

## CWSF 2006 - Saguenay, Québec



### Tavian Barnes

#### Simtime

**Division:** Earth & Environmental Sciences

**Category:** Intermediate

**Region:** Calgary Youth

**City:** Calgary, AB

**School:** Queen Elizabeth Junior Senior High School

**Abstract:** Simtime is a computer program, written in C#, that calculates gravitational interactions between masses using Newtonian Gravity. It calculates the motion numerically, and displays the results in three dimensions. Simtime is useful for demonstrating gravitational interactions that are too complex to be described or imagined easily.

Awards	Value
Award for Excellence in Astronomy - Intermediate Sponsor: Royal Astronomical Society of Canada	\$750
The University of Western Ontario Scholarship Silver Medallist - \$1500 Entrance Scholarship Sponsor: University of Western Ontario	\$1 500
Silver Medal - Computing & Information Technology - Intermediate Sponsor: Intel of Canada, Ltd.	\$700
Total	\$2 950