

## CWSF 2010 - Peterborough, Ontario



### Kyle Fritzke

#### E-Lawn

**Division:** Health Sciences

**Category:** Junior

**Region:** Fraser Valley

**City:** Abbotsford, BC

**School:** Abbotsford Middle School

**Abstract:** My project is called E-LAWN which stands for Environmentally friendly, Low water consumption, Automated, Watering system, with No fuss. My project is an innovation of lawn watering systems. E-LAWN uses semi-permeable tubes under your lawn to water your grass. Moisture sensors in the ground detect the level of moisture in your lawn and a micro-controller activates a solenoid valve which releases water into the tubes.

#### Biography

I am Kyle Fritzke. I live in Abbotsford, B.C. and attend Abbotsford Middle School. I play the drums in the school band and the high school jazz band. I take part in NXT robotics in an after school program. I like to eat many different types of food, from Chinese to Western. Some of my favourites are sushi, pizza, hamburgers, licorice (only red, not black), and almost any candy. My favourite drink of all time has to be Jones Soda. In my spare time I like to read good books, play video/computer games, bake cookies and cakes with my friends, and go skiing when the weather permits. I have one cat and one hamster at my house. One other thing that interests me is learning about birds of prey. Maybe someday I will be a falconer.