

CWSF 2012 - Charlottetown, Prince Edward Island



Breanna Gowe, Meg Cumming

An Iota of Colour on Io

Challenge: Discovery

Category: Intermediate

Region: Central Okanagan

City: Naramata, BC, Okanagan Falls, BC

School: Penticton Secondary

Abstract: A method was developed using small colour changes to observe the rotation of Jupiter's moon Io. Io, being small and distant, cannot be seen rotating with our amateur telescope. Therefore colour spectrums were created with a diffraction grating between the telescope and camera to notice colour changes between different sides of the moon. There were statistical differences between the spectrums for opposite sides of Io.

Biographies

Breanna - Breanna comes from Naramata, a small village in the heart of the Okanagan Valley. She enjoys playing competitive basketball, as well as skiing during the winter months. During the hot summers, she loves spending time on the lake, waterskiing and wakeboarding. She has a passion for music, playing saxophone in her school band, and is working on her Royal Conservatory in piano. She currently attends Penticton Secondary in the French Immersion program. Breanna and her partner Meg attended National Science Fair two years ago in Peterborough, and are thrilled to have the opportunity to go for a second time. Breanna and Meg have been great friends s...

Meg - Meg lives in the small community of Okanagan Falls, just south of Penticton. She is a very competitive downhill skier, specializing in slalom and Giant slalom. This year, she was on the BC team for ski racing. Being on the BC team has given her many opportunities to travel through out British Columbia, Alberta, and Ontario. Meg also enjoys many other sports including volley ball, track and field, and cross country. She enjoys living on Skaha Lake so she can go water skiing, wake surfing and wake boarding. Meg has been friends with her science fair partner, Breanna, since Kindergarten. Meg has really enjoyed working on this year's Science Fair...

Awards

Value

Excellence Award - Intermediate - Bronze Medal Sponsor: Nuclear Waste Management Organization	\$300
Western University Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: Western University	\$1 000
Total	\$1 300