

## CWSF 2011 - Toronto, Ontario



### Ankur Shahi

#### Environmentally Friendly and Efficient Energy Transmission

**Challenge:** Innovation

**Category:** Intermediate

**Region:** Northwestern Ontario

**City:** thunderbay, ON

**School:** Sir Winston Churchill C.V.I.

**Abstract:** Environmentally friendly and efficient energy transmission uses wooden wheels and permanent magnets to transmit torque between an input and output shaft without any mechanical contact. There is no wear and no lubrication is required. The contactless gears are environmentally friendly as these lead to savings in green house gas emissions, and can be used in many energy saving devices, such as windmills and hybrid cars.

#### Biography

Ankur Shahi came to Toronto, Canada in 2003 from India with his parents at the age of seven years. He moved to a small town, Thunder Bay, in Northwestern Ontario in 2007. Ankur has an inquisitive mind and takes keen interest in developing innovative ideas. His Science Fair project was adjudged as the best in Junior Category at Northwestern Ontario Regional Science Fair 2009. He also received the best in Junior Life Sciences Category Award and Lakehead University Psychology Award for the same project. In the Northwestern Ontario Regional Science Fair 2011, Ankur's project received the Intermediate award of excellence, Environmental Innovator Award, Professional Engineers of Ontario Award, and Lakehead University Engineering Award. Ankur also likes Mathematics and has represented his school in a number of contests as Lagrange Mathematics Contest (Mathematica), American Mathematics Contest, Waterloo Mathematics Contest, TD Canada Maths Competition and Fryer Maths Contest. Ankur is equally good at sports and has won medals as Winners in 2010 Superior Secondary Schools Athletic Association (SSSAA) Football Championship, Runners up medal for Junior Boys Indoor Soccer SSSAA 2010-2011 Championship, and Winner of Lakehead University Cricket Tournament 2010-2011. He also volunteers his t...

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