

WOMEN IN STEM



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RACHEL CHANG

Scientist in the Mist

Dr. Chang researches how types of particles in the atmosphere change fog properties. Her aerosol studies enrich our understanding of the forces that affect climate systems in the Arctic.

Ingenium is committed to encouraging and empowering women and girls in science, technology, engineering, and math. Learn more at: ingeniumcanada.ca/womeninstem/

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CONCEPTS AND CONNECTIONS

Earth's oceans are vital to life – the ocean provides half of the oxygen that humans need to breathe. The oceans also provide different medicines and food sources for the world's population. **Dr. Rachel Chang's** work relates to the changing climate in the Arctic, which is warming faster than anywhere on Earth*.

Did you know?

In 1952, sulphur particles mixed with fumes from burning coal to cause the Great Fog of London, which killed more than 12,000 people in 5 days.

Grades 4-6	Grades 6-8	Grades 9+
<p>Sustainability: Humans have damaged the environment, causing climate changes like extreme weather events. Sustainability means using less and limiting damage to the Earth and other species.</p> <p>How does climate change impact different groups of people?</p>	<p>Sustainability: Humans have damaged the environment, causing climate changes like extreme weather events. Sustainability means using less and limiting damage to the Earth and other species.</p> <p>How does climate change impact different groups of people?</p> <p>How can the participation of women in STEM advance climate science?</p>	<p>Sustainability: Humans have damaged the environment, causing climate changes like extreme weather events. Sustainability means using less and limiting damage to the Earth and other species.</p> <p>How does climate change impact different groups of people?</p> <p>How can the participation of women in STEM advance climate science?</p> <p>How can climate science benefit from diverse perspectives?</p>

References:

<https://oceanservice.noaa.gov/facts/why-care-about-ocean.html>