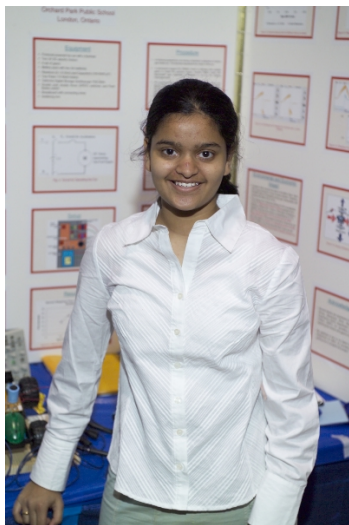


# CWSF 2006 - Saguenay, Québec



## Generate As You Brake in Gas-Fueled Cars

**Division:** Health Sciences

**Category:** Junior

**Region:**

**City:** ,

**School:**

**Abstract:** An innovative concept of applying electric regenerative braking in existing gas-fueled cars is proposed. Different electric braking techniques - Resistive, Plugging and Regenerative, are evaluated. Regenerative braking is implemented to prevent the loss of car's kinetic energy as frictional heat, and save it as energy in capacitors for other applications. This novel scheme has potential to decrease world's fuel consumption and emission of greenhouse gases.

Awards	Value
Natural Resources Canada (NRCan) Office of Energy Efficiency Award Junior Sponsor: Natural Resources Canada (NRCan) Office of Energy Efficiency	\$500
The University of Western Ontario Scholarship Silver Medallist - \$1500 Entrance Scholarship Sponsor: University of Western Ontario	\$1 500
Silver Medal - Automotive - Junior Sponsor: AUTO21	\$700
Total	\$2 700