

# CWSF 2009 - Winnipeg, Manitoba



## Gary Kurek

### Multi-Functional Mobility Aids: Improving Mobility, Autonomy and Efficiency

**Division:** Health Sciences / Automotive

**Category:** Senior

**Region:** Edmonton

**City:** Fort Kent, AB

**School:** Bonnyville Centralized High School

**Abstract:** This project focuses on the development of 2 novel multi functional mobility aids aimed at improving mobility, autonomy, and independence for the physically disabled. These innovations, one being a walker/electric wheelchair hybrid, and the other being a multi functional manual/electric wheelchair, have been carefully designed and developed to outperform current mobility technology in areas like cost, weight, capacity, range per charge, turning radius, and aesthetics.

#### Biography

My name is Gary Kurek, I was born and raised in the rural community of Bonnyville Alberta. I am in grade 11 attending Bonnyville Centralized High School. A few of my interests include science, fitness, politics, history, sports, and the arts. Many of my science related accomplishments include 4 CWSFs (including 2009), an Alberta Science and Technology Award, Press conferences with Albertan government and business leaders, and recognition of my inventions from some of Canada's leading medical researchers. I enjoy fitness and health very much. I exercise almost 2 hours every day and when I was 15 I successfully developed effective natural treatments for people suffering from weight issues and severe acne problems. I enjoy music and the arts and have taken lead roles in 3 musical productions. I have been in dance for a few years and enjoy singing as well. I participate in volleyball, basketball, rowing, and track. I love breathtaking scenery and the world's natural beauty, it is a great way for me to relax and relieve stress. In the future I aspire to be an engineer or physician and plan to invent helpful products and run a company. I also have a strong interests in politics.

#### Awards

#### Value

| Awards   | Value           |
|--|-----------------|
| CSSE Engineering Innovation Award - Senior<br>Sponsor: Canadian Society for Senior Engineers   | \$1 000         |
| S.M. Blair Family Foundation Award - Senior<br>Sponsor: S.M. Blair Family Foundation   | \$1 000         |
| Dalhousie University Faculty of Science Entrance Scholarship<br>Senior Gold Medallist - \$4000 Entrance Scholarship<br>Sponsor: Dalhousie University, Faculty of Science | \$4 000         |
| The University of Western Ontario Scholarship<br>Gold Medallist - \$2000 Entrance Scholarship<br>Sponsor: University of Western Ontario                                  | \$2 000         |
| The University of Western Ontario Scholarship<br>Bronze Medallist - \$1000 Entrance Scholarship<br>Sponsor: University of Western Ontario                                | \$1 000         |
| University of Ottawa Entrance Scholarship<br>Senior Gold Medallist - \$20,000 Entrance Scholarship (\$5,000 each year for 4 years)<br>Sponsor: University of Ottawa      | \$20 000        |
| University of Ottawa Entrance Scholarship<br>Senior Bronze Medallist - \$1000 Entrance Scholarship<br>Sponsor: University of Ottawa                                      | \$1 000         |
| Bronze Medal - Automotive - Senior<br>Sponsor: AUTO21  | \$300           |
| Gold Medal - Engineering - Senior<br>Sponsor: Youth Science Canada   | \$1 500         |
| EnCana Platinum Award - Best Senior Project<br>Sponsor: Encana Corporation   | \$5 000         |
| EnCana Best in Fair Award<br>Sponsor: Encana Corporation   | \$10 000        |
| <b>Total</b>   | <b>\$46 800</b> |

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