

# CWSF 2014 - Windsor, Ontario



## Parker Hoyes

### Trendsetter

**Challenge:** Discovery

**Category:** Junior

**Region:** Waterloo-Wellington

**City:** St. George, ON

**School:** St. John's-Kilmarnock School

**Abstract:** Trendsetter is a project created by Parker Hoyes in the areas of Theoretical Physics and Computer Science. This project uses a Java physics engine exclusively created by Parker Hoyes to model physics scenarios with which this project aims to discover a proof of the Butterfly Effect in Chaos Theory.

### Biography

Parker Hoyes is 14 years old and attends St. John's-Kilmarnock School in grade eight in Southern Ontario. He was chosen to move on to the CWSF after participating in the Waterloo-Wellington Science fair with his project: Trendsetter. Parker has been experimenting with object-oriented programming languages from the age of eight, but he also enjoys working hands-on with analog electronics and programming microcontrollers. This knowledge in programming and theoretical physics inspired his project, Trendsetter, which uses physics models and computer simulations to test the validity of the Butterfly Effect in Chaos Theory. Parker spends much of his time developing programs on the computer, and currently aspires to be an indie developer. Although he enjoys working on his own projects, Parker is also very personable and works with others in development well.

### Awards

### Value

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|---|---------|
| Excellence Award - Junior - Bronze Medal<br>Sponsor: Nuclear Waste Management Organization                      | \$100   |
| Western University Scholarship<br>Bronze Medallist - \$1000 Entrance Scholarship<br>Sponsor: Western University | \$1 000 |
| Total   | \$1 100 |