

# Laser Eye Injury

Will Brocker Senior Safety Advisor, EQO

DOE Laser Safety Video-Conference November 19, 2004

#### **Argonne National Laboratory**

A U.S. Department of Energy Office of Science Laboratory Operated by The University of Chicago



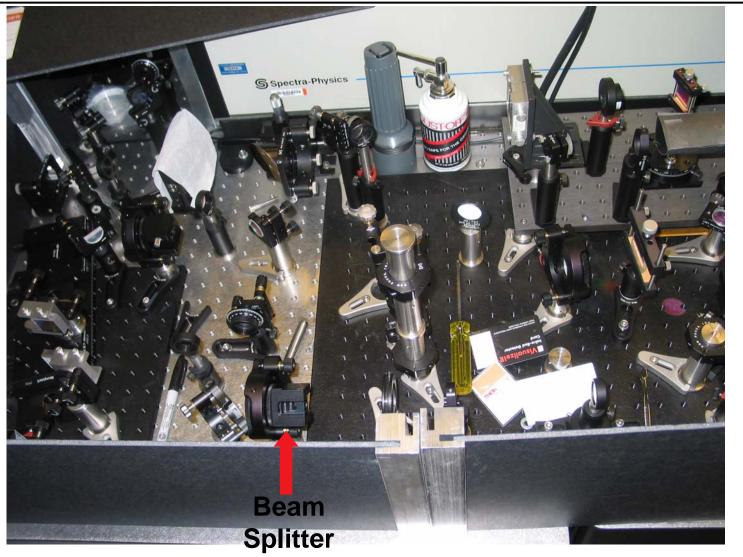
## Laser Eye Injury

- Late Friday afternoon
- Alignment of optics table using Class 2 Laser completed
- PI decided to fine tune the alignment using Class 4 laser at reduced power
- Following minor adjustment of beam splitter, the splitter's secondary beam stuck the PI's left eye





## Laser Optics Table









### Laser Dramatization







## ANL Laser Safety Program

- Experiment Safety Review to identify and control all hazards in a laboratory
- Laser Safety Inspection to review laser control areas to identify hazards and control measures
- Division Safety Inspections to assure work is performed within controls
- Laser Control Area Supervisor to assure work is planned and performed within controls





- The hazard of the splitter's ability to produce a secondary beam was not identified
- The hazard of the splitter's secondary beam was not controlled
- The PI was not wearing adequate eye protection





## Laser Safety Glasses – Side View







## Laser Safety Glasses – Top View





