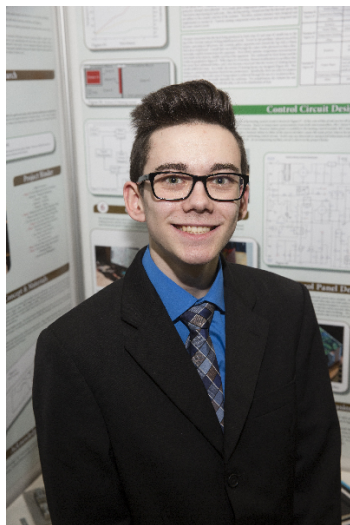


# CWSF 2019 - Fredericton, New Brunswick



## Daniel Kornlyo

### The Development of a Research Tool to Improve Snake Husbandry

**Challenge:** Innovation

**Category:** Intermediate

**Region:** Northern Vancouver Island

**City:** Gold River, BC

**School:** Gold River Secondary

**Abstract:** The goal of this project is the design and construction of a snake vivarium that improves upon commercially available models and provides a means of creating a list of parameters that can be used to develop clear guidelines for the welfare of captive snakes. This device takes a novel approach to heating, ventilation, and lighting with the goal of eliminating thermal burns and respiratory illnesses.

#### Biography

My name is Daniel Kornlyo. I am a science enthusiast, a figure skater, and a grade 10 student at Gold River Secondary School. I have a younger sister named Heather, and I live in a remote location on Vancouver Island. This year, I had the honour of being selected to take part in the RCMP National Youth Advisory Committee. We discuss a wide range of issues from social media and technology to mental health. My project will help my sister with a future science fair experiment involving corn snakes. Initially, it began as a simple request to build a vivarium but quickly became more complicated as I learned about the many issues with current technology. It soon became clear to me that the development of a research tool was necessary. This tool should allow for data collection that would lead to scientifically based parameters for snake husbandry. This will be my third time competing at the Canada Wide Science Fair; for me, it is a source of continual inspiration. My advice to students doing a science fair project is to try to solve a problem that you see in our world. Sometimes it is tough but never give up.

#### Awards

#### Value

|   |         |
|---|---------|
| Excellence Award - Intermediate - Gold Medal<br>Sponsor: Youth Science Canada                                 |         |
| Western University Scholarship<br>Gold Medallist - \$4000 Entrance Scholarship<br>Sponsor: Western University | \$4 000 |
| Total   | \$4 000 |