

## USER AND TRAINING FEES FOR UNDERGRADUATE EQUIPMENT (May 15, 2014)

	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	<b>Melting Point Apparatus</b>	no charge	\$15hr to 100/day max	\$20/hr to \$150/day max	10	15	20
2	<b>Analytical Balance</b>	no charge	\$15hr to 100/day max	\$20/hr to \$150/day max	10	15	20
3	<b>pH-meter</b>	\$10/hr to \$30/day maximum (0.5 hr minium charge)	\$20/hr to \$45/day max (1/2 hr minium charge)	\$20/hr to \$100/day max (1/2 hr minium charge)	20	30	50
4	<b>Polarimeter</b>	\$20/hr to \$60/day maximum (0.5 hr minium charge)	\$25/hr to \$100/day max (1/2 hr minium charge)	\$30/hr to \$150/day max (1/2 hr minium charge)	20	30	50
5	<b>UV-VIS Spectrophotometer</b> (HP diode-array, OceanOptics CCD or other)	\$20/hr to \$60/day maximum	\$30/hr to \$100/day max	\$40/hr to \$150/day max	30	40	50
6	<b>FTIR Spectrometer</b> with transmission, ATR and DRIFT accessories	\$20/hr to \$60/day maximum	\$30/hr to \$100/day max	\$40/hr to \$150/day max	40	50	60
7	<b>Fibre-Optic Fluorescence Spectrometer</b> with broad UV-VIS excitation (OceanOptics)	\$20/hr to \$60/day maximum (0.5 hr minium charge)	\$25/hr to \$100/day max (1/2 hr minium charge)	\$30/hr to \$150/day max (1/2 hr minium charge)	20	30	50
8	<b>Scanning Fluorescence Spectrometer</b> (Varian Eclipse)	\$30/hr to \$100/day maximum	\$40/hr to \$150/day max	\$50/hr to \$200/day max	60	80	100
9	<b>Flame Atomic Absorption/Emission Spectrometer</b> (Varian and Perkin Elmer)	\$30/hr to \$100/day maximum	\$40/hr to \$150/day max	\$50/hr to \$200/day max	60	80	100

10	<b>Graphite Furnace</b> Atomic Absorption Spectrometer for trace-level analysis	\$30/hr to \$100/day maximum	\$40/hr to \$150/day max	\$50/hr to \$200/day max	60	80	100
11	<b>Liquid Chromatograph</b> for gradient elution with UV-VIS Detector and Autosampler (Varian Inc)	\$30/hr to \$100/day maximum	\$40/hr to \$150/day max	\$50/hr to \$200/day max	60	90	120
12	<b>Gas Chromatograph with Flame Ionization Detector and Autosampler</b> (Varian Inc)	\$30/hr to \$100/day maximum	\$40/hr to \$150/day max	\$50/hr to \$200/day max	60	90	120
13	<b>Bomb Calorimetry/Heat of Combustion Analysis</b>	\$20/hr to \$60/day maximum	\$30hr to \$90/day max	\$40/hr to \$120/day max	30	50	60
14	<b>Rheometry/Viscometry Measurements</b>	\$20/hr to \$60/day maximum	\$30hr to \$90/day max	\$40/hr to \$120/day max	30	50	60
15	<b>Contact Angle Measurements</b>	\$20/hr to \$60/day maximum	\$30hr to \$90/day max	\$40/hr to \$120/day max	30	50	60
16	<b>Refractive Index Measurements</b>	\$20/hr to \$60/day maximum	\$30hr to \$90/day max	\$40/hr to \$120/day max	30	50	60
17	<b>Cyclic Voltammetry Measurements</b>	\$30/hr to \$100/day maximum	\$40/hr to \$150/day max	\$50/hr to \$200/day max	40	60	80
18	<b>Particle size and colloid mobility (zeta-potential) measurements</b>	\$30/hr to \$100/day maximum	\$40/hr to \$150/day max	\$50/hr to \$200/day max	50	80	100

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.