

Editorial Board

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Active Grants

FRGS Grant

Title: Investigation on the effect of hot forging on the deformation behavior and microstructural response of Wire Arc Additive Manufacturing (WAAM) of high strength low alloy (HSLA) steel components.

ASEAN-India

Collaborative Project

Title: Development of Titanium-steel and Nickel-titanium bimetallic structures through additive manufacturing for structural and aerospace applications



Preface

Today (3rd of December 2025) is the last group meeting for 2025. The group is now becoming international as majority of the members are expatriate. As compared to previous group members who are all local (year 2016). The meetings are lately run online as compared to physical meetings before. After COVID-19, everything changed, in addition to the university policy who allow for distance study.



2016



2025

Hope for a better future for the group and may contribute to the nation, even though mostly strengthened by students from abroad.

Welcome Liu

The MFRL would like to welcome Mr. Liu Xin to the group. He is going to support the metal additive manufacturing field, and his study is going to focus on Application of Micro-Texture Tool for Machining of Additively Manufactured Materials Based on Machine Learning. He is from China and effectively registered as a PhD student in August 2025. We wish him good luck.



Exhibition at Eureka USM.

On 8th of October 2025, we have been invited by USAINS Holding (Corporate arm of USM) to attend the pitching and exhibition session for our product USM-3DWeld. This event also with the cooperation of CIC (Center of Innovation and Consultation) USM, who shortlisted our product.



Last Three Conferences for 2025

In closing of year 2025, I have attended 3 conferences in October and November 2025. SNPC 2025 and SHIFT 2025 was organized on the same date, 28-29 October 2025 at Bangi, Selangor. SNPC 2025 was organized by PPIEM, while SHIFT 2025 by MIROS. Another conference is the 3rd International Conference on SULAM 2025, organized by Unisza and UMT. This is a bi-yearly conference, initiated by KPT. It is a good opportunity for me in joining these conferences, not just to share our research outcomes but also, promoting the Metal Forming Research Lab, the School of Mechanical Engineering and Universiti Sains Malaysia.

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Photos of the Dr. Amer's Convocation and Conferences



Dr. Amer and family at the USM 63rd Convocation.



(a)

(b)

(c)

(a) Tags for SNPC 2025 and SHIFT 2025, (b) situation in the hall during launching of SNPC 2025 and (c) during keynote lecture at the SULAM 2025.



Poster for 3rd International Conference on SULAM 2025



Poster for SHIFT 2025