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

# CERTIFICATE

OF AWARD FOR

**BEST PAPER**

IN

**EXPERIMENTAL METHODS 3**

AWARDED TO

**DESIGN OPTIMIZATION AND EXPERIMENTAL VALIDATION OF  
HEAT EXCHANGERS UTILIZING HIGH PERFORMANCE, NON-ROUND  
TUBES**

James Tancabel, Vikrant Aute, Ellery Klein, Yunho Hwang, Jiazhen Ling, Jan Muehlbauer and Reinhard Radermacher (University of Maryland, United States)

AT

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

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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# CERTIFICATE OF ORAL PRESENTATION

AWARDED TO

**Vikrant Aute**

**FOR PRESENTING**

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# CERTIFICATE

OF

**SESSION CHAIR**

AWARDED TO

**Vikrant Aute**

**FOR CHAIRING**

**NON-LINEAR THERMAL FLUID PHENOMENA**

AT

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