

2021

Young Innovator Award

Undergraduate Student Invention Disclosure

DYNAMIC ARCTIC WASTEWATER CONNECTION & TESTING RIG

Inventors:

Russell Buckholz, Jason Gresehover,
Michaela Jackson, Uziel Perez, and Cate Whiting

- Innovation from senior design and research project
- Arctic communities are prone to unpredictable shifting of soil due to climatic conditions such as permafrost and heaving
- Wastewater lines are susceptible to breakage resulting from permafrost warming, ground settlement, or subsidence
- Research team developed a wastewater connection that accommodates movement as a result of settlement and subsidence



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