

**Patient-specific modelling of
cardiovascular and respiratory flow
problems-challenges**

Professor Perumal Nithiarasu
Civil and Computational Engineering Centre,
Swansea University,
Swansea SA2 8PP, United Kingdom



Date : 19 August 2009 (Wednesday)
Time : 4 pm – 5 pm
Venue: SPMS-Executive Classroom 2, MAS-03-07
School of Physical and Mathematical Sciences

The main challenges of patient-specific fluid dynamics studies are in the translational aspects. Many research groups all over the world are carrying out research in this area but no consistent effort is made in identifying the problems relevant to translational aspects. The translational element consists of two difficulties. They are (i) Technological issues and (ii) Implementation issues. Technological issues are associated with the accuracy and difficulties associated with automating the technology. The implementation issues include the general skepticism and general lack of strong interdisciplinary understanding. This lecture will discuss both aspects in detail.

Speaker Biography

Professor Perumal Nithiarasu is currently a personal chair and EPSRC advanced fellow (biomedical) at the Civil and Computational Engineering centre (C2EC), School of Engineering, Swansea University. Professor Nithiarasu obtained his BE, MTech and PhD from India and moved to Swansea University in 1996. He received his DSc from Swansea University in 2007 and became a lecturer in 2000, senior lecturer in 2004, reader in 2006 and professor in 2008. His research interests include biomedical engineering, computational fluid dynamics and numerical methods.

Host: Prof. Wang Desheng, Division of Mathematical Sciences, School of Physical and Mathematical Sciences

Queries to: Ms Denise Lim, deniselimrj@ntu.edu.sg, Tel: 6513 7428

SCHOOL OF PHYSICAL AND MATHEMATICAL SCIENCES

NANYANG TECHNOLOGICAL UNIVERSITY
SPMS-MAS-03-01, 21 NANYANG LINK, SINGAPORE 637371
FAX: +65 6515 8213 TEL: +65 6513 7423