

The 4+1 Summer School: A journey to science, and beyond!

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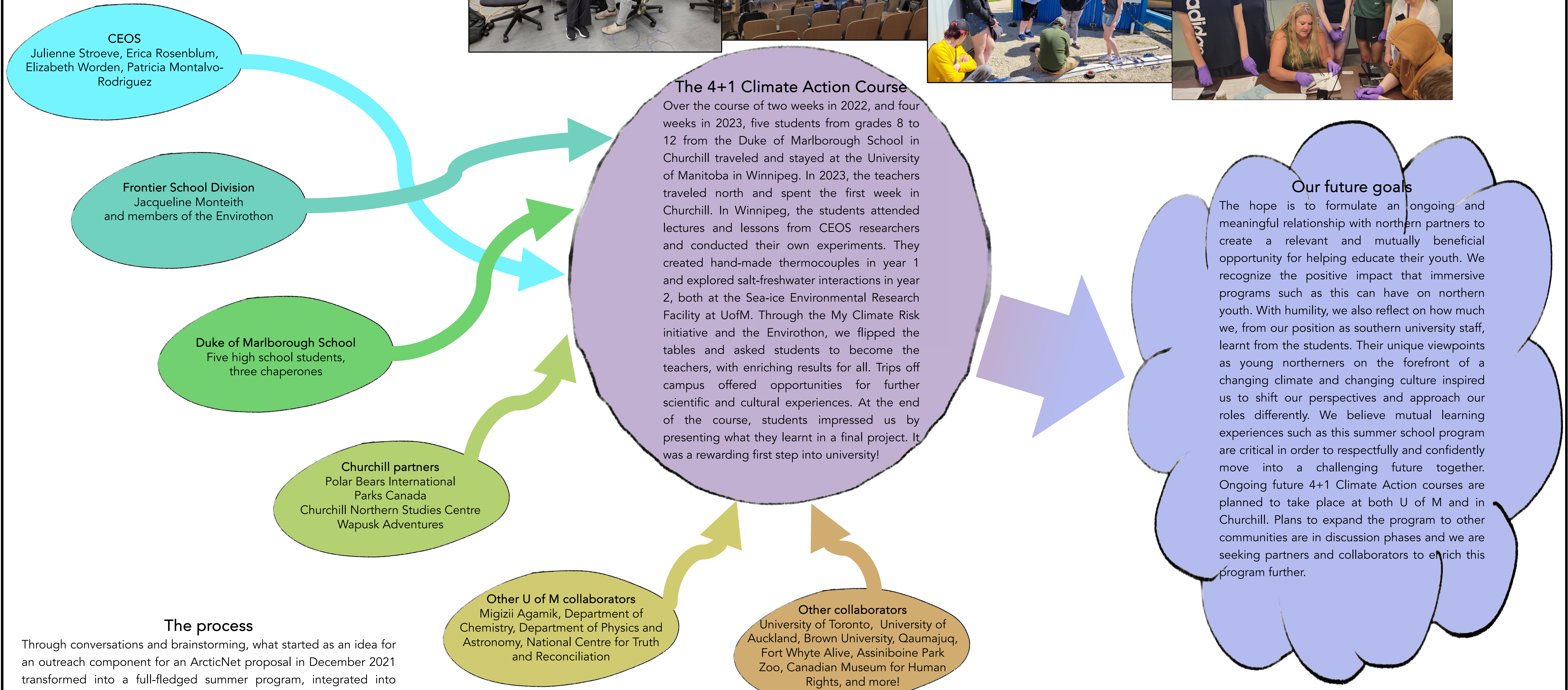
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An overview

In June 2022 and 2023, a collaboration between Duke of Marlborough School in Churchill MB, University of Manitoba's Centre for Earth Observation Science (CEOS), Frontier School Division, and the Universities of Toronto, Auckland and Brown generated an immersive summer school for five high school students from Churchill in a university setting on the University of Manitoba campus. In the 2nd year, two weeks were first spent in Churchill, meeting the students in their own town. The focus was multidisciplinary; built around a science base to support the high school curriculum's 4+1 Program, but bringing in other fields of knowledge to provide as rich an experience for the youth as possible. Collaboration with other faculties, Indigenous educators, and Winnipeg's rich art and culture scene grounded the students in many aspects. During both years, this was a valuable learning experience for all involved and offered an opportunity for reflection on our roles as researchers working in northern lands.



The process

Through conversations and brainstorming, what started as an idea for an outreach component for an ArcticNet proposal in December 2021 transformed into a full-fledged summer program, integrated into Duke of Marlborough's 4+1 high school curriculum. In early 2022, Erica Rosenblum, under the supervision and funding of Julienne Stroeve's C150 Program, and with colleagues Michelle McCrystall, Jennifer Lukovich and Elizabeth Worden, put together a program involving many partners from within and outside CEOS. Jacqueline Monteith was a dynamic contributor of ideas and funding to the program, bringing forward Frontier School Division's 'Envirothon', exploring environmental science and Cree culture. Erica Rosenblum and Michelle McCrystall were the driving force behind the execution of the scientific portion of the program, facilitating experiments at SERF and in Churchill, and organizing scientific programming. Jennifer Lukovich (2022) and Elizabeth Worden (2023) designed course content around climate change priorities through the My Climate Risk program (WCRP), tying together local observations, science and policy. Patricia Montalvo-Rodriguez facilitated various logistical aspects of life on campus for the students, and outside excursions. Together, the team coordinated legalities, logistics, partnerships, funding, timelines, travel, and scheduling. Although it was far from simple, it was incredibly gratifying for all involved, and proved that the best things come from team work.



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Please contact Jacqueline Monteith (Jacqueline.Monteith@fsdnet.ca) if you are interested in taking part!

