

# CWSF 2012 - Charlottetown, Prince Edward Island



## Perception of Natural Colour

**Challenge:** Innovation

**Category:** Intermediate

**Region:**

**City:** ,

**School:**

**Abstract:** Prior experience and memory (top-down processes) in the human brain influence the perception of natural colour. In binocular rivalry, the brain suppresses the odd coloured object and the natural coloured object dominates. By applying a Bayesian approach, the effect of top-down processes on the perception of natural colour may be quantifiable for the development of artificial visual systems.

Awards	Value
Challenge Award - Innovation - Intermediate Sponsor: Research In Motion	\$750
Excellence Award - Intermediate - Gold Medal Sponsor: Youth Science Canada	\$1 500
Western University Scholarship Gold Medallist - \$4000 Entrance Scholarship Sponsor: Western University	\$4 000
<b>Total</b>	<b>\$6 250</b>