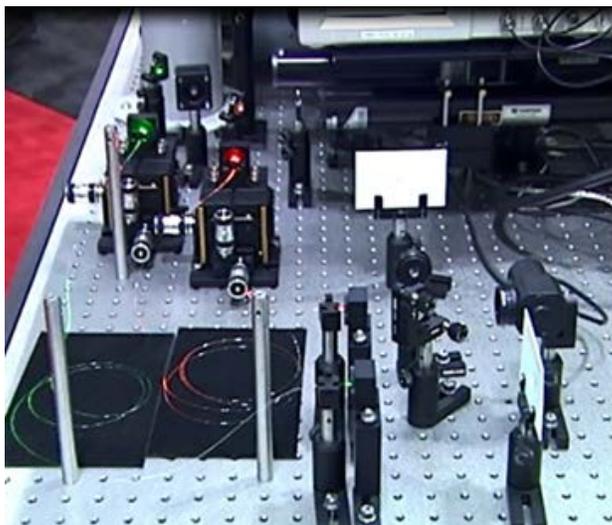


November 2014

The Remaining Eye



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*LBNL Newsletter on
Laser Safety*

Laser Safety Committee News

The laser safety officer is delighted to announce that Ian Sharp, PBD, (see p. 2) has been appointed as the new Chair of the Laser Safety Committee.

At the same time the LSC members would like to thank Marcus Hertlein for his outstanding leadership and valuable contribution as Chair over the past years, and Joel Ager, who graciously served as interim chair during the transitional period.

Available Items:



New Members of LSC

- Daniel Slaughter
- representing ALS and CSD
- Anthony Gonsalves
- representing ATAP/BELLA

Member	Representing
Ian Sharp, Chair	PBD
Joel Ager	MSD
Xianglei Mao	EETD
Anthony Gonsalves	ATAP/BELLA
Daniel Slaughter	ALS & CSD
Greta Toncheva, LSO	EHS

Introducing **Dr. Ian Sharp**

Dr. Ian Sharp is a staff scientist at the Joint Center for Artificial Photosynthesis and in the Physical Biosciences Division, LBNL. He obtained his doctorate degree from the University of California, Berkeley in the Materials Science and Engineering Department in 2006. In 2011, after working several years at Walter Schottky Institut, Technische Universität München, he joined the Joint Center for Artificial Photosynthesis at LBNL. He performs interdisciplinary research directed at demonstrating a functional solar fuels device. This work includes fundamental studies of electronic structure and charge carrier dynamics in novel semiconductor photoelectrodes; interfacial phenomena in catalyst/semiconductor assemblies; and the development of thin film corrosion protection layers that permit efficient charge transport between components. In addition, he is a leader of an applied research team that is focused on integration of materials into a prototype solar fuels device. Dr. Sharp is a Principal Investigator on two laser AHDs and has extensive working knowledge of steady state and time-resolved laser spectroscopy. He is an author and a co-author of an impressively long list of peer reviewed papers.



Please join us and congratulate Dr. Ian Sharp in his new leading role.

Brief review of the revised LSC charter

The charter for the Laser Safety Committee (LSC) was revised recently. Here are the changes:

- Membership includes four laser users/researchers and the LSO: The LSC is open to and welcomes the attendance of everyone who is interested and would like to participate in the meetings and discussions.
- Frequency of meetings - as needed
- Format – in person, emails, video conferences, ready talk, etc. Video conferencing is useful for members joining from offsite locations (e.g. JCAP).

WPC and Activity Manager update

As all of you are aware by now, the new Work Planning and Control (WPC) and Activity Manager (AM) are rolling out and all laser AHDs will have to be transferred into activities within six months. Do not leave it to the last moment, plan for early start to avoid delays, keep in mind that there are close to 80 laser AHDs and many more other authorizations, and everyone will be busy. Contact the LSO responsible for your area to collaborate.

In the new WPC, the Laser Management System (laser inventory) will have the same active role. The LMS will be the primary source for all laser entry with their manufacturer's specifications. All new lasers have to be entered in the LMS first and then exported to AM. In order to do that, you have to know the LMS# of the laser in use, you can check the LMS numbers in the current AHDs or they are listed in the Hazard table. The hazard table will be discontinued as an attached document, since all information will be listed in the AM. Once the main laser specifications are exported, the LSO will enter the ODs, MPE etc., in the available cells. A new feature is that one can add a full set of cells and enter a different wavelength produced by the same laser and specify different work parameter (e.g., different energy and the new ODs will be listed also for this particular use of the laser). Unfortunately, at this time there is no feedback info to the LMS.

The AM allows for file attachments, which means that all additional documentation that we maintain such as OJTs, interlock test documentation, detailed alignment procedures, etc., will be attached files as before. Maybe in the future we will be able to enter those checks electronically, but this AM function is not available at this moment.

If you need more information or help with this important transition – contact the LSOs, they are happy to help you.

Laser Interlock Program

The new Laser Interlock Program, prepared by the LBNL interlock SME Patrick Bong, contains the contractual and institutional requirements as well as best management practices pertaining specifically to the application of interlocks to laser systems. The program is intended to provide guidance to personnel designing, documenting and reviewing laser interlocks so that interlock systems are consistent and comply with lab policy and contract requirements. The program applies to indoor Laser Controlled Areas where the LSO has determined that interlocks are required.

The Interlock SME will prepare an interlock system requirements document to fulfill the needs of the laser controlled area. The requirements will be reviewed by the LSO and the laser controlled area Work Lead to determine that the system requirements are consistent with the risk of hazardous exposure. The interlock systems will be regularly tested. A procedure will be used that documents the testing process and completion date. The successful test execution will be acknowledged by the Work Lead or line management designee.

The LSC approved a change in the frequency of interlock test - from every six months to annual. This gives us the perfect opportunity to use AM and its requirement for the activity annual review to our advantage as a reminder to perform the annual interlock test at the review time. It would be best if you complete an interlock test at the time of activity activation and thus, align the interlock check with annual activity review.

Laser Vendor Fair

The annual laser vendor fair took place at the LBNL cafeteria on Sept. 11, 2014. Fifteen vendors participated and ~150 employees, students and guests visited the fair. Refreshments were served. With the donations collected from the vendors, the LSO purchased 10 portable flashing lights and 20 shoe organizers for eyewear storage. These items are available for laser users in need, see page 1.

