

# CWSF 2006 - Saguenay, Québec



## Steven Gasior

### Blind Navigation

**Division:** Health Sciences

**Category:** Intermediate

**Region:** Peel

**City:** Mississauga, ON

**School:** St. Joseph S.S.

**Abstract:** An apparatus named URNS "ultrasonic ranging navigation system" uses an array of ten head mounted sensors that scans a 180-degree arc and can measure distances up to 3 meters. This information is relayed to the person using a stereo tone with time delays to simulate natural human echolocation abilities. This provides vision impaired individuals or professions the ability to better navigate their surroundings.

Awards	Value
S.M. Blair Family Foundation Award - Intermediate Sponsor: S.M. Blair Family Foundation	\$750
Canadian Acoustical Association Award Sponsor: Canadian Acoustical Association	\$500
The University of Western Ontario Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Western Ontario	\$1 000
Bronze Medal - Engineering - Intermediate Sponsor: Youth Science Foundation Canada	\$300
Total	\$2 550