Congratulations to our Graduates:

Gems and Mineral Foundation Award
Michael Galicki - Spring 2010

Graduate International Research Travel Award
Jolene Sorge - Summer 2010
Reid Staples - Summer 2010

Graduate Entrance Scholarship
Reid Staples - Summer 2010

Graduate Fellowship Recipients
Nathaniel Wilson - Fall 2010

NSERC
Shannon Frey - Fall 2009
Meghan Hewton - Fall 2010
Reid Staples - Fall 2010
Andrea Wolter - Fall 2010

PCGS
Andrew La Croix - Fall 2010
Petro Canada Scholarship
Chad Sisulak - Spring 2010
PhD Research Stipend
Marit Heideman - Spring 2010
Marc-Andre Brideau - Spring 2010

Congratulations to our Undergraduates:

NSERC-USRA
Carrie-Anne Hancock - Summer 2010
Megan Jamer - Summer 2010
Meghan Kline - Summer 2010
Timothy Peters - Summer 2010

VPR-USRA
Lara Loughrey - Summer 2010
John Mayer - Summer 2010
Deepak Varshney - Summer 2010

~ 1 ~
### AWARDS & HONORS

#### Student Award Recipient

Nick Roberts' project will improve understanding of landslide controls and activity in the La Paz area through a combination of geologic field investigation and remote sensing, focusing on newly available data provided by RADARSAT-2. The student award will provide part funding for fieldwork and data in support of this research.

#### Dean of Graduate Studies Convocation Medal

Congratulations to Marc-Andre Brideau in receiving the Dean of Graduate Studies Convocation Medal. This award recognizes graduating students from each faculty whose cumulative grade-point averages place them in the top five percent of their class.

#### DEGIRS Bursary (Division of Engineers and Geoscientists in the Resource Sector)

Jim McDonald won the DEGIRS Bursary in 2009 for his research on the impact of root reinforcement and windthrow on landslide initiation on Vancouver Island. The bursary is awarded by APEGBC to a 4th year undergraduate or a graduate student in geoscience/engineering whose research is focused on the resource sector which includes forestry, mining, and hydroelectric.

#### Student Award Recipient

Congratulations to Rafael Cavalcanti de Albuquerque on receiving an award from The Geological Society of America. His proposal was also recognized as having exceptional merit in conception and presentation and was one of twenty chosen among 538 applicants! Look for an announcement published in the upcoming July issue of GAS Today.

#### Faculty of Science Excellence in Teaching Award

Chad Sisulak is the recipient of the Dean of Science Excellence in Teaching Awards 2009/2010 Graduate Student Teaching Assistant Award. Congratulations Chad!

#### Governor General Gold Medal Award Recipient

Congratulations to Lesley Dampier for receiving the Governor General’s Gold Medal at the May 28th Convocation Ceremonies at the University of Northern BC. Not only did she receive the Governor’s Medal, she was also the valedictorian.

Lesley has been seen in and around SFU Earth Sciences as she was co-supervised by John Clague.
EARTH SCIENCES HOCKEY GAME
The 3rd Annual Earth Sciences Hockey Game was a great success! Faculty, staff, alumni, graduate and undergraduate students from the Department participated in the 3rd Annual Earth Sciences Hockey game on March 5th, 2010. While the first period was a little lop-sided with the white team scoring far too many goals, the play evened up in the second period. Thank you to everyone who participated.

EARTH SCIENCES SOCCER TEAM
I would like to write these few soccer lines, a few weeks before the 2010 FIFA World Cup, because the Earth Sciences Department, in addition to its talented scientists and joyful pub regular customers, has now become famous also for its soccer team. "The (Rolling) Stones" is the most appreciated team of the SFU intramural soccer tournament, and the only graduate student team. Actually, one day Tom heard a spectator, obviously very impressed, saying: "they are quite fit for old guys!" I don't know how to take that ... but anyway, although it is not always the most successful team, it has its moments of glory!!!

The people who have contributed to its popularity over the last two years include Shannon (who designed the now famous black jersey with a caution rockfall sign), Francesca, Nathalie, Kirsti, Jolane, Helena, Rafael, Jeff, Gabe, Tom, Michael, Jordan, Guillaume, Harm, Sung, Shahin, Chad, Peter and Matthieu (captain).
## STUDENTS

### SCIENCE DEGREES

<table>
<thead>
<tr>
<th>Student</th>
<th>Thesis Title</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SPRING 2010</strong></td>
<td></td>
</tr>
<tr>
<td>Marc-Andre Brideau (PhD)</td>
<td>Three-Dimensional Kinematic Controls on Rock Slope Stability Conditions</td>
</tr>
<tr>
<td><strong>FALL 2009</strong></td>
<td></td>
</tr>
<tr>
<td>Karin Fecova (MSc)</td>
<td>Conuma River and Leagh Creek intrusive Complexes: Windows into mid-crustal levels of the Jurassic Bonanza arc, Vancouver Island, British Columbia</td>
</tr>
<tr>
<td>Catherine MacLaurin (MSc)</td>
<td>Sedimentology, stratigraphy, and provenance of the Lower Cretaceous Jackass Mountain Group, Chilko Lake area, British Columbia, Canada</td>
</tr>
</tbody>
</table>

### DEFENSES & COLLOQUIUMS

**Mattieu Struznegger** will defend his PhD Thesis on "Multi-scale characterization of rock mass discontinuities and rock slope geometry using terrestrial remote sensing techniques" on Tuesday, June 29th, 2010.

**Stephen Newman** will present his MSc Colloquium on June 24th, 2010. Title: "Geology and displacement history of a slowly deforming, glacially debuttressed rock slope in the Alaska Range"

**David Sacco** will present his MSc Colloquium on June 22nd, 2010. Title: "Surficial geology and Quaternary history of the McLeod Lake map area (NTS 93J), central British Columbia"

**Sarah Brown** defended her PhD Thesis on "Geology and geochronology of the southern Okanagan Valley shear zone, southern Canadian Cordillera, British Columbia" on Tuesday, June 1st, 2010

**Oscar Nielsen** presented his MSc colloquium on May 17th, 2010. Title: "Petrology, Geochronology, and Geochemistry of the Bonnet Plume River Intrusions: Constraining the Age and Source of Igneous Clasts in the Wernecke Breccias, Yukon Territory, Canada"

**Elizabeth Westberg** defended her MSc Thesis on "The Tectonometamorphic and Structural Evolution of the Yukon-Tanana and Cassiar Terranes in the Mendocina Creek Area: Implications for the Tectonic Framework of South-Central Yukon" on Thursday May 20th, 2010.

**Derek Turner** presented his PhD Oral Comprehensive Exam on April 16th, 2010. Title: "Late Pleistocene Tephrochronology and Paleoenvironments of the White River and Silver Creek, Southwest Yukon."

**Marc-Andre Brideau** defended his PhD Thesis on "Three-Dimensional Kinematic Controls on Rock Slope Stability Conditions" on Wednesday, March 31, 2010.

**Kirsti Medig** presented her MSc Colloquium on December 11th, 2009. Title: "Stratigraphy, Geochronology, and Paleo-environmental Reconstruction of Proterozoic Pinguicula Group, Wernecke Mountains, Yukon."

**Chad Sisulak** presented his MSc Colloquium on November 10th, 2009. Title: "Development of Inclined Heterolithic Stratification (IHS) in a Tidally Influenced River, Fraser River, British Columbia."
RESEARCH GROUPS

RESEARCH

SFU Earth Sciences students and research groups appear in the current issues of North of Ordinary, Air North’s in-flight magazine (Winter 2009), and Canadian Geographic (January/February 2010). Derek Turner and members of Gwenn Flowers’ Glaciology Research Group appear in the first article about student researchers conducting field work based out of Kluane Lake Research Station: http://view.vcab.com/?vcabid=geaSecrgrSgjhae (starting on pg. 37). The current issue of Canadian Geographic is dedicated to the recent International Polar Year (2007-2008) and includes an article about the research base station itself: http://www.canadiangeographic.ca/magazine/jf10/kluane-research-station.asp.

Editorial Office for the Canadian Water Resources Journal (CWRJ) now based at SFU. In February 2010, Diana Allen joined Earth Sciences Adjunct Professor Paul Whitfield as co-editor of the Canadian Water Resources Journal. The journal was first published in the fall of 1976 and it has grown in stature to be recognized as a quality and important publication in the water resources field.


Groundwater Resources Research Group

Earth Sciences Adjunct Professor John Moore teamed up with UBC emeritus Hugh Greenwood last fall to deliver a three-week community education course on Salt Spring Island, entitled “Origins of Salt Spring: a Geological Tour”. The course, which included two all-day field trips, was delivered to a dozen enthusiastic adult participants. Hugh has recently completed the re-mapping of Salt Spring and the result, in collaboration with the BC Geological Survey, is available for download at http://www.empr.gov.bc.ca/Mining/Geoscience/PublicationsCatalogue/OpenFiles/2009/Pages/2009-11.aspx.
The Association for Mineral Exploration BC would like to thank Hanson Wong and Nathalie Vigouroux-Caillibot for their participation in the Mining for Society Show. Mining in Society was held as part of the Canadian Institute of Mining and Metallurgy’s (CIM) annual meeting which is held in Vancouver only once every five years. The show was open to members of the general public and to pre-booked school groups. Nearly 5700 students, 250 teachers and countless parents from over 90 schools across the Lower Mainland visited Mining in Society this year.

NSERC RENEWALS

Congratulations to John Clague, Gwenn Flowers, Doug Stead, & Brent Ward on their NSERC renewals.

CANADA RESEARCH CHAIRS

Gwenn Flowers has been renewed as a Tier 2 Research Chair in Glaciology. Her current research involves field observations and computer modeling of glaciers in western Canada in response to climate change. The work has direct relevance to Canada's water resources and natural hazards, particularly those in B.C.

John Clague has been renewed as a Tier 1 Research Chair in Natural Hazards. His current research involves studying hazardous earth processes including earthquakes, tsunamis, landslides and floods; research into the impact of climate change on the landscape, vegetation and humans. The work aims to reduce the vulnerability of Canadians and Canada’s economic infrastructure to natural disasters and climate change.
FIELD TRIPS

Students in EASC 306 (Field Geology II) attended a 13-day course in the southern Okanagan in late April and early May. The weather was unusually damp and chilly but all exercises were completed and the students had a great time. Students: Camille Christiansen, Katee Doyon, Carie-Ann Hancock (with hand on rocks), Meghan Kline, Duncan Mackay, Ryuji Marumo, Timothy Peters, Deepak Varshney, Christopher Weldon, Hanson Wong. Instructors: Robbie Dunlop, Derek Thorkelson, Kirsti Medig, Technician Matt Plotnikoff and guest instructor Brent Ward.
VISITORS

We are pleased to welcome Mauro Werder who joined the Glaciology Group as a Post-doctoral Fellow in January 2010 having successfully completed his PhD at the Laboratory of Hydraulics, Hydrology and Glaciology at the Swiss Federal Institute of Technology. The focus of his research is the glacial drainage system.

Draga Talinga joined SFU as a Post-doctoral Fellow in Feb 2010 having received her PhD in Geophysics at the University of Calgary. Her current research is the tomographic inversion of first-arrival traveltimes to better understand the geological evolution and geometry of structures in the Nechako Basin, BC.

Dr. John Orwin will be joining the SFU Earth Sciences Department in August 2010 on Sabatical leave from the University of Otago, New Zealand. John will be a familiar face around here as he spent three years as a post-doctoral fellow and manager for the Centre for Natural Hazard Research.

Gwenn Flowers has a visiting Grad Student - Pierre Jounieux from France from May - August 2010.

NEW FACES

PhD Student Marit Heideman welcomed her new little daughter ‘Yula’ on Saturday June 5th at 6:16 am. Congratulations Marit and Pieter!