

Major Equipment

January 2011

Housed in shared spaces within the departments of Chemistry and Physics, Astronomy, and Geosciences.

Chromatography

Type	Model	Features	Acquired
GC-FID	HP 6890	HP 7683 100 position autosampler	1999
GC-MS	HP 6890	HP 5973 MSD HP 7683 100 position autosampler	1999
GC-MS/ECD	Agilent 7890a	Agilent 5975C MSD ECD HP 7683B 100 position autosampler	2009
HPLC	Agilent 1200	100 position autosampler DAD and fluorescence fraction collector	2009
HPLC	Shimadzu	105 position autosampler DAD and fluorescence	2005
IC	Dionex DX120	autosampler	2000
IC	Dionex ICS-5000	100 position autosampler dual anion/cation capability	2010

Microscopy

Type	Model	Features	Acquired
AFM	DI Nanoscope IIIa	electrochemical cell	1999
Comparison (2)	Leica FS CB	dual Leica DM EP polarizing	2010
FT-IR	Centaurus	Nexus 670 spectrometer	2003
Optical	Nikon LV100	polarizing fluorescence	2007

Miscellaneous

Type	Model	Features	Acquired
Calorimeter	Parr 1261		1999
C/N analyzer	Shimadzu TOC-V	TNM-1 nitrogen module ASI-V 68 position autosampler SSM-5000A solid sample combustor	2004
DSC	Mettler DSC 20		2004
Genetic analyzer	ABI 3100-Avant		2004
Microwave reactor	CEM Mars		2010
Potentiostat	EG&G Parc 263A		2000
qPCR	ABI Prism 7000		2004

Soxhlet extractor	Foss Soxtec 2043		2009
Spectrometry			
Type	Model	Features	Acquired
CD	Jasco J-815		2010
EPR	Varian E-12 X-band	Oxford ESR 900 4K cryostat Oriel 200 W Hg UV light source	1997
FAAS	Thermo SOLAAR S4	Cetac ASX-260 120 position autosampler GFS97 graphite furnace with 60 position autosampler VP100 vapor system	2006
Fluorometer	Jobin-Yvon FluoroMax-4	sample heater/cooler dual polarizers	2008
FT-IR	Nicolet 320		1999
FT-IR	Nicolet 360		1999
FT-IR	Perkin Elmer 1621		1999
ICP-MS	Thermo PQ ExCell	Cetac 240 position autosampler	2001
ICP-TOFMS	GBC OptiMass 9500	cryocell Cetac LSX-213 laser ablation system	2010
NMR	Jeol 400SS (400 MHz)	24 position autosampler	2010
Polarimeter	Perkin Elmer 343		2004
UV-Vis (3)	Cary 50		1999
UV-Vis	Cary 100		1999
UV-Vis	Ocean Optics USB4000		2009
XRD	Bruker D8 Discover	GADDS detector	2005
XRF	Bruker AXS S4 Explorer	wavelength-dispersive	2004