



UTHM
Universiti Tun Hussein Onn Malaysia



2nd International Conference on
**Computational
Fluid Dynamics**
in Research and Industry
CFDRI 2017

“ Streamlining Technological Shift ”

3rd - 4th August 2017 | Songkhla, Thailand





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Opening Ceremony Tentative

2nd International Conference On Computational Fluid Dynamics (CFDRI) 2017

Official Opening by :

Prof. Dr. Wahid Bin Razzaly
Vice Chancellor UTHM

8.00 a.m.	Guests to be seated at the ballroom
8.20 a.m.	Arrival of Professor Dr. Wahid Bin Razzaly Vice Chancellor of Universiti Tun Hussein Onn Malaysia Arrival of Associate Professor Dr. Chusak Limsakul President of Prince of Songkla University, Thailand
8.30 a.m.	Welcoming Address by Associate Prof. Dr Mas Fawzi Bin Mohd Ali Chairman of CFDRI 2017 Organizing Committee Speech by Associate Professor Dr. Chusak Limsakul President of Prince of Songkla University, Thailand Speech and Official Launching by Professor Dr. Wahid Bin Razzaly Vice Chancellor of Universiti Tun Hussein Onn Malaysia MoA Signing between Universiti Tun Hussein Onn Malaysia and Prince of Songkla University, Thailand Photo session
9.30 a.m.	Tea Break



About UTHM & PSU

UTHM

Universiti Tun Hussein Onn Malaysia (UTHM), named after the third Prime Minister of Malaysia, is one of the public universities in Malaysia primarily focusing on Engineering and Technology. UTHM is strategically located in green sub-urban environment in Batu Pahat, Johor which is about 2 hours drive to Singapore and 3 hours to Kuala Lumpur. Currently, the University has more than 15,000 students, including over 470 international students from 22 countries all over the world. University has been awarded overall 3-star by QS Stars University Ratings in 2015 with 5-star in Teaching, Facilities and Innovation. Furthermore, the University was ranked top 300 in QS World University Rankings in Mechanical, Aeronautical and Manufacturing Engineering Subject. At present, 70 percent of academic staff from eight faculties are PhD holders and are highly qualified to supervise graduate students. UTHM has a long-established reputation for higher education, research and development of the finest quality and its management services achieved the MS ISO 9001:2008. All programmes offered by UTHM are fully recognized by the Malaysian Quality Assurance (MQA) and related professional bodies.

PSU

Prince of Songkla University (PSU), a public university established in 1967 as the first university in southern Thailand, consists of five campuses offering various programs of education consistent with the needs of their communities. Moreover, PSU also comprises 39 faculties, colleges and institutes, four hospitals, and more than 40 excellence and research centers, all committed to academic excellence, strong social responsibility, and active engagement in community services. The central aims of the university are to raise general education standards and support regional industry and development. Moreover, the university aims to establish excellence in research and teaching, to provide academic services to communities, and to take an active role in the preservation of national heritage in arts and culture, especially for those from southern Thailand. Therefore, as a leading research university in Asia, PSU has contributed significantly to the development of the country and consistently turned out well-qualified graduates of high professional standing.

CFDRI2017 Chairman's Preface



Dear respected colleagues, in the name of Allah, the Most Gracious and the Most Merciful, His blessing has enable us to become a part of the 2nd International Conference on Computational Fluid Dynamic in Research and Industry (CFDRI 2017), organized by Universiti Tun Hussein Onn Malaysia and the Prince of Songkla University, Thailand.

First and foremost, I would like to warmly welcome all conference participants and delegates, who I presumed share similar interest: Computational Fluid Dynamics (CFD). We all love beautiful things, fluidity of movements, streamline flows, vibrant colors, all of which are part of our lives. Some we think we understood. Some we are trying to understand. Some we just awe and appreciate its splendour. The world is evolving with new technologies emerging every seconds. We, as part of the world scholars, scientist and researchers, are considered partly responsible for these evolution. We all hope that the CFD that we use to simulate from natural occurrence to universal hypothetical possibilities may help streamlining the world technological shift towards making our world a better place for us and for our future generations.

On behalf of CFDRI 2017 organising committee, I would like express our appreciation all the VIPs, our keynote speakers, presenters, editors, reviewers and all the authors for their contribution and participation in this conference. To the CFDRI 2017 organising committee from both UTHM and PSU, thank you for your outstanding work, soaring team working spirit and extraordinary commitment. None of these would be possible without you.

I hope that your presence here for this conference will be gratifying and beneficial to your academic and research endeavours. Let's take this opportunity to get to know each other, to create international networking and to initiate research collaboration. Let's set this conference as our common ground, and this day as the seed of our blooming future.

Best regards,
Assoc. Prof. Dr Mas Fawzi Mohd Ali
Chairman,
CFDRI2017 Organising Committee

Keynote Speaker



Associate Prof. Dr Norzelawati Asmuin

Norzewelawati is Head of Focus Group Industrial and Indoor Environment Research Group under the Centre for Energy and Industrial Environment Studies (CEIES). She is an Associate Professor in Mechanical and Manufacturing Engineering at the Universiti Tun Hussein Onn Malaysia (UTHM), Parit Raja, Batu Pahat, Johor. She earned her B.Eng. with Honours in Mechanical and Material Engineering from Universiti Kebangsaan Malaysia, Masters by Research in Aerospace Engineering from Universiti Putra Malaysia, and PhD in Gas Engineering from University of Salford, United Kingdom.

She has published numerous journal and conference papers. Norzelawati has done consultation work with Scomi Sdn. Bhd., ANSELL (Glove Manufacturing), Kolej Kemahiran Teknologi MARA and Biomedical Engineering UTM. She also consulting Halton Asia Sdn. Bhd. and TDK Industries Sdn. Bhd. Her research interests include CFD simulation, Fine spray, Multiphase Flow and Thermoacoustic. She is a member of IEM and BEM.

Her numerous professional publications focus on her research and interests in CFD, Fine Spray Nozzle, Kitchen Hood Ventilation System, LEV and Sand-Blasting. Her current research focuses on the tools of CFD simulation on BioEngineering especially Stent for Glaucoma. She was the chairman of CFDRI 2015.

Keynote Speaker



Dr. Perapong Tekasakul, Associate Prof.

Dr. Tekasakul is currently the Vice President for Research System and Graduate Studies at Prince of Songkla University (PSU), one of the nine National Research Universities in Thailand. His role includes research policy setting and driving, postgraduate study capability enhancement, technology transfer, research and innovation commercialization, and university-social engagement. He also chairs the Research and Innovation Committee of the Council of University Presidents in Thailand (CUPT) including 30 public universities. He and his CUPT committee members work closely with the Thai government and play a significant role in drafting the technology and innovation development plan in "Thailand 4.0" model and proposing a "University 4.0" concept for Thai Universities.

Academically, he is an associate professor in Mechanical Engineering at Prince of Songkla University. His research interests include solar drying, computational fluid dynamics, and atmospheric environment.

Parallel Session Schedule

03/08/2017		Thursday		
Time		Event		
7.30 am - 8.45am		Arrival & Registration		
8.45 am - 9.30 am		Opening Ceremony and MoA signing		
9.30 am - 10.00 am		Morning Refreshment (30 min)		
10.00 am - 10.40 am		Keynote 1: Associate Professor Dr. Perapong Tekasakul		
10.40 am - 11.20 am		Keynote 2: Associate Professor Dr. Norzelawati Asmuin		
11.20 am - 12.00 pm		Keynote 3: Best paper		
12.00 pm - 1.30 pm		Lunch (1.5 hour)		
1.30 pm - 3.00 pm		Session 1	Session 2	Session 3
1.30	1.45	13-457	14-456	15-468
1.45	2.00	13-458*	14-461	15-542
2.00	2.15	13-460	14-467	15-545
2.15	2.30	13-464	14-501	15-550
2.30	2.45	13-465	14-517	15-556
2.45	3.00	13-496	14-520	15-559
3.00 pm - 3.15 pm		Tea Break (15 min)		
3.15 pm - 4.30 pm		Session 4	Session 5	Session 6
3.15	3.30	13-500	14-526	15-560
3.30	3.45	13-513	14-527	15-563
3.45	4.00	13-516	14-530	15-565
4.00	4.15	13-524	14-536	15-571*
4.15	4.30	13-773	14-688	15-629
6.30 pm - 9.00 pm		Gala dinner		
9.00 pm		End of sessions		

Parallel Session Schedule

04/08/2017		Friday	
Time		Event	
8.00 am - 8.30 am		Arrival & Registration	
8.30 am - 10.00 am		Session 7	Session 8
8.30	8.45	13-532	14-549
8.45	9.00	13-548	14-551
9.00	9.15	13-564	14-552
9.15	9.30	13-566	14-553
9.30	9.45	13-573	14-554*
9.45	10.00	13-761	14-555
10.00 am - 10.30 am		Morning Refreshment (30 min.)	
10.30 am - 12.15 pm		Session 9	Session 10
10.30	10.45	13-575	14-557
10.45	11.00	13-695	14-570
11.00	11.15	13-697	14-611
11.15	11.30	13-703	14-671
11.30	11.45	13-630	14-679
11.45	12.00	13-715	14-711
12.00	12.15	13-562	14-689
12.30 am - 2.00 pm		Lunch (1 hour 30 min)	
2.00 pm - 4.00 pm		Songkla Tour	
4.00 pm		End of CFDRI2017	

* best paper

3 AUGUST 2017 – Room 1 1.30 PM – 3.00 PM	
Parallel Session 1 (TRACK 1)	
Session Chair: Junitakan Taweekun	
Co-chair : Mohd Faizal Mohideen Baticha	
ID	Title
13-457	EXPERIMENTAL AND NUMERICAL SIMULATION OF A MOVING CARRIER (FX63-137) THROUGH AN AIR TUNNEL (W.M Shibani, M.F.Zulkafli, B.Basuno, M.F.Abdul Ghafir, Z. Subarti)
13-458	THREE-DIMENSIONAL FINITE VOLUME MODELLING OF BLOOD FLOW IN SIMULATED ANGULAR NECK ABDOMINAL AORTIC ANEURYSM (Yousif Algabri, Sarracha Rookkapan, Surapong Chatsun)
13-460	OPTIMAL PISTON CREVICE STUDY IN A RAPID COMPRESSION MACHINE (Oku Nyong, Robert Woolley, Simon Blakey, Ehsan Albarzi)
13-464	THE STUDY OF FLOW AND HEAT TRANSFER CHARACTERISTICS OF IMPINGING-JET ARRAY MOUNTING AIR-INDUCED DUCT (K.Yeraneer, M.Wae-hayee, I.Piya, Y.Rao, C.Nuntadusitj)
13-465	THE EFFECT OF CONICAL DIMPLE SPACING ON FLOW STRUCTURE AND HEAT TRANSFER CHARACTERISTICS OF INTERNAL FLOW USING CFD (O.Yemin, M.Wae-Hayee, P.Narato, K.Yerane, K.Abdullah and C.Nuntadusitj)
13-496	A CFD STUDY ON TURBULENT FORCED CONVECTION FLOW OF AL2O3-WATER NANOFUID IN SEMI- CIRCULAR CORRUGATED CHANNEL (Raheem Kadhim Ajeel, Dr. Wan Saiful-Islam Bin Wan Salim)

3 AUGUST 2017 – Room 2 1.30 PM – 3.00 PM	
Parallel Session 2 (TRACK 2)	
Session Chair: Passakorn Vessakosol	
Co-Chair: Norasikin Mat Isa	
ID	Title
14-456	FLAME SPREAD BEHAVIOR OVER COMBUSTIBLE THICK SOLID OF PAPER, BAGASSE AND MIXED PAPER/BAGASSE (Mohd Azahari Razali, Sofian Mohd, Azwan Sapit, Akmal Nizam Mohamied, Ahmad Husaini Ismail, Mohd Faisal Hushim, Norrizam Jaaf)
14-461	EFFECT OF GROUND PROXIMITY ON THE FLOW OVER STOL CH750 MULTI-ELEMENT AIRFOIL (Aslam, Abdullah, Muhammad Ammar Kamsani, Mohamad Kamil Abdullah)
14-467	FLOW BEHAVIOUR IN NORMAL AND MENIERE'S DISEASE OF ENDOLYMPHATIC FLUID INSIDE THE INNER EAR (Muhammad Sufyan Amir Paisal, Muhammad Azmi Wahab, Ishkizat Talib, Norasikin Mat Isa, Mohd Rasid Ibrahim)
14-501	RECENT ADVANCES IN FLUIDIZED BED DRYING (Nazrul Syaif Haron, Jarnal Hazri Zakaria, Mohd Faizal Mohideen Baticha)
14-517	NUMERICAL SIMULATION OF TANGENTIAL INLET CONFIGURATION FOR PLENUM CHAMBERS (Akmal Nizam Mohammed)
14-520	PRESSURE RECOVERY PERFORMANCE OF 2-D TURNING DIFFUSER BY VARYING AREA RATIOS AND INFLOW REYNOLDS NUMBERS (M.S.Ruzaini, N.Nordin, A.Sadikin, A.N.Mohammed, A.Sapit, M.K.Abdullah, Y.Ramlil, A.F.Idris)

Cont.

3 AUGUST 2017 – Room 3 1.30 PM – 3.00 PM	
Parallel Session 3 (TRACK 3)	
Session Chair: Mohd Fadhli bin Zulkafli	
Co-chair : Tan Rong Cheng	
ID	Title
15-468	A NUMERICAL ANALYSIS OF FLAT FAN AERIAL CROP SPRAY (Siti Natasha Malik Fesal, Mas Fawzi and Zamri Omar)
15-542	HEAT TRANSFER EFFICIENCY OF DIFFERENT COOLING AGENTS IN SHELL AND TUBE HEAT EXCHANGER (A.K.Fernand, G. Davis, M. Alexyus, G. Gary, R. Khairulfaad, I. Taib, N. Asmulin)
15-545	COMPARISON BETWEEN SEVEN, FIVE AND THREE TUBES OF HEAT EXCHANGER TEMPERATURE AND PRESSURE DROP (Muhammad Ikram bin Adenan, Nigel Sean Kong, Dr. Ishkizat Bin Taib, Prof. Wadya Dr. Norzelawati Binti Asmulin)
15-550	FLOW CHARACTERISTIC OF WATER SPRINKLER (Tan Rong Cheng, Muhammad Helmi Bin Abdul Khafar, Nor Intan Suraya Bi Abdullah, Richard Ngalle Anak Chendang)
15-556	STUDY OF BUILDING ENERGY INDEX, BEI IN TUNKU TUN AMINAH LIBRARY, UTHM (Amirul Solehin bin Adnan, Zamri bin Noranah)
15-559	HEAT TRANSFER EFFICIENCY ON DIFFERENT COOLING AGENTS IN SHELL AND TUBE HEAT EXCHANGER (A.K.Fernand, G. Davis, M. Alexyus, G. Gary, I. Taib, Y. Ramli, and N. Asmulin)

3 AUGUST 2017 – Room 1 3.15 PM – 4.30 PM	
Parallel Session 4 (TRACK 1)	
Session Chair : Azmahani Sadikin	
Co-chair: Muhammad Sufyan Amir Paisal	
ID	Title
13-500	PARAMETRIC STUDY AND SHRINKAGE MODELLING OF NATURAL RUBBER SHEET DRYING USING COMSOL MULTIPHYSICS (Clement Ajani, Anil Kumar, Stefano Curcio and Perapong Tekasakul)
13-513	NUMERICAL SIMULATIONS ON FLOW AND HEAT TRANSFER IN RIBBED TWO-PASS SQUARE CHANNELS UNDER ROTATIONAL EFFECTS (Natthaporn Kaewchooahong, Kifflinan Malwan and Chayut Nuntadusi)
13-516	EFFECT OF INCLINED ANGLE OF PIN ARRAYS ON FLOW AND HEAT TRANSFER CHARACTERISTICS IN FLOW CHANNEL WITH COMPUTATIONAL FLUID DYNAMICS (Pathomporn Narato, Makkar Wae-hayee, Passakorn Yessakosol, and Chayut Nuntadusi)
13-524	EFFECT OF TURNING ANGLE ON PERFORMANCE OF 2-D TURNING DIFFUSER VIA ASYMPOTIC COMPUTATIONAL FLUID DYNAMICS (Y.T.Khong, N.Nordin, S.M.Seri, A.N.Mahammed, A.Sapir, I.Taib, M.K.Abdullah, A.Sadikin and M.A.Razali)
13-773	OPTIMAL PISTON CREVICE STUDY IN A RAPID COMPRESSION MACHINE (Oku Nyong, Robert Woolley, Simon Blakey, Ehsan Albarzi)

3 AUG 2017 – Room 2 3.15 PM – 4.30 PM	
Parallel Session 5 (TRACK 2)	
Session Chair: Ishkrizat Taib Co-Chair: Khong Yan Teng	
ID	Title
14-526	STUDY ON CHARACTERISTICS OF GASOLINE SPRAY INJECTION (Abdul Malik Salip, Azwan Sapit, Akmal Nizam Mohammed, Mohd Azahari Razali, Mohd Faisal Hushim)
14-527	STUDY ON AIRFLOW CHARACTERISTICS OF REAR WING OF F1 CAR (Abdul Rahman Salami Azmi, Azwan Sapit, Akmal Nizam Mohammed, Mohd Azahari Razali, Azmahani Saadkin, Normayati Nordin)
14-530	NUMERICAL STUDY OF CANISTER FILTERS WITH ALTERNATIVES FILTER CAP CONFIGURATIONS (Akmal Nizam bin Mohammed, Abdul Rasyid bin Daud, Mohammad Kamil Abdullah, Suzatrin Md Seri, Mohd Faisal Hushim and Amir Khalid)
14-536	AIR BEARING DEVELOPMENT USING COMPUTATIONAL FLUID DYNAMICS (CFD) (Hamidon Salleh, Ikram Adenan)
14-688	INVESTIGATION OF WIND BEHAVIOUR AROUND HIGH-RISE BUILDINGS (Jamil Aniff Hairul Bahara, Norasikin Mat Isa, N.F.Nasir)

3 AUGUST 2017 – Room 3 3.15 PM – 4.30 PM	
Parallel Session 6 (TRACK 3)	
Session Chair: Chayut Nuntadusit Co-chair : Mohammad Kamil Abdullah	
ID	Title
15-560	APPLICATION OF DESIGN FOR SIX SIGMA METHODOLOGY ON PORTABLE WATER FILTER USING MEMBRANE FILTRATION SYSTEM: A PRELIMINARY STUDY (Mohd Faridul Hassan, Suhada Jusoh, Muhammad Zaini Yunus, A.M.T. Arifin, A.E. Ismail, M. Rasidi Ibrahim, M. Zulatif Rahim)
15-563	DETERMINE SPRAY DROPLETS ON WATER SENSITIVE PAPER (WSP) FOR LOW PRESSURE DEFLECTOR NOZZLE USING IMAGE J (M.Farid Stes, Nur Faizah Madzan, Norzelawati, Asmulin, Azmahani Saadkin, and Hanis Zakaria)
15-565	DEVELOPMENT AND TESTING OF A SOLAR POWERED ICE-MAKING MACHINE (Wan Zaidi Wan Omar, S. Mohanaruban, Ali Belhocine, Mohd Nazri Nasir, Norazila Othman, Tholudin Mat Lazim)
15-571	DETERMINATION OF PARTICLE-BOUND POLYCYCLIC AROMATIC HYDROCARBONS EMITTED FROM CO-PELLETIZATION COMBUSTION OF LIGNITE AND RUBBER WOOD SAWDUST (R. Kan, P. Tekasakul, S. Tekasakul)
15-629	ANALYSIS OF HIGH INJECTION PRESSURE AND AMBIENT TEMPERATURE ON BIODIESEL SPRAY CHARACTERISTICS USING COMPUTATIONAL FLUID DYNAMICS (Muhammad Akasha Hashim)

Cont.

4 AUGUST 2017 – Room 1 8.30 AM – 10.00 AM	
Parallel Session 7 (TRACK 1) Session Chair: Kiffinan Maliwan Co-chair : Muhamad Fairhan Mirus	
ID	Title
13-532	COMPARATIVE STUDY OF ROE, RHL AND RUSANOV FLUXES FOR SHOCK-CAPTURING SCHEMES (Malina Darwis, Kamil Abdullah, Akmal Nizam Mohammed)
13-548	THE EFFECTS OF JET-MAINSTREAM VELOCITY RATIO ON FLOW CHARACTERISTICS AND HEAT TRANSFER ENHANCEMENT ON DOWNSTREAM SURFACE OF OPEN FLOW (N Puzi, S Prasefisan, C Nuntadusit)
13-564	NUMERICAL ANALYSIS ON CENTRIFUGAL COMPRESSOR WITH MEMBRANE TYPE DRYER (M A Razali, M F Zulkafli, N Mar Isa, Z Subari)
13-566	COMPUTATION OF TABS AND WING GENERATOR MODIFICATION ON TEMPERATURE DISTRIBUTION AND FLOW OF FREE JET (I Piya, W Palasai, C Nuntadusit)
13-573	THERMAL RADIATION HEAT TRANSFER IN PARTICIPATING MEDIA BY FINITE VOLUME DISCRETIZATION USING COLLIMATED BEAM INCIDENCE (Harjishnu R, Jayakumar, J.S. Pradeep Kumar)
13-761	COMPUTATION OF TABS AND WING GENERATOR MODIFICATION ON TEMPERATURE DISTRIBUTION AND FLOW OF FREE JET (I Piya, W Palasai, C Nuntadusit)
4 AUGUST 2017 – Room 2 8.30 AM – 10.00 AM	
Parallel Session 8 (TRACK 2) Session Chair: Mohd Azahari Razali Co- Chair: Muhamad Fazli Othaman	
ID	Title
14-549	CFD SIMULATION OF FATTY ACID METHYL ESTER PRODUCTION IN BUBBLE COLUMN REACTOR (M S Nursyaira, N F Nasti)
14-551	DEVELOPMENT OF LOW COST CLUSTER COMPUTER FOR NUMERICAL ANALYSIS (Nur Hana Nabila Zulkifli, Azwan Sapit, Akmal Nizam Bin Mohammed)
14-552	THREAD ANGLE DEPENDENCY ON FLAME SPREAD SHAPE OVER KENAF/POLYESTER COMBINED FABRIC (Mohd Azahari Razali, , Azwan Sapit, Akmal Nizam Mohammed, Md Nor Anuar Mohammed, Normayati Nordin, Azmahani Sadikin, Mohd)
14-553	STUDY OF THE FLUID FLOW PATTERN IN A BUBBLE COLUMN REACTOR FOR BIODIESEL PRODUCTION (Ameerul Azmie Subairi, Nurul Fitriah Nasir, Muhamad Fairhan Mirus)
14-554	EFFECT OF SPARK PLUG AND FUEL INJECTOR LOCATION ON MIXTURE STRATIFICATION IN A GDI ENGINE - A CFD ANALYSIS (Om, Prakash saw, J M Mallikarjuna)
14-555	EFFECT OF PISTON PROFILE ON PERFORMANCE AND EMISSION CHARACTERISTICS OF A GDI ENGINE WITH SPLIT INJECTION STRATEGY – A CFD STUDY (Yashas Karaya, J M mallikarjuna)

<p>4 AUGUST 2017 – Room 1 10.30 AM – 12.15 PM</p> <p>Parallel Session 9 (TRACK 1) Session Chair: Shahrul Azmir Osman Co-chair: Riyadhtusollehan Khaiulfuaad</p>	
ID	Title
13-575	NUMERICAL INVESTIGATION OF FLOW PARAMETERS FOR SOLID RIGID SPHEROIDAL PARTICLE IN A PULSATILE PIPE FLOW (Jayakumar, J.S)
13-695	COMPUTATIONAL MODELLING OF FLOW AND TIP VARIATIONS OF AORTIC CANNULAE IN CARDIOPULMONARY BYPASS PROCEDURE (Siti A. Thomas, Shiryi Empoling, Nofrizaldiris Darlis, Kahar Osman, Jeswant Dillon, Ishkrizat Taib, Ahmad Zahran Md)
13-697	EFFECT OF TIP CLEARANCE ON WALL SHEAR STRESS OF AN AXIAL LVAD (Vikas R, Sarath S)
13-703	STUDY OF CONVERSION OF AMMONIA FROM UREA WATER SOLUTION DROPLETS USING CFD (Lyothis K, Vikas R)
13-630	PURIFICATION OF CRUDE GLYCEROL FROM TRANSESTERIFICATION REACTION OF PALM OIL USING DIRECT METHOD AND MULTISTEP METHOD (N F Nasir, M F Mirus, M Ismail)
13-715	COMPUTATIONAL FLUID DYNAMIC (CFD) ANALYSIS FOR ALUDRA SR-10 UAV WITH PARACHUTE RECOVERY SYSTEM (Raudhah Saïm, Sofian Mohd, Syariful Syarifq Shamsudin)
13-562	PERFORMANCE MEASUREMENT OF A NEW CONCEPT RECIPROCATING PISTON EXPANDER (RPE) USING A NEWLY DEVELOPED SMALL-SCALE DYNAMOMETER UNIT (Md.Nor Anuar Mohamad, Mohd Faisal Hushim, Wan Nur Azrina Wan Muhammad, Mohd Azahari Razali, Amir Khalid, Mohamad Fauzi Zakaria)
<p>4 AUGUST 2017 – Room 2 10.30 AM – 12.15 PM</p> <p>Parallel Session 10 (TRACK 2) Session Chair: Akmal Nizam Mohammed Co-chair: Fermand Alexson Kanyan Anak Jawa</p>	
ID	Title
14-557	POTENTIAL REDUCTION OF ENERGY CONSUMPTION IN PUBLIC UNIVERSITY LIBRARY (Z Noranai,ADF Azman)
14-570	NUMERICAL INVESTIGATION OF A THICK PLATE RESTRICTION ORIFICE ON THE PRESSURE DROP PERFORMANCE (Yau Kar Hing, Kua Ee Chin, Balvinder Singh)
14-611	A STUDY ON A SWIRL TYPE WITH MULTI-HOLE NOZZLE FUEL INJECTOR FOR A PFI SYSTEM TO IMPROVE AIR-FUEL MIXTURE FORMATION (A. J. Alimin, Y KuangHe, A Sapiti, H Selamati)
14-671	NEW APPROACH TO REDUCING WATER CONSUMPTION IN COMMERCIAL KITCHEN HOOD (Norzelawati Asmulin, M.Rasidi Poiran)
14-679	CFD SIMULATION OF FLOW THROUGH AN ORIFICE PLATE (Mohd Mustaqim Tukiman, Mohd Nadzaruddin Mohd Ghazali, Azmahani Sadikin, Nurul Fitriah Nasir, Normayati Nordin, Azwan Sapit, Mohd Azahari Razali)
14-711	NUMERICAL STUDY OF FLOW PAST A SOLID SPHERE AT HIGH REYNOLDS NUMBER (Chong Han Yen, U Joo Hui, We Yuan Yuan, Azmahani Sadikin, Normayati Nordin, Ishkrizat Taib, Mohammad Kamil Abdullah, Akmal Nizam Mohammed, Azwan Sapit, Mohd Azahari Razali)
14-689	COMPUTATIONAL FLUID DYNAMICS SIMULATION OF INSTABILITY OF VESTIBULAR SYSTEM FOR MENIERE'S DISEASE (N F H Shamsuddin, N M Isa, and I Taib, Akmal Nizam Mohammed)

CFDRI 2017 Organising Committee

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Event Schedule

Dr. Azmahani binti Sadikin
Dr. Wan Saiful Islam bin Wan Salim

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Dr. Nurul Fitriah binti Nasir

Sponsorship

Dr. Mohammad Kamil bin Abdullah
Dr.Mohd Faizal bin Mohideen Batcha



Conference Housekeeping

Catering

Morning & afternoon tea, lunch, and gala dinner will be provided for all registered participants.

Instruction for chairs

For oral presentations, timeslots are 15 minutes, including 10 minutes of presentations with 5 minutes of questions/ discussion. Please stick to the program as provided even if speaker does not turn up to facilitate movement between sessions.

Instructions for oral presenters

For oral presentations, timeslots are 15 minutes, including 10 minutes of presentation with 5 minutes of question/discussion. If using PowerPoint, please bring your file on a USB stick to the room of your presentation during the break before your session, or 20 minutes before the start of the day's proceedings. A volunteer will help you load it.

Name tags

Name tags are your entry to conference events, including social events. Please wear them at all times.

Registration / Information desk

Registration will take place near the Seminar Room and will be opened from 07.30 a.m – 08.45 p.m on 3rd August 2017.

Information desk will be opened for certificate collection from 01.30 p.m - 03.00 p.m (3rd August 2017) and 08.00 a.m - 10.00 a.m (4th August 2017).

Dress Code

Men: Blazer & tie for official event, Smart Casual for Gala Dinner

Ladies: Any proper attire.



Organiser:

Centre for Energy & Industrial Environment Studies,
Faculty of Mechanical and Manufacturing Engineering
Universiti Tun Hussein Onn Malaysia

Co-organiser

Faculty of Engineering, Prince of Songkla University Thailand