

MAJOR EQUIPMENT

May 2009

<u>Spectrometric</u>	<u>Date Purchased</u>	<u>Approx. Cost \$</u>	<u>Location</u>
Cary 50 UV – Visible (3)	1999	14,000	501, 513, mobile
Cary 100 UV – Visible	1999	20,000	572
Nicolet 320 FTIR	1999	14,500	
Nicolet 360 FTIR	1999	16,200	
Perkin Elmer 1621 FTIR	1999	20,000	
EPR System, consisting of:	1997	Donation	basement
— Varian E-12 X-Band EPR		and \$50,000	
— Macintosh 2Ci and National AD/DA for EPR			
— Oxford ESR 900 4K Cryostat			
— Oriel 200W Hg UV light source			
Thermo Elemental ICP/MS (Plasma Quad Excell)	2001	128,500	456
Nexus 670 FTIR Spectrometer	2003	60,000	
Centaurus FTIR Microscope	2003	40,000	
Bruker AXS Inc WDXRF(54 Explorer)	2004	126,000	452
Bruker D8 Discover with GADDS XRD	2005	260,000	452
Perkin Elmer 343 Polarimeter	2004	17,000	
Thermo Electron SOLAAR S4 AAS	2006	55,500	513
Jobin-Yvon FluoroMax-4 Fluorometer	2008	30,000	513
<u>Electrochemical</u>	<u>Date Purchased</u>	<u>Approx. Cost\$</u>	<u>Location</u>
Polarographic System consisting of:	1976	10,000	565
—EG&G Parc 174A Polarograph			
—EG&G Parc 175 Universal Programmer			
—EG&G Parc 303 Electrode Stand			
Polarographic System consisting of:	1978	10,000	565
—EG&G Parc 364 Polarograph			
—EG&G Parc 175 Universal Programmer			
—EG&G Parc 303 A Electrode Stand			
Chronocoulometry System consisting of:	1980	6,000	565
—EG&G Parc 173 Potentiostat			
—EG&G Parc 179 Digital Coulometer			
EG&G Parc 129A Lock-in Amplifier	1984	5,000	565
EG&G Parc 173 Potentiostat/ Galvanostat	1999	13,500	565
Atomic Force Microscope/Scanning Tunneling Microscope with Electrochemical Cell	1999	74,000	448

<u>Chromatographic</u>	<u>Date Purchased</u>	<u>Approx. Cost\$</u>	<u>Location</u>
HP 6890 (GC) with 7683 autoinjector	1999	21,000	589
HP MSD5973 GC/MS with 7683 autoinjector	1999	87,000	513
Dionex DX120 with autosampler, Ion Chromatograph	2000	35,000	515
Shimadzu HPLC with autosampler	2005	45,000	515
Agilent 1200 series HPLC with autosampler, fraction collector	2009	73,000	513
Agilent GC-MS, 7890a GC, 5975C MS, ECD and autosampler	2009	82,900	513
<u>Miscellaneous</u>	<u>Date Purchased</u>	<u>Approx. Cost\$</u>	<u>Location</u>
Parr Model 1261 Calorimeter	1999	12,000	
Mettler DSC 20 Differential Scanning Calorimeter 2004		Donation	
Shimadzu TOC – V Carbon Nitrogen Analyzer with auto sampler nitrogen module TNIM-I and solid sample combustor unit SSM – 5000A	2004	47,000	515
Applied Biosystems 3100 – Avant Genetic Analyzer	2004	80,000	581
Applied Biosystems ABI Prism Hid Sds (Tower) 7000	2004	47,250	581
Nikon LV100 Polarizing Fluorescence Microscope	2007	40,000	579

Clean Room, Better than class 10,000 in the room, down to class 1000 in metal-free hood.
Room is metal-free.