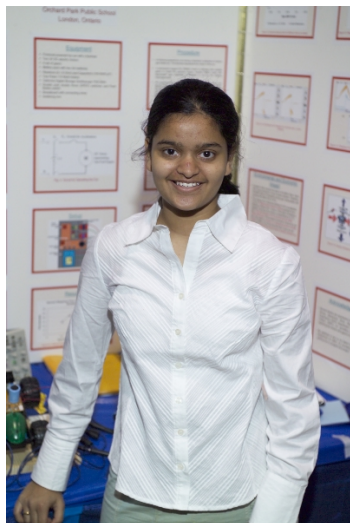


## CWSF 2006 - Saguenay, Québec



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

