

University Research Facility in 3D Printing (U3DP) Seminar

Additive Manufacturing of Flexible Material: Design, Technical Capability and Applications

Date: 19 May 2023 (Friday)

Time: 2:00pm -3:30pm

Venue: Y301, 3/F, Lee Shau Kee Building (Block Y)
The Hong Kong Polytechnic University / Online via Zoom

We cordially invite you to attend the U3DP seminar: "Additive Manufacturing of flexible material: Design, Technical Capability and Applications" to be held on 19 May 2023.

With new developments in 3D printing resin technology, the parts made by 3D printing flexible resin has high elongation, low shore A hardness and physical resilience properties which is similar to traditional flexible polymer such as silicone, urethane, and rubber. Also, flexible 3D printing resin is ideal for soft digital lattice foams.

In this seminar, flexible material 3D printer manufacturer and industrial user will share their experience in design flexibility, technical capability and industrial applications.

AGENDA

2.00 - 2.10pm

Welcome Speech
Prof. HC Man, Director, U3DP, PolyU

2.10 - 3.00pm

Technical Presentation
Dr Mike Yang, CEO, LuxCreo

Technical Presentation
Dr Norihiko Taniguchi, General Manager
of Future Creation Department, Institute
of Sports Science, ASICS Corporation

3.00 - 3.15pm

Q & A

3.15 - 3.30pm

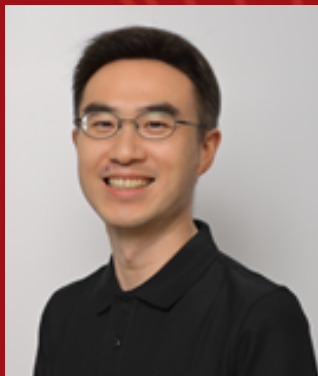
U3DP Lab Visit / Flexible 3D Printing
Material Showcase



REGISTRATION

Enquiry: 3400-3131
U3DP@polyu.edu.hk
<https://polyu.edu.hk/u3dp>

*This seminar will not
offer any certificate to
participants.



Dr Mike Yang, CEO, LuxCreo

Harvard (AB. Biochemistry and Medical Sciences, SM. Computational Physics, PhD. Engineering Sciences)

Wharton MBA (Finance, Marketing, Entrepreneurship)

Entrepreneur in the field of TMT, AI, renewable energy

McKinsey, Bell Labs, AT&T, Bloom Energy, Akamai (3 listed start-ups)

Extensive experience in high-tech R&D, corporate strategy, operations, international BD and finance

Abstract:

Additive Manufacturing is a fundamental building block of the Industry 4.0 fabric. It connects material science and robotics with AI and clouding computing, and enables sustainable mass customization not possible in the previous paradigm. In this seminar, we will share an exciting development on the "elastomer" front of 3D printing – an important material category with broad applications in health care, industrial, and consumer spaces, but so far has been elusive due to technical challenges. We will explain the sciences behind this breakthrough and our views on the future of elastomer 3D "Production". In addition, Dr Taniguchi of ASICS will share the story behind the latest sensation in footwear – ActiBreeze, the 3D printed super sandal.

Dr Norihiko Taniguchi, General Manager of Future Creation Department, Institute of Sports Science, ASICS Corporation

Waseda University (Doctor of Mechanical Engineering, Composite Material)

Abstract:

Dr Taniguchi will explain how ASICS explores the possibilities of additively manufactured footwear with LuxCreo to develop sustainable manufacturing and personalized future. With years of experience in footwear especially athletic field, ASICS has lots of unique knowledge and capabilities on how to meet people's needs on an individual basis. By using of LuxCreo's elastic material, printing solution, and smart factory production services, ASICS is creating products that go beyond customer's imagination.



Co-organized by



UNIVERSITY RESEARCH FACILITY IN 3D PRINTING
三維打印技術中心實驗室



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