

Standard Operating Procedures # 12

Lab Name: The Prof. John L. Bryan Classroom

Lab Location: Building: J.M. Patterson (083) Room #: 3216

Laboratory director: Michael J. Gollner Page 1 of 1

1. Process:	Operation of Quartz Tube Furnace Apparatus.
2. Hazards:	Facility: High temperature Heater: contained flame, smoke, particulates, organic volatiles
3. Personal Protective Equipment:	Heat protective gloves.
4. Engineering \ Ventilation Controls:	Do not operate without exhaust ventilation ON.
5. Special Handling Procedures Storage Requirements:	Quartz tube and boat will become hot during and after the experiment. Be sure to use heat protective gloves before touching anything. Do not touch or modify electrical connections.
6. Spill containment/ Accident Procedures:	Stop work if any abnormalities occur with the heater. Unplug the heater and notify lab manager.
7. Waste Disposal	All broken glass (if any from the setup) should be placed in a proper container. All the residue from the experiment should be disposed of properly.
8. Required Approvals:	Lab workers must be trained by lab manager in proper use of compressed gas and heater. Any deviation from this SOP must be approved by the PI and/or lab manager.
9. Decontamination:	No decontamination needed.
10. Designated Areas:	Any area with appropriate ventilation clear of other flammable materials.