

CEAL NEWSLETTER

CEAL Sept./Oct. 2010



CEAL is Officially in Motion!

Dear CEAL Partners,

In the past two months CEAL has truly come together. The motion platform arrived from the Netherlands earlier this month and is now fully assembled. All three of the payloads are now on-site and in place. CEAL is officially in motion!

The crane has been busy exchanging the payloads on and off the motion base for testing. The completely enclosed, retractable access bridge is now in place and will allow participants to move seamlessly from the preparation areas to the motion simulator. Winter will arrive early in CEAL as the ice floor freezes next week.

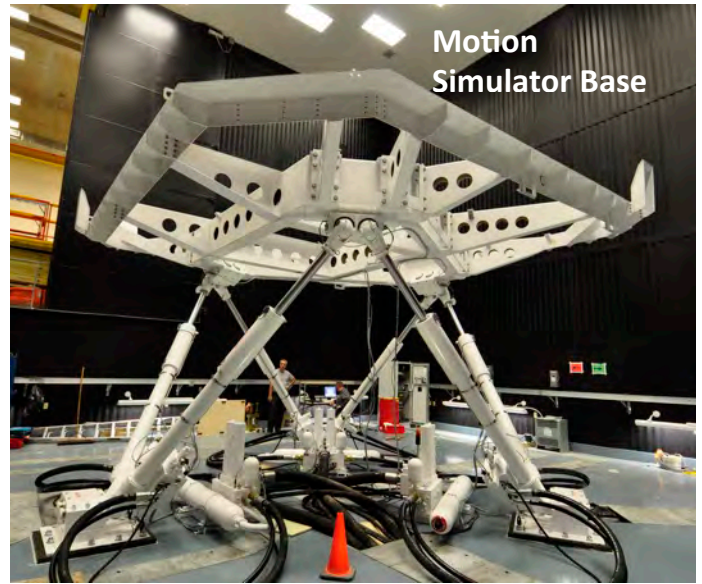
With all of the major components now in place, the next few months will be focused on completing all of the final touches. We are extremely excited to showcase CEAL to our partners and colleagues.

Sincerely,

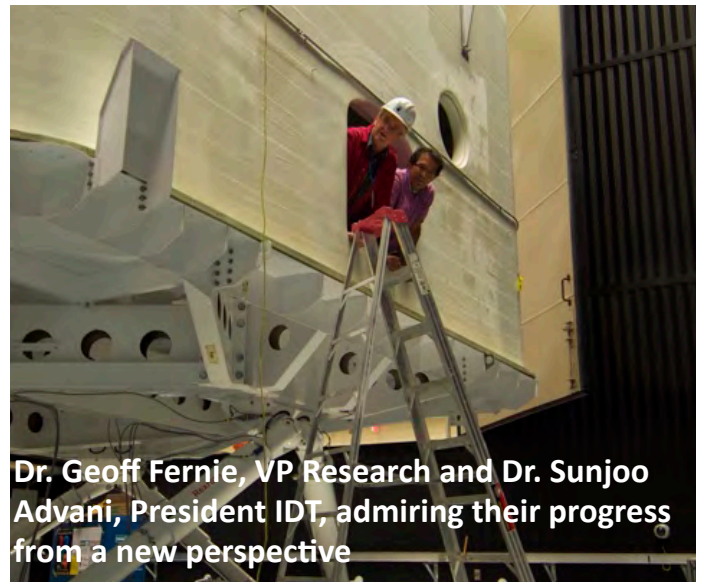
The CEAL Team, iDAPT, Toronto Rehab
campos.jennifer@torontorehab.on.ca



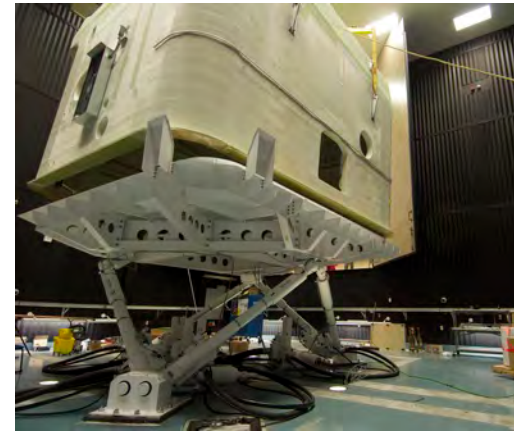
Susan Gorski, CEAL Engineer, preparing to move a payload onto the motion base



Motion Simulator Base



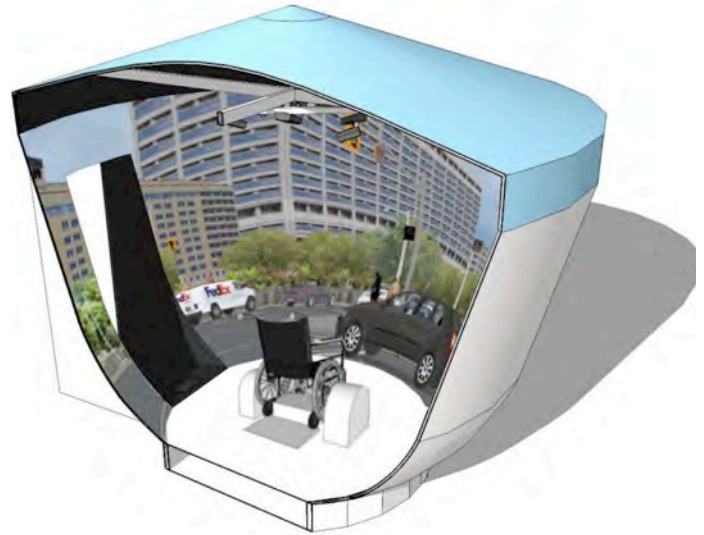
Dr. Geoff Fernie, VP Research and Dr. Sunjoo Advani, President IDT, admiring their progress from a new perspective



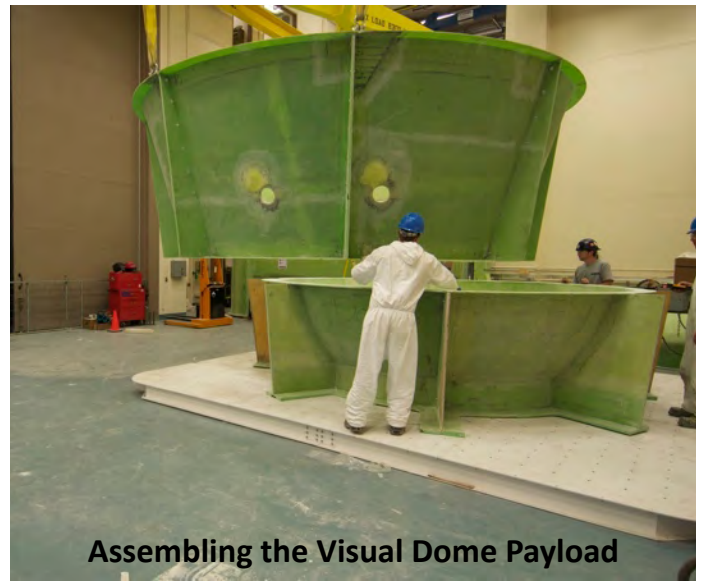
Moving the General Purpose Payload onto the Motion Base



Far: Visual Dome Payload
Near: Winter Payload



Manual Wheelchair Simulator



Assembling the Visual Dome Payload

Become Fully Immersed in a Virtual Reality Experience!

Soon the Visual Dome will allow observers to become fully immersed in a virtual reality experience. The visual display will completely surround the observer and even the floor will be projected upon. High resolution visuals and realistic 3D sound will be used to simulate experiences such as busy city streets with dynamic pedestrian and vehicle traffic.

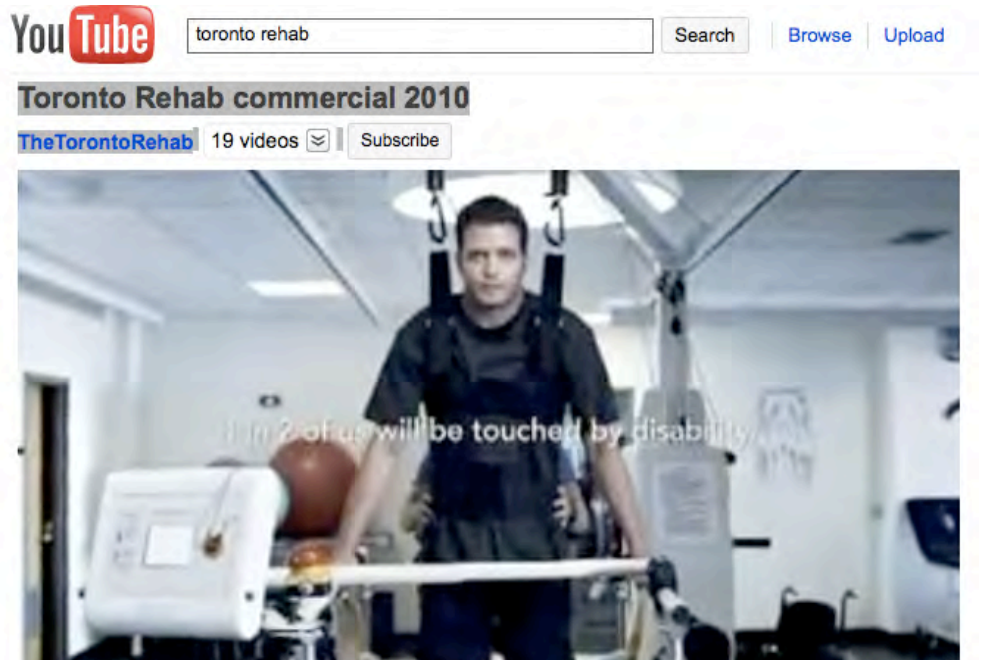
Participants will be able to navigate through the virtual environment as their movements on a treadmill are used to update their position and speed in the virtual environment.

We are also developing a wheelchair simulator for use in the Visual Dome. This will allow a person to navigate through virtual environments by maneuvering the wheelchair, while also getting motion feedback simulating the effects of different slopes and surfaces (e.g. increased resistance uphill, or bumps when traveling over a rough surface).

This laboratory will provide a truly multi-sensory experience.

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