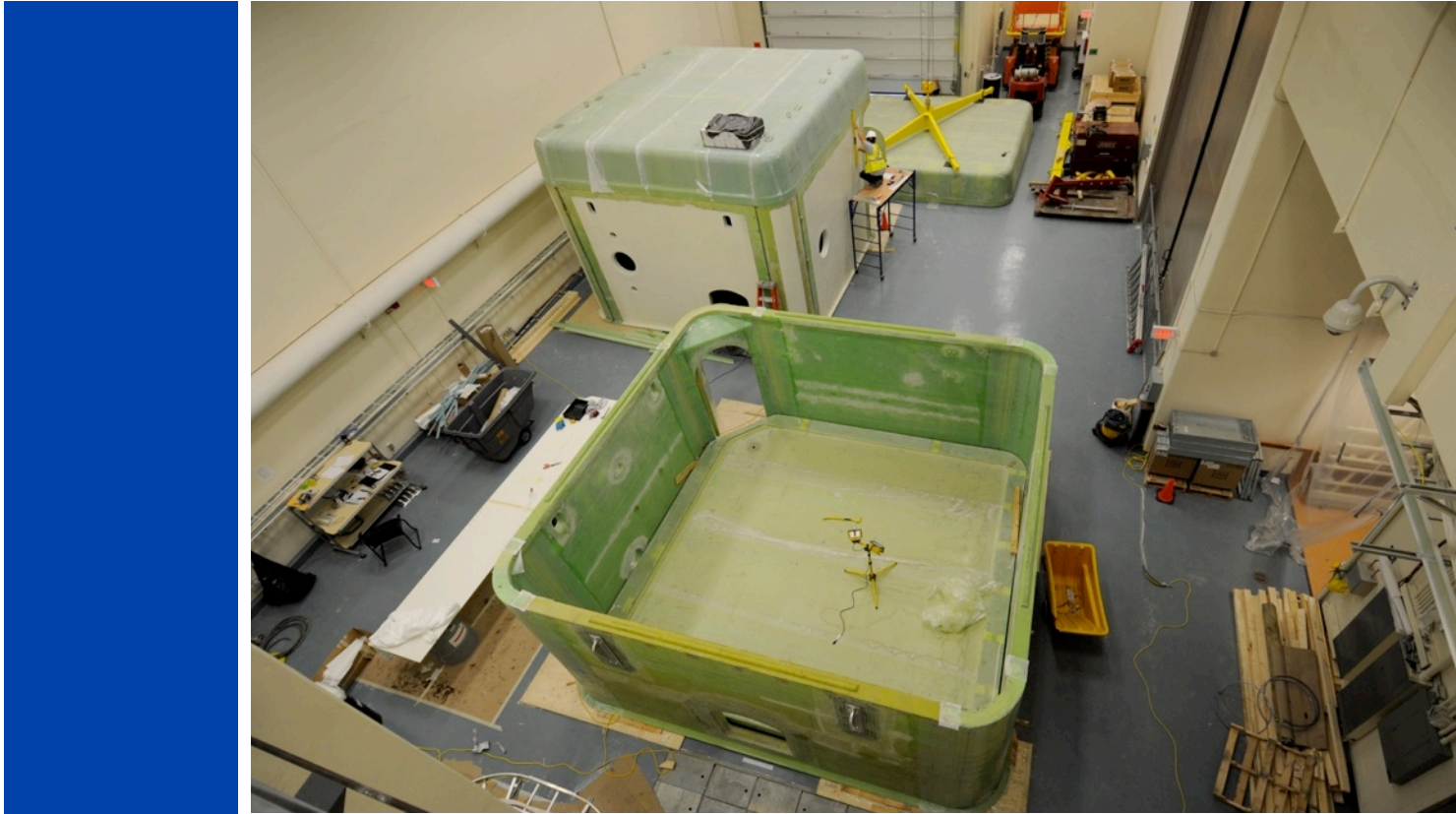


# CEAL NEWSLETTER

CEAL August, 2010



## The Payloads Have Arrived!

Dear CEAL Partners,

The General Purpose Payload and the Winter Payload walls and caps have now been assembled in the payload hall. Soon they will receive a fresh coat of paint and will be ready for action.

With the Multisensory Payload (formerly known as the Visual Dome) set to arrive in a few weeks, CEAL is starting to truly take shape.

The motion base has recently undergone rigorous factory acceptance testing in the Netherlands and will arrive in Toronto in mid-

September. The host computing system has also passed all factory acceptance tests. The results of these tests are exceeding expectations.

Many local, national and international guests have come to witness all of the exciting progress. Feel free to come pay us a visit next time you are in the neighbourhood!

Sincerely,

*The CEAL Team, iDAPT, Toronto Rehab*

[campos.jennifer@torontorehab.on.ca](mailto:campos.jennifer@torontorehab.on.ca)



Motion base with dummy payload at the factory in the Netherlands



Safety Harness Robot



General Purpose Payload

*Photos Courtesy of S. Advani, IDT*

## Priority Number One! Safety first

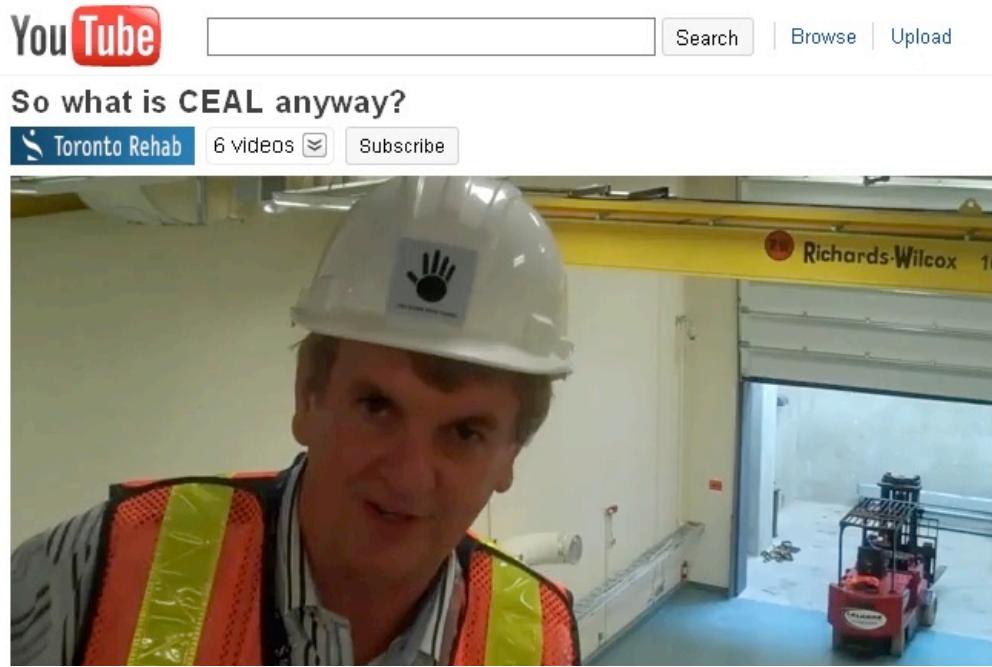
Without compromise, the number one priority in the design and development of CEAL has always been safety. One of the many unique features of CEAL is the safety harness robot that is mounted to the inside of the payload roof cap. This harness system follows participants and researchers around as they engage in various experimental tasks. Customized for CEAL, this safety harness system contains a fall-decent controller that will allow a fall to be initiated, but will prevent collisions with the walls or the floor.

This safety robot has now passed its factory acceptance testing, has been installed in the roof cap, and will soon be tested within the payloads.

Safety is also the focus of a new series of research studies that will be taking advantage of CEAL's Winter Payload. Specifically, researchers will be investigating how different types of footwear can help prevent slips and falls on icy and snowy surfaces. Not only will they measure the biomechanics of walking on flat terrain, but by using CEAL they will also be able to address the important question of how walking stability changes on various sloped ground surfaces (and icy, sloped surfaces!). This research has gained recent media attention that you can read more about [here](#).

Check out Dr. Geoff Fernie, VP Research at Toronto Rehab, describing CEAL in this recent YouTube video.

[What is CEAL Anyways?](#)



## The Timeline is on Schedule Grand Opening February, 2011

| Milestone                                   | Date of Completion or Expected Completion |
|---|---|
| The payloads arrive and are assembled       | July, 2010                                |
| The motion base arrives and assembly begins | September, 2010                           |
| Assembly and safety testing continues       | September - October, 2010                 |
| Commissioning                               | October, 2010                             |
| Grand Opening of CEAL                       | February, 2011                            |




 Festival of International Conferences on  
 CAREGIVING, DISABILITY, AGING AND TECHNOLOGY  
**FICCDAT™**  
 June 5-8, 2011 Toronto, Canada  
 Living Longer Living Better  
 Get plugged into FICCDAT  
 Growing Older RESNA/ICTA Neurorehab Caregiving CMBEC34 Universal Design Festival Events

Add FICCDAT to your calendar - [www.ficcdat.ca](http://www.ficcdat.ca)

Check out our annual research report online at [www.torontorehab.on.ca](http://www.torontorehab.on.ca)