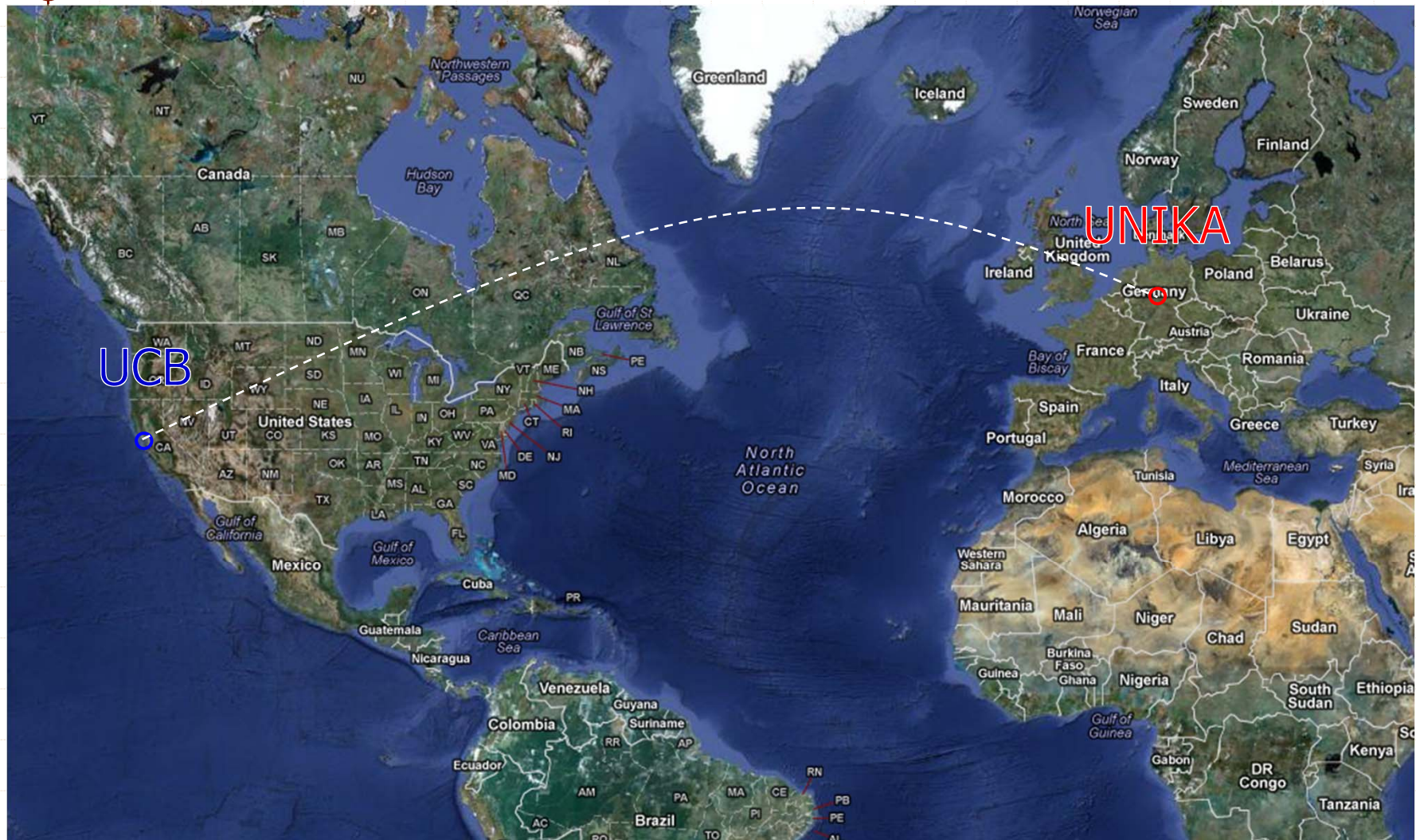


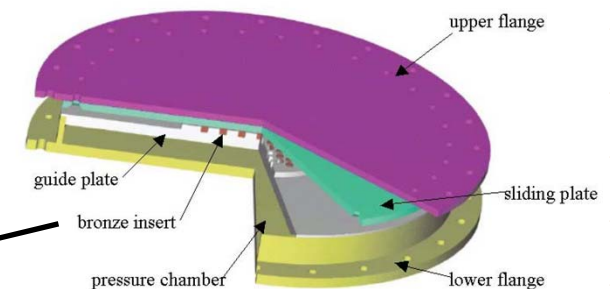
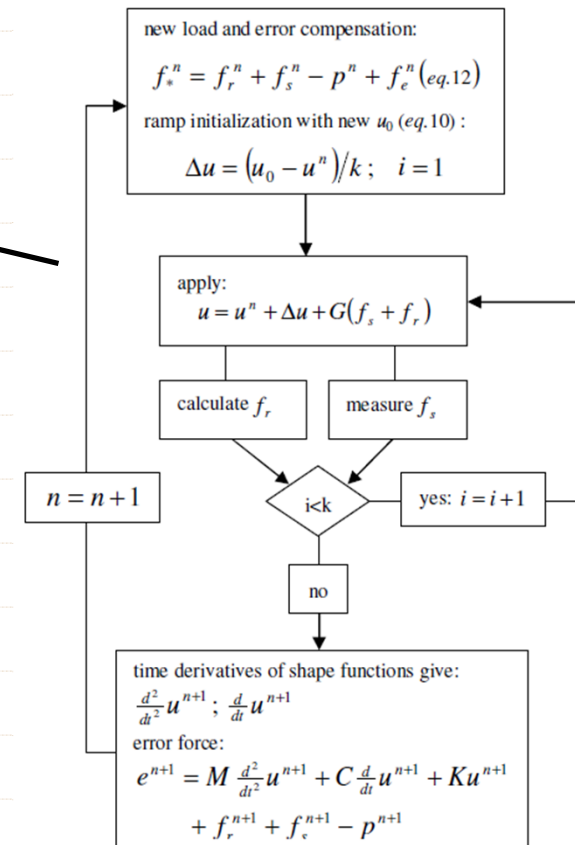
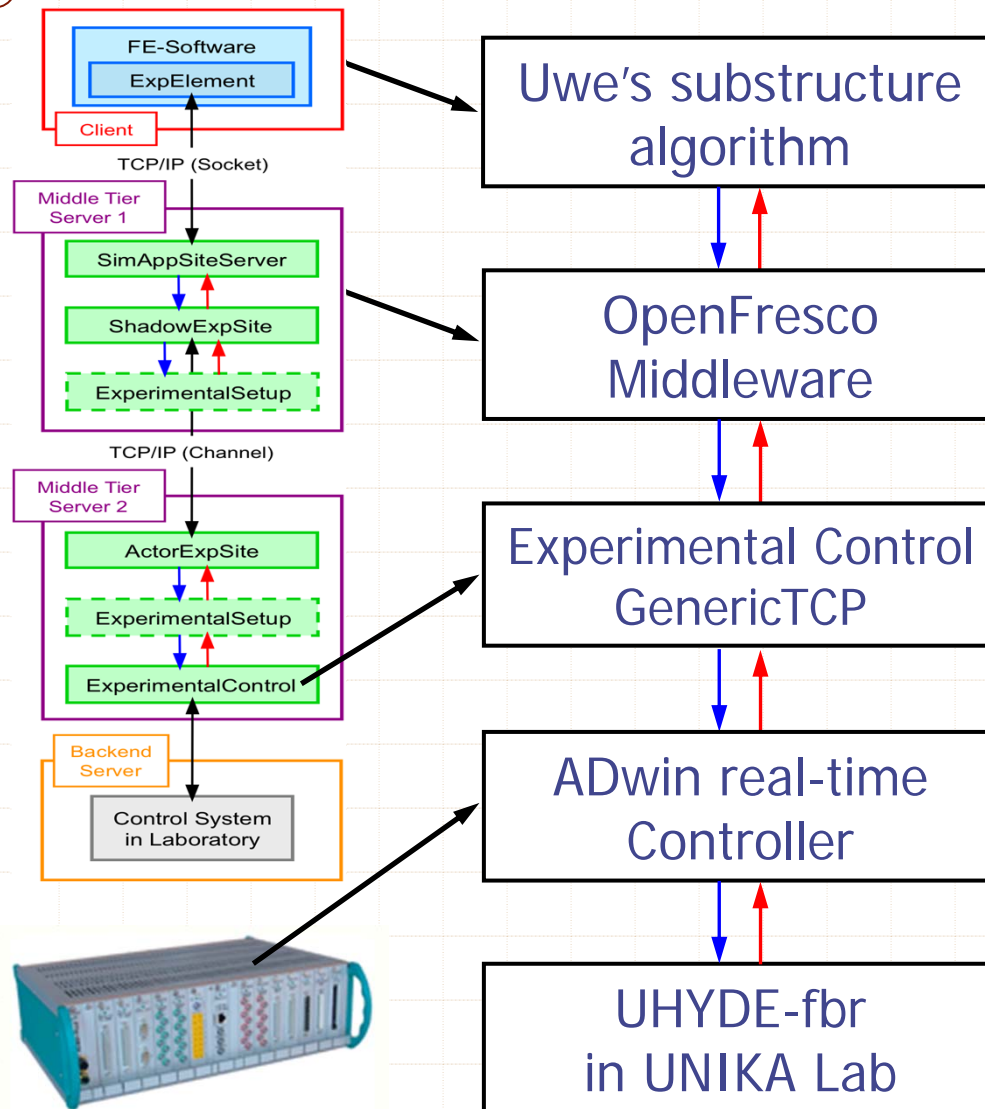
Continuous Intercontinental HS



○ Numerical Site

○ Experimental Site

OpenFresco Details

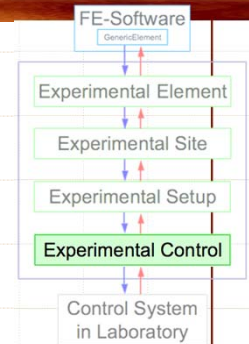


New Experimental Control

GenericTCP

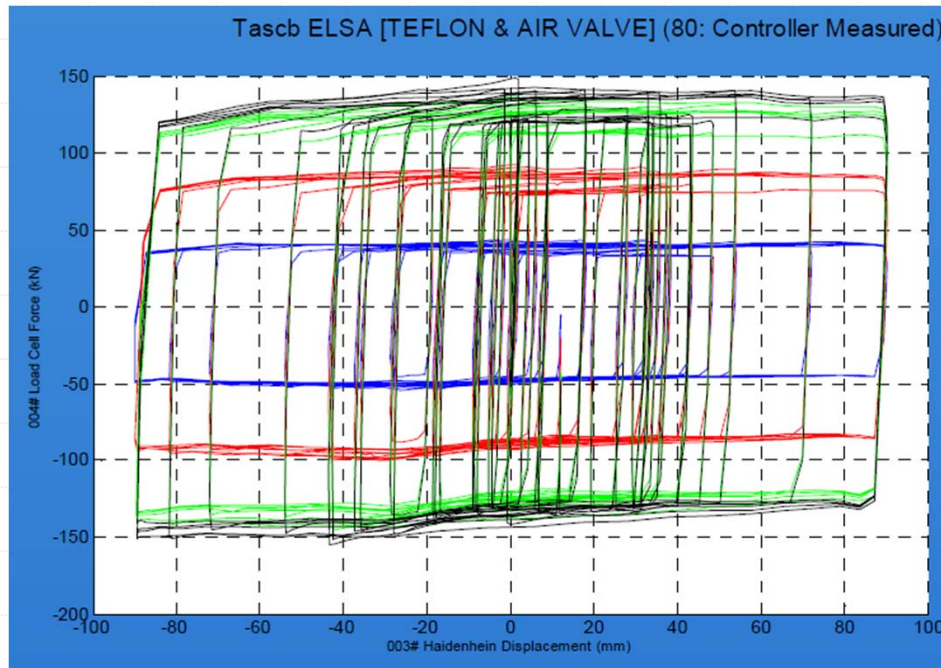
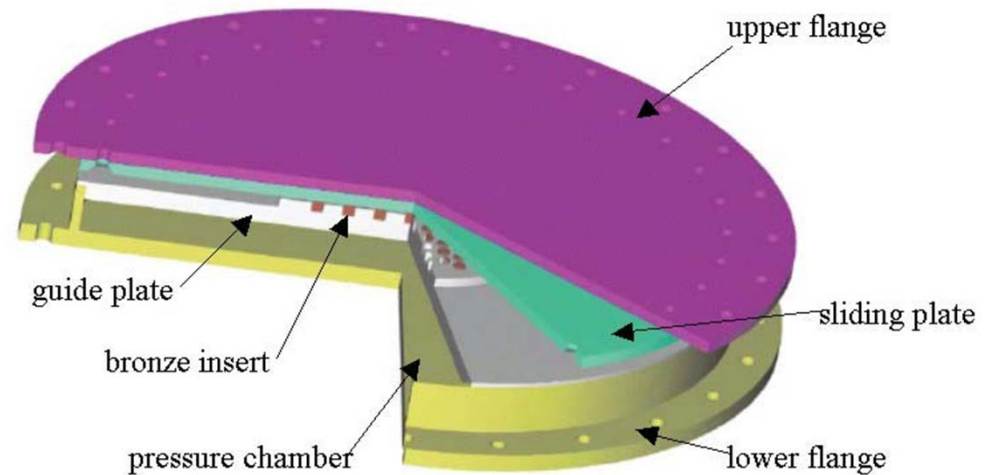
```
expControl GenericTCP $tag ipAddr $ipPort  
  -ctrlModes (5 $mode) -daqModes (5 $mode)  
  <-initFile fileName>
```

<code>\$tag</code>	unique control tag
<code>ipAddr</code>	IP address of controller program
<code>\$ipPort</code>	IP port of controller program
<code>\$mode</code>	arrays of control and daq mode flags for (disp, vel, accel, force, time)
<code>fileName</code>	ASCII text file with additional parameters to initialize the controller (optional)



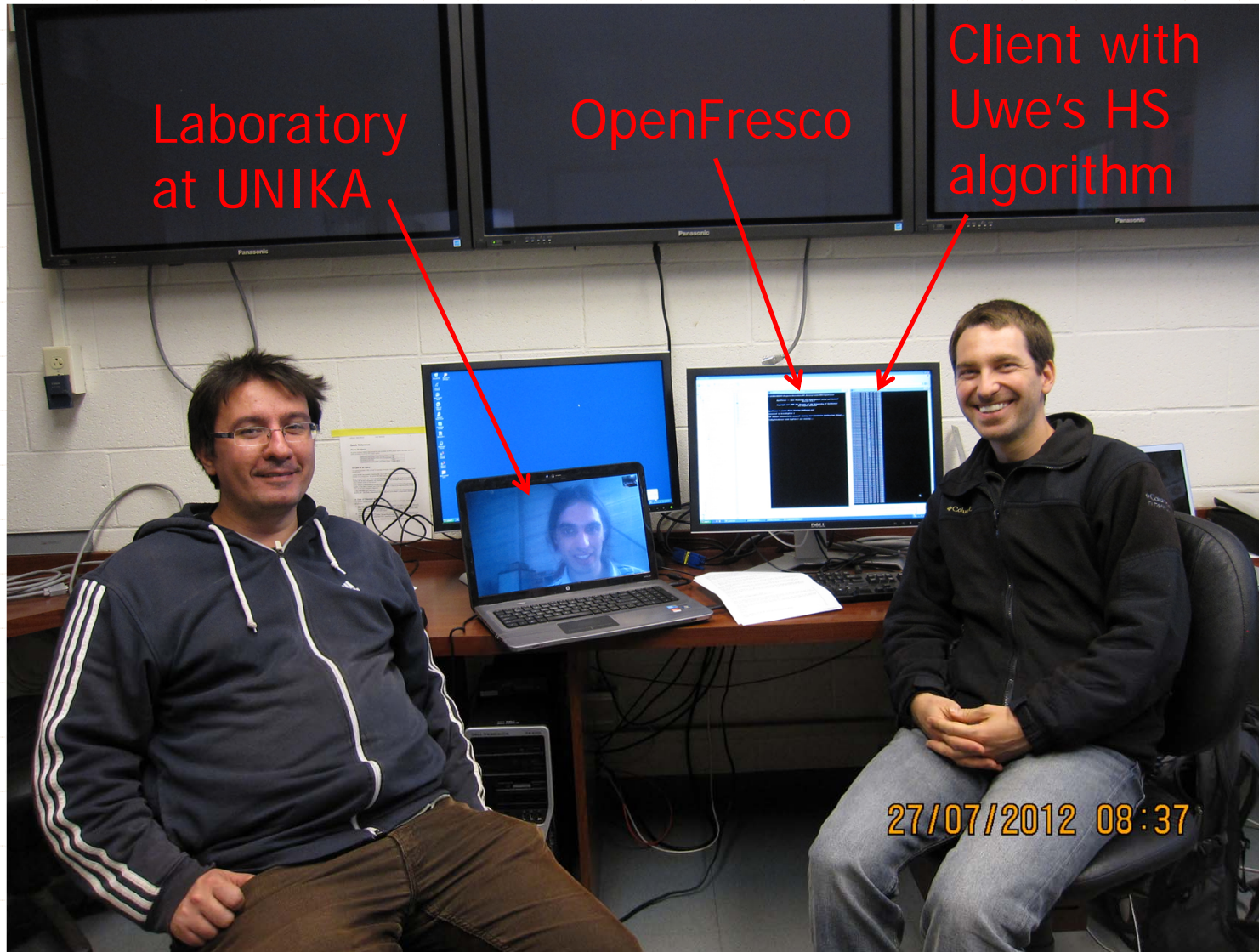
UHYDE-fbr

- Friction is controlled by air pressure in chamber
- Very stable hysteresis loop



Hysteresis Loops for different air pressures

During Test Execution



Test Parameters

- ★ In-lab simulation time step of 1 sec, which means that the 1600 step long test took ~ 27 min.
- ★ The integration time step was 0.01 sec, so we ran the test 100 times slower than real time.
- ★ Uwe's algorithm was set to use 4 sub-steps and the network round trip time was ~ 0.2 sec.

Some Result Screenshots

