

## Department of Chemistry Equipment

### **Boeckman**

Gas chromatograph  
Polarimeter  
Solvent columns: Toluene, THF, Diethyl ether, Pentane, Dichloromethane, Dimethoxyethane  
UV-vis spectrophotometer  
Perkin-Elmer FT-IR  
Waters Analytical, SemiPrep, and Preparative HPLC Systems  
Spinning Band Distillation System  
Freeze Dryer  
2 Chromatatron Radial Analytical/Prep TLC Apparatus  
1 Prep and 4 small Kugelrohr Apparatus

### **Bren**

-80° Freezer  
High-speed Centrifuge  
Floor Model Incubator-Shakers  
FPLC System  
Scanning UV/vis Spectrometer  
Thermal Cycler

### **Dinnocenzo**

HP 6890 N capillary gas chromatograph  
Varian 1720 preparative gas chromatograph  
Rayonet RPR-100 and RPR-200 photochemical reactors  
Two optical benches with high pressure mercury arc lamps  
HP 8452A diode array spectrophotometer  
Glassblowing torch  
Solvent columns: Diethyl ether, THF, acetonitrile

### **Eisenberg (See McCamant if Prof. Eisenberg not in town)**

Potentiostat/Galvanostat  
Gas Chromatograph with FID & TC Detectors (H<sub>2</sub> detection)  
Spex Fluoromax 3 Fluorometer  
Vacuum Atmospheres Gloveboxes  
Photolysis apparatus  
Solvent columns: Diethyl ether, THF, hexane, dichloromethane

### **Fasan**

96-Well Plate Incubator Shaker  
96-well automated pipettors [2]  
PCR cycler  
Biosafety Cabinet for handling bacterial cultures  
Fast Protein Liquid Chromatography System

Fluorescent/Luminescence/VIS multi-well plate reader  
Gas Chromatography System with FID detector and Autosampler  
Incubators, Shaker Incubators, Centrifuges, DNA/protein gel electrophoresis, Sonicator  
Shimadzu UV-VIS Spectrometer  
Ultra Fast Liquid Chromatography System with Photodiode Array and Autosampler

### **Frontier**

HPLC  
Gas Chromatograph  
Polarimeter  
Solvent columns: dichloroethane, dichloromethane, THF, diethyl ether, toluene

### **Jones**

2 Photolysis Apparatus  
3 Dry Boxes  
Diode Array UV-vis Spectrometer  
GC & GCMS with autoinjector  
Solvent columns: THF, CH<sub>2</sub>Cl<sub>2</sub>, diethyl ether, pentane, hexane, benzene  
Electrochemical Apparatus  
Paar pressure reactors

### **Krauss**

Atomic Force Microscope (Digital Instruments Nanoscope IIIa)  
He Cryostat for Optical Microscopes (Cryovac)  
InGaAs Photodiode Array (Roper Scientific OMA V)  
Inverted Optical Microscopes (Nikon TE 300)  
Lock-in Amplifiers (EG&G) [2]  
Piezoelectric Scanning Stage (Mad City Labs)  
Silicon CCD Cameras (Roper Scientific VersArray 512 B and Spect-10)  
Spectrofluorometer System (Roper Scientific)  
Spectrometer Measurement System (Roper Scientific SpectraPro 300i)  
Various Lasers

### **McCamant**

Amplified femtosecond laser system for femtosecond transient absorption & Raman  
Triple-turret spectrograph (Acton SP-2300i) coupled to a CCD detector  
UV-Vis spectrometer  
CW Raman system with laser wavelengths from 355 to 830 nm, coupled to a triple spectrograph or a single spectrograph and cooled CCD detector.

### **Nilsson**

CEM Liberty Microwave-equipped automated peptide synthesizer  
Shimadzu HPLC Systems (for peptide analysis and purification) [2]  
Solvent purification columns: THF, diethyl ether, dichloromethane, DMF, acetonitrile

**Rothberg**