

# CWSF 2005 - Vancouver, British Columbia



## Robin Miron, Patrick Danielson

### 3D Macro-Invertebrate Sampling Technology (MIST)

**Division:** Engineering & Computing Sciences

**Category:** Senior

**Region:** North Bay

**City:** North Bay, ON

**School:** École Algonquin catholique secondaire

**Abstract:** We introduce an innovative flow-through sampler that can sample, in real time, macro-invertebrates such as *Mysis relicta* and *Bythotrephes longimanus*. Our data can be used to produce three-dimensional charts either in real time or back-at-the-lab. Drawn diagonally, our sampler can 'scan' the water column to determine macro-invertebrate organism location(s).

Awards	Value
Canadian Stockholm Junior Water Prize Sponsor: Canadian WEF Member Associations, the Canadian Water and Wastewater Association, and Jacobs	\$2 000
The Manning Innovation Achievement Award and \$4000 Manning Young Canadian Innovation Award Sponsor: Ernest C. Manning Awards Foundation	\$4 000
UBC Science (Vancouver) Entrance Award Senior Gold Medallist - \$4000 Entrance Scholarship Sponsor: The University of British Columbia (Vancouver)	\$4 000
The University of Western Ontario Scholarship Gold Medallist - \$2000 Entrance Scholarship Sponsor: University of Western Ontario	\$2 000
Gold Medal - Engineering - Senior Sponsor: Youth Science Foundation Canada	\$1 500
EnCana Platinum Award - Best Senior Project Sponsor: Encana Corporation	\$5 000
<b>Total</b>	<b>\$18 500</b>