO 11254-1 and -2). It was agreed to submit a DIS manuscript to SC 9 members for voting and comment.
4. Item ISO 21254-2, *Lasers and laser-related equipment – Test methods for laser radiation-induced damage threshold – Part 2: Threshold determination* (replaces ISO 11254-1 and -2). It was agreed to submit a DIS manuscript to SC 9 members for voting and comment.
5. Item ISO 21254-3, *Lasers and laser-related equipment – Test methods for laser radiation-induced damage threshold – Part 3: Assurance of laser power (energy) handling capabilities* (replaces ISO 11254-3). It was agreed to submit a DIS manuscript to SC 9 members for voting and comment.
6. New Work Item Proposals for "*Determination of the properties of ultrashort laser pulses*". It was agreed to issue two new work item proposals under the general title: *Determination of the properties of ultra-short laser pulses*.

The two parts are intended to be:

*Part 1: Vocabulary*

*Part 2: Autocorrelation measurement method*

The secretary will wait for an appropriate date of circulation of the NWIP in order to take advantage of the ISO timeframe of three years for developing the standards.

The timing of the next meeting of ISO/TC 172/SC 9 was to have been determined in the autumn of 2008. Three possible options were mentioned: autumn 2009 in Japan, autumn 2009 in Washington DC, and January 2010 in San Jose/California. As of the writing of this report, no date has been set. Working groups may meet separately and earlier, if required.

The current SC 9 US Delegation Leader, Robert Faaland (FDA), will be retiring this coming July. The role of US Delegation Leader will be filled by Thomas Lieb (L\*A\*I International).