

**ATE
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Heat Transfer Fluid Mechanics
and Thermodynamics
Applied Thermal Engineering
VIRTUAL CONFERENCE
26-28 July 2021

CERTIFICATE

OF

ORAL PRESENTATION

AWARDED TO

Seok Beom Yun

FOR PRESENTING

**OPTIMIZATION OF THE PCM-FIN BASED BATTERY THERMAL MANAGEMENT
SYSTEMS USING GENETIC ALGORITHM**

Seok-Beom Yun, sung yeon kim and Youn-Jea Kim (Sungkyunkwan University, South Korea)

AT

**THE 15th INTERNATIONAL CONFERENCE ON HEAT TRANSFER, FLUID
MECHANICS AND THERMODYNAMICS (HEFAT) AND EDITORIAL
BOARD OF APPLIED THERMAL ENGINEERING (ATE)**

A handwritten signature in black ink, appearing to read "J.P. Meyer".

Prof. J.P. Meyer
ATE-HEFAT 2021 | Conference Chair
Head of Mechanical and Aeronautical Engineering,
Faculty of Engineering, Built Environment & IT
University of Pretoria

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Seok Beom Yun

FOR PRESENTING

**INVESTIGATION OF THE BATTERY THERMAL MANAGEMENT SYSTEM USING
PHASE CHANGE MATERIALS**

sung yeon kim and Youn-Jea Kim (Sungkyunkwan University, South Korea)

AT

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