

APS Laser Safety Committee Meeting January 27th 2005 12:00 PM, Room B4100

Present:

Elroy Chang
Yuelin Li
David Gosztola
Dale Brewe
Jim Lang
Reinhard Pahl
Bruce Murdoch
Jeff Alicz
Eric Landahl
David Gore

Minutes

Activity of The laser safety committee at the Chemistry Division

Yuelin Li asked David Gosztola to describe the protocol of laser safety committee meetings conducted by the Chemistry Division.

The laser safety committee at the Chemistry Division has been in existence for 20 years. They meet once a year. Internally, their committee performs annual laser installation inspections and reviews laser SOP's every 2 years. There is a specific review process that the Chemistry Division Laser Safety Committee has developed that has been approved by the ANL-LSO. This committee acts as a resource for other ANL divisions possessing laser installations. i.e. MSD

It is a good practice to have cross divisional membership on the laser safety committee.

General laser safety practice: To attempt by controls to establish a Class 1 laser enclosure for laser systems that may have higher class lasers inside of the enclosure.

Medical Eye Examination Database

Dale Brewe asked how you know if a laser user has had an eye examination.

Dale stated that a computer database could help in the administration of APS laser users.

The APS Laser Safety Committee asked Bruce Murdoch about the status of an eye examination database.

- Medical department would perform data entry
- Users could view whether a laser user had an eye exam via TMS
- A training course number will assigned
- Supposedly by end of March '05 the system would be available
- Bruce Murdoch to follow up on the status of this program

Nomination for APS Laser Safety Committee

Eric Landahl has been nominated and has accepted a position on the APS Laser Safety Committee.

NREL National Renewable Energy Laboratory Laser Strike

Bruce Murdoch provided details to this laser incident.

- Solar Energy Research group outside of Denver, Golden Co.
- A graduate student
- Working with partner
- Open laser enclosure
- The student was not wearing PPE
- Exposure of eye to laser
- No signal from photovoltaic cell, removed attenuator, wiggled sample, deflected beam
- 2 mm retinal lesion

ANL Laser Safety Improvements

Jim Lang stated there are global training, division specific training, and on-the-job training provided by the LCA Supervisor and experienced laser users. He suggested that the APS Laser Safety should work with the Chemistry Division Laser Safety Committee. This can be accomplished by sharing checklists, meeting minutes, performing cross committee reviews. Later on David Gozstola has emailed a sample check list they are developing.

Dave Gore stated that laser installation at his CAT may change on a frequent basis.

Yue Meng said a major challenge is the safe administration of several laser controlled areas with many visitors using the facilities.

Status of APS Laser Safety Committee Charter

This awaits ESH/QA Manager and APS Director Approval.

When the charter is approved, it will be sent to the Chemistry Division Laser Safety Committee chairman. The membership roster of the APS Laser Safety Committee will be sent, also.