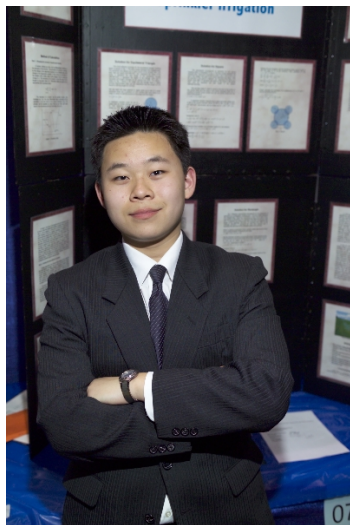


# CWSF 2006 - Saguenay, Québec



## Erik Yao

### Save Your Water: Mathematically Optimizing Sprinkler Irrigation

**Division:** International

**Category:** Intermediate

**Region:** Quinte

**City:** Belleville, ON

**School:** Moira S.S.

**Abstract:** In-ground irrigation systems are widely utilized in the agricultural and recreational sectors. Therefore improving irrigation efficiency is very important, as it saves water. The purpose of this project is to mathematically model and theoretically optimize sprinkler placement to minimize irrigation overlap and to reduce the amount of water wasted.

Awards	Value
The University of Western Ontario Scholarship Silver Medallist - \$1500 Entrance Scholarship Sponsor: University of Western Ontario	\$1 500
Silver Medal - Physical & Mathematical Sciences - Intermediate Sponsor: Encana Corporation	\$700
Total	\$2 200