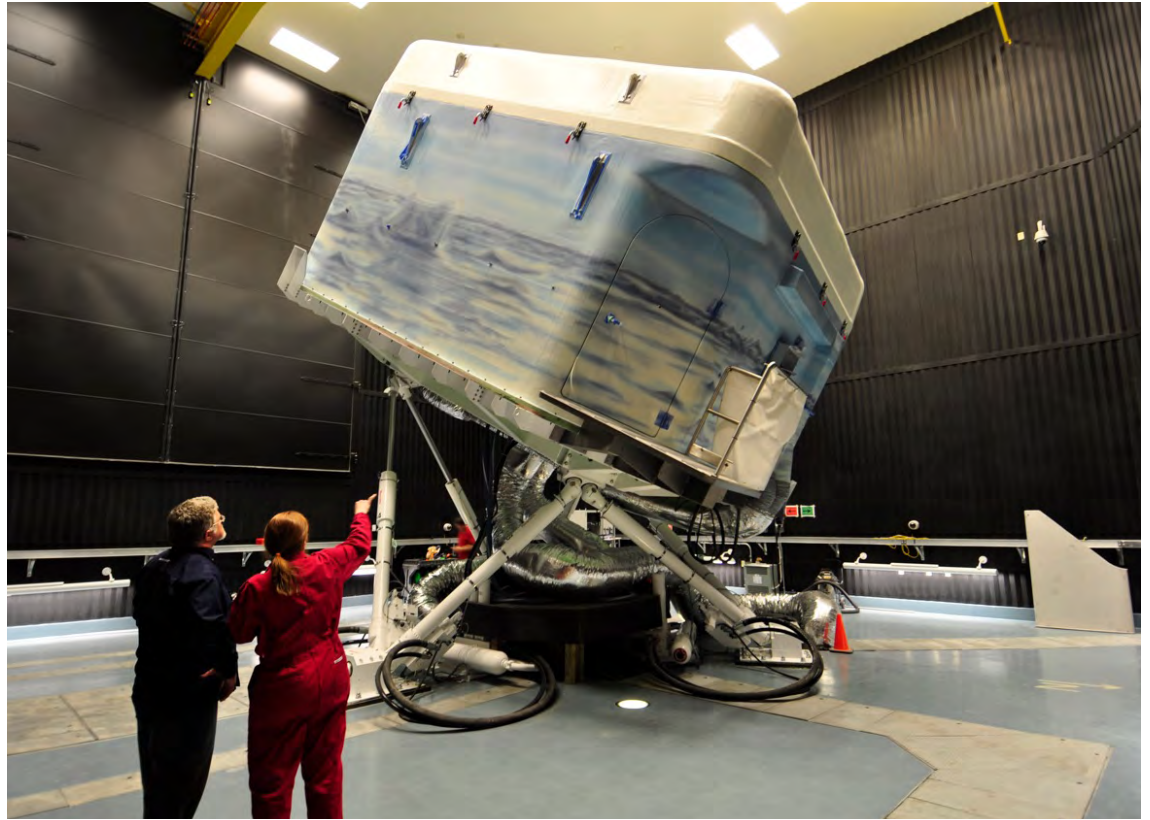


CEAL NEWSLETTER

CEAL Jan/Feb, 2011



We have lift-off!

Dear CEAL Partners,

Extraordinary progress has been made on all of the new iDAPT Labs since the start of the New Year. The big move into the new wing of Toronto Rehab's University Centre is essentially complete and researchers, patients, and staff are settling into their new space.

In CEAL, the visual projection system in StreetLab is complete and the instrumented staircase for StairLab is now assembled.

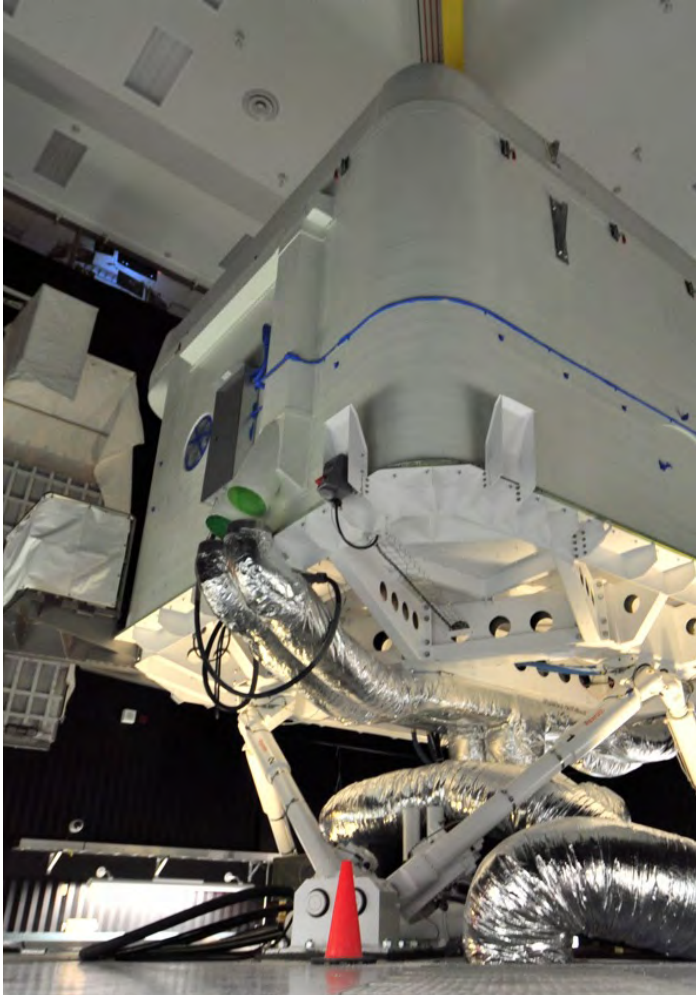
The motion range of the simulator base has been carefully tested and its capabilities are truly impressive. In fact, the performance of the CEAL motion system exceeds that of most flight training simulators.

Up on the 12th floor CareLab is move-in ready and will soon be receiving its final touches including additional furniture and accessories.

After several years in the making, CEAL is preparing to officially open its doors. We are eagerly anticipating all of the extraordinary, cutting edge research and development that will soon be underway.

Sincerely,

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



Dr. Sunjoo Advani (left) and Dr. Geoff Fernie in StairLab

... so that fewer of us fall down

Injuries on stairs are increasing at a rate of 6% every year. Consequently, stairs are one of the biggest concerns for older people living at home and are often what forces them to move. Yet very little is currently known about optimal staircase design from the perspective of safety.

Research in StairLab will be used to evaluate staircase and handrail design to inform standards and increase safety, thus allowing people to stay in their homes for longer.

StairLab can be outfitted with several different environmental features, most notably a fully instrumented staircase. This staircase consists of 8 steps with 7" risers and 11" runs. The stair treads are interchangeable to allow

for the testing of different surfaces (e.g. materials, markings, colours, etc.) and nosing designs.

Force plates are embedded into the steps and load cells are built into the handrails, thus allowing for the measurement of ground forces and hand forces respectively.

The stairs can also be removed, revealing a floor with a grid pattern of attachment points; thereby allowing any environment to be built inside this space.



Catch up on what we've been up to!
[Toronto Rehab's +10 Annual Research Report will be available as of April 1.](#)

Revolutionizing Rehabilitation - Maximizing Life!

Home > Research > Reports and Brochures > Annual Research Reports

Annual Research Reports

Toronto Rehab produces annual research reports to highlight the exciting work and many accomplishments of Toronto Rehab scientists, researchers and clinicians in advancing rehabilitation science in Canada.

The free reports are available for download (click on any issue below). If you wish to have a hard copy mailed to you, please contact the Research Department via email at ward.lois@torontorehab.on.ca.

- [2010 Research Report +9](#)
- [2009 Research Report +8](#)
- [2008 Research Report +7](#)
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- [2006 Research Report +5](#)
- [2005 Research Report +4](#)

Look for +10... coming soon!

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FICCDAT™

June 5-8, 2011 Toronto, Canada

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CEAL tours will be offered to FICCDAT attendees on June 5th. Space is limited, so visit the FICCDAT website to sign up!



Photos Courtesy of Sunjoo Advani IDT