



CWSF 2010 - Peterborough, Ontario



Biography

I am a grade 10 student at Lakefield District Secondary School in Lakefield, Ontario. I enjoy all of the subjects I take at school, but science and math are my favourites. Apart from being on the Honour Roll, I participate on many school sports teams. This year I was on the cross country running, Nordic skiing, badminton, track and rugby teams. I won three gold medals at COSSA and a bronze at OFSSA for Nordic skiing this year. I also raced Nordic at the provincial level. I ran provincially with the Quinte Legion cross country team and we won the provincial silver medal. I live on a lake that is part of the Trent Severn Canal System. I spend a lot of time out on the lake and I am concerned that I am observing less wildlife every year. I am interested in a career in science, possibly in the medical field. I think the Science Fair has allowed me to learn more about scientific research and to develop my public speaking skills.

Adam Noble

Euglena as an Indicator of Water Quality

| Division: Category: Region: | Health Sciences Intermediate Peterborough |
|-----------------------------------|---|
| City: | Lakefield, ON |
| • | |
| School: | Lakefield District Secondary & Intermediate |
| Abstract: | Water samples were taken from six sites along the lower Trent Severn |
| | System in Ontario. Euglena were added to the samples and chlorophyll |
| | concentration was determined to assess Euglena growth. Phosphorous |
| | levels were measured in the samples. Chlorophyll concentration and |
| | phosphorous levels increased from north to south. Reduced levels of |
| | chlorophyll were observed at Lakefield Dam. Euglena is a possible indicator |
| | organism of water quality. |

| Awards | Value |
|--|---------|
| The University of Western Ontario Scholarship | \$1 000 |
| Bronze Medallist - \$1000 Entrance Scholarship | |
| Sponsor: University of Western Ontario | |
| Bronze Medal - Earth & Environmental Sciences - Intermediate | \$300 |
| Sponsor: Suncor Energy Inc. | |
| Total | \$1 300 |



Youth Science Canada PO Box 297 Pickering ON L1V 2R4 www.youthscience.ca / info@youthscience.ca 416-341-0040

