

**ATE  
HEFAT  
2021**



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

**CERTIFICATE**  
OF  
**ORAL PRESENTATION**

AWARDED TO

**Marcelo Santos**

**FOR PRESENTING**

**ANALYSIS AND DESIGN OF A FREE PISTON ENGINE GENERATOR WITH  
METHANE FUEL**

Lucas da Silva Rigobello (University of São Paulo, Brazil), Solidônio Rodrigues de Carvalho and Marcelo  
Braga dos Santos (Federal University of Uberlandia, Brazil)

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

**SESSION CHAIR**

AWARDED TO

**Marcelo Santos**

**FOR CHAIRING**

**HEAT TRANSFER ENHANCEMENT 3**

AT

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