

'396' Undergraduate Research Project Application Form

Version: 200603

Office for Undergraduate Research in Science
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Email: victor.chisholm@mcgill.ca Web: www.mcgill.ca/science/ours/

INSTRUCTIONS FOR STUDENTS

- **All fields are required, unless indicated otherwise.**
- Download and print this form. Complete Section C and sign.
- See "How students can apply" instructions in Section B.
- Your supervisor or department will tell you if you are selected for this project. If so, you will receive a code to register for a '396' course on MINERVA.

SECTION A: SUPERVISOR INFORMATION

Name: John Stix **Email:** stix@eps.mcgill.ca
Phone: 514-398-5391 **Website:** _____
Supervisor's Department or Unit: Earth and Planetary Sciences **Course Number:** EPSC396

SECTION B: PROJECT INFORMATION

Term: Winter 2007 **Project start & end dates:** September 1, 2006 – May 1, 2007
Project title: Analysis of Upper Bandelier Tuff Quartz Grains using Cathodoluminescence Electron Microscopy, LA-ICP-MS and TITANIQ Geothermometry
Project description: The student will do research on quartz crystals Valles Caldera, New Mexico. Using the zoning patterns in quartz crystals revealed using Cathodoluminescence and the Titanium-in-Quartz Geothermometer Titanique, the student will hopefully determine a growth history for the crystals related to temperature, with an eye towards making magma chamber evolution conclusions. The student will focus on the Tshierge members of the Bandelier Tuff.
Prerequisites: 1 term completed at McGill + CGPA ≥ 3.0; or permission of instructor.
Grading scheme: Final report 80%, Oral presentation 20%
Other: _____
Status: Mark with an x. This project is...
[] Open to applicants
[x] Already taken; no more positions available this term
[] Taken, but contact me for other possible projects this term
Ethics, safety, and training: Which of the following, if any, is involved? Mark with an x.
[] Animal subjects
[] Human subjects
[] Biohazardous substances
[] Radioactive materials
[] Handling chemicals
[] Using lasers
For undergraduate students, ethics and safety compliance is the supervisor's responsibility.
How students can apply: _____

SECTION C: STUDENT INFORMATION. (1) PRINT LEGIBLY AND SIGN. (2) SEE "HOW STUDENTS CAN APPLY" IN SECTION B.

Name: _____ **McGill ID:** _____
Email: _____@mail.mcgill.ca **Phone:** _____
Program: _____ (e.g., B.Sc. Maj. Chem. Minor Biology) **Level:** _____
(circle one) U0 / U1 / U2 / U3
I have not applied for another 396 course in this term.
Student signature: _____ **Date:** _____

SECTION D: APPROVALS. (1) PRINT NAMES & SIGN. (2) NOTIFY OFFICE FOR UNDERGRADUATE RESEARCH IN SCIENCE. (3) GIVE STUDENT CODE TO REGISTER FOR COURSE ON MINERVA.

Supervisor: _____ **Date:** _____
Unit Chair, Director, or designate - I certify that this project conforms to departmental requirements for 396 courses. _____ **Date:** _____