## **Center for Sustainable Energy at Notre Dame (ND Energy)**

Name:					ND ID#: 901	
Status:	□ REU	☐ Undergraduate	☐ Graduate	☐ Faculty	☐ Post Doc	
	N	/laterials Cha	racterizatio	on Facility	(MCF)	
		Laboratory Poli	icy and User A	greement Co	ontract	
nitial ead		elow and indicate you			the MCF Laboratory, read and y by initializing each statement	
AFETY						
1.	must be worr as well as an	n at all times in the laby y materials or chemic working in the wet ch	ooratory. Gloves m als. Protective ey	ust be worn alwa ewear, lab coats	shorts) and protective eyewear ays when handling your samples and gloves must be worn any hazardous chemicals. Hair mus	
2.	gloves, and di and measured equipment. Ir	sposable lab coats. If ment (e.g. goggles, fa	other protective e ce shield, respirate must get approval	quipment must or), it is the use	nent (PPE): eye glasses, nitrile be used during sample handling r's responsibility to provide this manager to use their own PPE	
3.	_	Irinking in the laborato	-	goods, including	g wrappers and containers, must	
4.	If a laboratory accident occurs, respond to all health and safety concerns first. If an emergency arises, call 911 from the laboratory phone or 574-631-5555 from a cell phone. Spills must be cleaned properly. A spill kit is located in lab. Inform facility manager of all accidents as soon as possible (office: 574-631-1493; cell: 574-229-2936; e-mail: ilightca@nd.edu). Call Risk Management for proper procedures at 574-631-5037 or after 5:00 p.m. at 574-631-5555.					
5.	following info  N  D  It  1  2  3  4  Re	and date". If you bring the second se	ng samples with of manager.  if known) ucture (if known) hazards: and/or moisture se izing agent?) t carcinogenic, stro	nsitive, instable,	nts, your last name and your Pl's sition, you need to provide the corrosive, acid base, strong adocrine disruptor, biohazard, ompound other than gloves, lab	
6.		at and safety glasses. ovide MSDS datasheet	s for all chemicals t	hey bring to the	MCF	

7.	If you intend to store your chemicals at the MCF, you must get the facility manager's permission. All chemicals must be signed (see paragraph 5) and stored properly, according to the safety regulations, depending on the hazard identification
8.	It is the responsibility of the user to inform the laboratory manager of all safety concerns regarding their sample handling and testing at the MCF prior to the experiment
9.	Project leaders, professors, and researchers are responsible for the proper training of their students and staff in safe laboratory practices, including the handling, transporting, and disposal of (bio) hazardous materials
10.	Highly toxic substances (toxicity grade 4) and samples that are explosive and/or flammable when in contact with air or moisture must be handled exclusively in the glove box. Only micro quantities (volumes below 0.2 ml or masses below 1 mg) are allowed to be taken out of the glove box in the securely sealed containers for measurements
11.	Sharps containers are located in all labs. Glass sharps and disposable glassware must be disposed only into the container with indicator "Glass sharps". Syringes with sharp needles, metal and other non-glass sharps should be disposed only into the container with indicator "Needles"
12.	Solid waste contaminated with hazardous chemicals and materials must be disposed in the designated waste bags stored in the fume hood (wet chemistry lab). Liquid waste should be disposed in the designated containers in the fume hood. MCF provides containers for non-chlorinated organics, chlorinated organics, acidic waste and basic/alkaline waste. If waste does not fit into one of the MCF designated waste streams (e.g. Hg or Cd contaminated wastes, radioactive or biological waste), the user must provide information from Risk Management on the appropriate disposal, provide the appropriate container, and properly label the waste for disposal.
13.	When transferring or filling liquid nitrogen, the user must always wear eye glasses, a face shield, and cryogenic gloves (provided by the MCF)
14.	No laboratory items are to be taken in to or disposed of in the MCF office area
15.	The user is not allowed to move or disconnect any equipment in the MCF including pressurized gas cylinders. If the user suspects a gas leak, he/she should immediately notify the facility manager
16.	The user must have a current record of a laboratory safety class or a laboratory safety refresher prior to being allowed to use MCF equipment or the wet chemistry lab
17.	The user transporting, handling and testing radioactive samples must have a current record of a radiation safety class or refresher. Samples of radioactive materials may only be transported on campus by a means that is in compliance with University policy. Radioactive or potentially radioactive samples should be brought to the MCF in proper containers and handled in the designated area only (marked with a floor tape). Samples may not be placed outside the designated area. When working with potentially radioactive materials, the designated area must be chain restrained from the rest of the laboratory. Following the testing and removal of radioactive substances, the user must conduct a swipe test of exposed areas of the lab and/or instrument.

18	Failure to follow all required safety policies may result in restricting or banning the user access to the MCF
19	The facility user must attend the Risk Management and Safety Laboratory Training Program and provide the MCF manager a copy of his/her general lab safety training card or most recent Safety Refresher Course. Program dates and registration information can be found at: <a href="http://riskmanagement.nd.edu/training">http://riskmanagement.nd.edu/training</a> .  ———
INSTRU	MENT USE
1.	Training and authorization by the facility manager is required before use of any MCF instrument. The user should not train other people. <u>Undergraduate students are not allowed to work alone without supervision or prior approval from the facility manager</u> .
2.	To use an instrument, the user must reserve a time through <u>cores.nd.edu</u> . If the user cannot make the appointment, they must cancel their entry as soon as possible. If the user scheduled more than a 4-hour measurement, he/she must notify the laboratory manager about cancellation. Failure to do so may result in extra charges. The instrument log book must be filled out every time the instrument is used
3.	No facility repairs or modifications of instruments or computers will be performed by anyone but the facility manager. This includes the installation of any personal software or games on the MCF computers
4.	The user must communicate to the facility manager any errors or problems with the instruments as soon as possible after problems occur
5.	The user is responsible for backing up data. The laboratory manager will perform regular data removal from all instruments and is not required to contact the user prior to data removal
6.	If a user's negligence or impropriety causes any damage, the user may be held monetarily responsible and/or may be banned from the MCF
USER R	ESPONSIBILITIES
1.	The user must leave all instrumentation, bench top areas, and other equipment clean and orderly. It is mandatory to remove all personal items and to clean up when finished each day. Storage of any items in the MCF is not allowed without permission from the facility manager
2.	The user must not remove any MCF property from the laboratories without permission from the facility manager. Anything signed out must be returned in a timely fashion in the same condition in which it was loaned, or the user will be responsible for replacement
3.	The MCF instruments are not to be used for personal consultation work or research that is not authorized by the University of Notre Dame
1	Laboratory doors must be securely closed when the user departs (even if temporarily)

5.	5. The user is responsible for disposing of hazardous waste (including bio-hazardous waste) and for cleaning the MCF equipment and lab space							
6.	Use of MCF instruments should be explicitly acknowledged in any publications that result from the user's research							
7.	In case of a tornado or other hazardous weather laboratory immediately and take the closest stawill be notified via the building announcement state.	airwell to the basement.	. When dange	er has passed, you				
RAINII	NG							
1.	All laboratory personnel are required to fulfill laboratory specific training.	specific University en	forced trainin	g classes and then				
	Training description		requency of raining	Where to get training				
Emerg	atory safety (Parts 1, 2, and 3) - Laser/uv safety, R ency action plan, unqualified electrical work, wo al records		x	ComplyND				
	atory fundamentals	Ye	early	ComplyND				
	ole fire extinguisher		early	ComplyND				
1.	The user should acknowledge the Materials Characterization Facility in all publications that have involved some use of facility equipment and/or instrumentation, or have benefitted from the assistance of the facility manager by using the following statement  We thank the ND Energy Materials Characterization Facility (MCF) for the use of the [insert instrument(s) here]. The MCF is funded by the Sustainable Energy Initiative (SEI), which is part of the Center for Sustainable Energy at Notre Dame (ND Energy).							
	POLICY AG ead and agree to uphold all MCF policies as outline esult in the loss of laboratory privileges.		y me. Disregar	d of these policies				
	User Signature	Date						
	Printed Name	Email Address						
	Department	Campus Phone						
	User NET ID	Advisor (Please Prin						