



20th Annual Biomedical & Clinical Engineering Scientific Conference

“THE CLINICAL ENGINEER OF FUTURE ”

**2nd October 2015
Talbot Hotel Stillorgan
Dublin**

***'To be the voice and thought leader for
medical technology professionals in Ireland'***

The BEAI Speculates on the Clinical Engineer of the Future



On behalf of your BEAI, I am delighted to extend a warm welcome to the BEAI Annual Conference to our members, colleagues and friends. Our Conference 2015 acknowledges the changing environment in which Clinical Engineers are working, and the need for us as healthcare professionals to adapt to the changing environment and for the BEAI to support Clinical Engineers in their growth and development.

The BEAI brings together companies which provide a Clinical Engineering service, hospital-based Clinical Engineers and company-based Clinical Engineers. We face different but related challenges but a common theme is the desire to contribute to better healthcare delivery in Ireland.

It is perhaps too easy for Clinical Engineers to be silent, to work quietly supporting front-line clinicians. Our profession can so easily be taken for granted and it is only when you begin to imagine the health service without the clinical-technical expertise that Clinical Engineers bring to the end user of medical equipment that we realize how important our profession is in ensuring the right equipment is in the right place, used correctly, safely, and optimally.

At this year's conference we consider some examples of the latest technology, we consider how the professional biomedical or clinical engineering role might become more patient-focused, we hear about academic research from our members, and we look at how the BEAI can develop to support all of this.

As always, the BEAI Annual Conference allows you the opportunity to hear contributions from leading thinkers and influencers in Clinical Engineering. You will hear like-minded professionals talk about their view of the Future Clinical Engineer. At the exhibition you can see new technology and talk to the experts. You can build your network, because there is little to challenge the value of mutual support between professionals meeting similar challenges.

The BEAI Annual Conference has this been designed with you, our members, in mind, to provoke thought, stimulate comment and, most importantly, send you back to your work energised and motivated. As a key component of healthcare delivery, Clinical Engineers must lead the way in recognizing our changing environment and reacting to it. We can do this by working together through the BEAI.

I hope you will enjoy the BEAI Conference 2015.

MEABH SMITH
Chairperson of the BEAI

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"The Clinical Engineer of the Future"

20th Annual Scientific Conference
**Friday 2nd October 2015 – Talbot Hotel (formerly
the Stillorgan Park Hotel), Co. Dublin**

Programme of Events:

Time:	Presenter:	Topic:
08:00 – 9:30		Registration, Tea/Coffee And Networking
Morning Session		Chair:
09.30 – 09.35	Brian Kearney, BEAI	Opening Remarks
09.35 – 09.45	Prof. Shankar Krishnan	IFMBE Representative, Opening Speaker
09.45 – 10.15	Dr. Michael Czaplik, Senior Anaesthesiologist, Germany	Support of acute pain therapy by Analgesia Nociception Index (ANI)
10.15 – 10.45	Prof. Richard Reilly, Professor of Neural Engineering, TCD	Keynote Address
10.45- 11.15	Tea / Coffee / Exhibitions	
Mid – Morning Session		Chair:
11.15 – 11.30	Meabh Smith, BEAI	Launch of the BEAI's Strategic Plan
11.30 – 11.45	Willie Doherty, St Luke's Hospital Dublin	New Approach Technology: The Vero Linac
11.45 – 12.00	Raja Sivanantham, Student	Magnetic Resonance Imaging (MRI)
12.00 – 12.15	Gareth Enright, Student	Analysis of the haemodynamic impact of coronary stent systems using Computational Fluid Dynamics, CFD
12.15–12.30	Ger Flynn, HSE	The Clinical Engineer of The Future
12.30– 13.00	Panel Discussion	Questions & Answers
13.00–14.00	Lunch / Exhibitions	
Afternoon Session		Chair:
14.00 – 14.15	Meabh Smith, BEAI	Education Series
14.15 – 15.00	Eoin McDonnell, 3DNua	3D Printing Workshop & Presentation
15.00 – 15.15	Panel Discussion	3D Printing Panel Discussion with HPRA & NSAI
15.15 – 15.30	Tea / Coffee	
15.30 – 15.45	Multiple presenters	Charity Poster Session
15.45 – 16.00	Melanie Robertson	Code of Ethical Business Practice
16.00 – 16.30	Meabh Smith, BEAI	Awards & Close of Meeting

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PRESENTERS

Support of acute pain therapy by Analgesia Nociception Index (ANI)

Priv.-Doz. Dr. med. Michael Czaplík Senior physician



Skills and Expertise

- Anaesthesiology
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- SPI
- Pain Management

Scientific Societies: Bund deutscher Anästhesisten (BDA), Notärzte im Rettungsdienst Aachen e.V., Arbeitsgemeinschaft der Notärzte in NRW (AGNNW), Deutsche Gesellschaft für Anästhesiologie und Intensivmedizin (DGAI), European Society of Anaesthesiology (ESA), Freunde und Förderer der Medizinischen Informationstechnik e.V.

Journal Referee

IEEE Symposium on Industrial Electronics and Applications (ISIEA)

IEEE Symposium on Business,

The International Journal of Industrial Engineering: Theory, Applications and Practice Biomedizinische Technik/

Biomedical Engineering

Pediatric Critical Care Medicine

FUTURE CHALLENGES AND OPPORTUNITIES IN BIOMEDICAL ENGINEERING: A PERSONAL PERSPECTIVE

Professor Richard Reilly

Professor Richard Reilly is Full Professor of Neural Engineering at Trinity College Dublin, a joint position between the School of Medicine and School of Engineering. His research focuses on the processing of signals that diagnose the human physiological and cognitive state: non-invasive electrophysical biomarkers for cognitive function, patient-oriented neurodiagnostics methods, neural prosthetics and therapeutic neuromodulation devices.



He is a Principal Investigator and former Director of the Trinity Centre for Bioengineering and also a Principal Investigator in the Trinity College Institute of Neuroscience. His research inputs to the cross-disciplinary translational research at Trinity College on ageing and neurodegeneration specifically through the Department of Medical Gerontology and the Mercer's Institute on Successful Ageing at St. James's Hospital, Dublin. He is a member of the Royal Irish Academy (RIA), a Senior Member of the Institute of Electrical and Electronics Engineers (IEEE), Fellow of the Royal Society of Medicine (RMS), Fellow of the Royal Academy of Medicine of Ireland (RAMI) and a Fellow of the European Alliance for Medical and Biological Engineering (EAMBES) and past President of the European Society of Engineering and Medicine (ESEM). He is member of the Irish Medicine Board's Advisory Committee on Medical Devices.

In 2004, he was awarded a US Fulbright Award for research collaboration into multisensory integration with the Nathan Kline Institute for Psychiatric Research, New York. He is a former Silvanus P. Thompson International Lecturer for the Institution of Engineering and Technology. He has established two companies based on his research activities. Professor Reilly received his BE degree in Electronic Engineering, an MEngSc and a PhD in Biomedical Engineering from University College Dublin.

The Linear Accelerator: past, present and future

William Doherty:

After 10 years in the Telecomms industry, started in the Medical Equipment field with Albury Instruments in London manufacturing ECG monitors.

Returning to Ireland in 1980 worked in Letterkenny General Hospital on all types of Electro-Medical equipment. 1986 saw the opening of the new Dialysis unit, following training with Gambro & B. Braun, worked in Kidney Dialysis.

First started working with Linacs in 1990 with GE Medical Systems on the Saturne 41 Linear Accelerators, which were installed in Dublin & Cork.

He has worked in Clinical Engineering in St. Luke's since 2002 in the Radiotherapy field.



The modern Linear Accelerator treatment units have developed from basic models built in the 1940's.

In Radiotherapy Units, Clinical Engineers are essential in the Engineering (both hardware & software) to ensure maximum uptime of these units.

This presentation will chart these developments, take an in depth look at the mechanical design of one of the latest treatment systems and a glimpse of treatment machines to come.

Magnetic Resonance Imaging (MRI) Principles and Applications

Raja Sivanantham

Magnetic resonance imaging (MRI) is a radiological technique to visualize detailed internal anatomical structures. It employs nuclear magnetic resonance (NMR) to image atomic nuclei inside the patient/subject's body, with a powerful magnetic field to align the magnetization of certain body atoms and radio frequency fields to systematically alter magnetization alignment. This causes the nuclei to produce a scanner detectable rotating magnetic field that is recorded to reflect the scanned anatomical image. This review purports to relate MRI operation design and components to functional applications and associated risks, and comparison with competing technologies. These are individually extensive subjects.



Analysis of the haemodynamic impact of coronary stent systems using Computational Fluid Dynamics, CFD

Gareth Enright

Gareth Enright was born in Dublin, Ireland. He studied mechanical engineering at the Institute of Technology Tallaght where he received a National Certificate in mechanical engineering in 2000 and a National Diploma in 2001. He then went on to complete a BSc (Hons) in Electrical Services and Energy Management at Dublin Institute of Technology in 2012 and has recently completed a Master of Engineering Degree in mechanical engineering also at Dublin Institute of Technology.



Initially Gareth worked in project engineering and project management roles in the construction industry. In 2009 he transitioned into the healthcare sector where he has undertaken a variety of roles from project management of equipment installations, new build and refurbishment projects to his most recent position in the Medical Physics and Clinical Engineering department in Beaumont Hospital Dublin where he is employed as a Clinical Engineer.

Coronary Artery Disease, CAD is one of the leading causes of death in Europe, this progressive disease results from gradual build up of lipids and other cellular debris within the lining of the coronary artery thereby restricting the blood supply to the cardiac muscle. A number of interventional treatments are available to restore blood supply to the heart in patients presenting with CAD. One such treatment option involves the use of coronary stent systems which act as a scaffold supporting the re-vascularised segment of artery at the site of a blockage. An important consideration for medical device designers is how the deployed stent affects the haemodynamic properties within the stented portion of the coronary artery. In this presentation an introduction to coronary stent systems is provided, the fluid dynamics behind blood flow through stent systems is detailed and results of a CFD simulation of an idealised model of a deployed stent system are shown to highlight the usefulness of CFD in solving fluid flow problems in medical device design.

The Clinical Engineer of The Future

Ger Flynn

Ger is the National Clinical Head of Medical Devices for the HSE and works within Corporate Estates. Ger was appointed to this role in 2010 to chair the National Medical Device Equipment Management Committee, to lead the Implementation of the Medical Device/Equipment Management Policy/Best Practices and to develop strategies with regard to national medical equipment management and replacement programs.

Ger is both a graduate in Computer Engineering and Instrumentation Physics and also holds an MA (Hons) in Health Care Management.

Ger has more than 27yrs experience working in the field of clinical engineering both in the Private sector and the HSE. Ger has worked within the private sector for 10yrs prior to joining the HSE in 1993 to establish the Clinical Engineering Department at the Cork University Hospital (CUH).

In April 2007 the department received an Engineers Ireland 3yr CPD accreditation (continues to hold this accreditation today), and also won "CPD small company of the year" with Ger receiving a HSE Leadership award.

For more than 15yrs Ger has lectured in the field of medical device technologies at the Cork Institute of Technology (CIT). Ger has assisted the CIT in progressing the Biomedical Engineering Degree from level 7 to level 8 and also the development of two Research and Development Centers, (MEDIC and NEMBUS). Ger was involved in the establishment of the National Health Innovation HUB located in Cork and continues to be a member of the Steering committee.



Beyond the hype cycle: 3D Printing introduction and real world applications

Eoin McDonnell

3DNua are 3D Printing Brokers, linking local buyers with the right international specialist solutions providers.

3D printing has often been described as the next industrial revolution.

Eoin McDonnell from 3DNua.com discusses What it is, what is happening right now, and biomedical engineering applications.



Ethics and Compliance – Why we need both

Melanie Robertson

After a degree in Biochemistry, Melanie trained as an accountant with Price Waterhouse (as was) and then spent 17 years in various audit and finance roles before joining Siemens' compliance team in 2008. Melanie is responsible for compliance in Siemens Healthcare for north-west Europe.

There have been many recent examples of corruption and malpractice in the news – such as the PrimeTime expose of apparent corruption in a Dublin hospital, the almost weekly new scandals involving FIFA and most recently the emissions fraud at VW. I will discuss the differences between ethics and compliance and explain why both are important. I will then talk about how industry can act to reduce the risk of corruption by development of codes of conduct and guidance.



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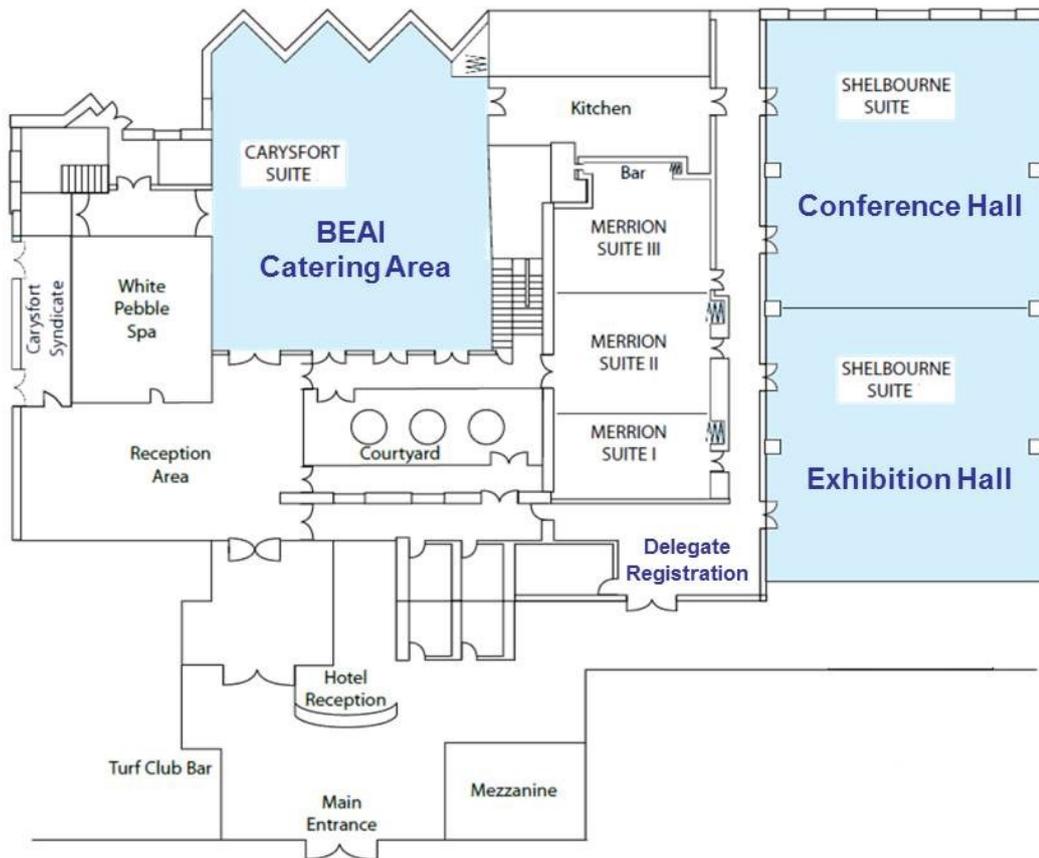


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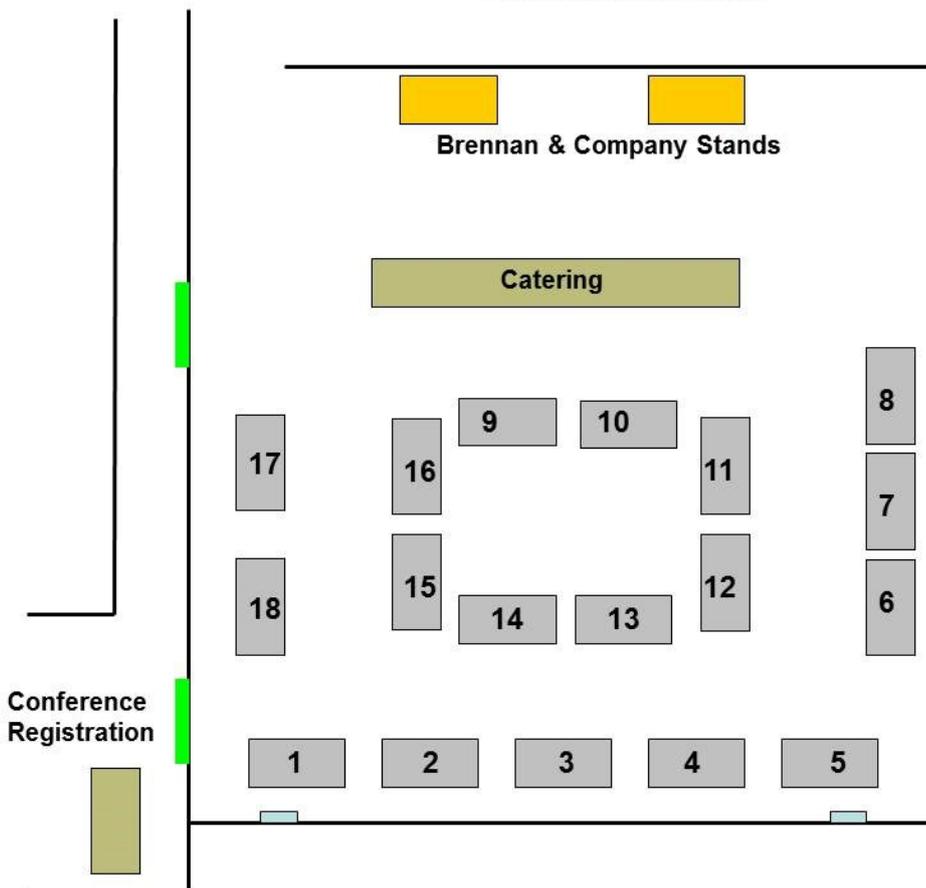
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Conference and Exhibition Floor Plan



Exhibition Hall



1. MDI Medical
2. Olympus Ireland
3. Draeger Medical Ireland
4. Ultramedic
5. Atlantic Surgical
6. ArjoHuntleight
7. GE Medical System Ireland
8. Oxygen Care Ltd
9. Cardiac Services
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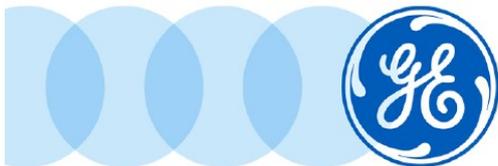
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