



**Principal Investigator:**

Bjorn Mysen, rm. R204  
ph. no. 8975

**Secondary Contacts:**

George Cody (R216 X8980)

**Emergency Information:**

Staff Member: 240-506-8427 (cell)  
BBR (Gary Bors): 202-510-8577  
All other emergencies: 911

**Purpose:**

Raman and infrared examination of microscopic samples at ambient and at high temperature and pressure with diamond cell attachment. Also available is a high-temperature heating cell (Linkam) and sample pre facilities for diamond cell and heating stage.

**General Laboratory Features:**

- (i) Do not offer to train any other user unless explicitly approved by responsible staff member. Otherwise, all training is done by responsible staff member
- (ii) All equipment brought into the lab or purchased for the lab must be approved by responsible staff member.
- (iii) Ensure familiarity with operating systems of individual equipment
- (iv) Use laser protective glasses whenever lasers are in use in the laboratory
- (v) Do not lean on instruments
- (vi) Ensure that objective lenses do not make contact with samples or any other object
- (vii) When in use, always leave a note near equipment indicating username, experimental conditions, and experimental duration
- (viii) Do not leave samples on workbenches or in microscopes after use
- (ix) The use of instruments after hours is not restricted. The repair of instruments is not to be attempted without responsible staff member's explicit approval
- (xi) Keep Laboratory Doors Locked during off hours unless you are actively using the facility.
- (ix) Fire extinguisher is located near entrance door
- (x) Emergency shut-off is located next to the entrance door
- (xi) DO NOT under any circumstances override safety locks

**Specific Laboratory Features:**

- Lasers operating at 785 nm, 514 nm, and 490 nm.
- NEVER look directly at laser beam. This can cause blindness.
- Always use safety glasses
- Compressed gas, storage, and disposal
  - (i) Appropriate regulators are required for compressed gasses. All compressed tanks must be stored in the storage area.
  - (ii) Unused tanks must have end-caps securely fastened.
  - (iii) All in-use tanks must be securely attached to fixed bodies, e.g. bench top.
  - (iv) Empty tanks are to be labeled "EMPTY" and returned to the loading dock storage area for pickup.

**Sample labeling and storage:**

This laboratory is not for sample storage. If you need to leave a sample behind before



proceeding to further sample processing, ensure that it is clearly marked with content and ownership.

**Laboratory User**

*I agree that I have thoroughly read and understood this laboratory safety document. I have access to this safety information at all times when I am working. I have been trained to be able to identify the hazards to which I may be exposed and to follow the work practices and procedures discussed in this document. I certify that I will conduct my research work safely and that I will be responsible for following stated safety policies.*

\_\_\_\_\_  
User Name (Print)

\_\_\_\_\_  
User Signature

\_\_\_\_\_  
Date

**Principal Investigator**

*I certify that the information presented in this safety document is accurate and complete. I agree to comply with all safety procedures and to fully train and supervise all researchers under my direction.*

\_\_\_\_\_  
PI Signature

\_\_\_\_\_  
Date