

## CWSF 2011 - Toronto, Ontario



### Collin Fair

#### Simulating Water Flow using Topographical Models

**Challenge:** Information

**Category:** Senior

**Region:** Central Alberta

**City:** Carstairs, AB

**School:** Olds Junior Senior High School

**Abstract:** Flooding is a perennial problem that puts thousands of Canadians and millions in infrastructure at risk every year. Considering this, I have developed a complete workflow that allows the use of freely available topographical data to perform simulations of large-scale water flow that could be used in disaster planning and response, among many other applications.

#### Biography

When I'm not going to science fairs, as I have for the past 11 years, you'll find me volunteering at a local theatre, helping plan upcoming UNESCO conferences, fixing medical equipment, taking photos, or maybe even doing work experience at the local college and school division.