



– DELIVERABLE D7.6 –

**Open event in the biomedical device
community: seminar/technical session + live
demonstration**

– Nathan QUINLAN (NUIG) –

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1. Introduction

In task 7.4, the consortium has organised open events targetted at potential end-users of NextMuSE technology in the partners' application domains, i.e. hydraulic turbines, marine, and biomedical devices. This is a report on the event held for the biomedical device community.

2. Dissemination Event

Members of the NUIG NextMuSe team attended the 18th Congress of the European Society of Biomechanics (ESB2012) will be held at the Instituto Superior Técnico (IST) Lisbon, Portugal, from 1st to 4th July 2012. A booth was arranged in the conference exhibition area. A poster was displayed and brochures distributed. NextMuSE results were displayed on a monitor, including videos provided by various partners, with an emphasis on biomedical examples.

The medical device examples on display consisted of simulations of flow in a 2D mechanical heart valve, and interactive 2D simulation of flow in an end-to-side arteriovenous graft. The latter display was a screen recording of an ICARUS session in which dynamic output was displayed and the geometry morphed in response to user commands.

Over the course of two days, NUIG NextMuSE researchers interacted at length with over 25 conference delegates at the booth.

In addition, N. Quinlan presented a talk entitled "Mesh-free modelling of flow in a bileaflet mechanical heart valve" in a conference session on Cardiovascular Biomechanics. The abstract of the talk appears in *Journal of Biomechanics* 45(S1):S140 (2012).

3. Photographs

Photographs of the NextMuSE exhibition booth are shown below.

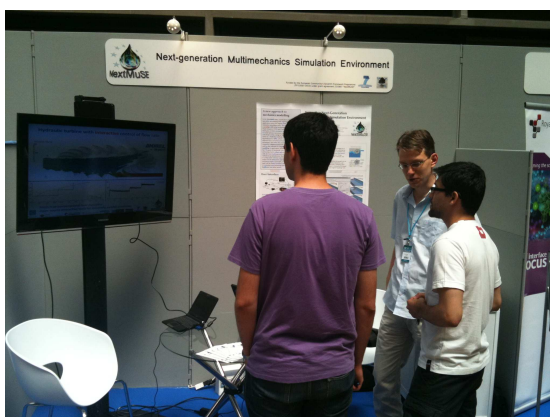
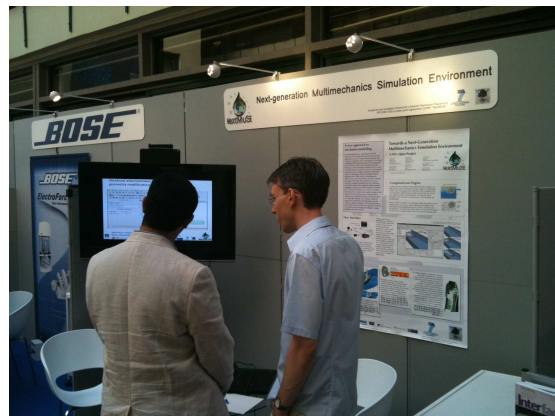
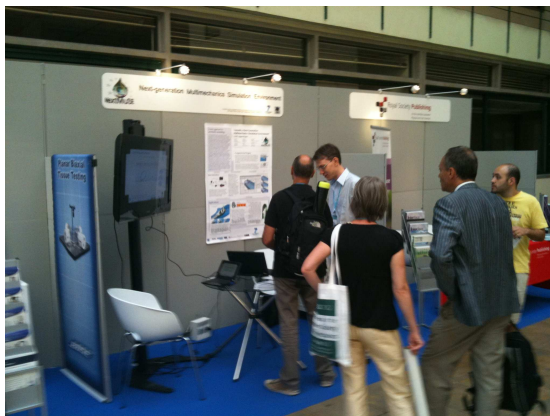


Figure 1: The NextMuSE exhibition booth at the 18th Congress of the European Society of Biomechanics.

4. Materials

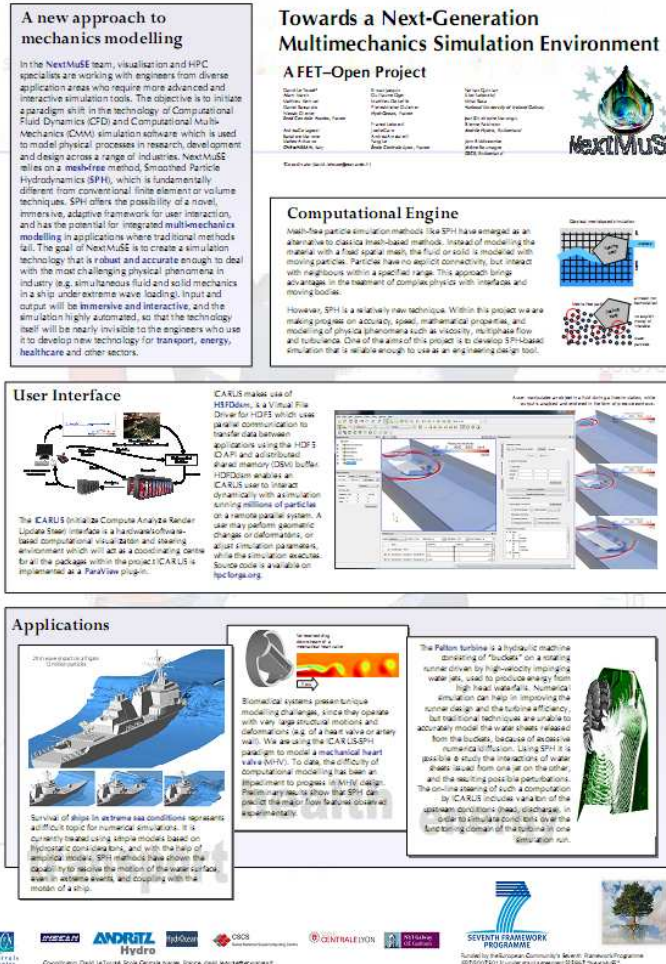


Figure 2: The NextMuSE poster displayed at the 18th Congress of the European Society of Biomechanics.

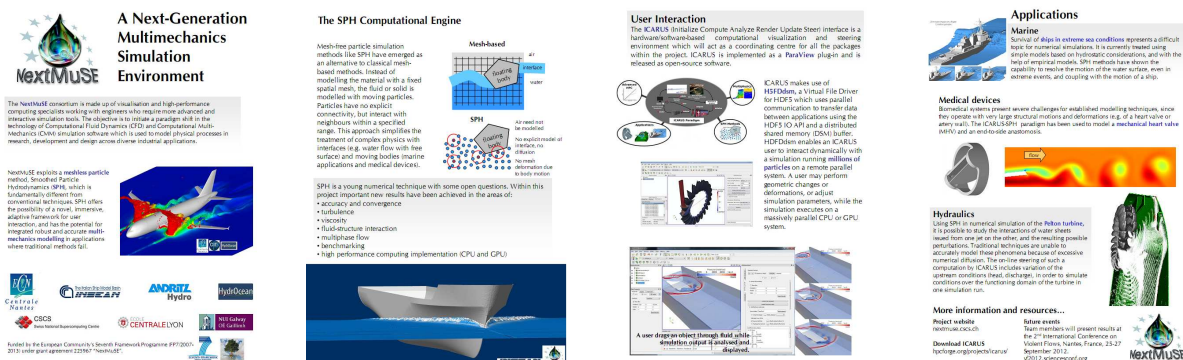


Figure 3: 4-page NextMuSE brochure distributed at the 18th Congress of the European Society of Biomechanics.