

OUTSTANDING PAPER AWARD

BEST PAPER IN THE SESSION ON "POSTER SESSION 1"

Presented to:

CHARACTERISATION AND MODELLING OF SMALL DIAMETER MESH WICK HEAT PIPES FOR LOW POWER APPLICATIONS

Alison Clarke, Kate Smith and Tim Persoons

Prof. J.P. Meyer HEFAT 2019 | Conference Chair



OUTSTANDING PAPER AWARD

BEST PAPER IN THE SESSION ON "NON-LINEAR THERMAL FLUID PHENOMENA"

Presented to:

BASIC FLOWS AND HEAT TRANSFER OF THERMAL MARANGONI CONVECTION IN RECTANGULAR LIQUID FILM

Takahiro Tsukahara, Koya Yamasaki and Ichiro Ueno

Prof. J.P. Meyer HEFAT 2019 | Conference Chair



OUTSTANDING PAPER AWARD

BEST PAPER IN THE SESSION ON "TWO-PHASE FLOW 1"

Presented to:

AN EXPERIMENTAL STUDY OF FLOW BOILING IN FRACTAL-LIKE MINICHANNELS FABRICATED BY SELECTIVE LASER MELTING

Yao Song See and Kai Choong Leong

Prof. J.P. Meyer HEFAT 2019 | Conference Chair



OUTSTANDING PAPER AWARD

BEST PAPER IN THE SESSION ON "AIR CONDITIONING & REFRIGERATION"

Presented to:

QUANTIFICATION OF LOCAL AIR-SIDE HEAT TRANSFER COEFFICIENT USING COLOR-CHANGE COATINGS

Stefan Elbel and Min Che

Prof. J.P. Meyer HEFAT 2019 | Conference Chair



OUTSTANDING PAPER AWARD

BEST PAPER IN THE SESSION ON "AERODYNAMICS 1"

Presented to:

NON-UNIFORM HEATING CORRECTION FOR TEMPERATURE DECLINE THERMOGRAPHY

Stefan Von Hoesslin, Juergen Gruendmayer and Andreas Zeisberger

Prof. J.P. Meyer HEFAT 2019 | Conference Chair



OUTSTANDING PAPER AWARD

BEST PAPER IN THE SESSION ON "EXPERIMENTAL METHODS"

Presented to:

NEAR-INFRARED TEMPERATURE MEASUREMENT OF WATER NEAR MICRO-MAGNETIC PARTICLES IN THE MICROFLUIDIC CHANNEL UNDER HIGH-FREQUENCY INDUCTION HEATING

Han Van Cuong and Kakuta Naoto

Prof. J.P. Meyer HEFAT 2019 | Conference Chair



OUTSTANDING PAPER AWARD

BEST PAPER IN THE SESSION ON "HEAT EXCHANGERS 1"

Presented to:

PRESSURE DROP CHARACTERISTICS OF TRANSITIONAL FLOW THROUGH A SMOOTH TUBE WITH PERIPHERAL U-CUT TWISTED TAPE INSERTS

Marilize Everts, Sogo Abolarin and Josua Meyer

Prof. J.P. Meyer HEFAT 2019 | Conference Chair



OUTSTANDING PAPER AWARD

BEST PAPER IN THE SESSION ON "MULITPHASE FLOW 1"

Presented to:

THE BEHAVIOR OF AERODYNAMICALLY DRIVEN RIVULET FLOWS

Johannes Feldmann, Ilia Roisman and Cameron Tropea

Prof. J.P. Meyer HEFAT 2019 | Conference Chair



OUTSTANDING PAPER AWARD

BEST PAPER IN THE SESSION ON "COMPUTATIONAL FLUID DYNAMICS 1"

Presented to:

INVESTIGATIONS OF A PIPE-JET WITH AN ANNULAR CAVITY INTO A CROSSFLOW

Jeremy Bonifacio, Hamid Rahai and Shahab Taherian

Prof. J.P. Meyer HEFAT 2019 | Conference Chair



OUTSTANDING PAPER AWARD

BEST PAPER IN THE SESSION ON "SPRAYS"

Presented to:

FAST SPRAY COOLING: EFFECT OF THE LIQUID TEMPERATURE

Fabian M. Tenzer, Ilia V. Roisman, Cameron Tropea and Minh K. Pham

Prof. J.P. Meyer HEFAT 2019 | Conference Chair



OUTSTANDING PAPER AWARD

BEST PAPER IN THE SESSION ON "HEAT TRANSFER ENHANCEMENT 1"

Presented to:

NUMERICAL INVESTIGATION OF JET IMPINGEMENT HEAT TRANSFER IN SOLAR RECEIVERS

Ken Craig, Jesse Quick, Marcel Slootweg and Josua Meyer

Prof. J.P. Meyer HEFAT 2019 | Conference Chair



OUTSTANDING PAPER AWARD

BEST PAPER IN THE SESSION ON "ENERGY STORAGE 1"

Presented to:

LOW TEMPERATURE THERMAL STORAGE AS A RANKINE CYCLE COOLING SOLUTION

Alan O'Donovan, Ronan Grimes and Paul Sikora

Prof. J.P. Meyer HEFAT 2019 | Conference Chair



OUTSTANDING PAPER AWARD

BEST PAPER IN THE SESSION ON "TURBULENCE & TURBULENCE FLOWS 1"

Presented to:

BOUNDARY LAYER TURBULENCE AND FREESTREAM TURBULENCE INTERFACE, TURBULENT SPOT AND FREESTREAM TURBULENCE INTERFACE, LAMINAR BOUNDARY LAYER AND FREESTREAM TURBULENCE INTERFACE

Xiaohua Wu

Prof. J.P. Meyer HEFAT 2019 | Conference Chair



OUTSTANDING PAPER AWARD

BEST PAPER IN THE SESSION ON "DUCT & CHANNEL FLOW"

Presented to:

THREE-DIMENSIONAL FLUID FLOW STRUCTURE AND REATTACHMENT CHARACTERISTICS OF A BACKWARD-FACING STEP FLOW IN A RECTANGULAR DUCT

Zou Shuai, Yuji Kohara and Kyoji Inaoka

Prof. J.P. Meyer HEFAT 2019 | Conference Chair



OUTSTANDING PAPER AWARD

BEST PAPER IN THE SESSION ON "CONVECTION HEAT TRANSFER 1"

Presented to:

EFFECT OF INCLINATION BUOYANCY ON THE FULLY DEVELOPED FRICTION FACTORS IN THE LAMINAR AND TRANSITIONAL FLOW REGIMES OF SMOOTH TUBE

Marilize Everts, Abubakar Idris Bashir, Suvanjan Bhattacharyya and Josua Meyer

Prof. J.P. Meyer HEFAT 2019 | Conference Chair



OUTSTANDING PAPER AWARD

BEST PAPER IN THE SESSION ON "BOILING"

Presented to:

DETERIORATION OF BOILING HEAT TRANSFER ON BIPHILIC SURFACES UNDER VERY LOW PRESSURES

Biao Shen, Tomosuke Mine, Sumitomo Hidaka, Koji Takahashi and Yasuyuki Takata

Prof. J.P. Meyer HEFAT 2019 | Conference Chair



OUTSTANDING PAPER AWARD

BEST PAPER IN THE SESSION ON "POROUS FLOWS & MEDIA"

Presented to:

ENHANCEMENT OF PACKED BED REACTOR PERFORMANCE WITH A STATIC MIXER

Abraham Kribus, Michael Epstein and Michal Deckelbaum

Prof. J.P. Meyer HEFAT 2019 | Conference Chair



OUTSTANDING PAPER AWARD

BEST PAPER IN THE SESSION ON "MULITPHASE FLOW 2"

Presented to:

KEROSENE DROP IMPACT ONTO A DEEP WATER POOL

Parmod Kumar

Prof. J.P. Meyer HEFAT 2019 | Conference Chair



OUTSTANDING PAPER AWARD

BEST PAPER IN THE SESSION ON "THERMAL MANAGEMENT & CONTROL 1"

Presented to:

A ONE-DIMENSIONAL HEAT AND MASS TRANSFER MODEL OF SORPTION CELLS

Avshalom Davidesko and Nir Tzabar

Prof. J.P. Meyer HEFAT 2019 | Conference Chair



OUTSTANDING PAPER AWARD

BEST PAPER IN THE SESSION ON "ENERGY AND ENVIRONMENTAL SYSTEMS 1"

Presented to:

ANALYTICAL OPTIMIZATION OF A SOLAR-DRIVEN COOLING SYSTEM ENHANCED WITH A PHOTOVOLTAIC EVAPORATIVE CHIMNEY

Javier Ruiz Ramírez, Pedro Martínez Martínez, Hosein Sadafi, Francisco Javier Aguilar Valero, Francisco Javier Toledo Melero, José Manuel Blanes Martínez, Manuel Lucas Miralles

Prof. J.P. Meyer HEFAT 2019 | Conference Chair



OUTSTANDING PAPER AWARD

BEST PAPER IN THE SESSION ON "NUMERICAL SIMULATION 1"

Presented to:

NUMERICAL SIMULATION OF THERMAL INKJET DROPLET EJECTION

Sam Mallinson and Geordie, Tracie Barber and Guan Yeoh

Prof. J.P. Meyer HEFAT 2019 | Conference Chair



OUTSTANDING PAPER AWARD

BEST PAPER IN THE SESSION ON "TWO-PHASE FLOW 2"

Presented to:

PRESSURE DROP AND VOID FRACTION OF HORIZONTAL AIR-WATER STRATIFIED FLOWS AT ATMOSPHERIC PRESSURE

Igor Matteo Carraretto, Luigi Pietro Maria Colombo, Damiano Fasani and Manfredo Guilizzoni

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OUTSTANDING PAPER AWARD

BEST PAPER IN THE SESSION ON "HEAT EXCHANGERS 2"

Presented to:

STUDY OF CONVECTIVE CONDENSATION IN A THERMOSIPHON LOOP

Majed Eddine Moustaid, Cyril Buttay and Vincent Platel

Prof. J.P. Meyer HEFAT 2019 | Conference Chair



OUTSTANDING PAPER AWARD

BEST PAPER IN THE SESSION ON "TURBULENCE & TURBULENCE FLOWS 2"

Presented to:

EFFECTS OF THE STREAMWISE EXTENT OF PERIODIC COMPUTATIONAL DOMAINS ON TURBULENT FLOW AND HEAT TRANSFER IN RIB-ROUGHENED COOLING CHANNELS

Sebastian Ruck, Frederik Arbeiter, Björn Brenneis and Hanna Wund

Prof. J.P. Meyer HEFAT 2019 | Conference Chair



OUTSTANDING PAPER AWARD

BEST PAPER IN THE SESSION ON "COMPUTATIONAL FLUID DYNAMICS 2"

Presented to:

AIR COOLING ENHANCEMENT OF A HIGH-PRECISION HIGH-VOLTAGE RESISTOR

Federico Favre, Diego Olivet, Pedro Curto, Pedro Galione, Gabriel Usera and Daniel Slomovitz

Prof. J.P. Meyer HEFAT 2019 | Conference Chair



OUTSTANDING PAPER AWARD

BEST PAPER IN THE SESSION ON "POSTER SESSION 3"

Presented to:

DROPLET BOILING ON A SUPERHEATED LIQUID INFUSED SURFACE

Patrick Sullivan, Tim Persoons and Ryan Enright

Prof. J.P. Meyer HEFAT 2019 | Conference Chair



OUTSTANDING PAPER AWARD

BEST PAPER IN THE SESSION ON "NUMERICAL SIMULATION 2"

Presented to:

CFD ANALYSIS OF AN INNOVATIVE VACUUM MICRO-GRIPPER

Adriano Lezzi, Dario Urbano, Gianmaria Noventa, Antonio Ghidoni, Giovanni Legnani, Serena Ruggeri, Irene Fassi and Gianmauro Fontana

Prof. J.P. Meyer HEFAT 2019 | Conference Chair



OUTSTANDING PAPER AWARD

BEST PAPER IN THE SESSION ON "CONDUCTION 1"

Presented to:

NUMERICAL CHARACTERIZATION AND VALIDATION OF THE THERMAL RESPONSE OF A PARTIALLY FILLED ISO CONTAINER EXPOSED TO REAL WEATHER CONDITIONS

Ken Blecker and Brian Hunter

Prof. J.P. Meyer HEFAT 2019 | Conference Chair



OUTSTANDING PAPER AWARD

BEST PAPER IN THE SESSION ON "ENERGY STORAGE 2"

Presented to:

EFFECT OF CRYOGENIC HEAT TRANSFER AT SUPERCRITICAL CONDITIONS ON LIQUID AIR ENERGY STORAGE (LAES) PERFORMANCE - A COMBINED EXPERIMENTAL AND NUMERICAL ANALYSIS

Adriano Sciacovelli, Ciprian Negoescu, Andrea Vecchi, Yongliang Li and Reip A.

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OUTSTANDING PAPER AWARD

BEST PAPER IN THE SESSION ON "HYDRODYNAMICS"

Presented to:

HEAT TRANSFER ENHANCEMENT THROUGH THE USE OF AN OSCILLATORY FLOW IN CIRCULAR-ORIFICE BAFFLED TUBES: AN EXPERIMENTAL STUDY

Damián Crespí-Llorens, Pedro V. Quiles, José Muñoz and Juan Pedro Solano

Prof. J.P. Meyer HEFAT 2019 | Conference Chair



OUTSTANDING PAPER AWARD

BEST PAPER IN THE SESSION ON "MISCELLANEOUS 2"

Presented to:

RADIATION EFFECT ON GROWTH OF MIST DROPLETS

Xinchang Li and Marcus Brewster

Prof. J.P. Meyer HEFAT 2019 | Conference Chair



OUTSTANDING PAPER AWARD

BEST PAPER IN THE SESSION ON "THERMAL MANAGEMENT & CONTROL 2"

Presented to:

DROPLET THERMAL AND WETTING FOOTPRINT ON A SUPERHEATED SURFACE

Vikash Kumar, David Newport and Ryan Enright

Prof. J.P. Meyer HEFAT 2019 | Conference Chair



OUTSTANDING PAPER AWARD

BEST PAPER IN THE SESSION ON "CONVECTION HEAT TRANSFER 3"

Presented to:

GRID INDEPENDENCE STUDY OF A 1D THERMAL TOPOLOGY OPTIMIZATION PROBLEM FOR HEAT SINKS

Yang Zhou, Wouter Dekeyser and Martine Baelmans

Prof. J.P. Meyer HEFAT 2019 | Conference Chair



OUTSTANDING PAPER AWARD

BEST PAPER IN THE SESSION ON "HEAT TRANSFER ENHANCEMENT 2"

Presented to:

QUANTIFYING THERMAL CONDUCTANCE OF THIN FILM THERMOELECTRICS USING FREQUENCY DOMAIN THERMOREFLECTANCE

David McCloskey, Naveen Balla, Kenny Yu, Gautam Devendraprakash, Kafil Razeeb, Ronan Frizzel and Ryan Enright

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OUTSTANDING PAPER AWARD

BEST PAPER IN THE SESSION ON "MISCELLANEOUS 3"

Presented to:

EXPERIMENTS ON DENSITY INTERFACE WITH SUCCESSIVE VORTEX RINGS

Advaith S and Saptarshi Basu

Prof. J.P. Meyer HEFAT 2019 | Conference Chair



OUTSTANDING PAPER AWARD

BEST PAPER IN THE SESSION ON "COMBUSTION"

Presented to:

1D SIMULATION OF SODIUM-WATER REACTION (SWR)

Lucas David, Richard Saurel, François Beauchamp and Alexandre Allou

Prof. J.P. Meyer HEFAT 2019 | Conference Chair



OUTSTANDING PAPER AWARD

BEST PAPER IN THE SESSION ON "COMPUTATIONAL FLUID DYNAMICS 3"

Presented to:

INVESTIGATING THE FLOWFIELD PHYSICS WITHIN COMPRESSIBLE BOUNDARY LAYERS

Frederick Ferguson

Prof. J.P. Meyer HEFAT 2019 | Conference Chair



OUTSTANDING PAPER AWARD

BEST PAPER IN THE SESSION ON "CONDUCTION 2"

Presented to:

HEATQUIZ: GAME-BASED LEARNING IN HEAT AND MASS TRANSFER

Wilko Rohlfs, Sascha Welten, Manuel Rietz, Enno Sabelberg, Claas Ehrenpreis, Patric Figueiredo and Reinhold Kneer

Prof. J.P. Meyer HEFAT 2019 | Conference Chair



OUTSTANDING PAPER AWARD

BEST PAPER IN THE SESSION ON "BOILING 2"

Presented to:

PRELIMINARY INVESTIGATION INTO THE EFFECT OF STEP CHANGES IN BOILING HEAT FLUX ON R134A IN A HORIZONTAL MACRO TUBE

Wilhelm Johann Van Den Bergh, Josua Meyer, Jaco Dirker and Christos Markides

Prof. J.P. Meyer HEFAT 2019 | Conference Chair



OUTSTANDING PAPER AWARD

BEST PAPER IN THE SESSION ON "NUMERICAL SIMULATION 3"

Presented to:

PREDICTION OF THE POWER COEFFICIENT OF STRAIGHT BLADED VERTICAL AXIS WIND TURBINES AT LOW WIND VELOCITIES

Pedro Baracat

Prof. J.P. Meyer HEFAT 2019 | Conference Chair