

16th IROAST Symposium, AFJ Symposium
“Concept to deployment of thin wall/cellular structure based system/components by
additive manufacturing”

Program

JST

- 8:30-8:50 Opening remark, Advanced Manufacturing and Metals.
Dr. Daniel East, CSIRO, Australia
- 8:50-9:00 Introduction, and agenda for the day
Dr. Robert Wilson and Dr. Kun Yang, CSIRO, Australia
- 9:00-9:25 Prof. Martin Leary
“Challenges and opportunities for medical AM lattice design”
RMIT, Australia
- 9:25-9:50 Prof. Guoxing Lu
“Origami Structures and Materials: Energy Absorption and Impact
Mechanics”
Swinburne University of Technology, Australia
- 9:50-10:10 Dr. Haopeng Shen
“Using Micro CT to accelerate certification in additive manufacturing”
CSIRO, Australia

Break

- 10:25-10:50 Assist Prof. Fiona Spirrett
“Computational Modelling for Ceramic Stereolithography Process
Optimisation”
Osaka University, Japan
- 10:50-11:15 Dr. Ali Ramezan Nejad
“Additive Manufacturing of Shape Memory Alloys – Opportunities for
Collaboration”
CSIRO, Australia
- 11:15-11:40 Dr. Vu Nguyen
“Thin wall and lattice-embedded medical implants in the treatment of
bone defects”
CSIRO, Australia

Lunch break

- 12:30-12:55 Prof. Kazuki Takashima

- “Proposal of a fatigue test method using small ring specimens and its application to fatigue crack propagation testing of additively manufactured materials”
IROAST, Kumamoto University, Japan
- 12:55-13:20 Assist. Prof. Kwangsik Kwak
“Micromechanical testing of additively manufactured materials”
FAST, Kumamoto University, Japan
- 13:20-13:45 Dr. Hoang Phu Nyuyen
“The effectiveness in the treatment of long bone defect in adults using 3D-printed titanium alloy implant: a case study”
University of Medicine and Pharmacy, Cho Ray hospital, Vietnam
- 13:45-14:10 Mr. Stuart Douglas
“Clinical Insights and Patient Outcomes”
Maxoniq, Australia