

2017 Chemistry Department – Supporting Equipment

Padnos Hall, Allendale campus

Optics Laboratory:

Diode-laser-based high resolution NIR absorption spectrometer
Sacher Lasertechnik TEC 500 diode laser
Nitrogen-laser-based emission lifetime apparatus
Laser Science VSL-337ND pulsed nitrogen laser
Modular Raman spectrometer
Power Technology LCM-T-111-20 20 mW CW YAG laser
Modular emission spectrometers based on laser pointers and small diode laser modules

Electrochemical:

CH Instruments 1200B Potentiostats (3 units)
Gamry Reference 600 Potentiostat/Galvanostat/ZRA
CH Instruments 7001E Bipotentiostat

Computational Resources:

Linex cluster with 10 nodes (each node possess 16 dual core CPU's)

Support Equipment:

Innovative Technologies Solvent Purification System (equipped with 4 solvents)
Innovative Technologies PureLab HE Glove Box with 2nd IT box attached
Barnstead E-Pure 4-stage water purification system
TA Instruments Q100 Differential Scanning Calorimeter
TA Instruments Q500 Thermogravimetric Analyzer
AAPPTec Apogee Peptide Synthesizer
Fisher Scientific Sonic Dismembrator 500 Ultrasonic probe
Biotage Turbovap II Concentrator Workstation (2 units)
Labconco FreeZone 1L lyophilizer
Thermolyne 62700 Muffle Furnace
Kugelrohr distillation apparatus
Benchmark Incubator-Shaker-Mini
Numerous electronic analytical balances
Numerous rotovaps

Cook-DeVos Center for Health Sciences (Grand Rapids, MI)

Support Equipment:

Large and small capacity autoclaves (4)
-80°C freezers (3) -20°C freezers (4)
Variable temperature dry bath incubator (6)
Walk-in cold-room (4°C)
Walk-in warm-room (37°C)
Long-term liquid nitrogen storage Dewar with low volume alarm
Labconco lyophilizer
UVP ECS Imaging system (for agarose gels/Coomassie gels/Western blots)
New Brunswick benchtop air shaking incubators (3)
Variable temperature countertop incubator (4)
CrystalCap HT system for manual and automated cryocrystallography experiments

Universal Pucks for crystal pin storage and automated sample mounting at LS-CAT (15)