

USER AND TRAINING FEES FOR UNDERGRADUATE EQUIPMENT (April 15, 2009)

	Instrument/Measurement	<i>User Fee (CND \$/hr)</i>			<i>Training Fee (CND \$/hr)</i>		
		<i>Internal (departmental), 1/2 hr minimum</i>	<i>External (university), 1 hr minimum</i>	<i>External (industry), 1 hr minimum</i>	<i>Internal (departmental), 1/2 hr min</i>	<i>External (university), 1 hr min</i>	<i>External (industry), 1 hr min</i>
1	Melting Point Apparatus	no charge	\$10hr to \$30/day max (1/2 hr minium charge)	\$15/hr to \$45/day max (1/2 hr minium charge)	10	15	20
2	Analytical Balance	no charge	\$10hr to \$30/day max	\$15/hr to \$45/day max	10	15	20
3	pH-meter	\$10/hr to \$30/day maximum (1/4 hr minium charge)	\$15hr to \$45/day max (1/2 hr minium charge)	\$20/hr to \$60/day max (1/2 hr minium charge)	15	20	25
4	Polarimeter	\$15/hr to \$45/day maximum (1/4 hr minium charge)	\$20hr to \$60/day max (1/2 hr minium charge)	\$25/hr to \$75/day max (1/2 hr minium charge)	20	25	30
5	UV-VIS Spectrophotometer (HP diode- array, OceanOptics CCD or other)	\$15/hr to \$45/day maximum	\$20hr to \$60/day max	\$25/hr to \$75/day max	20	30	40
6	FTIR Spectrometer with transmission, ATR and DRIFT accessories	\$15/hr to \$45/day maximum	\$20hr to \$60/day max	\$25/hr to \$75/day max	30	40	50
7	Fibre-Opic Fluorescence Spectrometer with broad UV-VIS excitation (OceanOptics)	\$15/hr to \$45/day maximum	\$20hr to \$60/day max	\$25/hr to \$75/day max	20	30	40
8	Scanning Fluorescence Spectrometer (Varian Eclipse)	\$20/hr to \$60/day maximum	\$25hr to \$75/day max	\$30/hr to \$90/day max	40	60	80

9	Flame Atomic Absorption /Emission Spectrometer (Varian and Perkin Elmer)	\$20/hr to \$60/day maximum	\$25hr to \$75/day max	\$30/hr to \$90/day max	40	60	80
10	Graphite Furnace Atomic Absorption Spectrometer for trace-level analysis	\$30/hr to \$90/day maximum	\$40/hr to \$120/day maximum	\$50/hr to \$150/day maximum	40	60	80
11	Liquid Chromatograph for gradient elution with UV-VIS Detector and Autosampler (Varian Inc)	\$20/hr to \$60/day maximum	\$30hr to \$90/day max	\$40/hr to \$120/day max	50	75	100
12	Gas Chromatograph with Flame Ionization Detector and Autosampler (Varian Inc)	\$20/hr to \$60/day maximum	\$30hr to \$90/day max	\$40/hr to \$120/day max	50	75	100
13	Bomb Calorimetry/Heat of Combustion Analysis	\$20/hr to \$60/day maximum	\$30hr to \$90/day max	\$40/hr to \$120/day max	30	50	60
14	Rheometry/Viscometry Measurements	\$20/hr to \$60/day maximum	\$30hr to \$90/day max	\$40/hr to \$120/day max	30	50	60
15	Contact Angle Measurements	\$15/hr to \$45/day maximum	\$20/hr to \$60/day max	\$25/hr to \$75/day max	20	30	40
16	Refractive Index Measurements	\$10/hr to \$30/day maximum (1/4 hr	\$15hr to \$45/day max (1/2 hr minium	\$20/hr to \$60/day max (1/2 hr minium	15	25	35
17	Cyclic Voltammetry Measurements	\$20/hr to \$60/day maximum	\$30hr to \$90/day max	\$40/hr to \$120/day max	30	50	60
18	Zeta-potential Measurements	\$20/hr to \$60/day maximum	\$30hr to \$90/day max	\$40/hr to \$120/day max	30	50	60

NOTE: It is recommended that users supply their own KBr plates for liquid phase measurements, as well as UV-Vis (quartz) cuvettes.

Should you choose to utilize the materials available in the undergraduate labs, in the event of breakage, your account will be billed for replacement.