

Field measurements

Dept. of Civil Engineering, Ghent University



Background

Field measurements are used to investigate, quantify and understand scale effects by comparing them to smaller scale models. This knowledge is used to revise existing design formulas based on model experiments to improve the design of new structures.

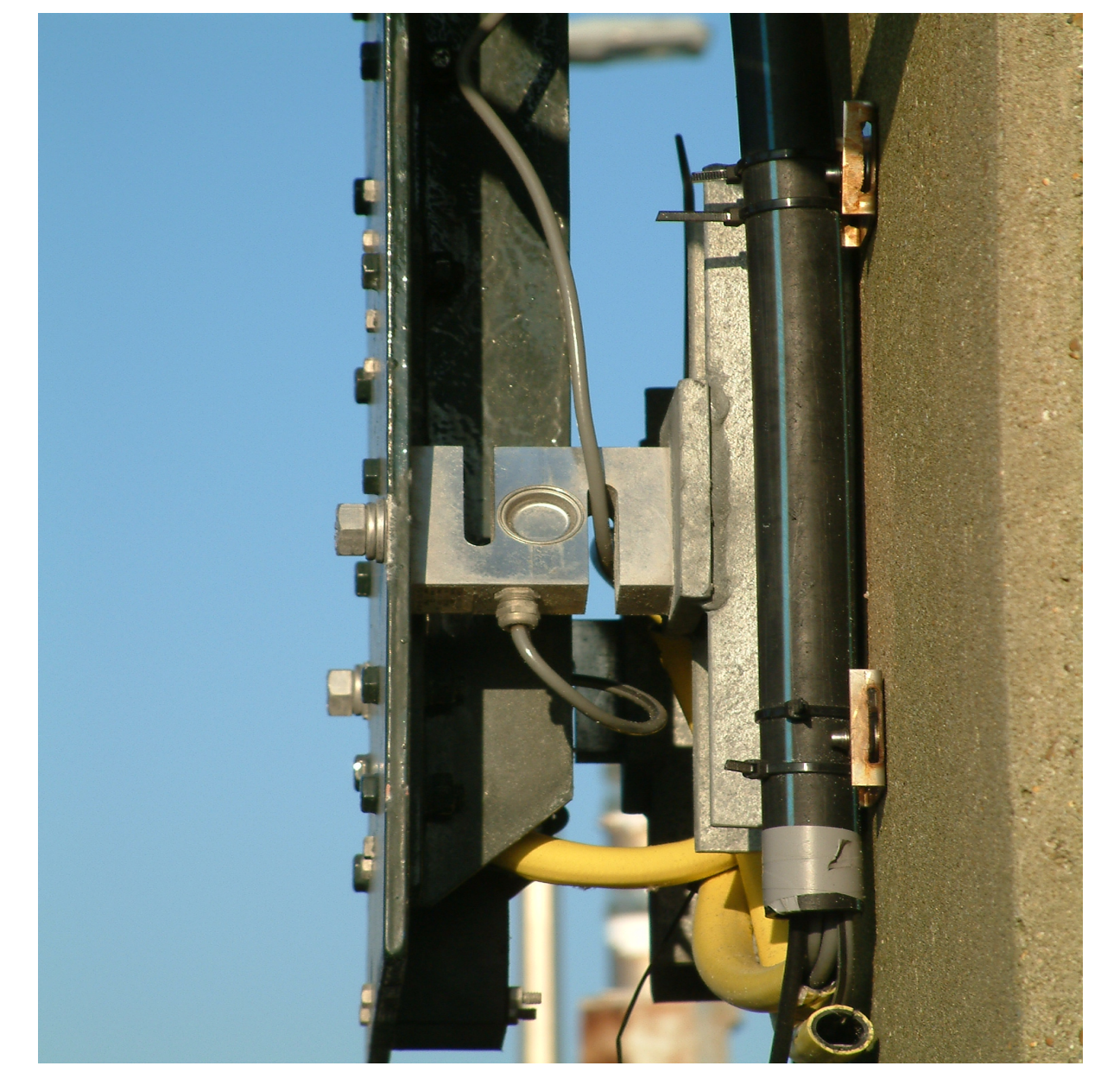
Examples



Zeebrugge - Overtopping



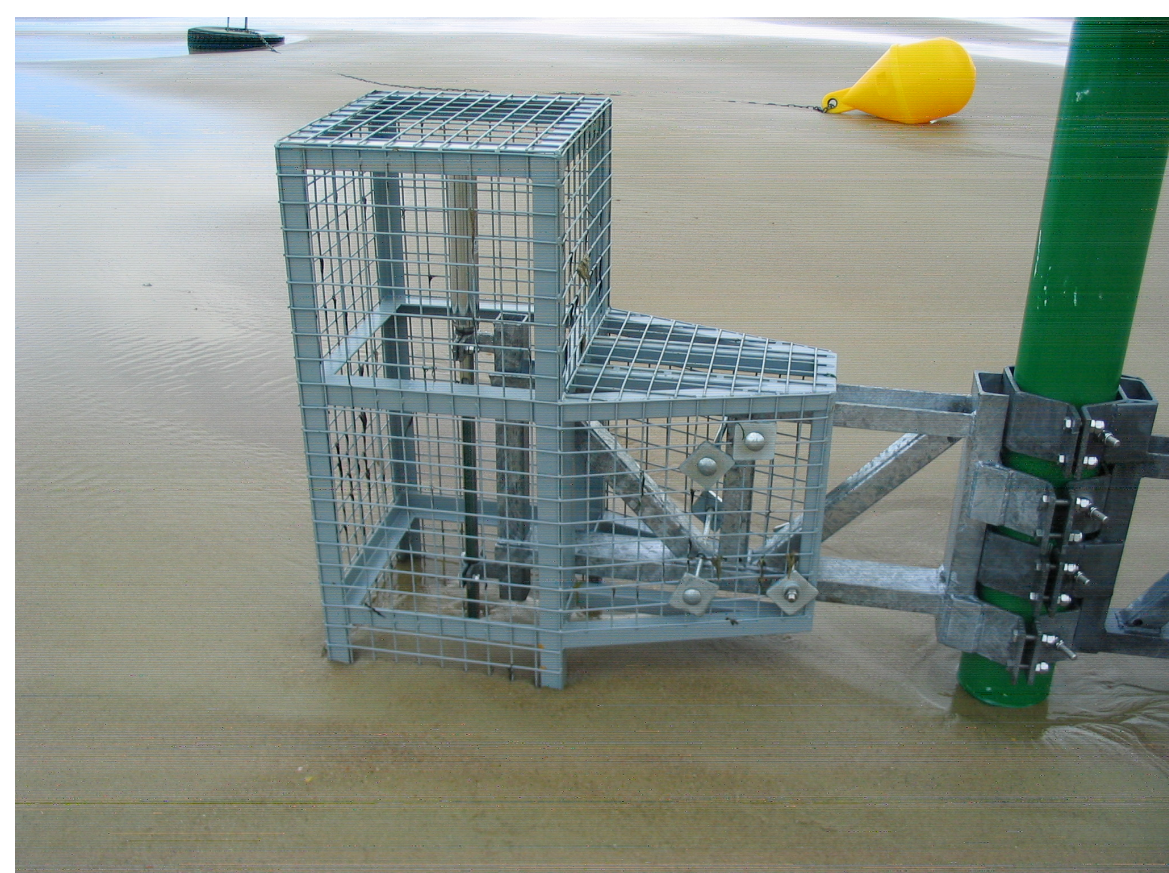
Zeebrugge - Wave run-up



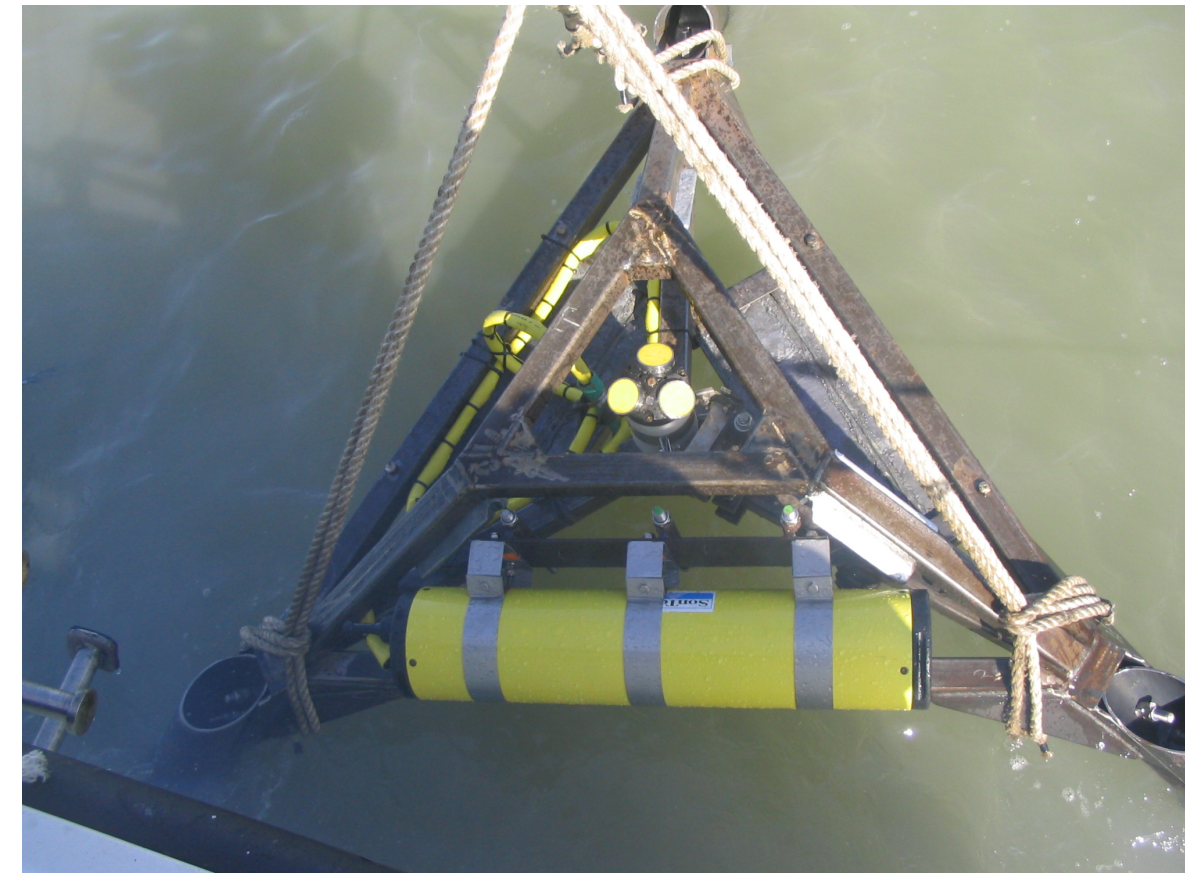
Zeebrugge - Force measurements



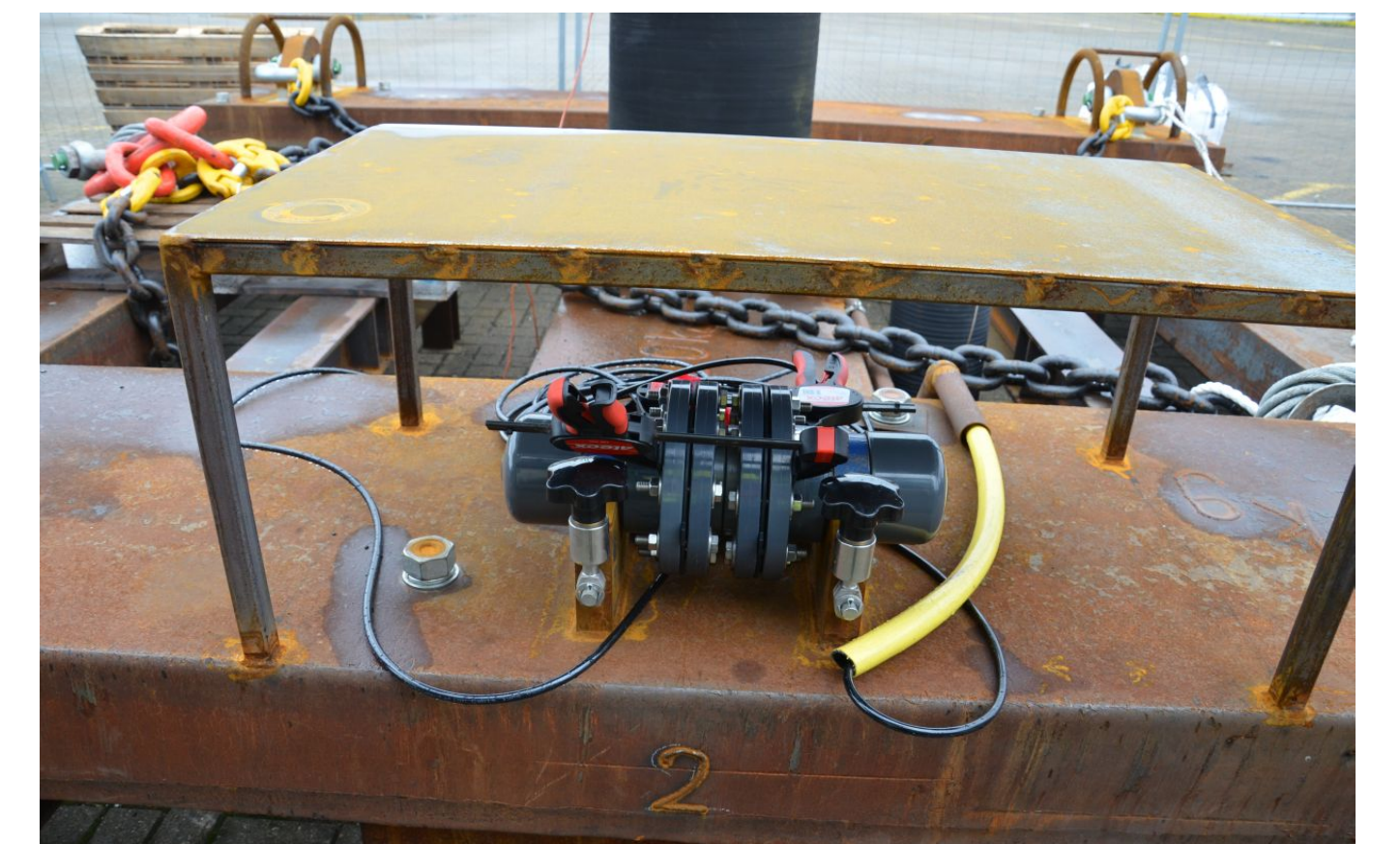
Leie - Ship-wave transmission



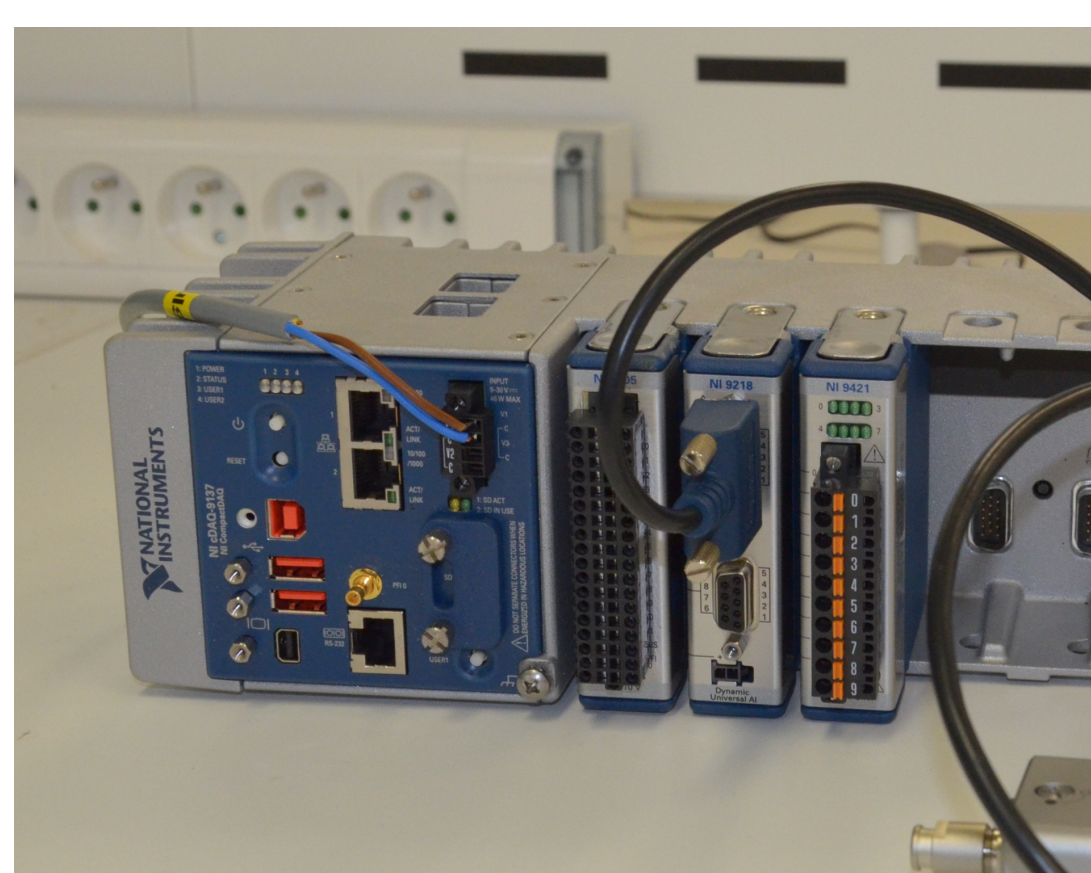
Oostende - Beach erosion



Oostende - Waves & currents



Autonomous submersible datalogger



Ruggedized data-acquisition system



Blankenberge pier - Displacement



Tielrode - Wave impact with overtopping simulator



Oostende - Waves inside harbour

Our expertise

- more than 20 years of experience in prototype/field measurements
- in-house development of new instruments, hardware & software
- continuous measurements 24/7/365
- measuring waves, wave run-up, overtopping, erosion, currents, forces, displacements, pressures, ...