This program is a consortium of six research-based universities in Canada, Mexico, and the U.S. (Michigan Tech, Buffalo, McGill, Waterloo, UNAM and Colima) funded by the Department of Education in the US and equivalent organizations in Canada and Mexico as part of the NAFTA agreement. The focus area for the mobility program is mitigation of geological natural hazards in North America. The consortium universities will exchange students and faculty in several engineering and science disciplines (e.g. environmental engineering, civil engineering, geological engineering, social sciences and geology) involved in the study of natural geological hazards. Students in the social sciences will also be exchanged, recognizing that the solution of natural hazards problems involves critical political, social, and economic aspects. Students will be mobilized among the participating universities through one-to-two semester visits and up to 60 more students will be mobilized via short-term, intensive courses. Student activities will consist of theoretical, interdisciplinary language training, natural hazards coursework, and professional or research internships with local industries, agencies or at the host university. In each of the next three years there will be a joint advanced volcanoology course run via videoconferencing and a three week field trip to areas of volcanological interest in Canada, US and Mexico. The courses and field trips for the next three years are: 2006: Megacaldera Long Valley and Yellowstone; 2007: Volcanic edifice failure Cascades and Western Canada; 2008: Convergent plate Boundary Volcanic Mexican Volcanic Belt. Although the six universities will have first access to the exchange we are constructing ways for other volcanology programs to share the teleconference courses and field trips.

**What is EHaz about?**

The focus area for the mobility program is mitigation of geological natural hazards in North America. This project will facilitate the integration of graduate education programs by allowing graduate students to combine the expertise and experience of several universities with active programs in hazards. At least 40 students (16 from the U.S., 16 from Canada and 14 from Mexico) will be mobilized among the participating universities through one-to-two semester visits and up to 60 more students will be mobilized via short-term, intensive courses. The intensive courses will enable the university facilities to explore further integration of graduate programs in hazards. The consortium allows graduate students access to programs with direct links to Volcanic Observatories (Colima, UNAM), atmospheric programs (McGill, UNAM, MTL), landslides hazards programs (Waterloo), to numerical modeling centers (Buffalo) to remote sensing programs (MTU) and to diverse field volcanological research programs (Buffalo, McGill, MTL, UNAM). The overall goal is to improve graduate education by exploiting mutual educational interests of several universities actively in hazards research.

**What kinds of exchanges can be done?**

A study abroad consists of a one- to two-semester stay at a U.S. Mexican or Canadian university, including intensive language training, water resources coursework, and an internship. Students will be offered only in the countries they desire to study in. Students will earn graduate credits and free of their home university. coursework credits are transferable. Students will earn a stipend and most travel expenses will be paid. Short-term intensive courses are field hazards studies (five to three weeks) on earth hazards topics in the U.S. or Canada or Mexico. Most field trip expenses will be paid for by the program. No language proficiency is required. The intensive courses are offered yearly, and may be taken at any of the partner universities. Below is our planned schedule of field studies:

1. May 2006: Baja California of Western U.S. Long Valley and Yellowstone (led by US partners with help from other institutions)
2. August-Sept 2006: skład Archeology and landscapes of the Cascade Range (US and Canadian partner led by Canadian Partners)
3. May-June 2006: Active Convergent Plate Boundary Volcanism in Mexico (led by Mexican partners)

**EHaz -- Six University Canada/US/Mexico exchange program in Earth Hazards**

**A North American Mobility Project**

**Members:**

- Michigan Technological University, Houghton, Michigan
  - University of Buffalo, Buffalo, NY
  - Universidad Nacional Autónoma de México, México DF
  - Universidad de Colima, Colima
  - McGill University, Montreal, Quebec
  - University of Waterloo, Waterloo, Ontario

Presented at AGU Fall Meeting, Dec 2005

This program is a consortium of six research-based universities in Canada, Mexico, and the U.S. (Michigan Tech, Buffalo, McGill, Waterloo, UNAM and Colima) funded by the Department of Education in the US and equivalent organizations in Canada and Mexico as part of the NAFTA agreement. The focus area for the mobility program is mitigation of geological natural hazards in North America. The consortium universities will exchange students and faculty in several engineering and science disciplines (e.g. environmental engineering, civil engineering, geological engineering, social sciences and geology) involved in the study of natural geological hazards. Students in the social sciences will also be exchanged, recognizing that the solution of natural hazards problems involves critical political, social, and economic aspects. Students will be mobilized among the participating universities through one-to-two semester visits and up to 60 more students will be mobilized via short-term, intensive courses. Students will consist of theoretical, interdisciplinary language training, natural hazards coursework, and professional or research internships with local industries, agencies or at the host university. In each of the next three years there will be a joint advanced volcanoology course run via videoconferencing and a three week field trip to areas of volcanological interest in Canada, US and Mexico. The courses and field trips for the next three years are: 2006: Megacaldera Long Valley and Yellowstone; 2007: Volcanic edifice failure Cascades and Western Canada; 2008: Convergent plate Boundary Volcanic Mexican Volcanic Belt. Although the six universities will have first access to the exchange we are constructing ways for other volcanology programs to share the teleconference courses and field trips.

**What is EHaz about?**

The focus area for the mobility program is mitigation of geological natural hazards in North America. This project will facilitate the integration of graduate education programs by allowing graduate students to combine the expertise and experience of several universities with active programs in hazards. At least 40 students (16 from the U.S., 16 from Canada and 14 from Mexico) will be mobilized among the participating universities through one- to two-semester visits and up to 60 more students will be mobilized via short-term, intensive courses. The intensive courses will enable the university facilities to explore further integration of graduate programs in hazards. The consortium allows graduate students access to programs with direct links to Volcanic Observatories (Colima, UNAM), atmospheric programs (McGill, UNAM, MTL), landslides hazards programs (Waterloo), to numerical modeling centers (Buffalo) to remote sensing programs (MTU) and to diverse field volcanological research programs (Buffalo, McGill, MTL, UNAM). The overall goal is to improve graduate education by exploiting mutual educational interests of several universities actively in hazards research.

**What kinds of exchanges can be done?**

A study abroad consists of a one- to two-semester stay at a U.S. Mexican or Canadian university, including intensive language training, water resources coursework, and an internship. Students will be offered only in the countries they desire to study in. Students will earn graduate credits and free of their home university. coursework credits are transferable. Students will earn a stipend and most travel expenses will be paid. Short-term intensive courses are field hazards studies (five to three weeks) on earth hazards topics in the U.S. or Canada or Mexico. Most field trip expenses will be paid for by the program. No language proficiency is required. The intensive courses are offered yearly, and may be taken at any of the partner universities. Below is our planned schedule of field studies:

1. May 2006: Baja California of Western U.S. Long Valley and Yellowstone (led by US partners with help from other institutions)
2. August-Sept 2006: skład Archeology and landscapes of the Cascade Range (US and Canadian partner led by Canadian Partners)
3. May-June 2006: Active Convergent Plate Boundary Volcanism in Mexico (led by Mexican partners)