



The Institution of Engineers, Malaysia

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Talk On “Advances in Engineering”

Organized by Engineering Education Technical Division, IEM
BEM Approved CPD/PDP Hours: 2 Hours Ref No: IEM16/HQ/334/T

Date : **20th August 2016 (Saturday)**
Time : **11.30am – 1.00pm** (*Refreshments will be served at 10.30am*)
Venue : C&S and TUS Lecture Room, 2nd Floor, Wisma IEM.
Speaker: **Prof. Nic Smith**, Dean of Engineering, University of Auckland

SYNOPSIS

Prof Nic Peter Smith will be sharing a presentation on some of the exciting developments taking place globally within his discipline of Biomedical Engineering, including his own research on how mathematical modelling can help improve heart patient recovery plans.

BIODATA OF SPEAKER



Prior to joining the Faculty of Engineering, University of Auckland in August 2013, Nic Smith was Head of Biomedical Engineering at Kings College, London and before that Professor of Computational Physiology at the University Computing Laboratory, University of Oxford. He is a Honorary Consultant at Guys and St Thomas' Hospital London and a Fellow of the Newton Institute University of Cambridge. Professor Smith leads a computational modelling group which is currently a

central contributor to the European based Virtual Physiological Human (VPH) Project. He has authored over 150 peer reviewed journal publications, 300 conference publications and is on the editorial board for the international peer review journals including the Journal of Physiology, Microcirculation, Medical & Biological Engineering & Computing and International journal of Computational Methods in Bioengineering. He is the lead-author on several patent applications filed with the United States and European Patent Offices, which outline intellectual property covering the development of anatomically based physiological models and specific applications.

Professor Smith's research is characterised by the development of integrated multi-scale and multi-physics models, which provide the ability to link biophysically detailed experimental data to integrated function from sub-cellular to the whole organ level. Within the scope of this work, he has developed computational techniques to enable specific model developments that have in turn been applied to provide insight into both basic physiology and clinical contexts. This research is focused on electrophysiology and contraction at the cellular level and the multi-scale translation of these models to simulate blood flow and cardiac electro-mechanics at the tissue level. Prof Nic holds a Bachelor of Engineering with First Class Honours and a PhD, both in Engineering Science, from the University of Auckland.

Ir. Prof Dr Vinesh Thiruchelvam
Chairman
Engineering Education Technical Division, IEM

ANNOUNCEMENTS TO NOTE

- Preferential admission to talk shall be accorded to IEM members (pre-registration and online registration are NOT required).
- Non-members may also attend the talk but will need to pay a registration fee of RM50 and an administrative fee of RM15. GST is inclusive.
- Members of affiliated organizations upon producing their membership cards will be exempted from paying registration fee. Administrative fee is nevertheless applicable.
- Limited seats are available on a "first come first served" basis (maximum 100 participants).
- IEM members are reminded to produce membership cards for confirmation of attendance (CPD purpose) failing which a fee of RM25 will be imposed. GST inclusive.

ADMINISTRATIVE FEE

- Kindly be informed that an administrative fee of RM15 is payable for talks organized by IEM. GST is inclusive.
- The fee would be used to cover overhead costs, building maintenance expenses as well as contribute to Wisma IEM Building Fund.
- All contributions will be deeply appreciated by IEM.
- Student Members are however exempted.

PERSONAL DATA PROTECTION ACT

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CPD HOURS CONFIRMATION

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