MEMORIAL UNIVERSITY

Faculty of Engineering and Applied Science

Speaker

ANDREW WAY

Science Student

Speaker

ADAM KEATING

Engineering Student

Imagine working in St. John's, but living in Corner Brook, with a 30-minute commute. This could become reality because of Hyperloop!

Computer science student Andrew Way and mechanical engineering student Adam Keating will talk about how they are working on a multidisciplinary team of engineering, physics and computer science students from five other universities on a global design competition. The team, OpenLoop, is developing an advanced form of transportation called "Hyperloop."

HyperLoop is a technology that will reshape what it means to travel. The transportation system features a pod that floats by generating a pocket of pressurized air underneath it, enabling the pod to travel at high velocities with low friction. The pod travels within a tube that is depressurized, decreasing the overall aerodynamic drag faced at high velocities. With the incorporation of an axial compressor, the pod is able to mitigate the buildup of air in front of the pod, and compress it for levitation. As a completely solar powered technology, the HyperLoop is fast, safe and a way of travelling for the future.

The OpenLoop team competed against 700 teams from all over the world to become one of 30 teams accepted by SpaceX to begin fabricating their half-scale Hyperloop pod to be tested on a one-mile track this summer in Hawthorne, California. OpenLoop and the students here at Memorial will be among the first in history to successfully test the Hyperloop technology at this scale. In the process, the team hopes to be a part of kick-starting a global revolution in transportation technology.

Andrew Way is a computer science and physics joint honors student at Memorial University. Currently in his third year, he is an undergraduate researcher in the field of condensed matter and is studying spin degeneracy in a type of antiferromagnet used in hard disk drives. Andrew is also OpenLoop's project manager.

Adam Keating is a fourth-year mechanical engineering student at Memorial University. Currently on his fifth work term with Statoil in St. John's, Adam has gained industry experience ranging from offshore well design to programming a database to stationary mechanical equipment work packages. He is OpenLoop's integration and mechanical design lead.

Speaking of ENGINEERING

LECTURE SERIES

HAVE YOU EVER WONDERED

if you could safely travel from Corner Brook to St. John's in 30 minutes?

Wednesday, March 30, 2016 at 7:30 p.m.
Memorial University, St. John's campus
S.J. Carew Building; Room EN2006

RECEPTION TO FOLLOW. ADMISSION IS FREE. ALL ARE WELCOME.

Free parking in lot 22

Speaking of Engineering is hosted by the Faculty of Engineering and Applied Science at Memorial University and the Professional Engineers and Geoscientists of Newfoundland and Labrador.

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