

**ATE
HEFAT
2021**



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

CERTIFICATE
OF
ORAL PRESENTATION

AWARDED TO

Ahmed Mustafa

FOR PRESENTING

**CONSTRUCTAL DESIGN OF CROSS FLOW HEAT EXCHANGER WITH MULTI-
SCALE STAGGERED ARRANGEMENT TUBES AND LONGITUDINAL FINS
ATTACHED ON THE DOWNSTREAM TUBES**

Noor Yahia, Ahmed Waheed (AL-Nahrain University College of Engineering, Iraq) and Mohammed Kheir
Aldeen Abbas Asker

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 be "J.P. Meyer", written in a cursive style.

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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SESSION CHAIR

AWARDED TO

Ahmed Mustafa

FOR CHAIRING

TURBULENCE & TURBULENCE FLOWS 2

AT

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MECHANICS AND THERMODYNAMICS (HEFAT) AND EDITORIAL
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