



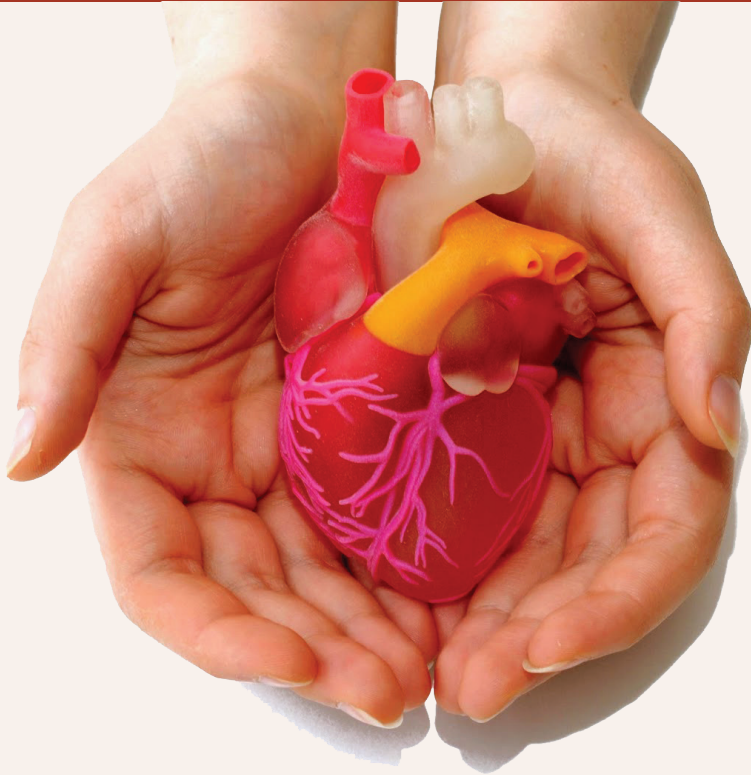
THE AGA KHAN UNIVERSITY



The Aga Khan University Hospital

3D Printing in Healthcare Symposium

July 9, 2018



PROGRAMME

Venue: Nine West, 7th Floor, Westlands

3D Printing in Healthcare Symposium

Programme

TIME	EVENT
9:00 am	Symposium chair Professor Robert Armstrong, Founding Dean, Medical College, Aga Khan University
9:15 am	Welcome and opening remarks Mr Shawn Bolouki, Chief Executive Officer, Aga Khan University Hospital
9:30 am	3D printing in Healthcare: Opportunities and challenges Dr Deepak Kalaskar, Group Lead, Medical Devices and Implants, UCL Division of Surgery and Interventional Science, Royal National Orthopaedic Hospital, London, UK
10:30 am	Tea break
11:00 am	The use of high resolution imaging and 3D printing for education in congenital and structural heart disease Dr Andrew Cook, Associate Professor, UCL's Institute of Cardiovascular Science / Great Ormond Street Hospital, London, UK.
12:00 pm	Current status of 3D printing in Kenya Mr Chris Muraguri, Founder, Micrive Infinite Limited
1:00 pm	Panel discussion / Question and answer session
1:30 pm	Lunch and showcase prototypes of 3D printed models

Biography of Speakers



Dr Deepak Kalaskar

Dr Deepak Kalaskar is the Group Leader, Medical Devices and Implants and Director of MSc course in Burns, Plastic and Reconstructive Surgery at the University College London (UCL) and is actively involved in

clinically translational research.

A multidisciplinary scientist with extensive experience in research, management and teaching in the area of biomedical engineering, chemistry, biological sciences, biomaterials and 3D fabrication technologies.

Dr Kalaskar has been working extensively on development of novel materials, their analysis and applications to solve real life problems in medicine. He has extensive experience in biomaterials, biocompatible coatings, 3D printing technologies, design and development of medical devices and implants, colloids and interfaces, cell culture, stem cells, proteins and their interactions with materials and bio-Nanotechnology.

He is an author and editor of 3 Books, including 1st text book on "3D printing in Medicine", he has published over 60 scientific publications in internationally peer reviewed journals, several invited book chapters, guest presentations at various institutions abroad, various industrial, clinical and academic collaborations and extensive scientific consultancy.

3D Printing in Healthcare Symposium

Currently, he is working closely with a number of industries for the development of new products and processes required for clinical translation.



Dr Andrew Cook

Dr Andrew Cook is a Senior Lecturer (Associate Professor) and leads the Cardiovascular Morphology and Education Unit at UCL's Institute of Cardiovascular Science /

Great Ormond Street Hospital, London, UK.

He has an international reputation for providing education, training and expertise in the structural architecture of the heart including major textbooks on surgical anatomy of the heart and foetal cardiology. He is the founder of www.cardiacmorphology.com and advises companies on anatomy for device design and simulation.

He has developed specific expertise in correlating cardiac structure with imaging from foetus to adult.

Current areas of research include:-

- Micro-imaging and 3D printing of structural heart defects using micro-computed tomography and phase-contrast synchrotron imaging
- Deep-phenotyping of heart defects in mutant mouse embryos using high throughput, high-resolution 3D imaging (www.dmdd.org.uk)

https://www.ucl.ac.uk/cardiovascular/research/Department_Children_CardiovascularDisease/Group_CardiacMorphology



Mr Chris Muraguri

Mr Chris Muraguri is a visionary, innovator and entrepreneur.

He is the brains behind Micrive Infinite, a premier company in sub-Saharan Africa specialised in providing world class 3D printing services in the local medical space. The company's products include; anatomic models, design of implants and surgical guides for orthopedic, maxillofacial and neurosurgeons.

Mr Muraguri is passionate about what industry 4.0 can do to improve the quality of health to the 4 billion people globally who risk financial catastrophe due to high costs of surgery. As such, his company's unique business model and product catalogue are tailored to be impactful, beneficial and experiential to the bottom of the pyramid patients: the vast majority.

For more information please contact:

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