

HPMI Laboratory Policies and Procedures (Spring 2010)

The High-Performance Materials Institute (HPMI) is a leading center in the composite R&D. HPMI consists of multidisciplinary professional researchers: students, staff and faculty. HPMI is dedicated to the following missions:

- Conduct and promote a broad range of multidisciplinary research and integration to improve the performance and affordability of advanced composite materials and structures;
- Expand the pool of well-educated and multidisciplinary trained engineers and scientists for a technology sector of national and global significance; and
- Work with technology transfer and economic development professionals in commercializing composite technology and increasing economic impact.

Fulfilling our missions requires setting standards of excellence in professionalism and efficiency that will lead to a productive, safe and enjoyable working environment. Fulfilling our missions will also ensure that HPMI student researchers further their careers in challenging and rewarding future employment.

You should be proud of your research, and we encourage you to inform people about HPMI and your work. However, many of our research projects are proprietary and specific technical details should not be shared with others without proper agreements. If anyone asks detailed technical questions, consult with your advisor and W. Frank Allen for guidance.

The following standards are established in this document to ensure a safe and productive working environment. This should also be considered as part of the professional training, which is expected in industry.

1. Laboratory Safety – First and Foremost

All HPMI personnel must complete the university safety program at least once per year and fully obey and follow the laboratory safety rules and requirements.

- a. In case of emergency, call 911 immediately.
- b. Obtain certification on equipment before you use any equipment or device in any HPMI labs. Review the Equipment Management Program policies and procedures.
- c. Read MSDS sheets for any chemical you are working with and have the applicable sheets readily available.
- d. Follow the MSDS instructions to select and utilize personal protection equipment (PPE) during experiments.
- e. Wear safety equipment such as safety glasses, gloves, and lab coats while operating the machines or performing chemical experiments.
- f. Do not wear lab coats or gloves in the lounge area and outside of the laboratory wing of the building. Use the service elevator if you must go to another floor.
- g. Do not reuse gloves.
- h. Always wear closed-toe shoes in the labs. (No sandals)
- i. Ensure chemicals are properly stored based upon potential hazards.
- j. Report any accident, incident or unsafe condition to your supervisor immediately.
- k. Ensure anyone around your equipment is wearing the proper safety equipment and observing safety procedures.
- l. Ensure your lab and work areas are clean and secure:
 - i. Ensure your area is cleaned daily
 - ii. Remove any item that may be a tripping or fire hazard
 - iii. Do not leave razor blades in your work area.

- m. No eating, drinking, or smoking in the labs, unless the labs have been designated for eating and drinking by Environmental Health and Safety.
- n. Do not disconnect or remove lab equipment or computers.
- o. Contact Jerry Horne for training on lab equipment or chemicals used in research experiments.
- p. Exit the building immediately at the sound of a fire alarm.
- q. Report broken equipment to the lab engineer, Jim Horne. Label the equipment as broken.
- r. Do not attempt to repair equipment unless you are trained and certified.
- s. Avoid any operating potential hazardous equipment, handling hazardous material or engage in any dangerous activity when alone in the lab. If you are working alone, ensure a responsible person is aware that you are working alone.
- t. Ensure all beakers and containers with chemicals are clearly marked as to what chemical is in the container.
- u. Avoid marking the lids of the containers since they may become separated from the container.
- v. Follow all instructions for handling chemical waste.
- w. Attend all safety seminars and training sessions.
- x. Restrict and control contact with nanotubes. Ensure nanotubes do not become airborne in an unprotected area.
- y. Keep your work area clean.

Violations of these rules are grounds for dismissal from the program.

2. Building rules

- a. While you may eat and drink in designated areas, ensure areas remain clean.
- b. The break rooms are available as a privilege. Failure to keep the area clean may result in being restricted from the break room or dismissal from HPMI.
- c. No smoking within 50 feet of the building.
- d. Cubicles and desks will be assigned on a priority basis of Staff, Post-Docs, Doctoral students, Masters students and undergraduates.
- e. If you move furniture ensure you move it back to the original location.
- f. Do not post messages, signs or banners on walls.
- g. Students should park behind the building to save parking spaces for visitors.

3. Laboratory rules and ethics

- a. Each lab space is assigned a lab supervisor who will be responsible for the cleanliness and safety conditions in the lab.
- b. For energy efficiency, close fume hoods when not in use, and do not raise hoods above the designated height.
- c. All equipment, tools and materials are shared, but these resources are assigned to different groups and researchers for management purposes. Obtain permission to use equipment, tools or materials not assigned to you.
- d. Provide only constructive comments to other researchers and be respectful to other researchers' work.
- e. Do not stop or disturb other people's experiments or take another person's tools or supplies without permission, unless due to safety concerns.
- f. For major equipment and tools, the responsible researchers must coordinate times of use to ensure that all projects have access to resources. If a major facility or tool is required for more than 3 days, obtain your advisor's permission.
- g. All unattended research setups must have your name and contact information clearly visible.
- h. Use lab equipment and computers for instructional or research purposes only.
- i. Do not copy any computer programs.

- j. Do not save your personal programs or data to the laboratory computers.
Violations of these rules are grounds for dismissal from the program.
- 4. Equipment training and certification (HPMI Equipment Training Program)**
- a. HPMI has established an equipment training and certification program, which is discussed in a separate document.
 - b. Ensure you become familiar this program prior to using any equipment.
 - c. Non-HPMI personnel using HPMI equipment must have prior approval. See the request form on the site index of the HPMI website (www.hpmi.net).
- 5. Security**
- a. Never prop an outside door open. FSU police will respond when doors are left open after hours.
 - b. Do not open the large bay door after normal working hours without notifying FSU police. (644-1234).
 - c. Your FSU ID card serves as your access to the building and labs. Access for labs is assigned by W. Frank Allen based upon recommendation and approval of the researcher's advisor.
 - d. Everyone should swipe his or her own card when entering after hours. Be aware of "piggy-backers," meaning other people entering the building or a lab after you swipe your card. The person swiping the card will be the person recorded and may be held responsible for any damage.
 - e. The last person to leave the laboratory must ensure:
 - i. All equipment is turned off (unless designated by another researcher to remain in operation).
 - ii. All doors are locked.
- 6. Academic eligibility for HPMI personnel**
- a. Undergraduate students must have a 3.0 cumulative GPA or work demonstrating their ability to maintain a 3.0 semester GPA while working 10 hours per week in order to be a candidate for employment by HPMI.
 - b. Undergraduate students who fall below a 3.0 semester GPA during any semester while they are employed by HPMI are subject to have their employment terminated.
 - c. Graduate students pursuing a M. S. degree must have a 3.3 cumulative GPA in order to be a candidate for employment by HPMI.
 - d. Graduate students pursuing a M.S. degree who fall below a 3.3 semester GPA during any semester while they are employed by HPMI are subject to have their employment terminated
 - e. Graduate students pursuing a Ph.D. degree must have a 3.5 cumulative GPA in order to be a candidate for employment by HPMI.
 - f. Graduate students pursuing a Ph.D. degree who fall below a 3.5 semester GPA during any semester while they are employed by HPMI are subject to have their employment terminated.
 - g. If any student deems that exceptional circumstances led to their poor academic performance and subsequent termination, they may appeal the decision and provide an adequate explanation to the HPMI Director, in writing, within 5 days of their notice of termination. Decisions regarding appeals are final.
- 7. Export Control Information**
- a. Only U.S. citizens or Permanent Residents are eligible to be authorized for export controlled projects and information.
 - b. Room 104 or Lab 228 in the Materials Research Building are designated as the export control areas. No foreign nationals can enter these areas.

- c. Export Controlled data shall not be accessible to unauthorized persons. This includes briefings or even oral discussions that might release controlled data.
- d. Controlled data shall not be released to third parties via reports or briefings without written authority of the originating organization.
- e. Any duly authorized data transfers shall be performed through the Document Control Manager (W. Frank Allen) who will provide designation, tracking and documentation of all such transfers.
- f. Controlled data shall not be reproduced by users. If additional copies are needed, they shall be generated and inventoried by the Document Control Manager.
- g. Controlled data shall be under the physical control of an authorized person at all times. When not in use, data shall be in a locked container or desk; electronic files or programs should be closed so that access to them is denied to unauthorized users.
- h. If access to controlled data is infrequent, it should be returned to the Document Control Manager for long-term secure storage.
- i. If controlled data becomes obsolete or is no longer needed, it should be returned to the Document Control Manager for disposition. Unless otherwise directed by the terms and conditions of the specific contract, such data shall be destroyed or obliterated in such a way as to prevent reconstruction and unauthorized use, such as by shredding, disc/media destruction, file erasure, etc. The Document Control Manager shall update the inventory to record the date and means of destruction and who performed it.
- j. Controlled data shall only be displayed or processed in areas where physical access to displays or printouts is limited to authorized persons. If it is impractical to restrict access to an entire area or lab, the operator shall assure that visitors or unauthorized persons are not permitted access to view materials.

8. Materials and supply ordering procedures

- a. PLAN AHEAD – obtaining supplies will take time. Identify materials that will be required or may be required and order early.
- b. Items costing less than \$1,500 can be ordered with a single quotation. Items ranging in cost from \$1,500 to \$25,000 require two competitive quotes (quotes from other vendors) in addition to the preferred vendor's quote. Items costing more than \$25,000 should be handled by their advisor.
- c. Visit the site index at HPMI website (www.hpmi.net) to obtain the form for ordering supplies and for supplemental information.
- d. Keep records of orders (vendors and items and dates) that you have submitted for your future reference in the event that follow up inquiries are necessary.

9. Package pickup (subject to change)

- a. Items ordered through either university purchasing system will be delivered to the IE main office.
- b. Take the package ONLY AFTER the item has been recorded and ONLY IF your name is on the package.
- c. Questions regarding packages should be directed to John Taylor (jotaylor@eng.fsu.edu, 410-6341) or Shavaughn Robinson (robinsha@eng.fsu.edu 410-6646).

I certify that I have received, read, understand, and agree to comply with the HPMI Policies and Procedures for 2010.

Signature: _____

Print Name: _____

Date: _____