McMaster Centre for Climate Change have established a High School Weather Station Network in a Hamilton-Burlington region using FWI grant funds. We have deployed 4 weather stations at local high schools and are using fifth weather station for demos and training. In addition, a weather station installed on top of Burke Science building at McMaster is also part of this network. Our undergrad and graduate students are visiting schools to make presentations on climate science and provide an introduction to the weather stations. Each school also received a package developed in the previous year by our interns, where they looked through the Ontario High School curriculum to develop a report for teachers on how to implement the use of weather-station data in classrooms.

High school teachers are using these local real-time and archived weather data for class room exercises. Each year, McMaster undergraduate and graduate student will give seminars to grade 10 or 11 students about broader climate and environmental issues and will use these weather station and their data in their presentations as part of high school outreach activities organized by the McMaster Centre for Climate Change. They will also provide hands-on experience and data interpretation exercises.
Budget:
Salaries and benefits: None
Equipment: All funds were spent on the purchase of equipment (five weather stations - Wireless Vantage Pro2 Plus from Hoskin Scientific Inc.)
Event Costs: None
Travel: None
Other (please specify):

Balance remaining:
We have spent all allocated funds.

Please submit separately a maximum 3-page summary of the results of the project with particular attention to the following details:

1. How did the initiative foster collaboration and interdisciplinarity?
   This project will provide opportunities to established linkages with local school teachers to enhance awareness about environment and climate science. It will also help in future student recruitment and attracting student to science related disciplines. Local weather station data will also benefit researchers and community.

2. How did the initiative demonstrate innovation and risk-taking?
   As far as we know it is the only high school weather network in Ontario.

3. How did the initiative enhance McMaster’s position as a research-focused student-centred institution?
   This weather station network provides opportunities to both high school and McMaster students to utilize real time and archived data local weather data in their assignments and research projects. It also provides opportunities for hand-on experiments, which is central theme of teaching at McMaster.

4. How did the initiative encourage collaboration between faculty members and students?
   Many undergrad and graduate students are engaged in high school outreach using weather data. It provides them opportunities to discuss climate related issues and engage with high school students and local community. It also enhances interaction and collaboration among themselves.

5. What were the outcomes of the project? How was success measured and demonstrated?
   High School Weather Station Network has been established and operational. Data is being used by teachers and students.

6. How will the impact of the project be sustained now that the initial funding has been exhausted?
   McMaster Centre for climate Change is will maintain and operate this weather station network in future.

The financial and project reports can be submitted to fwi@mcmaster.ca.