

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



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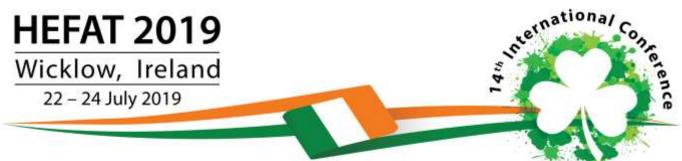
BEST PAPER IN THE SESSION ON "HEAT EXCHANGERS 1"

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

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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

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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

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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

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OUTSTANDING PAPER AWARD

BEST PAPER IN THE SESSION ON "MULITPHASE FLOW 2"

Presented to:

KEROSENE DROP IMPACT ONTO A DEEP WATER POOL

Parmod Kumar

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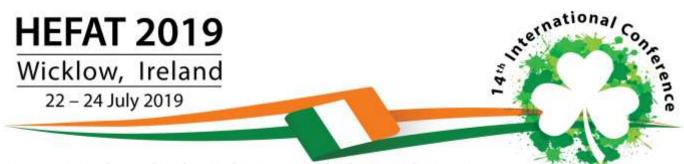
BEST PAPER IN THE SESSION ON "THERMAL MANAGEMENT & CONTROL 1"

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

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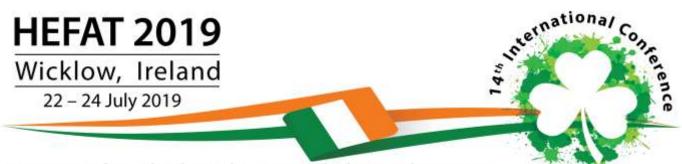
BEST PAPER IN THE SESSION ON "NUMERICAL SIMULATION 1"

Presented to:

NUMERICAL SIMULATION OF THERMAL INKJET DROPLET EJECTION

Sam Mallinson and Geordie, Tracie Barber and Guan Yeoh

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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

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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

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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

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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

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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

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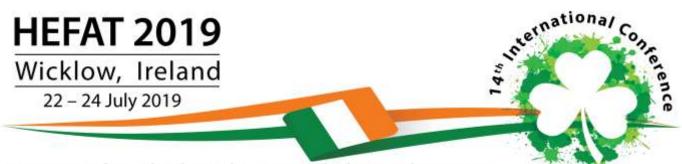
BEST PAPER IN THE SESSION ON "CONDUCTION 1"

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

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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

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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

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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

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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

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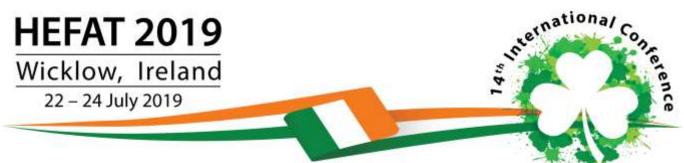
BEST PAPER IN THE SESSION ON "HEAT TRANSFER ENHANCEMENT 2"

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

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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

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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

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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

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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

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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