



Hydro-Seminar

by Lab. of Floating-Body Dynamics in Waves

The speaker in the 32nd Hydro-Seminar is

Professor Pierre Ferrant

**Laboratoire de Recherche en Hydrodynamique, Energétique et Environnement Atmosphérique (LHEEA Lab.),
Ecole Centrale de Nantes, Nantes, France**



Date: Tuesday, 8th March, 2016

Time: 16:00 – 17:00

**Venue: S1-412 (Lecture room, 4F of S1 building)
Suita Campus, Osaka University**

Deterministic water wave modeling: development and applications

The Speaker: Professor Pierre Ferrant

Prof. Pierre Ferrant graduated in 1981 from Ecole Centrale de Nantes, with a specialization in mechanical engineering and shipbuilding. In 1982, he obtained both a Master degree (DEA) in mechanical engineering, with a major in ocean engineering, and a specialized engineer degree from the SSHNA (Section Spécial d'Hydrodynamique Navale Avancée). He defended his doctoral thesis in 1988, on the numerical simulation of nonlinear wave-body interactions. He was awarded a HDR (Habilitation à Diriger les Recherches) in 2006.

In 1988, after several positions of research assistant in Ecole Centrale de Nantes, P. Ferrant joined SIREHNA, a start-up from Ecole Centrale de Nantes, in which he was responsible for the development of nonlinear simulation methods for ocean waves and wave-structure interactions.

He joined Ecole Centrale de Nantes as an assistant professor in 1998, with the task of developing the experimental activities in the newly extended hydrodynamic facilities (Towing tank 150m x 5m x 3m, Ocean engineering basin 50m x 30m x 5m). He was promoted full professor in 2008, and first class professor in 2013. Since 1998, he has held different positions in ECN: Scientific responsible for the development of experimental activities in hydrodynamics since 1998, deputy head of the research team 'Hydrodynamics and Ocean Engineering of the Fluid Mechanics Lab of Ecole Centrale de Nantes (LMF – UMR6598) (2004-2012). In the period 2010-2012, he managed the restructuration of the LMF, with the creation of the new laboratory, LHEEA, standing for 'Laboratoire de recherche en Hydrodynamique, Energétique et Environnement Atmosphérique'. P. Ferrant is director the LHEEA lab. since 2012.

Prof. Pierre Ferrant is an expert in free surface flows, ocean waves modelling and wave structure interactions, using both numerical and experimental approaches. He is serving national and international expert groups, and is member of the Advisory Council of ITTC since 2011. He is also associate editor of a number of international scientific journals.

Prof. Pierre Ferrant has supervised 25 PhD theses and has published more than 200 papers in international journals, book chapters, or refereed conference proceedings.

Prof. Pierre Ferrant has been responsible for the specialization in ocean engineering in Ecole Centrale de Nantes from 2003 to 2012. He is responsible in ECN for the Erasmus Mundus Master Program EMShip, opened in 2010, an international master with 5 other European universities, giving a higher education in the design of ships and offshore structures.



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