

# CWSF 2018 - Ottawa, Ontario



## Mac Dykeman

### Safer Chick-Ments: An Innovative Solution to Reducing Stress in Chick Shipments

**Challenge:** Innovation

**Category:** Junior

**Region:** 4-H Canada

**City:** Langley, BC

**School:** Langley Fine Arts School

**Abstract:** As a 4-H poultry member, I identified a need for better options for containers used to ship day old chicks. When I order poultry the chicks often arrive cold, underweight or injured. As a result, I chose to design a new shipping container for chicks with the goal that it would improve shipping conditions, by lowering injury and mortality rates.

#### Biography

Mac Dykeman is a grade 7 student at Langley Fine Arts School in Fort Langley, British Columbia. An accomplished musician who plays the harp, oboe and cello, Mac is an music and visual arts major at her school. Mac lives on a poultry farm, where she and her family raise egg layers and specialty poultry breeds, and is a 4-H poultry club member. Mac competed in the 4-H science fair finals in Turo, Nova Scotia, with her project "Safer Chick-Ments: An Innovative Solution to Reducing Stress in Chick Shipments". Inspired by her experiences ordering chicks through hatcheries via mail, she set out to find a way to improve shipping conditions for day old chicks, so that injuries and stress could be reduced. Her research led her to design a new type of shipping container which improves shipping conditions for day old chicks. She hopes to continue her research in this area and develop better shipping boxes for other types birds. Her advice for students thinking about doing a project is: "When thinking about your project ask yourself what you are truly passionate about, it makes the process so much more fun."

#### Awards

#### Value

Carlson Wagonlit Award - Junior Sponsor: Carlson Wagonlit Travel	\$500
Youth Can Innovate Awards - Junior Sponsor: The Gwyn Morgan and Patricia Trotter Foundation	\$500
Excellence Award - Junior - Gold Medal Sponsor: Youth Science Canada	
Challenge Award - Innovation - Junior Sponsor: Youth Science Canada	
Western University Scholarship Gold Medallist - \$4000 Entrance Scholarship Sponsor: Western University	\$4 000
Platinum Award - Best Junior Project Sponsor: Youth Science Canada	\$1 000
<b>Total</b>	<b>\$6 000</b>