DARTMOUTH

Environmental Health & Safety

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New Laser Registration Form

Notes:

Section 1: Owner Information	
Principal Investigator:	
Department:	
Hinman Box:	
Phone Number: Date of Submission:	
Date of Submission:	
Section 2: Laser Management Information	
Building:	Laser Manager:
Room Number:	Emergency Phone Number:
Section 3: Laser Device Information	
Manufacturer:	Beam Divergence Measurement:
Model:	Enclosed or Open:
Serial Number:	Mode:
Laser Class:	Max Power Output:
Laser Type:	Average Power Output:
Laser Medium:	Power Output w/ Optics Used:
Wavelength/s (nm):	Pulse Duration (sec):
Tuneable:	Pulse Frequency (Hz):
Beam Diameter (nm):	Avg. Joules/Pulse:
Beam Divergence (mrad):	Max Joules/Pulse:
*To register laser devices that have been or will be modified of Modification/Fabrication Form.	or fabricated at the College, please include a Laser
Requirements	
BioRAFT "Laboratory Safety & Hazardous W	
lab (https://dartmouth.bioraft.com/raft	
BioRAFT "Laser Equipment Safety Training"	= -
(https://dartmouth.bioraft.com/rafttrain	
All laser users have/will complete laser specific	
All laser users that complete the Laser Specific	
Equipment-Specific Laser Safety Tra	
All laser users have reviewed the Laser Safety	
(https://www.dartmouth.edu/ehs/laser/	
Technical specs & manuals included with the r	
Standard Operating Procedure attached (Pg. 4)	
Laser Manager Signature:	Date:

Equipment-Specific Laser Training Form

Principal Investigator:	
Laser Training Manager:	
Dartmouth Laser ID Number:	
Laser Trainee:	
Date of Training:	
Section 2: Required Training Topic	Initial
1. Laser Area, Nominal Hazard Zones, Si	
2. Laser Safety Equipment and Personal	
3. Beam and Non-Beam Hazards	ovor. o z quipinoni
4. Turning on the Laser Device	
5. Turning off the Laser Device	
6. Emergency Stop or Deactivation Proce	ure
7. Alignment Protocols	
8. Accident Reporting	
9. Laser SOP	
10. Other Topics Discussed (please speci	r):
Please Sign Below and Log Training in	e Equipment-Specific Training Log:
Laser Training Manager	Laser Operator

Equipment-Specific Laser Safety Training Log

Principal In	Principal Investigator: Laser Location/s:				
Laser Safet	y Training Manager (if different)):			
Laser Make	e, Model, and Serial Number:				
Date:	User Name:	User Signature:	Manager Signature:		
Date:	User Name:	User Signature:	Manager Signature:		
Date:	User Name:	User Signature:	Manager Signature:		
Date:	User Name:	User Signature:	Manager Signature:		
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Date:	User Name:	User Signature:	Manager Signature:		
Date:	User Name:	User Signature:	Manager Signature:		
Date:	User Name:	User Signature:	Manager Signature:		

Laser Standard Operating Procedure

The Laser Standard Operating Procedure (SOP) should include information regarding, at a minimum:

- 1. A brief description of the laser including the make, model, power, and class
- 2. A description of any optical attachments, with diagrams and power output readings
- 3. A description of the laser area, nominal hazard zone/s, door/area signs, and warning labels used
- 4. How the laser will be used in the lab
- 5. Beam and non-beam hazards
 - a. Plans for exhaust, if applicable
 - b. Any chemicals/dyes used
- 6. What laser safety and personal protective equipment will be used
- 7. Instructions on how to use the laser including:
 - a. How to power on and off
 - b. Alignment protocols
- 8. Emergency procedures, including emergency stops, incident reporting procedures, fire extinguisher locations, and emergency contact numbers
- 9. A description of the security used for the laser
- 10. A lab diagram as detailed in the Laser Safety Handbook Section 4.4
- 11. Service/maintenance procedure for the laser