## **HEFAT 2019**

Wicklow, Ireland

22 - 24 July 2019



Heat Transfer, Fluid Mechanics and Thermodynamics

## 22/07/2019

10:40 - 10:50

10:50 - 11:00

11:00 - 11:10

11:10 - 11:20

11:20 - 11:30

POSTER SESSION 1

THERMAL COHERENCE OF CONCAVE SPACES FORMED BY VARIOUS AIRNODES

WITH COUPLING BY MEANS OF TRNSYS

Venue: Foyer

Mr Raúl Briones-Llorente, Universidad de Burgos

HOW TO IMPROVE A TEMPERATURE DISTRIBUTION INSIDE A HEATED BLOCK IN

A TYPICAL POOL-BOILING APPARATUS

Venue: Foyer

Ing. Viktor Vajc, Czech Technical University in Prague

ADVANTAGE OF SOIL VOLATILE CONTAMINANTS EXTRACTION BY HOT AIR

INJECTION Venue: Foyer

Prof Abraham Dayan, Tel Aviv University

CHARACTERISATION AND MODELLING OF SMALL DIAMETER MESH WICK HEAT

PIPES FOR LOW POWER APPLICATIONS

Venue: Foyer

Miss Alison Clarke, Trinity College Dublin

A SCIENTOMETRIC STUDY OF LITERATURE OF MEM/NEM FROM 1987 TO 2018

Venue: Foyer

Prof. Ming-yueh Tsay, Graduate Institute of Library, Information and Archival Studies,

National Chengchi University

11:30 - 11:40	MOLECULAR SIMULATION OF BOILING PROCESS IN ULTRATHIN FILM
11.30 - 11.40	Venue: Foyer
	Mr Li Ao, Kyoto university
11:40 - 11:50	THERMODYNAMIC ANALYSIS OF COMBINED CYCLE POWER PLANT
	Venue: Foyer
	Dr. Vladimir Glazar, University of Rijeka
11:50 - 12:00	FLUID MOTION AND PHASE CHANGE IN THIN GAP
	Venue: Foyer
	Prof. Mitsuhiro Matsumoto, Kyoto University
12:00 - 12:10	EXPERIMENTAL STUDIES ON SINGLE AND BLENDED AMINES FOR CO2 CAPTURE
	IN CERAMIC HOLLOW FIBER MEMBRANE CONTACTORS
	Venue: Foyer Prof. Jung Hoon Park, Dongguk University
12:10 - 12:20	THE ELECTROLESS DEPOSITION OF Pd LAYERS ON STRUCTURED AI2O3
12.10 - 12.20	HOLLOW FIBER SUBSTRATE FOR HYDROGEN SEPARATION
	Venue: Foyer
	Prof. Jung Hoon Park, Dongguk University
12:20 - 12:30	NUMERICAL SIMULATION OF CONVECTIVE AIR DRYING OF DEFORMABLE
	POROUS MEDIA BY PARALLEL HYBRID LATTICE BOLTZMANN AND FINITE
	ELEMENT METHODS
	Venue: Foyer
	Mr Xinzhu Mou, Southeast University
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<b>23/07/2019</b> 10:40 - 10:50	Mr Xinzhu Mou, Southeast University  POSTER SESSION 2
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12:20 - 12:30 <b>24/07/2019</b>		
10:40 - 10:50		
10:50 - 11:00		
11:00 - 11:10		

## AGITATED VESSEL MEASURED WITH TOIRT METHOD

Venue: Foyer

Mr. Stanislav Solnař, Czech Technical Univesity in Prague

IMPROVEMENT OF THE ENERGY EFFICIENCY OF AIR CONDITIONING SYSTEMS

IN BUILDINGDS THROUGH THE USE OF A SOLAR CHIMNEY

Venue: Foyer

Dr Antonio S. Káiser, Universidad Politécnica de Cartagena

TURBULENT HEAT TRANSFER IN TRANSITIONAL ANNULAR POISEUILLE FLOW

Venue: Foyer

Dr. Takahiro Tsukahara, Tokyo University of Science

ADSORPTION OF PHOSPHATE ON AMINE-GRAFTED AND MAGNETIZED

MESOPOROUS SILICA MATERIALS

Venue: Foyer

Professor Hee Moon, Chonnam National University

(P, VE, T) MEASUREMENTS OF BINARY MIXTURES HFE-7100 OR HFE-7200 + 2-PROPANOL AT PRESSURES UP TO 140 MPA AND AT TEMPERATURES FROM

298.15 TO 393.15 K

Venue: Fover

Dr Natalia Muñoz-Rujas, Universidad de Burgos

MELTING TEMPERATURE MEASUREMENTS OF FATTY ACID MIXTURES AS POTENTIAL BIO-BASED PHASE CHANGE MATERIALS FOR LOW TEMPERATURE ENERGY STORAGE

Venue: Foyer

Dr Natalia Muñoz-Rujas, Universidad de Burgos

## POSTER SESSION 3

MOLECULAR DYNAMICS SIMULATION OF THE THERMAL TRANSPORT ON HOLEY COPPER SUBSTRATES

Venue: Foyer

Dr Wenfu Situ, Technical University of Denmark

CCD - THERMOREFLECTANCE - APPLICATIONS IN MICROTHERMAL

CHARACTERISATION

Venue: Foyer

Robert Smyth, Trinity College Dublin

THERMAL MEASUREMENTS AT SOLID-LIQUID INTERFACES TRANSPORTING HIGH HEAT FLUXES USING FREQUENCY DOMAIN THERMOREFLECTANCE

Venue: Foyer

Mr Kenny Yu, Nokia Bell Labs/Trinity College Dublin

11:10 - 11:20		
11:20 - 11:30		
11:30 - 11:40		
11:40 - 11:50		
11:50 - 12:00		
12:00 - 12:10		
12:10 - 12:20		

REACTIVE CONVECTIVE-DISSOLUTION IN A HELE-SHAW CELL

Venue: Foyer

Dr Parama Ghoshal, Jadavpur University

DROPLET BOILING ON A SUPERHEATED LIQUID INFUSED SURFACE

Venue: Foyer

Mr Patrick Sullivan, Trinity College Dublin

SOLITARY WAVE PROPAGATING AROUND CIRCULAR STRUCTURES IN LEVEL-

SET FINITE ELEMENT FRAMEWORK

Venue: Foyer

Prof Haegyun Lee, Dankook University

COORDINATION PROPERTIES OF OXYDIACETATE AND THIODIACETATE LIGANDS TOWARDS COBALT(II) AND NICKEL(II) IONS IN SOLUTIONS -

**EXPERIMENTAL AND THEORETICAL STUDIES** 

Venue: Foyer

Prof. Lech Chmurzyński, University of Gdańsk

MICROSCALE HEAT TRANSFER MODULATION FOR SERVER CPU COOLING

**USING MOVABLE STRUCTURES** 

Venue: Fover

Mr Eoin Oude Essink, Trinity College Dublin

HYBRID ABSORPTOIN CYCLE FOR FLEXIBLE USE OF HEAT PUMP AND

REFRIGERATION SYSTEM

Venue: Foyer

Dr. Sung Joo Hong, Chonbuk National Unversity