

'396' Undergraduate Research Project Application Form

Version: 200603

Office for Undergraduate Research in Science
Tel.: 514-398-5964 / Fax: 514-398-8102 / Dawson Hall, Room 211
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: Isztar Zawadzki **Email:** isztar.zawadzki@mcgill.ca
Phone: 514-398-1034 **Website:** _____
Supervisor's Department or Unit: Atmospheric and Oceanic Sciences **Course Number:** ATOC396

SECTION B: PROJECT INFORMATION

Term: Winter 2007 **Project start & end dates:** January 3 – April 11, 2007
Project title: Study of divergence profiles within large mesoscale complex systems.
Project description: From radar measurements of Doppler velocity within wide spread precipitation regions associated to large mesoscale system, the student will derive the vertical profiles of the mean divergence as a function of height for specific horizontal scales (ranges). Studies of these profiles can help understanding the overall air motion within the precipitation systems. In rain the contamination of Doppler velocity by fall speed of precipitations will be accounted for by the strong correlation of the component of Doppler velocity due to terminal fall speed of raindrops and the measured differential reflectivity Z_{DR} . [Appropriate for a 3-credit course; approximately 120 hours.]
Prerequisites: 1 term completed at McGill + CGPA \geq 3.0; or permission of instructor.
Grading scheme: Final report: 100%
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: Bring this application form and your advising transcript to me during office hours.

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: _____ **Level:** _____
I have not applied for another 396 course in this term. **(circle one)** U0 / U1 / U2 / U3
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:** _____