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SCIENTFIC PROGRAM

Annual Conference on

3D PRINTING & BIO-PRINTING IN HEALTHCARE

August 20-21, 2018

Singapore City, Singapore



August 20, 2018 | **3D printing Conference Agenda** | **Day 1**

Conference Hall: Seletar II

09:00-09:30	**Registration**
09:30-09:45	**Opening Ceremony**
09:45-10:00	**Introduction by Moderator**
10:00-10:40	**Keynote Forum** **Title: A 3DP-based procedure for the fabrication of artificial UHMWPE trabecular bone tissue** **Alexander M Korsunsky,** University of Oxford, United Kingdom
10:40-11:20	**Title: Printed, flexible pH sensor hydrogels for biomedical applications** **Fariba Dehghani,** The University of Sydney, Australia

Networking & Refreshment Break 11:20-11:35 @Seletar Foyer

Oral Session I:
3d Bio Printing | 3d Printed Bone Tissue Generation | 3D Printing in Tissue Engineering

Session Chair: **Alexander M Korsunsky,** University of Oxford, United Kingdom

11:35-12:05	**Title: 3D printing in medicine: The experience of the Italian Digital Biomanufacturing Network (IDBN)** **Claudio Belvedere,** IDBN, Italy
12:05-12:35	**Title: Bioprinting of growth factors to repair bone-tendon-muscle units** **Ker Dai Fei Elmer,** The Chinese University of Hong Kong, Hong Kong
12:35-13:05	**Title: PCL based toughness modifiers for biophotopolymers** **Christoph Hofstetter,** Vienna University of Technology, Austria

Group Photograph

Lunch Break (13:05-14:05) @Atrium Restaurant at Level 4

14:05-15:35	**Work Shop** **Title: How to use 3D printing in healthcare** **Yvonne Lim,** EOS Singapore Pte Ltd, Singapore

Oral Session II:
3D Medical (Bio) Materials| Biomaterials for 3D Printing|3D Imaging and Modeling

Session Chair: **Jun Ding,** National University of Singapore, Singapore

15:35-16:05
Title: 3D Printing – Improving patient outcomes
Miles Podmore, Founder Eye 2 Eye Communications Pte Ltd, Singapore

Networking & Refreshment Break 16:05-16:20 @Seletar Foyer

16:20-16:50
Title: Personalized design and 3D printing for human total ankle prostheses: in-silico and in-vitro experimental evaluation
Claudio Belvedere, IDBN, Italy

16:50-17:20
Title: Elastic shape memory materials for comfort fitting via 3D printing
Wei Min Huang, Nanyang Technological University, Singapore

Session Adjournment

August 21, 2018 **Day 2**

09:50-10:00
Introduction by Moderator

Conference Hall: Seletar II

10:00-10:40
Keynote Presentation
Title: Additive manufacturing of ceramic structures
Jun Ding, National University of Singapore, Singapore

10:40-11:20
Title: Recent development in additive manufacturing for drug delivery and testing
Lifeng Kang, The University of Sydney, Australia

Networking & Refreshment Break11:20-11:35 @ Seletar Foyer

11:35-13:10
Work Shop
Title: 3D to 4D printing: Working principles and example applications
Wei Min Huang, Nanyang Technological University, Singapore

Lunch Break 13:10-14:10 @ Atrium Restaurant at Level 4

Oral Session III:
3D Printing | 3D Metal Printing | 3D Medicine & Pharmaceutics Printing | Ethical and regulatory issues for 3D printing & bio-printing

Session Chair: **Fariba Dehghani,** The University of Sydney, Australia

14:10-14:40
Title: Medical additive manufacturing applications
Yvonne Lim, Asia Pacific Business Development Manager at EOS Singapore Pte Ltd, Singapore

14:40-15:10
Title: The optimized PV-UPFC hybrid network for power quality improvement load by an improved distribution algorithm: A best performances from combination of the proposed PV systems and unified power quality controllers
Wassila Issaadi, University of Bejaia, Algeria

15:10-15:40
Title: Three-Dimensional printed medical devices – An EU MDR regulatory overview
Ashish Indani, Tata Consultancy Services, India

15:40-16:10
Title: 3D Printing for fabrication of microfluidic devices
Michinao Hashimoto, Singapore University of Technology and Design, Singapore

Networking & Refreshment Break 16:10-16:25 @ Seletar Foyer

16:25-16:55
Title: Selective laser sintering of PMMA and PMMA plus β-tricalcium phosphate polymer composites
Rajkumar Velu, University of Technology and Design, Singapore

16:55-17:15
Video Presentation
Title: Envisioning a progressive outlook towards world health scenario by making 'East meet West' in the field of medicine
Elena Provaggi, UCL Department of Nanotechnology, Division of Surgury and Interventional Science, UK

Session Adjournment

