

ISA 2012 Working Meeting

April 17, 2012 Maritim Hotel, Frankfurt

1. Attendance

Attendance present were

President Ms. Ling Wu, (Secretary-General, CSA)

Co-chair of ISA Advisor Board Prof. Guoqi Zhang

Advisor Prof. Istvan Barsony

Advisor Dr. Patrick Mottier

Advisor Mr. Hari Mamak

Secretary-general Mr. Ruisheng Yue

Appendix for the full list of participants was attached for reference

2. The Agenda

8:30-8:35	Opening Address by Ms. Ling Wu, the President of ISA
8:35-8:55	ISA Progress Report by Mr. Ruisheng Yue, Secretary-General of ISA
8:55-9:05	ISA SRA Highlights by prof. Guoqi Zhang, Advisor Board Co-Chair
9:05-9:20	Establishment of ISA Technical Committee on Standardization (TCS) by Mr. Mark McClear, TCS Chair
9:20-9:35	Coffee Break
9:35-11:45	Discussions
11:45-12:00	Summary and Adoption by Mr. Ruisheng Yue

3. Welcome Remarks by the President of ISA

The meeting began with a welcome remarks delivered by Ms. Ling Wu, the President of ISA. She expressed her sincere appreciation to Axitron for its valuable sponsorship to this important meeting and provided generous logistic support to our members' gathering. She welcomed all the members who participated in this ISA working meeting and emphasized that substantial progress had been made in almost six months since ISA's last meeting in Guangzhou. With various new initiatives and proposed actions will be discussed in this working meeting, she expected that each and every member will take full participation on these member-driven events by taking the ownership and formulate concrete action plans for the new initiatives. She wished successful and fruitful results for this meeting.

4 ISA progress overview

Mr. Ruisheng Yue the Secretary General of ISA, Prof, Guoqi Zhang Co-Chair of ISA Advisor Board and Mr. McClear TCS Chair respectively made reports to the Meeting accordance with relevant work

4.1 Progress report

Secretary general of ISA, Mr. Yue Ruisheng, presented the progress report of ISA for the period between November 2011 and April 2012.

WG1. SRA & Industrial Roadmap

- To echo the concerns from SSL society, three more chapters are added.
Horticulture and animal husbandry, led by Prof. Qichang Yang, Prof. Xuedong Pan
Human perception, health and wellbeing, led by Dr. Yongqing Zeng
Bio-photo interaction, led by prof. Huaiyu Gu and Prof. Brad Lehman
- A new release in the Nov. 2012, second ISA general assembly meeting.

WG2. Global Showcase

- Great Hall of People project has been completed. Potala Palace project has been going relevant official procedures.
- Besides ISA's collectively organized showcase projects, a new initiative was proposed:

ISA SSL GLOBAL SHOWCASE TOP 100

Content: Select and advertise top 100 SSL projects around the world

Purpose: show the world the value and contribution of SSL application on energy saving, CO₂, SO₂ and NO_x reduction, green economy, wellbeing of life by promoting members' showcase projects

Rationale: ISA is a not-for-profit NGO thus in a neutral position to promote showcase projects to public, government and NGOs with a higher public value

- ISA Global SSL Showcase TOP 100 will be publicized to/on

The general media

ISA network and outreaches (ISA partners, national governments, local governments, UN bodies (UNEP, UNDP, UNIDO, UNESCO, IEA, WB), regional organizations (EU, AU, LOAS, ASEAN BRICS etc.)

International forums, conferences, NGOs

ISA organized events

ISA website

Circulated publication (book) to general publics

WG3. Ecosystem Development

- First International SSL Summer School will be held at Changzhou, China
Lecturer from US, Germany, Netherlands and China
Participants are graduate students or R&D engineers from ISA members, other companies may also join with higher costs.
- A SSL workshop, mainly for ISA members, is planned at Delft, The Netherlands at 9:00 to 12:00, 19th-Apr-2012.
- ISA facilitates international industrial exchange.
Sino-Dutch SSL industrial matching making at Eindhoven, The Netherlands.

WG4. Standards & Testing

- As discussed in the First ISA Member Meeting, ISA members had decided to establish the TCS (Technical Committee on Standardization) with the insights and guidance from the first ISA member meeting.
- Not to re-invent the wheels
- focus on “white spots” of the current specification, testing and standards
 - Mr. Mark McClear will chair the TCS and coordinate actions according to the needs and requirements of our members.

WG5. Public Relation & Membership

- ISA now has totally 58 members.
- 4 new members joined us in the last few months: Mitsubishi Chemical (Japan), LED Engine (US), Hyosung (Korea), San An Optoelectronics (China)
 - ISA has been contacting with UNEP, UNDP, IEA, The Energy Foundation for future cooperation.
 - Global Student Contest
- Sydney University (Australia), Delft University of Technology (the Netherlands) and Changchun Institute of Optics, Fine Mechanics and Physics, China Academy of Science (China) participate the Green 3D Youtube contest. Contest teams built, design, implementation plan ready. An exposure was planned at Vivid Sydney, May to June 2012 <http://www.vividsydney.com/>
- 15 universities, 200 + students representatives had participated world culture heritage /Potala Palace SSL Design.
- A number of universities from Africa were expected to participate in SSL Luminaire Design for Africa.
 - ISA website had been updated.
 - Two fowling new initiatives were proposed:

The Global SSL Outlook (GSO)

- GSO will be an comprehensive and holistic report on the global SSL development, with objectivity, neutrality and substantiality
- Purpose: serving as an authoritative reference to its readers including governments, UN bodies, regional organizations, NGOs, industries and the public.
- Equivalent publication such as “GEO” made by UNEP, “WEO” made by IEA has been widely acknowledged and contributed to the sustainable development of the world.
- ISA secretariat is working on possible funding to cover hardware costs (publications, etc.)
- Proposed Content: governmental policies and development plans, strategic blueprint for R&D, SSL industry development, market acceptance and foresight, overview of Standards and testing, SSL application in new areas, SSL products full life-cycle green manufacturing and recycling, Trends and prospects on SSL development
- Not covering market survey and forecast since it is well covered by consultancy companies. but GSO may cite some conclusions from exist reports
- Propose to form a GSO task team

The Global SSL Events of the Year

In line with TOP 100 but not only limited within ISA members, the event could be any point of the whole value chain of SSL such as R&D achievements, materials,

luminaire design, driver, module as long as it contributes the SSL development significantly

4.2 SRA highlights

The Co-chair of ISA advisor board, prof. Guoqi Zhang, emphasized that the SRA was a strategic research agenda to enable companies make their research strategy. It is not an industrial roadmap and the SRA lists the R&D subjects to be investigated. The SRA was also important for academia due to that (1) even academia did not have enough attention to SSL research; (2) talents were not aware of how many challenges in the R&D of SSL. Everybody, even an expert outside of ISA, was encouraged to submit their contributions (can be a few pages) to existing chapter or new chapters.

4.3 The Work related to TCS

Mr. Mark McClear, the Chair of TCS expressed his gratitude on the opportunity for chairing the ISA Technical Committee on Standardization. Mr. McClear introduced Cree's approach on testing regimen to ensure the good quality of LED products, namely the TEMPO (Thermal, Electrical, Mechanical, Photometric, Optical), as well as some finding and views on standards which was trying to define what it takes to make a good quality LED luminaire. Mr. McClear ended his speech by expressing his willingness and expectations to better lead and serve the TCS. Meanwhile he mentioned that TCS was a joint effort to tackle the standardization challenges facing SSL industry as a whole. He stressed the importance of mapping out blank spots of the current standardization areas, and not to compete with the existing standards already in place. He also called for support and efforts from all the ISA members and non-members to rally together and take the ownership by actively participating in standardization works.

5. Discussions

The participants undertaken a plenary and free-flowing discussions on the following topics.

5.1 TCS

In this discussion, Mr. Xiao Guowei, Ms. Ling Wu, Mr. Jerry Zheng, Mr. Ruisheng Yue, Prof. Guoqi Zhang, Mr. Hari Mamak, Mr. Hans Nikol, Mr. Yan Xiantao, Mr. Ian Cowling, Mr. Sander Gielen, Mr. Mark McClear, Mr. Paul Hyland gave their opinions in the discussion about TCS of ISA which summarized as following,

- (1) We must set up the TCS. ISA is not going to make standards just for making standards. The working topics in TCS must come from companies, and not to re-invent the wheel. Timing is very important.
- (2) Many governments coordinate/invest standardization work, such as China, EU, US.
- (3) We have to discuss and decide whether to develop TCS of ISA to be a standardization body or we recommend our specifications to different standardization bodies.

- (4) ISA can also contribute to regional standards/specification to local government.
- (5) We should first study the existing standards and have a complete list and overview of them, then to find the white spot among the standards, to prioritize them, or to reinforce the existing standards.
- (6) We may learn from the IC industry, standardization at different levels.
- (7) Our standardization must be acceptable. We may join up with CIE, which has a joint standardization scheme.
- (8) Topics suggested in the working meeting include: 1) definition of useful light since existing standards in conventional lighting industry does not comply with the character of LEDs. 2) Charactering glaring 3) isolation standard of SSL for safety 4) lifetime and aging of LEDs, to find root cause of failures for design guide
- (9) TCS has to create influence to industry and authority to have followers.
- (10) TCS has to decide a top-down or a bottom-up approach.
- (11) An intermediate meeting needed between now and November.

5.2 GSO

Opinions summarized from the discussion on GSO were

- (1) The GSO should stay above just pure number debate.
- (2) ISA should stimulate people outside ISA to participate,
- (3) GSO should list the future of SSL, some experience can be found in Photonic 21.

5.3 ISA SSL Global Showcase TOP 100 and the Events of the Year

Opinions summarized from the discussion on GSO are:

- (1) TOP 100 should just promote the member's showcase.
- (2) Prof. Warren Julian is the right person to take the lead.
- (3) Member suggested to build a website promoting monthly the latest SSL projects to educate talent and government.
- (4) Top 100 can inform a region what is happening at the rest of the world.
- (5) China Solid State Lighting Alliance (CSA) can contribute her own media.
- (6) ISA may invite some influential people to endorse SSL showcases.

6. Proposals

The following proposals had been made from the discussion and subject to the agreement of the members of ISA

6.1 TCS

Entrust Mr. Mark MacClear the Chair of TCS to do the following work:

- (1) Solicit views from ISA members on the work of ISA standardization;
- (2) Map out on the directions and “white Spots “ of TCS work;
- (3) Communicate members by teleconference or possible meeting (in conjunction with international events) on next step and June could be the time node.
- (4) Carry out relevant work and report to ISA General Assembly which is scheduled in early November on the progress of TCS.

Call for ISA members to actively participate in the work of TCS.

6.2 GSO

Entrust the Secretariat to do the following work

- (1) Consult Prof. Warren Julian to take the lead on GSO work.
- (2) Make efforts to seek funds to facilitate this work;
- (3) Make efforts with the aim to report ISA General Assembly on its first edition and publicize the major contents of GSO to the public.

Call for ISA members to actively participating in the GSO drafting.

6.3 TOP 100 and the Events of the Year

Entrust the Secretariat to do the following work:

- (1) Prepare TOR (terms of reference)/ROP (rule of procedure), and Criteria of these two activities
- (2) Circulate aforementioned documents to ISA members to solicit views.
- (3) Recommend members of Jury Committee according to aforementioned revised documents.
- (4) Circulate the recommended list of Jury Committee to ISA members to solicit views.
- (5) Invite ISA members to recommend or nominate the candidates on TOP 100 and the Global SSL Events of 2012 .
- (6) Make efforts with the aim to report ISA General Assembly on these two activities and release the final conclusions to the public.

Call for ISA members to actively participate in the whole process of these two activities.

The Meeting expressed sincerely appreciation to Aixtron on its generous sponsorship and facilitation to the success of the ISA 2012 Working Meeting

The Meeting formally closed at 13:00 of April 17, 2012.

Appendix:

Attendance

Members:

Ms. Wu Ling	CSA
Prof. Guoqi Zhang	TUD
Mr. Patrick Mottier	CEA-Leti
Mr. Istvan Barsony	MFA
Mr. HariMamak	ISLE
Mr. Michael Watson	Cree
Mr. Mark McClear	Cree
Mr. Paul Hyland	Aixtron
Mr. Michael Heuken	Aixtron
Ms. Barbara Horst	Aixtron
Mr. Hans Nikol	Philips
Mr. Ray Chock	Philips
Prof. Ian Cowling	Queensland University of Technology
Mr. Toru Takeda	Mitsubishi Chemical
Mr. Jerry Zheng	iWatt Inc.
Dr. Kay Essig	ASE Group
Mr. Guangming Lu	Zhejiang Shenghui Lighting Co., Ltd.
Mr. Mingfeng Lin	Unilumin Group
Ms. Xiaohui Peng	Lattice Power
Mr. Nils Erkamp	TNO
Mr. Sander Gielen	TNO
Mr. Trung Doan	SemiLeds
Dr. Myeong Seok Oh	LG Innotek
Ms. Yanfang Li	NLTC
Dr. Matthias Muller	Fraunhofer
Dr. David Xiao	APT HK
Mr. Jinmin Li	IOS, CAS
Mr. Yiping Zeng	IOS, CAS
Dr. Xiantao Yan	LED Engin

Secretariat

Mr. Ruisheng Yue	Secretary General, ISA
Mr. Yuan Fu	Executive Secretary, ISA

Other staffs

Mr. Faming Sun
Ms. Zhenmei Liu