



**BRANDON
UNIVERSITY**

Founded 1899

**GEOLOGY
DEPARTMENT
Micro Analytical
Facility**

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Brandon University Micro Analytical Facility

Services and User Fee Schedules
2009

LAB MANAGER:

Michelle A.E. Huminicki, PhD

Lab Steering Committee:

H. Mumin

A. Somarin

M. Huminicki

SCANNING ELECTRON MICROSCOPE:

The Brandon University Micro Analytical Facility now offers services for the newly operational JSM-6390LV/GS Scanning Electron Microscope (SEM) equipped with an Oxford Instruments INCA X-Act EDS detector as well as high quality analytical and imaging packages. Services are available to academic units, government, and the private sector. The two main functions of the SEM are imaging and determining material compositions.



JSM-6390LV JEOL SEM

SEM REMOTE LINK:

Brandon University's Micro Analytical Facility is dedicated to serving the community and will be offering a remote link service to the SEM as part of the Research Partners Program. This will allow research partners to access and drive the SEM using a virtual program from their own computers. Please contact the lab manager for more information about this service.

LAPIDARY SERVICES:

The Brandon University Micro Analytical Facility also contains a lab preparation facility using top of the line lapidary equipment and offers the following services:

- Crushing, sieving, homogenizing, cutting samples
- Epoxy embedded grain mount preparation using a *Struers Citovac*
- Fine-polishing of thin sections or grains mounts using a *Struers RotoPol-35* polisher
- Double-polished sections for fluid inclusion analysis
- Evaporated carbon or gold sputtered conductive coatings using a *Denton Vacuum Desk IV*

At Brandon University we realize that individual needs may vary from client to client and we encourage you to contact us to discuss your specific requirements. Please contact the lab manager for scheduling or any further questions.

SEM USER FEE SCHEDULE:

- Research (Recognized Scientific Research Grants)
 - i. Technician plus Machine \$40 / hr
 - ii. Machine only \$30 / hr
- Government
 - i. Technician plus Machine \$50 / hr
 - ii. Machine only \$40 / hr
- Industry
 - i. Technician plus Machine \$75 / hr
 - ii. Machine only \$50 / hr

*All prices subject to change

**Scheduling for the SEM can be made by contacting the lab manager

***Please note that pricing of SEM time is based on a minimum of 3 hours per session, all jobs that do not meet this minimum will be priced at \$75/hr

LAPIDARY FEE SCHEDULE:

- Coarse crushing (per 1-2kg sample) \$ 6.00
- Sieving to various size fractions \$ 5.00
- Homogenization (250g aliquot for grain mounts) \$10.00
- Cutting from hand sample (<10cm) INCLUDED
- Cutting from hand sample (>10cm) \$ 0.75/sq in
- Polished grain mount (32mm and 38mm diameter) \$35.00
- Regular Thin Section (27 x 46mm - 30 microns) \$18.00
- Polished Thin section (27 x 46mm - 30 microns) \$30.00
- Polished Thick Section (27 x 46mm - 200+ microns) \$25.00
- Double-polished wafers for fluid inclusions \$49.00
- Display Polishing (minimum \$8.00 per sample) \$1.00/sq in
- Impregnation \$3.00
- Conductive carbon coat or gold sputter INCLUDED
- Thin section scribing and grain mount labeling INCLUDED

Miscellaneous Items: i.e., CD, SEM mounts, storage vials, photo paper, thin section boxes, other consumables are cost plus ~50%

Ordering: Orders should be accompanied by a purchase order and sample list with detailed instructions and contact information; please include instruction for sample return, disposal, or storage

Shipping: Send to: Micro Analytical Facility, Department of Geology, Brandon University, 270-18th Street, Brandon, Manitoba, Canada, R7A 6A9, 1-204-727-7499

Sample Returns: Billed to client

Disposal Costs: \$1.00/sample

Storage: Samples can be stored for up to 6 months - after which, samples will be disposed of at the cost of the client

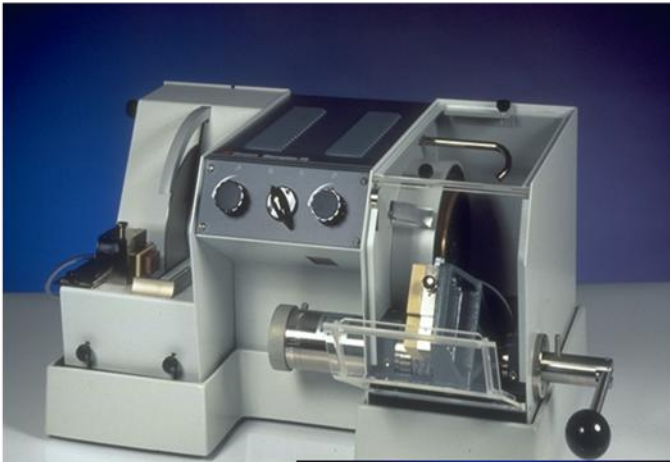
Discounts:

- For orders of 10+ samples will receive 5% discount
- For orders of 20+ samples will receive a 10% discount
- Contact lab manager for special rates for large orders

*All prices subject to change

For any questions or more details about these services, please contact the lab manager

SAMPLE PREPARATION - LAPIDARY EQUIPMENT



*DISCOPLAN-TS for
Cutting & Grinding*



*RotoPol for
Lapping & Polishing*



*CITOVAC for
Impregnation*



DENTON - Sputter Coater