

## Toronto CMOS Centre 2021 Education Report

Prepared by:

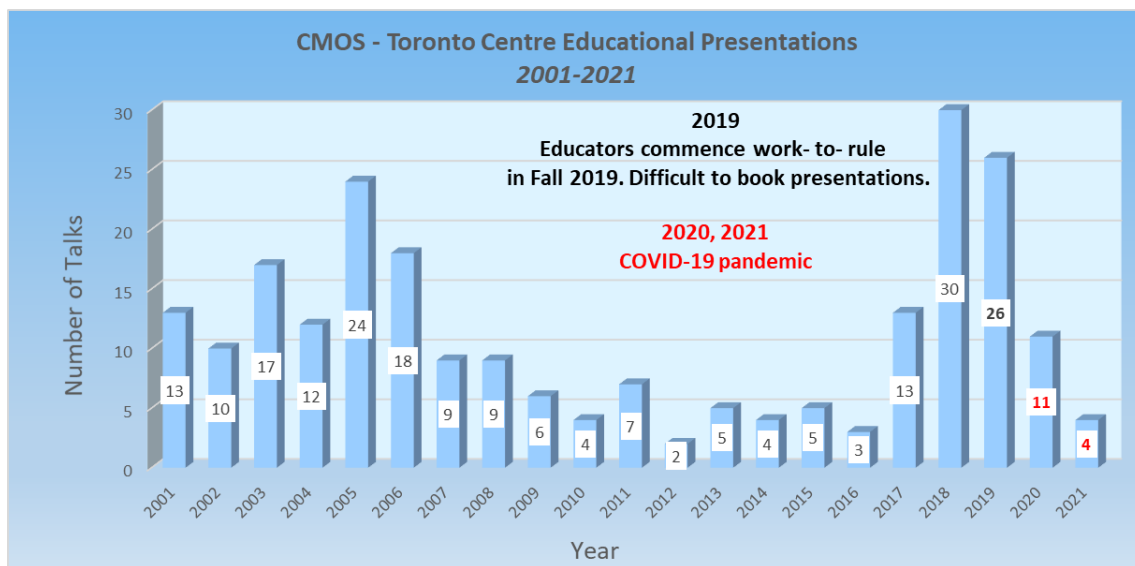
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The global COVID-19 pandemic, which was declared by the World Health Organization in March 2020, continued to impact all aspects of our lives during 2021. The CMOS Educational Program was no exception.

### 1. Presentations

Due to the COVID-19 pandemic that continued during 2021, the CMOS Educational Program delivered only 4 virtual presentations on weather/severe weather. These were given by Rob Kuhn (3) of Environment and Climate Change Canada, and Geoff Coulson (1), retired Environment and Climate Change Canada.

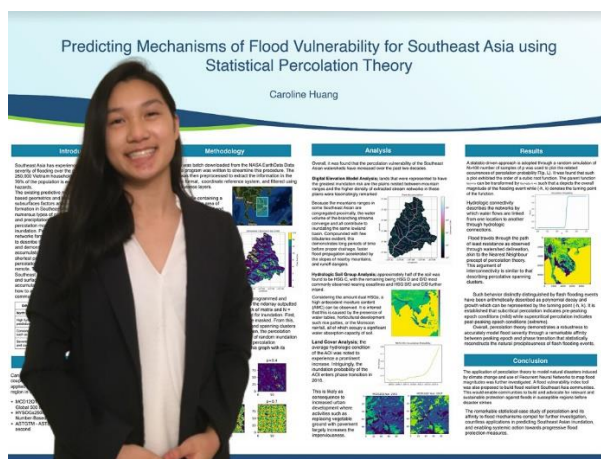


### 2. Science Fairs

In 2021, the Toronto CMOS Centre continued to support Student Science Fairs in the Greater Toronto Area. These included the Toronto, York Region Science and Technology, and Bay Area Science and Engineering (BASEF) Fairs that were held virtually in 2021. The Toronto CMOS Centre awarded cash prizes to Grade 7-12 students with the best projects in Meteorology, Oceanography or related sciences: \$150 for 1<sup>st</sup> place, \$75 for 2<sup>nd</sup> place. Dominique Brunet, Stephen Jacobs and Oscar Koren of the Toronto CMOS Centre Executive judged the BASEF, Toronto Fair and York Region Fair projects, respectively. Information on the 2021 CMOS Award

winning students and their projects is shown in the table below. Congratulations to all of the CMOS Award winning students on their achievements.

<b>Greater Toronto Area Science Fair</b>	<b>CMOS Award: Student Winner</b>	<b>CMOS Award: Student Project</b>	<b>Additional Science Fair Project Awards</b>
Bay Area Science and Engineering Fair <a href="https://www.basef.ca/">https://www.basef.ca/</a>	1 <sup>st</sup> Place <b>Caroline Huang</b> Grade 10  2 <sup>nd</sup> Place <b>N/A</b>	<i>Predicting Mechanisms of Flood Vulnerability for Southeast Asia using Statistical Percolation Theory</i>	<b>BASEF:</b> Best of Fair Award 10 other Awards  <b>Regeneron International Science and Technology Fair:</b> 3 <sup>rd</sup> Place - Earth and Environmental Sciences Category
Toronto Science Fair <a href="https://www.torontoscientefair.ca/">https://www.torontoscientefair.ca/</a>	1 <sup>st</sup> Place <b>Ishan Gehlaut</b> Grade 8  2 <sup>nd</sup> Place <b>Adam Taback</b> <b>Mazin Al-Ani</b> Grade 11	<i>Bioremediation: The Pollution Solution? An Eco-Friendly Way to Degrade Contaminants</i>  <i>Ocean Acidification and Buffers: A Homemade Solution</i>	<b>Toronto Science Fair</b> 1 other Award  <b>Toronto Science Fair:</b> Toronto Science Fair Gold Medal Team Toronto Bronze Medal  <b>Canada-Wide Science Fair:</b> Bronze Medal 1 other Award
York Region Science and Technology Fair <a href="https://yrstf.info.yorku.ca/">https://yrstf.info.yorku.ca/</a>	1 <sup>st</sup> Place <b>Sherry Shu</b> Grade 11  2 <sup>nd</sup> Place <b>Oriana Zhou</b> Grade 8	<i>A Slippery Study: Cleaning Up Oil Spills Using Natural Methods</i>  <i>The Unconventional Way to Watering Plants</i>	<b>York Region Science and Technology Fair:</b> Silver Medal



Caroline Huang, CMOS Award Winner, BASEF 2021



Sherry Shu, CMOS Award Winner, 2021 York Region Science and Technology Fair

### 3. School and Public Education Committee (SPEC)

Joan Klaassen continued to participate as a member of the National CMOS School and Public Education Committee (SPEC). The Committee continued in its role of promoting, encouraging and fostering an interest in meteorology and oceanography amongst young people at the primary and secondary school levels and the general public. Three key SPEC activities this year included:

- helped to organize a virtual Educator's Day at the 2021 CMOS Congress
- selected a candidate to participate in the 2021 *Project Atmosphere Teacher Summer Workshop*
- supported a collaborative agreement between CMOS and the Canadian Water Resources Association (CWRA), including the CWRA Project WET (water education today)