

# Annual Report of an ANSI/OEOSC TAG to ISO TC172 Subcommittee Covering the Year 2019

---

## **TAG Subcommittee Number and Name:**

SC9 Lasers & Electro-Optical Systems

## **TAG Subcommittee Leader:**

Bruce Perilloux

## **ISO Meetings Held During 2019**

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.

Subcommittee, Working, or Project Group Meeting Name	Date(s)	Location
Meeting of ISO/TC172/SC9 Lasers and Electro-Optic Systems	11-13 November, 2019	China Jiliang University, Hangzhou, China

## **ISO Meetings Scheduled for 2020**

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.

Subcommittee, Working, or Project Group Meeting Name	Date(s)	Location
Meeting of ISO/TC172/SC9 Lasers and Electro-Optic Systems	(TBD) late Oct. through Nov. 2020	United States

## **Significant Accomplishments in 2019**

### **ISO Subcommittee**

U.S. Head of Delegation (HoD), Keith Murdoch, attended the international meeting ISO/TC172/SC9 in Hangzhou, China, 11-13 Nov. 2019. As noted in Keith's HoD Report, the U.S. was overall "Successful" in meeting its objectives on policy and technical matters, where compromises were reached that are acceptable to the U.S.

### **US TAG Subcommittee**

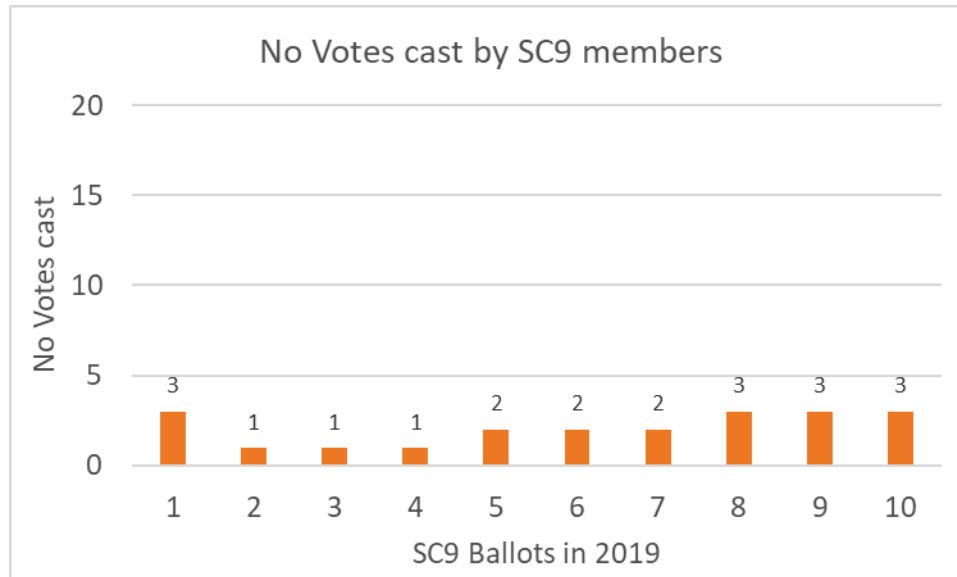
TAG Subcommittee SC9 Leadership changed in Jan. 2019, where Bruce Perilloux was appointed as TAG Subcommittee SC9 Leader.

Ten US position and response votes were confirmed in 2019 as shown in the table below.

NO.	BALLOT DATE	DESCRIPTION	ACTION TO GET CONSENSUS NEEDED?	VOTE RESULTS
1	1/17/2019	N740: ISO/CD 22248: Laser and laser-related equipment — Test methods for laser-induced damage threshold — Classification of medical beam delivery systems. (2019-05-13)	No	Abstain
2	4/19/2019	N737 ISO/FDIS 14880-1: Optics and photonics — Microlens arrays — Part 1: Vocabulary.	No	Abstain
3	6/30/2019	N738 ISO/CD 13142:2019 Cavity ring down R and T measurement	No	Approve
		N739 ISO/CD 19986:2019 Angle resolved scatter test method		Approve
		N740 ISO/CD 22248 Laser damage test method; classification of med beam delivery systems		Abstain
4	8/29/2019	N743 results on vote on ISO/DIS 1551 (Ed 3): Optics and Photonics -- Lasers and laser-related equipment -- Test method for absorptance of optical laser components (2019-06-24)	No	Approve
5	9/23/2019	N760 results on vote on ISO/CD 14881:2019: Integrated optics — Interfaces — Parameters relevant to coupling properties (2019-10-16)	No	Disapprove
6	10/21/2019	N767 vote on NWIP ISO/NP 23701.2: Optics and photonics -- Laser an laser-related equipment -- Photothermal technique for absorption measurement and mapping of optical laser components (2019-11-21)	No	Disapprove
7	10/21/2019	N768 vote on NWIP ISO/NP 22247: Optics and Photonics -- Effective numerical aperture of laser lenses -- Definition and verification procedure (2019-11-21)	Yes	Disapprove
8	11/4/2019	N769 results of vote on ISO/FDIS 15902 (Ed 2): Optics and photonics -- Diffractive optics -- Vocabulary (2019-11-21)	No	Approve
9	11/25/2019	N774 results of vote on ISO/FDIS 11553-1 (Ed 2): Safety of machinery -- Laser processing machines -- Part 1: Laser safety requirements (2019-12-20)	No	Approve
10	12/2/2019	N775 results of vote on ISO/DIS 19986: Lasers and laser-related equipment -- Test method for angle resolved scattering (2019-12-20)	No	Approve

Only one ballot required intervention to reach consensus. After a brief discussion, consensus was reached.

For the above ten ballots, the number of votes cast for each ballot by SC9 members are shown in the table below. Note: the total number of SC9 members on the current roster is twenty (20).



## **Significant Problems Encountered in 2019**

### **ISO Subcommittee**

No significant problems were encountered in the ISO subcommittee.

### **US TAG Subcommittee**

It is observed that a relatively low number of votes were cast for the ten SC9 ballots in 2019 on US positions and responses by the twenty members currently listed on the SC9 roster.

After first-draft documents were submitted to TF7 “Laser Damage” members in February and March 2019, virtually no progress was made on these proposed changes to “For Optics and Electro-Optical Instruments –Laser Induced Surface Damage”. The proposed changes are significant and will need additional work to advance these proposals.

## **Projections for 2020**

### **ISO Subcommittee**

Keith Murdoch will continue as the U.S. HoD in 2020, and his knowledge and leadership will continue to support and progress the U.S. position.

### **TAG Subcommittee**

Additional support is needed to increase the number of voting members of SC9.

Additional support is needed for the leadership of the TF7 “Laser Damage” committee to progress this standard. It is recommended that conference calls (Skype) are utilized for more frequent meetings, as SC9 member’s work schedules make it difficult to add additional travel, even for Photonics West and the Laser Damage Symposium.