

Welcome to the Advanced Photon Source! This is the Sector-Specific Orientation for users at Sector 12. Please review the material below. If you have any questions, ask the Sector 12 Training Coordinator.

As a part of the orientation, you will also be trained on proper procedures for searching and securing the experimental hutches. This will serve as the 'hands-on' portion of the orientation.

After finishing both parts of the training, please complete and sign the attached signature page and return it to the Sector 12 Training Coordinator.

Facilities

- Bench tops in 433/E020 as well as the fume hood and the cabinets and bench tops adjacent to the fume hood in 433/E030 are shared lab spaces which are available to users while they have beam time.
- Users will not be permitted access to the offices in Pentagon E of LOM 433 or to the Sector 12 mini enclosures and FOEs.

Laboratory Practices

- Before leaving a laboratory area, wash hands thoroughly.
- All containers should be tightly closed except when a material is being added or removed.
- When not in use, razor blades must be stored in labeled containers.
- Workspaces should be neat, clean, uncrowded, and uncluttered.
- Access to exits, emergency equipment, and utility controls must not be blocked.
- Eye protection is required in areas posted "Eye Protection Required".

Eating/Drinking

- Do not drink water from laboratory taps; domestic water is available at drinking fountains, in restrooms, and in break rooms.
- Eating and drinking are prohibited inside the FOEs, mini enclosures, and experimental stations, as well as in the laboratories.
- Alcoholic beverages are prohibited. Snack foods and non-alcoholic beverages are allowed at the experimental control stations EXCEPT for sites where chemical hazards are present.

Emergencies

- Designated tornado-shelter areas are men's and women's toilet and locker facilities, as well as User Staff Shop.
- Persons who are ill or injured should not be transported in personal vehicles.
- Call 911 from any ANL phone or (630) 252-1911 from non-ANL phones.

Stop Work Authority

- Personnel and users have the authority and the responsibility to stop any activity at the APS that, in their judgment, poses a clear and present threat to health, safety, or the environment.
- No experiment can be considered more important than safety!

Shielding/PSS Components

- NO shielding or personnel safety system (including labyrinths) shall be modified, moved/removed, or disabled without following the APS-mandated procedures.
- DO NOT BREAK THE SEAL AND OPEN IT YOURSELF!

ESAF

- All proposed activities at Sector 12 are subject to a safety analysis by the APS and Sector 12.
- An experiment will NOT be allowed if an up-to-date Experiment Safety Approval Form is not completed and posted.



Electrical Safety

- Use of extension cords should be minimized; extension cords may not be connected in series; when in use, extension cords should be secured to the floor to avoid creating a trip hazard.
- Do not attempt any electrical work if you are not qualified and authorized.
- Non-commercial equipment, including modified commercially manufactured equipment, must be made available for inspection, testing, and certification by ANL prior to use.

Compressed Gas Cylinder Safety

- Gas cylinders must be restrained and may not be left freestanding.
- Cylinders should be stored with valve-cover cap screwed firmly in place.
- Cylinders should not be stored on carts.
- Where gases of different chemical-reactivity types are stored in the same general location, cylinders should be grouped by type, with incompatible types segregated appropriately.

Cryogenic Safety

- Safety glasses or goggles and loose-fitting insulating gloves must be worn at all times when handling cryogenic liquids or when in the proximity of someone handling cryogenic liquids.
- A full-face shield should be worn when splashing or spraying of cryogenic liquids may create a significant hazard.
- SANDALS ARE NOT ALLOWED ANYWHERE in the proximity of cryogenic liquids.

Radiological Safety

- Thermoluminescent dosimeters (TLDs) are required for users who have radioactive samples.
- TLDs may also be requested at any time.
- TLDs are to remain on-site and should be placed in the dosimeter rack for readouts.
- If you plan to use radioactive sealed sources, contact the Sector 12 Safety Officer prior to your experiment.