Experimental design: similarity

What are the similarity requirements for a model test?
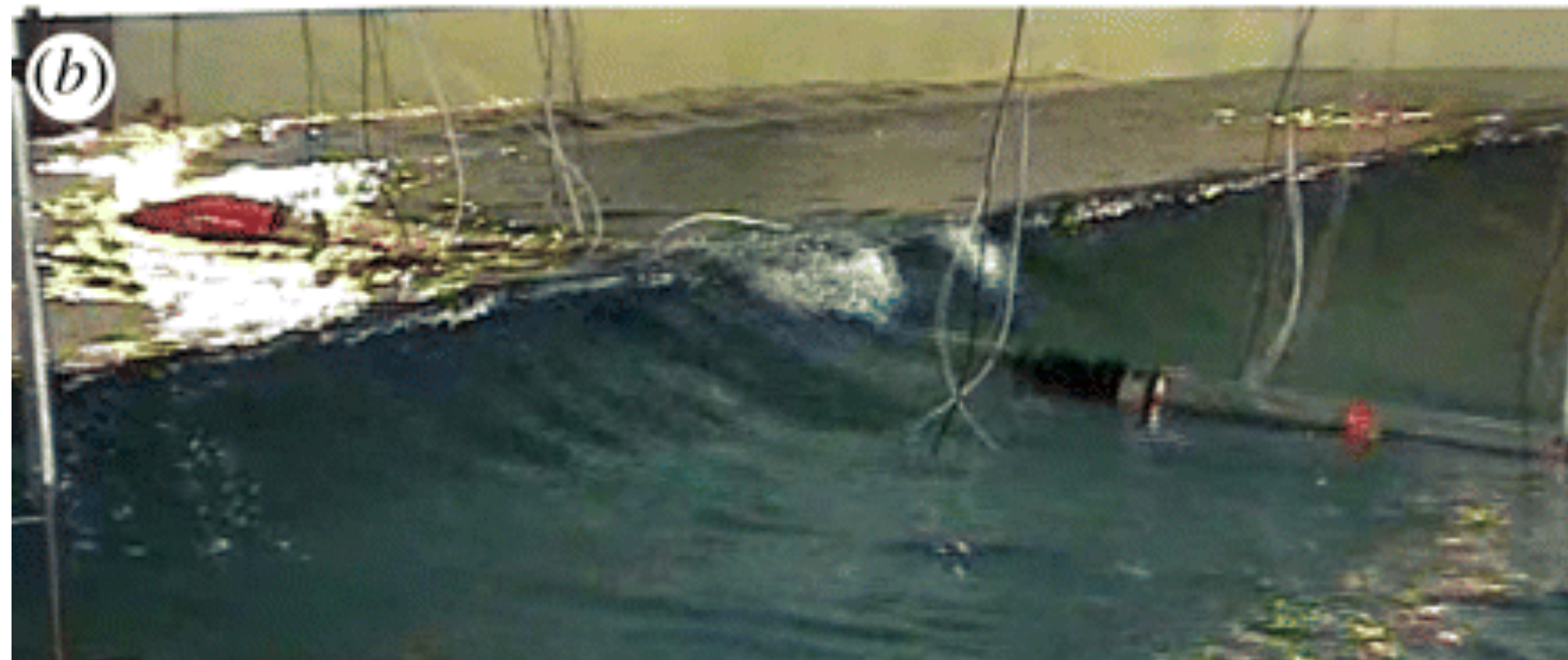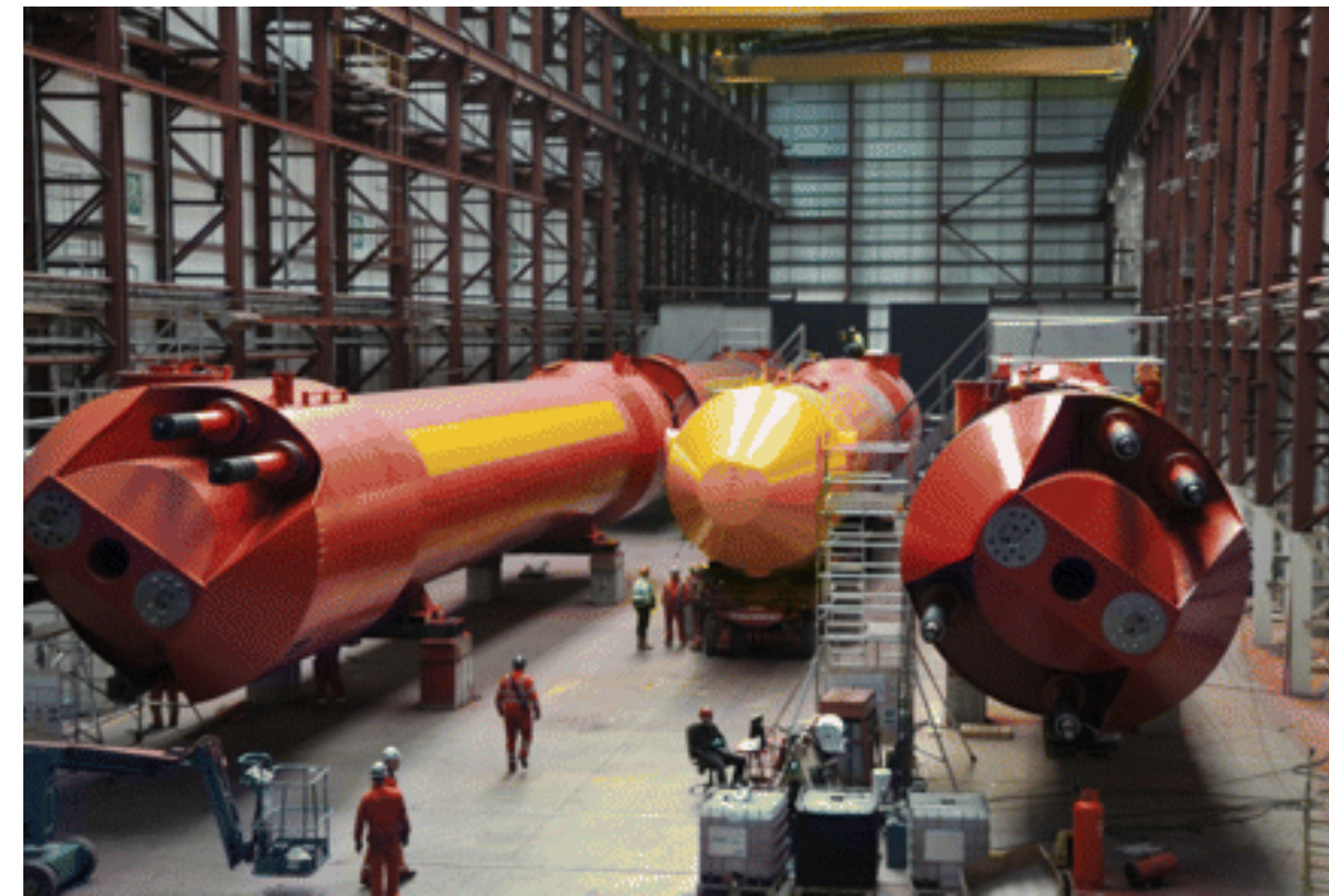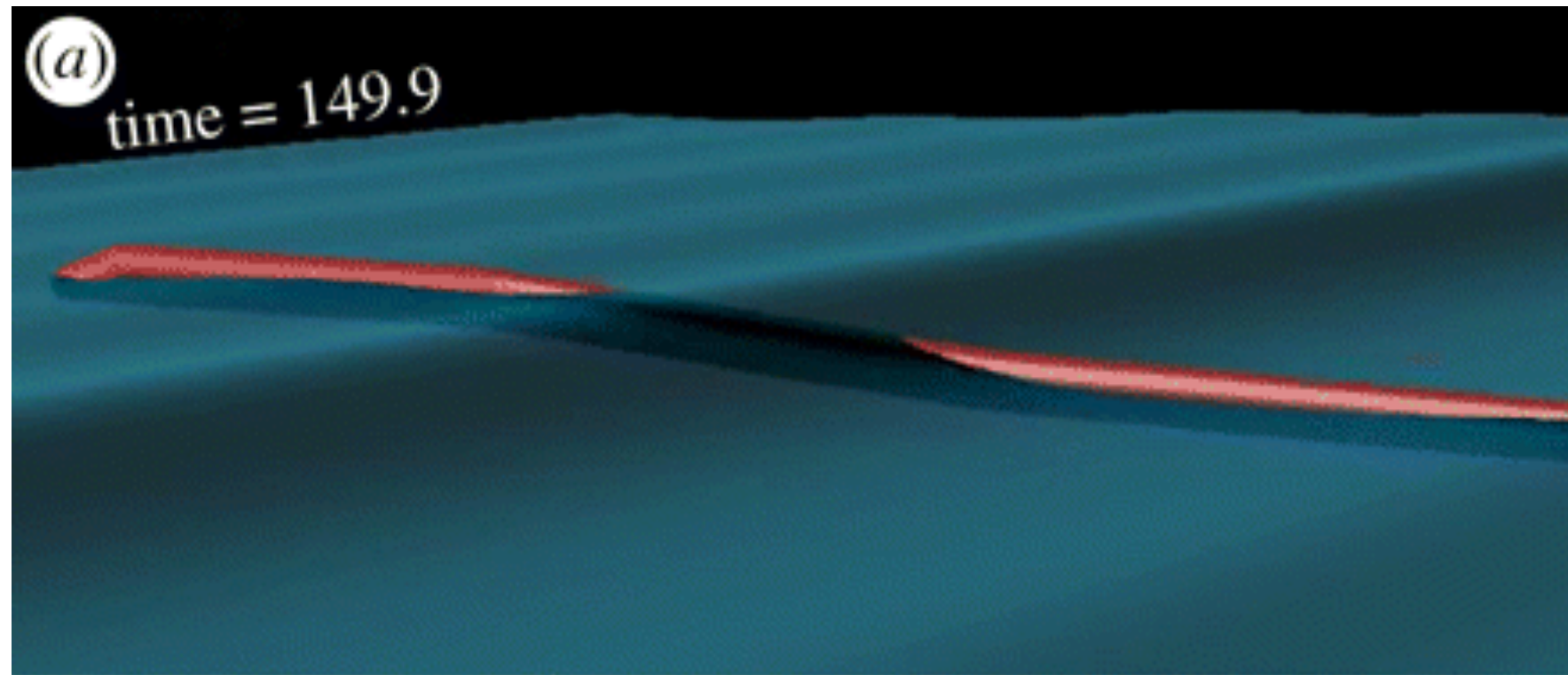
Types of similarity:

1. Geometrical similarity
2. Kinematic similarity
3. Dynamic similarity

Experimental design: similarity

Geometrical similarity

The model and full scale structures must have the same shape

All linear dimensions must have the same scale ratio: $\lambda = L_F / L_M$

Pelamis wave energy converter