

# 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

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

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