

VPHi Meet-the-Mentor Luncheon

26 September 2016 from 12.45 to 13.45 – VPH2016 conference, Amsterdam

The Meet-the-Mentor Luncheon is an event organized by the VPHi student committee to enhance the learning experience for PhD students. The luncheon offers trainees a special opportunity to meet and network with senior members of the community and receive career advice and insights.

The mentor panel is composed by both academic and industry representatives from different fields. A full list of the mentors is available below. Interested trainees shall register for the luncheon **not later than 22 Sept 2016**, by sending an email to manager@vph-institute.org. Registrants are requested to submit their mentor choices (**minimum of 2 mentor options**) and seating will be assigned on a first-come-first-served basis, for a maximum of 6 students for mentor. Once the registration process will be closed, a schedule of the event will be made available to all registrants.

Mentor	Affiliation	Sector	Field
Stephen Payne	University of Oxford	Academic	Cardiovascular
Luca Emili	Promeditec	Industry	Clinical Trials
Nic Smith	University of Auckland	Academic	Engineering
Rudi Balling	Luxembourg Centre for Systems Biomedicine (LCSB), University of Luxembourg	Academic	Neurophysiology
Liesbet Geris	Universities of Liège and Leuven	Academic	Orthopedics
Marco Viceconti	Insigneo, University of Sheffield	Academic	Orthopedics
Oliver Röhrle	SimTech, University of Stuttgart	Academic	Orthopedics
Peter Hunter	Auckland Bioengineering Institute	Academic	Physiology
Niels Boye	Aleris Hamlet Hospital Aarhus (Endocrinology), Klinisk Informatik, Aarhus (Health informatics SME), Sundhed.dk	Academic & Industry	Internal Medicine, Endocrinology, Health Informatics
Mark Palmer	Medtronic, plc	Industry	Medical Devices, Tissue Mechanics, Modeling & Simulation, Imaging

Dr Stephen Payne



Dr Stephen Payne is an Associate Professor in Biomedical Engineering at the University of Oxford, currently also serving as Associate Head of Department with responsibility for Graduates. His research group focuses on the modelling of blood flow in the brain, with a particular interest in how blood flow is controlled and regulated over a wide range of length and time scales. Over the last 10 years, he has published over 60 journal papers (with well over 100 collaborators), supervised nearly 20 PhD students to completion and both authored one book ('Cerebral Autoregulation') and co-authored one textbook ('Physiology for Engineers'). He is currently working on his next book ('Quantitative Cerebral Blood Flow'), which will be published in 2017.

More information on <http://www.eng.ox.ac.uk/pumma/>

Luca Emili



Luca Emili is founder and CEO at Promeditec, a company specialized in the development and delivery of technology solutions and services for the conduction and management of clinical trials. With a strong passion for technology he is focused on the development of the company for the definition of partnership with Research centers, hospitals and pharma companies and the development of new innovative technology and services. Prior to found Promeditec he worked in M&A and acted as an investor in some companies. From 2001 to 2010 was CEO of Emaze, an IT Security Company backed by Alice Venture, Venture Capital taking the company to profitability and 80 people. He is also a journalist specialized in IT security topics. Before Emaze, Luca was professor of IT at the MIB School of Management of Trieste, as well as entrepreneur in the internet services business. He has a degree in Economy and Business from the University of Trieste

More information on www.promeditec.com

Prof Nic Smith



Prior to joining the Faculty of Engineering 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.

More information on <http://www.engineering.auckland.ac.nz/people/np-smith>

Prof Rudi Balling



Rudi Balling is a developmental biologist and geneticist. He studied human and animal nutrition at the Universities of Bonn and Washington State University, USA and received his PhD in Human Nutrition from the University of Bonn, Germany. After completing research posts at the Samuel Lunenfeld Research Institute in Toronto Canada (1985-1986), the Max Planck Institute of Biophysical Chemistry in Göttingen (1987-1991) and the Max Planck Institute of Immunobiology in Freiburg, Germany (1991-1993), he became Director of the 'Institute of Mammalian Genetics' at the GSF National Research Center for Environment and Health in Munich. In 2001 he took over the position as Director of the Helmholtz-Centre for Infection Research in Braunschweig, Germany. In 2009 he became founding Director of the Luxembourg Centre for Systems Biomedicine, an interdisciplinary centre of the University of Luxembourg dedicated to the analysis of neurodegenerative diseases through computational and system biology oriented approaches. In 2016, he was awarded the honor of Commander of the Order of Merit of Luxembourg for his work in research.

More information on http://www.en.uni.lu/lcsb/rudi_balling

Prof Liesbet Geris



Liesbet Geris is professor in Biomechanics and Computational Tissue Engineering at the universities of Liège and Leuven (Belgium). Her research interests encompass the multi-scale modeling of bone regeneration in tissue engineering applications. She works in close collaboration with experimental and clinical researchers of the university hospitals of Leuven and Liège focusing on the development of mathematical models of impaired healing situations and the *in silico* design of novel treatment strategies. She is the author or co-author of 60 A1 publications, 11 book chapters and over 100 conference proceedings and abstracts. She has edited 2 books on computational modeling in tissue engineering and systems biology. In 2011 she received an ERC starting grant. She has received a number of young investigator and early career awards. She is chair of the policy affairs work group of the Virtual Physiological Human Institute, member of the Young Academy of Europe and co-chair of the Young Academy of Belgium (Flanders).

More information on <http://www.biomech.ulg.ac.be>

Prof Marco Viceconti



Marco Viceconti holds the chair of Biomechanics at the Department of Mechanical Engineering of the University of Sheffield, UK, and serves as Executive Director of the Insigneo Institute for in silico Medicine, a joint initiative of the University of Sheffield and the Sheffield Teaching Hospital NHS Foundation Trust. He is also professor associate in the department of Oncology and Metabolism. Prof Viceconti is an expert of musculoskeletal biomechanics in general, and in particular in the use of subject-specific modelling to support the medical decision. His current research activity focus on the use of subject-specific models to support the diagnostic, prognostic, or treatment decision in musculoskeletal diseases such as fragility fractures in elders, identification of abuse fractures in children, or juvenile idiopathic arthritis. Prof Viceconti has 504 publications indexed by Google Scholar (H-index = 49), 330 by Web of Science (H-index = 37), and 310 by SCOPUS (H-index = 40). He served as President for the European Society of Biomechanics and for the European Alliance of Medical and Biological Engineering and Science. Prof Viceconti is one of the key figures in the Virtual Physiological Human (VPH) community: he is the President of the VPH Institute, an international no-profit organisation that coordinates this research community, and has recently concluded the coordination of the Avicenna action, which road-mapped the emerging topic of “in silico clinical trials”, where subject-specific modelling is used in the development and assessment of biomedical products.

More information on <https://www.shef.ac.uk/mecheng/staff/mviceconti>

Prof Oliver Röhrle



Oliver Röhrle is Professor for “Continuum Biomechanics and Mechanobiology” at the Cluster of Excellence for Simulation Technology (SimTech) at the University of Stuttgart, Germany, and leads the ATTRACT “Virtual Orthopedic Lab” at the Fraunhofer Institute for Manufacturing Engineering and Automation (Fraunhofer IPA) in Stuttgart. He received a Master of Science in Mathematics at the University of Wisconsin at Milwaukee, USA (1999) and his Diplom in “Wirtschaftsmathematik (Mathematics and Economical Affairs)” at the University of Ulm (2000). After his PhD in Applied Mathematics at the University of Colorado at Boulder, USA (2004), he spent

4 years as a research scientist at the Auckland Bioengineering Institute at the University of Auckland, New Zealand, before returning to Germany in 2008. In 2011, he received the Richard von Mises prize of the GAMM (Society of Applied Mathematics and Mechanics) and in 2012, he was awarded an ERC Starting Grant on „LEAD – Lower Extremity Amputee Dynamics”. His research focuses on various aspects of the musculoskeletal system, e.g., on novel chemo-electromechanical skeletal muscle models, biophysical recruitment models, virtual EMG predictions, continuum mechanical homogenisation techniques for skeletal muscle tissues and forward-dynamics simulations of multi-muscle systems using three-dimensional continuum-mechanical skeletal muscle models. Moreover, he is interested in dental applications.

More information on www.mechbau.uni-stuttgart.de/lsg/jrg/

Prof Peter Hunter



Professor Peter Hunter FRS is Director of the Auckland Bioengineering Institute (ABI) and Director of the Medical Technologies Centre of Research Excellence (MedTech CoRE). His research interests are in modeling human physiology using an anatomical and biophysically-based multiscale approach that links molecular processes to tissue level phenotypes. He was awarded the Rutherford Medal and a KEA World Class NZ award in 2009 and appointed to the NZ Order of Merit in 2010. He is an elected Fellow of the Royal Society (London and NZ), Chair of the International Academy of Medical and Biological Engineering, and President-elect of the World Council of Biomechanics.

More information on <http://www.abi.auckland.ac.nz/people/p-hunter>

Niels Boye



Niels Boye is a senior clinician, who has been involved in the VPH movement from the very beginning as evaluator and reviewer of several proposals and projects in the EU framework programmes. This has contributed to his general passion for InSilico clinical medicine; implying computer supported 5P's medicine (Personalised, Predictive, Preventive, Participatory and Point-of-care (everywhere)). He is currently involved in projects with the Danish healthcare portal Sundhed.dk in building new business and servicemodels for data-driven clinical InSilico medicine, which are to be complementary and augmenting to the current document-driven framework based on New Public Management/ Evidence Based Medicine.

Mark Palmer, MD, PhD



Mark Palmer is a Senior Principal Scientist leading Biomechanics and Modeling in the Core Technologies Group within the Strategy and Scientific Operations organization for Medtronic, plc. Dr Palmer received his BS in Mechanical & Aerospace Engineering from Princeton University, dual Masters in Mechanical Engineering and Biomedical Engineering as well as MD and PhD in Mechanical Engineering from the University of Michigan. Following graduation, Dr Palmer worked as an entrepreneur for 3 years leveraging his custom, fully coupled, multiscale finite element modeling code for research and consulting for composites and analyses of age related changes in skeletal muscle. Dr. Palmer then returned to academia serving for 5 years as a tenure track faculty member at the University of Michigan with dual appointments in Kinesiology and Biomedical Engineering. In 2014, Dr Palmer was recruited to Medtronic where his current role includes serving as an R&D Consultant and Technical Advisor for Medtronic Business Units world-wide, identifying and managing external collaborations, and leading the long range R&T strategy for human simulation.

More information on <http://www.medtronic.com/us-en/index.htm>