



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



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