

CWSF 2006 - Saguenay, Québec



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Power From the Throne

Division: Engineering & Computing Sciences

Category: Senior

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City: South Porcupine, ON

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Abstract: Current sewage abatement separates solids and disinfects water before releasing it into local drainage, contributing to eutrophic aquatic habitats and impotable water. A new sewage treatment process was developed that uses anaerobic bacteria to digest organic matter within wastewater, yielding by-products such as methane and electricity. This process could remove 2.9 Gt of CO₂ from the atmosphere each year, while generating 2.53 GW of electricity.

Awards	Value
CWSF/ESPC 2006 Host Committee Award Sponsor: CWSF/ESPC 2006 Host Committee	\$1 000
The University of Western Ontario Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Western Ontario	\$1 000
Bronze Medal - Earth & Environmental Sciences - Senior Sponsor: Petro-Canada	\$300
Total	\$2 300