

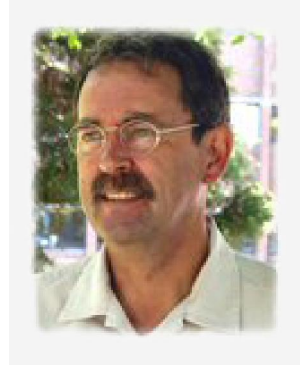


UNIVERSITY OF BRITISH COLUMBIA
NORMAN B. KEEVIL Institute of Mining Engineering

tel: 604 822 2540 fax: 604 822 5599 517, 6350 Stores Road, Vancouver, BC V6T 1Z4 www.mining.ubc.ca

**UBC Mining Engineering
Graduate Student Handbook
2007-2008**

Welcome from the Head of the Department



Welcome to the Mining Department. You join what I feel is a vibrant interdisciplinary group of scholars whose overall mission is to support industry and society in the development of technology and leading practices for mineral development. This has both a national and global context. It's a noble cause because not only do we strive to improve health and safety, efficiency and competitiveness but also to deal with growing needs for sustainable and responsible mining. We all need to be able to contend with a more holistic approach to resource development in an ever changing environment.

Your stay with us is an opportunity to become both a specialist and a generalist. You should be able to strengthen your interpersonal and communication skills. You will have a significant career impact on promoting change. Take the opportunity to interact with all of you.

We like to feel that we have an open collaborative approach to working as a team. Never hesitate to voice opinions or concerns in joining us to build a world class research environment that genuinely has value in its diverse impacts.

Again, welcome to our community! Work hard.

Malcolm Scoble
Professor and Department Head

Welcome from your fellow Graduate Students

Hello! You are joining a diverse, energetic, multicultural and multidisciplinary research group here at UBC Mining Engineering.

Graduate students participate fully in the life of the Department. Faculty and students have a warm, open and personal relationship here, which is essential in fostering a healthy academic community. We have a strong social and sporting focus, as well as trying to maintain good grades and complete a thesis at some point! Visits to Koerner's are a regular feature of research activities, there are a number of social highlights such as the CIM AGM and the Alumni Dinner which are not to be missed, and every year we try to enter teams in the Legacy Games as well as the intramural soccer and volleyball leagues.

Please feel very welcome, make yourself at home, and enjoy your studies at UBC Mining!

Mining Engineering Graduate Student Society

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Getting Organized

Pre-Arrival Preparations

Here's a basic list to get you thinking about your move to UBC:

- Check out websites for information pertaining to the University (www.ubc.ca), the Faculty of Graduate Studies (www.grad.ubc.ca), your Mining Engineering studies (www.mining.ubc.ca), graduate student organizations (www.gss.ubc.ca and Vancouver life in general (e.g. www.gss.ubc.ca/vancouver.htm, or www.georgiastraight.com).
- Contact your potential (or known) supervisor by phone or e-mail (see last page of this Guidebook).
- Get names of current students in your specialty group so you can e-mail them questions.
- If you know what courses you want to take, register for them (via the web: students.ubc.ca/ – see the Calendar, Course Schedule, and Registration links).
- Figure out your finances – the cost of living in Vancouver might be higher than you're used to.
- Find a place to live if you will not be in residence – looking for accommodation near UBC can be tough at the end of August. Plan to arrive early or arrange something beforehand. The UBC Housing and Conferences website (www.housing.ubc.ca) provides info regarding on-campus accommodations. Off-campus rental postings can be found at www.amsrentsline.com (or call 604-714-4848).
- Arrange to send over your personal stuff, bike, skis/snowboard...
- Plan to be settled in Vancouver before the various orientation sessions (see dates below) and before the start of classes at the latest (September 6th).
- When you arrive in Vancouver, head over to campus and sign in at the Mining Office! (Forward 517)

Important Dates

Matthew,

Since it is pain to copy the dates from the UBC website every single year, do you think we better put a link somewhere on this handbook for the important dates of the current academic year?

<http://www.students.ubc.ca/calendar/academicyear.cfm?page=2007&view=all>

First Term

Monday, 3 September 2007

Labour Day. University closed.

Tuesday, 4 September 2007

Academic Year begins.

Wednesday, 5 September 2007

Graduate Studies: last day for payment of September installment of tuition fees and payment of first instalment of fees for registration and course changes made before September 1.

Tuesday, 18 September 2007

Last day for withdrawal from most Term 1 courses without withdrawal standing of "W" recorded on a student's academic record. ****DEADLINE****

Monday, 8 October 2007

Thanksgiving Day. University closed

Monday, 12 November 2007

Remembrance Day. University closed.

Friday, 23 November 2007

Last day for withdrawal from most two-term courses with withdrawal standing of "W" recorded on a student's academic record.

Friday, 30 November 2007

Last day of classes for most Faculties

December 5 to December 19 inclusive

Exams

Second Term

Tuesday, 1 January 2008

New Year's Day. University closed.

Monday, 7 January 2008

Second term begins.

Graduate Studies: Last day for payment of January installment of tuition fees

Friday, 15 February 2008

Last day for withdrawal from most Term 2 courses without withdrawal standing of "W" recorded on a student's academic record ****DEADLINE****

February 18 to 22 inclusive

Reading Week
Friday, 21 March 2008
Easter Friday. University closed
Monday, 24 March 2008
Easter Monday. University closed
Friday, 11 April 2006
Last day of classes
April 15 to 29 inclusive
April examinations

Top 10 things to do in your first week at UBC

1. Meet with your Supervisor and then register (www.students.ubc.ca). Also discuss the possibility of a desk/office assignment.
2. Get a UBC card (www.library.ubc.ca) and a UPASS (www.upass.ubc.ca) at the UBC bookstore.**
3. Attend the various Orientation sessions (see www.gss.ubc.ca), and walk around on your own, or with classmates, to familiarize yourself with this massive campus!
4. Pay your fees. You can pay your fees by
 - § Electronic Funds Transfer (EFT), at the Student Service Centre. Click on "My Banking Info" to enter your banking information, and then click on "My Financial Account" to make the payment. *This is the preferred method of payment.*
 - § By touch-tone or online banking, available through most banks, credit unions. (Your student number is your account number.) Please contact your bank branch for details.
 - § Credit Card Online: Fee and deposit payments are accepted on the Student Service Centre. Log in and click on "My Financial Account". You will need VISA or MasterCard to use this option.
 - § By cheque or cash at any branch of HSBC Bank Canada. A Tuition Fee Payment Form must accompany the payment. Note: You do not have to be an HSBC customer to use this payment method.
 - § By mail. Cheques should be made payable to "The University of British Columbia" and must reach Enrolment Services by the due date. Send cheques to: Enrolment Services, The University of British Columbia, 2016-1874 East Mall, Vancouver, BC, V6T 1Z1.
 - § In person at Enrolment Services in the main concourse of Brock Hall at Point Grey Campus or Robson Square Campus. Students may pay by cheque or debit card only. Please note: No cash payments are accepted.**

5. Get keys (as many as possible!). ** \$\$
6. Get a Mining e-mail account
7. Get added to the Mining Mailing Lists. See Maria in the Main Office.
8. Come meet everyone at the Mining Grad BBQ (free burgers!)
9. Party it up at the AMS Welcome Back BBQ
10. Return Student information sheet to the Office.

** = long line-ups possible; \$\$ = money required

General UBC-Related Information

Campus-Wide Login (CWL)

Campus-Wide Login (CWL) is UBC's custom single sign-on application designed to give you access privileges to many online applications, using the same login username/ID and password. You will use your CWL to access such services as WebCT (online course tools – www.elearning.ubc.ca), Netinfo/Interchange internet access (see below), and the MyUBC web portal (my.ubc.ca). To create your CWL, go to www.cwl.ubc.ca and follow the instructions. At Step 3, you will be asked to enter your Netinfo/Interchange login and password. As a new student, you won't yet have this login and password, so enter whatever login and password you would like to use. Note that this login (username) will become your Netinfo/Interchange email address, so specify something recognizable, like your last name.

Netinfo/Interchange Internet & Email Services

All UBC students are encouraged to sign up for a free Netinfo/Interchange email account. This email account includes an email address (username@interchange.ubc.ca) and 20 free hours of dial-up Internet per 30 days access that you can use from your personal computer at home. In order to sign up for your Netinfo/Interchange account, you must first obtain a CWL, as described above. Then, proceed to www.netinfo.ubc.ca to create your Netinfo/Interchange account. Netinfo and Interchange are essentially the same UBC-based Internet service;

Netinfo administers the free dial-up Internet access whereas Interchange allows subscribers to purchase additional Internet time and services if desired. If you have a different email address that you prefer to use, you can set up your Netinfo/Interchange email to be forwarded to that other address (go to the "For Users" section on the Netinfo or Interchange websites: www.interchange.ubc.ca).

You can set up your email program (Outlook, Eudora, etc) to download your Netinfo email, or you can check your email from any computer via the MyUBC web portal: my.ubc.ca. The MyUBC interface allows you to use your Netinfo/Interchange email in a manner similar to Hotmail, and also provides access to your library withdrawal records and other useful information.

You should also sign up for a Mining email address, in order to keep up to date with the various Mining Engineering announcements. This is very important!

Wireless Access

UBC is equipped with high-speed wireless network almost everywhere on campus! It's very easy to use and it's free for UBC faculty, students and staff.

The UBC Wireless Network is one of the largest Campus Wi-Fi Networks in the world!

All you need is a laptop or PDA with a Wi-Fi compatible card and a self-subscribed Campus-Wide Login (CWL) account. For more details, please see <http://www.wireless.ubc.ca/gettingstarted.html>.

UBCCard (Library/Student Card)

All students must obtain a UBCCard. This card serves as both a student card and library card. To get your UBCCard, go to the UBC Bookstore and bring a piece of photo ID (and your old UBC library card if you have one).

U-Pass

The U-Pass is a program at UBC, in which all students receive a full access (3-zone) public transit pass at a cost of \$22 per month (automatically included in your tuition fees). The U-Pass allows you to ride any Translink bus, SkyTrain, or Sea Bus in the lower mainland for free.

As a UBC student you should never purchase a full-price transit pass!! You have already paid for your Upass through your student fees!

Sophos Anti-virus

It is very important to have your computer protected against viruses. At UBC Sophos Anti-Virus is available to all UBC students free of charge. To download, please see <http://www.itservices.ubc.ca/download/homelink.html>.

The Mining Department

Frank Forward & Surrounding Buildings

The Frank Forward building is home to the Mining Engineering department, as well as the Materials Engineering Department. This building is located at 6350 Stores Road and houses classrooms, laboratories, professors' offices, and graduate students' offices. The grad student photocopier is in the Main Office (FWRD 517).

Next to Forward is the CMP building (Centre for Coal and Mineral Processing) to the southwest (2332 West Mall). There are labs and graduate offices in the CMP.

The Department of Mining Engineering Office is located on the fifth floor of Forward (FWRD 517). Department Office hours are Monday to Friday, 8:30 a.m. to 4:30 p.m.

Graduate Advisors

The Graduate Advisor is Dr. Marek Pawlik (mpp@mininig.ubc.ca).

Mining Engineering Internet & Email Services

Mining email address can be obtained from Sally Finora (FWRD 503).

To register for the graduate mailing list (mine-grad), please email Maria (maria@mining.ubc.ca). This is very important for departmental announcements.

Mining Engineering Bulletin Board

- a. register for the forum (<http://www.mining.ubc.ca/bulletinboard/index.php>)
- b. once you are logged in, click on "Usergroups" on the top right of the bulletin board
- c. from the "Non-member groups" drop-down menu select "Students" and then click on "View Information"
- d. from the following screen select "Join Group"
- e. upon authorization, you can then view the restricted part of the bulletin board that only students can view.
- f. repeat step b to d for "Graduate Student"

**please note that it is better if you register on the bulletin board with a recognizable username (i.e., first initial + last name) so that your name can be checked against the list of current UBC Mining Students.

Copier Access

An access code for the photocopiers in the main office can be obtained from Maria (in the Main Office).

Office – Forms

The following forms are available at the Mining Engineering office:

- Summary Information sheet for graduate students
- Administration Guidelines (Ph.D, M.A.Sc. or M.Eng. as appropriate)
- Graduate Student Data form
- Course Request form (only used for special course arrangements)
- Key Request form

Please give all completed forms to Maria in the Main Office – expect a turn-around time of 2 days. If required, responses will be delivered to your mailbox.

Important Keys

A number of keys are commonly used by graduate students to get around the Department. Find out what keys are necessary from your supervisor or current grad students. The Mining Office has forms for keys (the *Key Request Form*). Take this form to Parking and Security in the General Service Administration Building (corner of University Blvd. and Wesbrook Mall, past the outdoor pool) – expect long line-ups at the start of the year. They will charge a one-time \$20 processing fee.

To prevent having to make repeat trips to the Main Office, and then to Parking and Security, it is a good idea to get every key you believe you will use right at the start of the year.

Some useful keys are:

- Building Entrances – Forward and CMP
- Applicable laboratories and offices

Note: Requests for keys will not be approved until the safety questionnaire (http://www.mining.ubc.ca/files/safety/Safety_Forms_Lists.xls) has been completed.

Graduate Mailboxes

These are located in the main office. Mail is filed under the first letter of your last name. It is a good idea to check your mailbox periodically.

Desk Assignments

Desks are available for M.A.Sc. and Ph.D. students only. They are assigned by your advisor.

Teaching Assistantships (TA's) / Markers

Teaching assistants at UBC are members of the local Union CUPE 2278. The Union requires applications for fall TA positions to be submitted in April, so incoming students are unlikely to have a TA position in the fall term. You can apply for winter positions

during the fall term – check with the Mining Department office for the due date. Ask your supervisor which courses s/he is teaching since they are involved in choosing their TA's. *Application Forms* are available in the Mining Engineering Department office.

Foreign students should also submit a copy of their Student Visa.

Registration

It is required that all students register for his/her thesis in **EVERY** semester at UBC.

Seminar

In order to obtain credits towards his/her degree requirements, each graduate student (Ph.D., M.A.Sc., M.Eng.) must give at least one seminar per year on a topic related to current research or past work experience. The seminar is also an excellent opportunity for the supervisory committee members to assess the quality and progress of the student's research, and to give the student a sense of future examinations.

The following format of the seminar is recommended:

- the student gives a 20-minute presentation followed by a 10-minute questioning session.
- questions may be asked by other students and faculty members.
- each seminar is chaired by a previous week speaker.
- each seminar is evaluated by faculty members using the following criteria
 - 1) presentation
 - a) speaking ability (5%)
 - b) clarity in presentation (15%)
 - c) organization of material (15%)
 - d) quality and use of visual aids (10%)
 - e) speaker's mannerisms (gestures, eye contact, etc.) (5%)
 - 2) technical content
 - a) knowledge of the subject (30%)
 - b) ability to answer questions (20%)

Each seminar should include an introduction to the subject to make the content of the presentation understandable to the multi-background audience. As a guideline, typically 15-20 well-organized slides/transparencies are needed for a 20-minute talk.

In order to receive valuable feedback on his/her performance, the student may request to review the evaluation forms. All evaluation forms are available from the Graduate Advisor

The graduate seminar is a forum to where students can get to know there fellow graduate students, learn about other interesting research areas in Mining and can participate in discussions on a wide range of topics. The grad seminar also represents a

regular meeting time for graduate students for announcements on graduate student activities.

Department Safety and Procedures

Complete safety procedures can be found at www.mining.ubc.ca/safety.html.

Note: To ensure compliance with this policy all members of the Department and visitors using the labs must complete a safety questionnaire and submit it to the office prior to using a lab. (http://www.mining.ubc.ca/files/safety/Safety_Forms_Lists.xls)

Note: A request for keys to Frank Forward and/or the Coal & Mineral Processing Lab (CMP) will not be approved until the safety questionnaire has been submitted.

GENERAL GUIDELINES:

For a more detailed outline of the Mining & Mineral Process Engineering Department's safety and environmental protection procedures, please see the main manual stored in the Main Office area, Room 503 or outside Chemical Stores in the basement of the Coal & Mineral Processing Labs building.

1. Personal Security

- a) No one may work alone in a potentially hazardous situation. Someone must be around to call for help in case of trouble.
- b) Students may work after regular hours in lab areas only with permission of the supervising technician or professor **and only when more than one person is present** in the lab and only when adequate training has been received.
- c) Theft is a general campus problem. Labs and offices must be kept locked when no one is working in them. Outside doors are to be locked after regular working hours and on weekends.
- d) To protect both the equipment and provide for safety, new users must first receive appropriate training or orientation in the correct procedure.

2. Housekeeping

- a) Prepare well in advance for lab work. Check with Pius or Sally to find empty space and proper procedures for chemical, samples and equipment you are using.
- b) Under **no circumstance** should chemicals, samples or equipment be stored in office areas.
- c) Keep your working area clean, especially when not in use.

- d) All samples must be stored in a **labelled container** at **all** times (even when you are present)
- e) All equipment in use must also be labelled
- f) If you are using hazardous material (e.g. mercury, cyanide, etc...) in a lab, please advise others who are using the facility by posting a notice on the door.

3. Training, Records and Hazard Analysis Requirements

The WCB requires MINING to provide proper direction and instruction to workers in the safe performance of their duties. This requirement is met by orientation, on-the-job training, and a variety of courses given by UBC's Health, Safety and Environment (HSE) Dept. At UBC, "*All faculty, staff and graduate students who handle hazardous materials are required to take a chemical safety course*". This course informs individuals on campus of the recommended practices for safe chemical handling according to WCB and WHMIS regulations as well as UBC guidelines.

Records of orientation and training shall be maintained to verify people have received adequate instruction to work safely. Please let the Department Safety Program (DSPA) administrator know if you have taken any safety-related courses.

Before any work is started in the lab areas, a Hazard Analysis Checklist should be completed for any work to be started. A copy of this is to be handed to the DSPA and will be kept on file. A copy should also be posted in the work area to alert others to possible hazards.

People who receive and sign for chemicals and materials classed as Dangerous Goods must have taken a "Transportation of Dangerous Goods - Receivers course".

4. In Case of Accident

If you are involved in any accident or incident (near-miss), please **notify immediately**:

- a) Your supervisor and/or the area supervisor
- b) The faculty representative Dr. Bern Klein (2-3986), or Dr. Rimantas Pakalnis (2-3988) if Dr. Klein is not available. Dr. Klein or Pakalnis will then notify the relevant authorities and start an Accident/Incident Investigation.
- c) If no-one else is available, notify Mining's Department Head or UBC's Health, Safety and Environment Department at 604-822-2029.

The WCB requires immediate notification of the occurrence of any accidents which resulted in death or serious injury, a major structural failure or collapse, involved the major release of a toxic or hazardous substance or was a blasting or diving accident.

5. **Fire**

Be familiar with the location of fire alarms, fire exits, and fire extinguishers. If you discover a fire or explosion, immediately sound the fire alarm and notify the Fire Floor Warden (M. Lui in the main office, Forward Building, or P. Lo in the Coal Building) or the Fire Safety Director (Mary Majer, 2-5648 for Forward Building or Sally Finora for the Coal Building). Attempt to control the fire with available fire equipment. If the fire is in a lab or a chemical storage area approach it with extreme caution due to the high risk of further explosions. If in any doubt, close the doors and leave by the nearest safe exit. Meet outside the building in the assembly areas until the building has been cleared to enter again:

- Forward Building - meet outside in front (towards Earth & Ocean Sciences)
- Coal Bldg - meet behind the MacMillan Building

Be aware of the different types of fire extinguishers. Do not use them indiscriminately.

If you hear the alarm, leave the building immediately.

For more information see the Emergency / Fire Plans for the Forward or CMP Buildings located in the red binders on the safety boards.

6. **First Aid**

First Aid box locations are:

- Forward Bldg - Room 503 and Main Office
- CMP, Room 200, 201, 304 (Assay Lab), 101 (Machine Shop)
- Ensure the treatment record sheets are filled out, even for minor cuts.

7. **Local Safety Committee**

The MINING Safety and Environmental Committee membership can be found on www.mining.ubc.ca/safety.html. The Safety and Environmental Committee is responsible for keeping records of inspections, training, etc.

8. **Chemical Hazards**

Note: know where eye wash stations & emergency showers are located

- a) **Containers** shall bear clear, legible labels which include name of substance, date, owner, etc. Proper storage, use, labeling and disposal procedures must

be followed. Only quantities of flammable, corrosive, unstable, highly reactive or toxic material may be present in working areas. Bulk or reserve quantities must be stored in separate storage areas not frequented by workers. Do not store chemicals in fume hoods.

- b) **WHMIS** (Workplace Hazardous Material Information System) must be understood. This includes proper labelling of containers and reading the **MSDS** (Material Safety Data Sheet) for any chemical with which you may not be familiar.
- c) **Flammable** and explosive liquids may not be stored in cupboards but should be stored in fireproof metal cabinets in no larger than 1 gal (~5L) size containers. (Fire extinguishers cannot handle a 5 gallon fire.)
- d) Do not store **incompatibles** together (e.g. Organic solvents in close proximity to oxidizing acids may result in an explosion or formation of corrosive products.)
- e) **Toxic** and dangerous chemicals (e.g. cyanide and hydrofluoric acid) must be stored in safe cabinets, preferably away from easy access.
- f) **Corrosive** chemical (acid and alkali) quantities in laboratories should be restricted to single, small daily-use containers. Eye protection should be available, as well as plastic carrying cases.

9. Waste Disposal

- a) **Chemical disposal** shall be done in a safe and efficient manner using UBC's Waste Disposal Service or Chemical Exchange Program. **Note:** There are problems in the CMP building associated with dumping chemicals, particularly acids, down the floor drains which connect directly to open slurry tanks. (hydrogen sulfide or cyanide gases could form.)
- b) **Broken glassware** or sharp edged waste should not be thrown in the normal waste bags but should be placed in separate marked containers

For more information regarding chemical hazards, refer to the MINING Safety Manual – sections on Laboratory Safety, Waste Disposal, and WHMIS

10. Equipment Hazards

- a) *Gas Cylinders* – Gas cylinders must be secured at all times during storage, use, or transport. Valve protection covers must be kept in position when cylinders are not connected for use.

- b) *Electrical Equipment* – It is essential that no unsafe wiring be carried out. You should check that electrical outlets are not overloaded. Also check that equipment is properly grounded, especially in wet areas. Lockout procedures must be followed for maintenance. *See the complete MINING Safety Manual – Electrical Hazards.*
- c) *Mechanical Equipment* – All machinery and equipment must be equipped with guards which provide adequate protection against contact with the moving parts, or which prevent access to dangerous areas during operation.
- d) *Evacuated or Pressurized Equipment* – Check that:
 - Pulley belts are properly guarded
 - Equipment containing mercury (especially pumps and gauges not in use) are sealed off from the lab whenever possible.
 - Mercury gauges and diffusion pumps are fitted with receptacles to collect spills in the event of damage to equipment.
 - Evacuated or pressurized vessels are suitably shielded to protect personnel from explosions or implosions
 - If liquid nitrogen is being used, ensure that oxygen is not condensing in traps and causing an explosion hazard by either exploding in the system or on contact with pump oil.
- e) *Tripping & Slipping Hazards* – Wires and water hoses must not lay across the floor in places where they are likely to cause someone to trip or pull the cable or hose out of place.
- f) *Workshop Safety Precautions* – All members of the MINING Department working in a workshop shall comply with Section 12 of the WCB Regulations – Tools, Machinery, and Equipment. Personal Protective Equipment (PPE) should be worn as required for workshop and laboratory safety. PPE such as hearing or sight protection, and gloves can be provided by the MINING Department or your supervisor.

11. Lockout Procedures

A proper lockout procedure shall be followed when doing maintenance or repair work on any possibly hazardous machinery or equipment. This involves placing a personal lock on the switched-off power source, and is necessary to avoid accidental starting of machinery or electrocution.

Organizations

Mining Engineering Graduate Student Society (MEGSS)

The MEGSS is the student-run group representing all graduate students in the Mining Engineering Department. It organizes social and sporting events and provides a forum for graduate student issues all year round.

Elections will be held at the end of September/beginning of October, and almost every position will be available. New students are encouraged to run for positions!! The incumbent executive (alphabetically) is:

Position	Name	Email
Chair	Andrew Bamber	bamber@mining.ubc.ca
Space and Equipment	Marjorie Colebrook	mcolebro@interchange.ubc.ca
Academic Support	Silvana Costa	scosta@interchange.ubc.ca
Industry Liaison	Trent Weatherwax	tweather@mining.ubc.ca
Social and Sporting/TA rep	Denise Nunes	deniseke@interchange.ubc.ca
TA rep	Jen Parry	jmparry@interchange.ubc.ca
CIM Liaison	Pooya Mohseni	pmohseni@interchange.ubc.ca

Please have nominations for new representatives into Maria (maria@mining.ubc.ca) by September 30th. Elections will be held during the first Grad Seminar in October.

GSS (Graduate Student Society)

The GSS is the governing body for all graduate students at UBC. It has council meetings once a month. The meetings are open to all graduate students (even those who are not councillors). The GSS has a web site with valuable information at www.gss.ubc.ca. They also send out weekly notices of events. To subscribe see "GSS notes" on their web site. Attend the meetings and get FREE PIZZA as you help to run our student government.

FoGS (Faculty of Graduate Studies)

As graduate students, we are enrolled in the Faculty of Graduate Studies and *not* the Faculty of Applied Science as some might expect. Students can be involved in the decision-making process at FoGS council meetings.

AMS (Alma Mater Society)

Every student at UBC is a member of the AMS. It "supports all student activities." The AMS runs facilities based in the SUB (Student Union Building) which is the home of various pubs and restaurants, club offices, meeting rooms, copy shops, movie theatre, shops, etc., and at Whistler Mountain, the UBC Whistler Lodge. The AMS provides

many services for students including a student day-planner/guidebook (pick one up in September), and the Rentsline (604-714-4848) for finding accommodation. *Check out their website www.ams.ubc.ca for full details.*

Outside of Class...

Sports

UBC offers an extensive intramural program (also known as The Legacy Games), including volleyball, soccer, basketball, field hockey, ice hockey, ultimate frisbee, and many more. Usually Mining grad students form their own teams for one or more sports, or you can join a team through residence or other contacts. The GSS also assembles teams if you can't find enough people to form your own. The WEGSS Sports Representative will gather names in the fall (via email) to see if there are enough Mining grads to make teams. Most sports have different divisions, so don't worry about your skill level. Look for details throughout the year, and take a look at www.legacygames.ubc.ca.

Apart from intramurals, UBC has many sporting and recreational clubs such as diving, sailing, skiing, outdoors, and orienteering. Stay tuned for Club Week in the SUB early in September.

Social Events

The MEGSS organizes social events throughout the year for graduate students and their friends and family. A sample of past year's events: Department-wide BBQs, end-of-term parties at local pubs,

During the summer we have weekly an occasional Friday afternoon at Koerner's for drinks, and special events like white water rafting, hiking, camping, and golfing. Each speciality group also organizes their own meet-and-greets, BBQs and potlucks throughout the term.

Food

If you bring your lunch to school, there is a fridge and microwave in the Main Office Coffee Room (FWRD 517).

If you prefer to buy your lunch, there are many different places to eat on campus. The Barn is closest to Forwar. There is also a Bread Garden café in the southwest corner of the nearby Forest Sciences Centre (2424 Main Mall). More variety and better deals can be found in the many eating areas of the SUB (Student Union Building). Or go a bit farther to the Village on University Boulevard.

Top 10 things to do on campus

1. Go for a walk/run/bike in Pacific Spirit Park surrounding campus.
2. Join an Intramural sports team or an AMS club.
3. Go to the beach on a sunny day.
4. See a movie at the Norm Theatre in the SUB for only \$3. Schedules are at www.ams.ubc.ca/clubs/filmsoc or call 604-822-3697.
5. Have food/drinks at the Grad Student Centre (Thea's or Koerner's).
6. See a UBC football/basketball/volleyball/rugby/... game.
7. Eat your lunch in the Japanese Rose Garden or the Botanical Gardens.
8. Visit the Museum of Anthropology (free after 5 p.m. Tuesdays for general public, and free at all times during 2005-20046with student card).
9. Go for a swim at the Aquatic Centre (free with student card during specified times).
10. Check out the activities at the Student Recreation Centre (SRC).

Acronyms and Jargon

AMS Alma Mater Society
APEGBC Association of Professional Engineers and Geoscientist of BC
CIM Canadian Institute of Mining, Metallurgy and Petroleum
CMP Centre for Coal and Mineral Processing building
IAC Industry Advisory Committee (Departmental)
MEGSS Mining Engineering Graduate Student Society
FWRD Frank Forward building
EUS Engineering Undergraduate Society
FoGS Faculty of Graduate Studies
GSS Graduate Student Society
RA Research Assistantship
SRC Student Recreation Centre
SUB Student Union Building
TA Teaching assistant

Useful Websites

UBC Websites:

University of British Columbia www.ubc.ca
Department of Mining Engineering www.mining.ubc.ca
Faculty of Graduate Studies www.grad.ubc.ca
Alma Mater Society www.ams.ubc.ca
Graduate Student Society of UBC www.gss.ubc.ca
Student Services students.ubc.ca
Housing and Conferences www.housing.ubc.ca
AMS Rentsline www.amsrentsline.com
Libraries www.library.ubc.ca
IT Services www.itservices.ubc.ca
Campus-Wide Login www.cwl.ubc.ca
Netinfo www.netinfo.ubc.ca
Interchange www.interchange.ubc.ca
WebCT (Online Course Tools) www.elearning.ubc.ca
Trek UBC (Transportation Information) www.trek.ubc.ca
Intramurals (Legacy Games) www.legacygames.ubc.ca
Cycling Club www.ubc-cycling.com
Film Society (Includes Norm Theatre show times) www.ams.ubc.ca/clubs/filmsoc
Sailing Club www.ubcsailing.org
Ski and Board Club www.ubcskiandboard.com
Varsity Outdoors Club (VOC) www.ubc-voc.com
Other UBC Clubs (there are about 200 of them!) www.ams.ubc.ca/clubs

Other Websites:

APEGBC www.apeg.bc.ca
CIM www.cim.org
Translink (Public Transit) www.translink.bc.ca
Georgia Straight Newspaper (Arts & Entertainment) www.georgiastraight.com

Phone Numbers

Notes:

All telephone numbers below are preceded by area code 604. When dialing a campus number from a campus phone, the 604-82 may be omitted

info@mining.ubc.ca, www://mining.ubc.ca

Name	Title	Room	Local	Email
Faculty				
Chessor, Ed	Sessional Lecturer		2-9707	echessor@interchange.ubc.ca
Dunbar, Scott	Associate Professor	Forw. 517F	2-4725	wsd@mining.ubc.ca
Ebrahimi, Anoush	Sessional Lecturer	Forw. 011	2-0073	
Folsom, Tyler	Team Thunderbird Leader	Forw. 430A	2-6217	tfolsom3@earthlink.net
Ghomshei, Mory	Cerm3 Manager	Forw. 430A	2-6217	mory@interchange.ubc.ca
Hall, Robert	Associate Professor	Forw. 511	2-0066	rah@mining.ubc.ca
Hitch, Michael	Assistant Professor	Forw. 530A	7-5089	mhitch@mining.ubc.ca
Klein, Bern	Associate Professor	Forw. 507	2-3986	bklein@interchange.ubc.ca
Laskowski, Janusz	Professor Emeritus	Forw. 015	2-4949	jsl@mining.ubc.ca
Meech, John	Professor	Forw. 407	2-3984	cerm3dir@mining.ubc.ca
Miller-Tait, Logan	Sessional Lecturer			
Mills, Dawn	Sessional Lecturer	Forw. 011	2-0073	pdmills@interchange.ubc.ca
Pakalnis, Rimas	Associate Professor	Forw. 513	2-3988	rcp@mining.ubc.ca
Pawlik, Marek	Assistant Professor	Forw. 506B	7-5034	mpp@mining.ubc.ca
Scoble, Malcolm	Professor & Head	Forw. 517C	2-8897	malcolms@interchange.ubc.ca
Sinclair, Alistair	Sessional Lecturer		2-3086	asinclair@eos.ubc.ca
Solomon, Frances	Sessional Lecturer	Forw. 430A	2-6217	fsolomon@interchange.ubc.ca
Veiga, Marcello	Associate Professor	Forw. 509	2-4332	veiga@mining.ubc.ca
Wilson, Ward	Professor and Chair, Mining and the Environment	Forw. 515	2-6781	gww@mining.ubc.ca
Staff				
Baldwin, Jill	Research/Project Manager	Forw 506A	2-6717	jillmb@mining.ubc.ca
Finora, Sally	Surface Chem Tech; IT Support	Forw. 503	2-4292 205-0134 Pgr	smf@mining.ubc.ca
Jellis, Keith	Machinist	CMP 101A	2-3987 205-0169 pgr	keithj@mining.ubc.ca.
Lo, Pius	CMP Technician	CMP 301	2-5044	piuslo@interchange.ubc.ca
Lui, Maria	Graduate Secretary	Forw. 517A	2-2540	maria@mining.ubc.ca
MacLachlan, Malcolm	dminsitrator	Forw. 517E	2-4502	mac@mining.ubc.ca
Mosterd, Leslie	Financial Clerk	Forw. 517D	2-3829	leslie@mining.ubc.ca
Conference Room		Forw 519A	2-8122	-
Reading Room		Forw 517G	2-1484	

Students @ Forward				
Grad Students	Environment Lab	Forw 510	2-3641	Louis, Mike, Judy Silvana, Carolina, Juan, Jozsef, Manuel, Jesse, Denise Rodolfo, Sam, Sepehr, Jie, Pooya, Ladan, Colleen
Grad Students	Environment Lab	Forw. 506C	2-1247	
Grad Students	Mine Design Lab	Forw. 512	2-4642	
Students @ CMP Lab 2332 West Mall				
CMP Foyer (unattended)		CMP	3-8857	Trent, Mark, Charlene Marjorie Cristian, Paul
Grad Students	Assay Lab	CMP 303	2-2745	
Grad Students		CMP 304A	2-2067	
Grad Students	Rock Mechanic Lab	CMP 310A	2-2946	
Grad Students		CMP	2-0937	
Miscellaneous				
Computer support	Andrew, Brian	Kaiser	7-5151	Ron Siy (2-9450)
Courier	<i>DHL (604) 278-3984</i>	<i>Progressive (604) 273-3344</i>		quote the speedchart
Budget Rent A Car			656-8888	
Vancouver Taxi			871-1111	Pick up from Orchard House 2336 West Mall
Yellow Cab			681-1111	