



الجامعة المصرية اليابانية للعلوم والتكنولوجيا
エジプト日本科学技術大学
EGYPT-JAPAN UNIVERSITY OF SCIENCE AND TECHNOLOGY



2nd WORKSHOP

2nd Workshop on Development and production of Ultra-high strength composite-based sandwich structure steel/polymer for automotive applications

ورشة عمل حول تطوير وإنتاج متراكبات فائقة المتانة من الفولاذ والبوليمر لتطبيقات السيارات

Held on 10 February 2022 at EJUST

Cairo Office- Smart Village

09:00 AM - 04:00 PM

At EJUST – Cairo Office- Smart Village

This workshop is organised by Prof. Mohsen A. Hassan, the PI of the STDF project NO.33397 with cooperation of his research team form CMRDI under the auspices of EJUST and STDF and sponsored by PROMECH and ATLASCO Companies.

TOPICS

- Development stages of the STDF 33397 project.
- Safety in automotive according to international standards
- Levels of Ballistic tests & standardization.
- Relation between reliability and high strength steel alloys
- Innovative approach for advanced product development cycle
- 3D scanning & Revers engineering demo on armoured application (Demo)
- Recent Development of Ultra high strength steels, TRIP and TWIP
- Steel Alloy Design Using Thermocalc
- Finite element simulation of gamma rays shielding radiation
- Open discussion on Large scale research projects

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Egyptian
Research Oriented University with
Japanese Partnership

Schedule

Opening speech

- 9:00 – 9:05 am Welcome speech by the project PI
- 9:05 – 9:20 am STDF speech (representative)
- 9:20 – 9:30 am EJUST president or his representative

Topic session

- 9:30 – 10:00 (30 mins Presentation + Q&A)
Title: Development stages of the STDF 33397 project
By: The Project PI Prof. Mohsen Khozami (EJUST)
- 10:00 – 10:30 (30 mins Presentation + Q&A)
Title: Safety in automotive according to international standards
By Dr. Wael Khair Eldeen (EJUST)
- 10:30 – 11:00 (30 mins Presentation + Q&A)
Title: Levels of Ballistic tests & standardization
By Dr Yaha Morad (STCE)

Coffee break: 11: -11:15

- 11:15- 11:45 noon ((30 mins Presentation + Q&A)
Title: Innovative approach for advanced product development cycle
By Promech company
- 11:45- 12:15 noon ((30 mins Presentation + Q&A)
Title: Relation between reliability and high strength steel alloys
By Dr. Mena ALTASCO company

Lunch Break 12:15 – 1:00 PM

- 1:00- 1:30 PM (30 mins Presentation + Q&A)
Title: Recent Development of Ultra high strength steels, TRIP and TWIP
By associate Prof. Iman Hassan (CMRID))
- 1:30- 2:00 PM (30 mins Presentation + Q&A)
Title: Steel Alloy Design Using Thermocalc
By PhD student Mervat Yousef (EJUST)
- 2:00 – 2:30 PM (30 mins Presentation + Q&A)
Title: Finite element simulation of gamma rays shielding radiation
By MSc. Student Joseph
- 2:30- 4:00 PM
Title: Open discussion on the quality of large scale research project
By all attendees