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Associate Professor of Department of Heat and Refrigeration Technology
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TITLE

November 2013: Associate Professor in Mechanical Engineering

EDUCATION

Chung Yuan Christian University (CYCU) **Sept 2010 – Aug 2011**
Postdoc program, at the Thermo-Fluidic Analysis Group (TFAG), Department of Mechanical Engineering

Chung Yuan Christian University (CYCU) **Sept 2007 – July 2010**
Ph.D., at the Thermo-Fluidic Analysis Group (TFAG), Department of Mechanical Engineering

Hochiminh City University of Technology (HCMUT) **Sept 2002 – Sept 2004**
M.Sc., Thermal technology with a concentration in waste heat recovery for industrial fire-tube boilers.

Hochiminh City University of Technology (HCMUT) **Sept 1996 – Jan 2001**
B.S., Thermal technology with a concentration in industrial refrigeration and thermal power plant.

WORK EXPERIENCE

Hochiminh City University of Technical Education (HCMUTE) **Apr 2011 - Present**
Vice Dean of Faculty of Automotive Engineering

Hochiminh City University of Technical Education (HCMUTE) **Nov 2010 – Apr 2011**
Faculty of High Quality Training
Head of Department of High Quality for Automotive Engineering

Hochiminh City University of Technical Education (HCMUTE) **Aug 2003 – Present**

Lecturer of Department of Heat and Refrigeration Technology

- . Teaching for courses: Thermal Engineering, Heat Transfer, Boiler, and Energy Economics
- . Researching a few scientific projects which were supported by the university.

Hochiminh City University of Technical Education (HCMUTE)**Jun 2004 – Jun 2007****Center for Research and Transfer Technology****Technical manager and chief accountant**

- . Consulted, designed, supervised, and installed projects about heat and refrigeration system
- . Consulted saving energy for firms
- . Provided and transferred new technology to enterprises
- . Provided and transferred educational equipments
- . Reported tax
- . Reported annual balance.

Investment Commerce Fisheries Corporation (INCOMFISH)**Feb 2001 – Jul 2003****Engineer**

- . Responsible for supervision of the refrigeration system of the firm.
- . Designed, supervised, and installed projects about heat and refrigeration system.

SPECIALIZED SKILLS**Computers.** Technical proficient in Microsoft Office, Auto CAD, Inventor, Matlab, Visual Basic, Comsol, CFD ACE⁺, Fortran.**Languages.** Speaking, reading, and writing in English.
Speaking in Chinese.**PUBLICATIONS**

A) INTERNATIONAL PAPERS**A1/ Journal papers**

- [1] Thanhtrung Dang, Thanhngghia Nguyen and Tronghieu Nguyen, An Experimental Study on Heat Transfer Behaviors of A Welded - Aluminum Minichannel Heat Exchanger, International Journal of Computational Engineering Research, Vol. 5, Issue 2, 2015, pp. 39-45 (EI)
- [2] Thanhtrung Dang and Minhhung Doan, An Experimental Investigation on Condensation Heat Transfer of Microchannel Heat Exchangers, International Journal of Computational Engineering Research, Volume 03, Issue 12, 2013, pp. 25-31 (EI)
- [3] Thanhtrung Dang, Daly Minh Nao, Ngoctan Tran, and Jyh-tong Teng, A novel design for a scooter radiator using minichannel, International Journal of Computational Engineering Research, 2013, Volume 3, Issue 6, pp. 41-49
- [4] Thanhtrung Dang, Vanmanh Nguyen, Nhatlinh Nguyen, Tansa Nguyen, Quocdat Vu, Dinhvu Tran, Vanchung Ha, Jyh-tong Teng, and Ngoctan Tran, A study on enhancing heat transfer efficiency of LED lamps, Journal of Engineering Technology and Education, Vol. 9, Number 5, pp. 356-361 (Special Issue of International Conference on Green Technology and Sustainable Development 2012 - GTSD2012)
- [5] Xiang-fei Yu, Chun-ping Zhang, Jyh-tong Teng, Su-yi Huang, Shi-ping Jin, Yi-fu Lian, Ching-hung Cheng, Ting-ting Xu, Jiann-Cherng Chu, Yaw-Jen Chang, Thanhtrung Dang, and Ralph Greif, A study on the hydraulic and thermal characteristics in fractal tree-like microchannels by numerical and experimental methods, International Journal of Heat and Mass Transfer, 2012 Vol. 55, Issue 25-26, pp. 7499-7507 (SCI)
- [6] Thanhtrung Dang, Ngoctan Tran and Jyh-tong Teng, Numerical and Experimental Investigations for Effect of Gravity to the Heat Transfer and Fluid Flow Phenomena of Microchannel Heat Exchangers, International Journal of Computational Engineering Research, Volume 2, Issue 2, 2012, pp. 260-270

- [7] Jiann Cherng Chu, Jyh-tong Teng, Ting-ting Xu, Shiping Jin, Suyi Huang, Xiangfei Yu, Thanhtrung Dang, Chun-ping Zhang, Ralph Greif, Characterization of frictional pressure drop of liquid flow through curved rectangular microchannels, *Experimental Thermal and Fluid Science*, Vol. 38, 2012, pp. 171-183 (SCIE)
- [8] Thanhtrung Dang, Ngoctan Tran, and Jyh-tong Teng, Numerical and Experimental investigations on heat transfer phenomena of an aluminium microchannel heat sink, *Applied Mechanics and Materials*, Vol. 145 (2012) pp. 129-133 (EI)
- [9] Thanhtrung Dang, Jyh-tong Teng, and Jiann-Cherng Chu, Pressure drop and heat transfer characteristics of microchannel heat exchangers: a review of numerical simulation and experimental data, *International Journal of Microscale and Nanoscale Thermal and Fluid Transport Phenomena*, Vol. 2, Issue 3, 2011, pp. 1-24
- [10] Thanhtrung Dang, Jyh-tong Teng and Jiann-cherng Chu, Influence of gravity on the performance index of microchannel heat exchangers-experimental investigations, *Lecture Notes in Engineering and Computer Science*, Volume 2192, Issue 1, 2011, pp. 2094-2099 (EI)
- [11] Thanhtrung Dang and Jyh-tong Teng, The effects of configurations on the performance of microchannel counter-flow heat exchangers – An experimental study, *Applied Thermal Engineering*, Vol. 31, Issue 17-18, 2011, pp. 3946-3955 (SCIE)
- [12] C. Liu, J.T. Teng, J.C. Chu, Y.L. Chiu, S. Huang, T.T. Dang, R. Greif, and H.H. Pan, Experimental Investigations on liquid flow and heat transfer in rectangular microchannel with longitudinal vortex generators, *International Journal of Heat and Mass Transfer*, Volume 54, Issue 13-14, 2011, pp. 3069-3080 (SCI)
- [13] Thanhtrung Dang and Jyh-tong Teng, Comparison on the heat transfer and pressure drop of the microchannel and minichannel heat exchangers, *Heat and Mass Transfer*, Vol, 47, 2011, pp. 1311-1322 (SCI)
- [14] Thanhtrung Dang and Jyh-tong Teng, Numerical and experimental studies of the impact of flow arrangement on the behavior of heat transfer of a microchannel heat exchanger, *IAENG International Journal of Applied Mathematics*, Volume 40 Issue 3, 2010, pp. 207-213 (EI)
- [15] Thanhtrung Dang, Jyh-tong Teng and Jiann-cherng Chu, Effect of flow arrangement on the heat transfer behaviors of a microchannel heat exchanger, *Lecture Notes in Engineering and Computer Science*, Volume 2182, Issue 1, 2010, pp. 2209-2214 (EI)
- [16] Thanhtrung Dang, Jyh-tong Teng, and Jiann-cherng Chu, A study on the simulation and experiment of a microchannel counter-flow heat exchanger, *Applied Thermal Engineering*, Volume 30, Issues 14-15, 2010, pp. 2163-2172 (SCIE)
- [17] Thanhtrung Dang, Yaw-Jen Chang and Jyh-tong Teng, A study on the simulations of a trapezoidal shaped micro heat exchanger, *Journal of Advanced Engineering*, Volume 4, No. 4, October 2009, pp. 397-402.

A2/ Conference papers

- [1] Thanhtrung Dang, Minhchung Doan, Batan Le, and Jyh-tong Teng, Enhancing heat transfer efficiency of minichannel heat exchangers by increasing the pass number, *The 2nd International Conference on Green Technology and Sustainable Development 2014 (GTSD14)*, Ho Chi Minh city, Oct 29-30, 2014, pp 261-265
- [2] Thanhtrung Dang, Thanhnghia Nguyen, Ducduy Nguyen, Truclinh T. Dang, Kimlam Co, Hoangdu Pham, Minhtuan Pham, and Thaihuy Vo, Numerical simulation on heat transfer phenomena of a minichannel heat exchanger with five passes, *The 2nd International Conference on Green Technology and Sustainable Development 2014 (GTSD14)*, Ho Chi Minh city, Oct 29-30, 2014, pp 266-271
- [3] Thanhtrung Dang, Minhchung Doan, Ngoctan Tran, and Jyh-tong Teng, Effect of Configuration on Efficiency of Condensation Heat Transfer in Microchannels – An Experimental Study, *The 15th*

International Symposium on Eco-materials Processing and Design (ISEPD2014), Ha Noi, Vietnam, Jan 12 - 15, 2014

- [4] Thanhtrung Dang, Batan Le, Ngoctan Tran, and Jyh-tong Teng, Comparison of Working Fluid on Heat Transfer Behaviors of Microchannel Heat Sinks, The 15th International Symposium on Eco-materials Processing and Design (ISEPD2014), Ha Noi, Vietnam, Jan 12 - 15, 2014
- [5] Thanhtrung Dang, Vanmanh Nguyen, Nhatlinh Nguyen, Tansa Nguyen, Quocdat Vu, Dinhvu Tran, Vanchung Ha, Jyh-tong Teng, and Ngoctan Tran, A study on enhancing heat transfer efficiency of LED lamps, International Conference on Green Technology and Sustainable Development 2012 (GTSD2012), Hochiminh city, Sept 29-30, 2012
- [6] Ngoctan Tran, Thanhtrung Dang, and Jyh-tong Teng, Numerical and experimental studies on pressure drop and performance index of an aluminum microchannel heat sink, 2012 IEEE International Symposium on Computer, Consumer and Control (IS3C2012), June 4-6, 2012, Taichung City, Taiwan, pp. 252-257 (EI)
- [7] Christian Alvin, Jyh-tong Teng, and Thanhtrung Dang, Thermal Resistance Analysis of Extruded Fin Heat Sink on LED Lamp, The International Electron Devices and Materials Symposium 2011 (IEDMS2011), Taipei, Taiwan, Nov 17-18, 2011, P-C-19, pp. 1-4 (EI)
- [8] Thanhtrung Dang, Ngoctan Tran, and Jyh-tong Teng, Numerical and Experimental investigations on heat transfer phenomena of an aluminium microchannel heat sink, The First International Conference on Engineering and Technology Innovation 2011 (ICETI2011), Kenting, Taiwan, Nov 11-15, 2011, pp. 1-5 (EI)
- [9] Thanhtrung Dang, Jyh-tong Teng, and Jiann-cherng Chu, Influence of Gravity on the Performance Index of Microchannel Heat Exchangers-Experimental Investigations, The World Congress on Engineering 2011 (WCE 2011), London, July 2011, pp. 2094-2099 (EI)
- [10] Thanhtrung Dang, and Jyh-tong Teng, Numerical simulation of a microchannel heat exchanger using steady-state and time-dependent solvers, ASME 2010 International Mechanical Engineering Congress & Exposition (IMECE2010), Vancouver, Canada, 2010, pp.1-10 (EI).
- [11] Thanhtrung Dang, and Jyh-tong Teng Effect of the Substrate Thickness of Counter-flow Microchannel Heat Exchangers on the Heat Transfer Behaviors, the proceeding of the International Symposium on Computer, Communication, Control and Automation 2010 (3CA2010), Tainan, Taiwan, May, 2010, pp. 17-20 (EI, ISTP)
- [12] Thanhtrung Dang, Jyh-tong Teng, and Jiann-cherng Chu, Effect of flow arrangement on the heat transfer behaviors of a microchannel heat exchanger, the proceeding of the International MultiConference of Engineers and Computer Scientists 2010 (IMECS2010), Hong Kong, March, 2010, pp. 2209-2214 (Best Student Paper Award) (EI).

A3/ Books and book chapters

- [1] Jyh-tong Teng, Jiann-Cherng Chu, Chao Liu, Tingting Xu, Yih-Fu Lien, Jin-Hung Cheng, Suyi Huang, Shiping Jin, Thanhtrung Dang, Chunping Zhang, Xiangfei Yu, and Ralph Grief, Fluid Dynamics in Microchannels, Fluid Dynamics / Book 3, InTech Publisher 2012, pp.403-436
- [2] Thanhtrung Dang, Jyh-tong Teng, and Jiann-cherng Chu, Single-phase Heat Transfer and Fluid Flow Phenomena of Microchannel Heat Exchangers, Heat Exchangers/Book, InTech Publisher 2012, pp. 249-288
- [3] Thanhtrung Dang, and Jyh-tong Teng, Influence of flow arrangement on the performance index for an aluminium microchannel heat exchanger, IAENG Transactions on Engineering Technologies Volume 5, the American Institute of Physics (AIP), Vol. 1285, October 2010, pp. 576-590

B) DOMESTIC PAPERS

B1/ Journal papers

- [1] Huynh Tan Dat, Dang Thanh Trung, and Nao Minh Daly, A study on enhancing heat transfer of cylinder water Jacket by groove cutting, Journal of Technical Education Science, Vol.27, 2013, pp. 44-52 (in Vietnamese)
- [2] Le Ba Tan and Dang Thanh Trung, An overview on cooling LED Lamps, Journal of Technical Education Science, Vol.26, 2013, pp. 22-26 (in Vietnamese)
- [3] Nao Minh Daly and Dang Thanh Trung, Study on replacement a scooter radiator by a minichannel heat exchanger, Journal of Technical Education Science, Vol.25, 2013, pp. 24-32 (in Vietnamese)
- [4] Dang Thanh Trung, Using heat pipes for air conditioning in South of Vietnam, Technical Education Journal, Vol.3, March, 2007, pp.72-75 (in Vietnamese)
- [5] Nguyen Van Tuyen and Dang Thanh Trung, Research on designing economizer with waste heat recovery for industrial fire-tube boilers, Science & Technology Development, Vol.8, No.11, 2005 pp. 74-80 (in Vietnamese)
- [6] Nguyen Van Tuyen and Dang Thanh Trung, Set up a Software calculation of the fin-tube economizer and air heater of industrial boiler, Thermal Science Technology Review, July, 2005 pp. 17-19 (in Vietnamese).

B2/ Conference papers

- [1] Dang Thanh Trung, Nguyen Tan Quoc và Le Xuan Hoa, Applying micro technology for heat exchangers to enhance heat transfer efficiency, The conference on science and technology: Green energy and sustainable development, Hochiminh city University of Technology Education, Oct 29, 2011, pp. 16-21 (in Vietnamese)
- [2] Dang Thanh Trung, Le Kim Duong và Doan Minh Hung, Applying Lax và Lax – Wendroff methods to solve the inviscid Burgers' equation, The conference on science and technology: Green energy and sustainable development, Hochiminh city University of Technology Education, Oct 29, 2011, pp. 63-67 (in Vietnamese)
- [3] Doan Minh Hung and Dang Thanh Trung, Applying ADI method to solve the two-dimensional heat equation, The conference on science and technology: Green energy and sustainable development, Hochiminh city University of Technology Education, Oct 29, 2011, pp. 102-105 (in Vietnamese)
- [4] Dang Thanh Trung, Introduction to ocean thermal energy, The conference on science research in five years, Hochiminh city University of Technology Education, Sept 29, 2010, pp. 89-92 (in Vietnamese)

B3/ Books and book chapters

- [1] Dang Thanh Trung and Lai Hoai Nam, Energy economics, VNU-HCM Publishing House, 2014 (In Vietnamese)
- [2] Thanhtrung Dang, Ngoctan Tran and Jyh-tong Teng, English for Thermal Engineering, VNU-HCM Publishing House, 2014
- [3] Dang Thanh Trung, COMSOL – Fundamental and application in numerical simulation, VNU-HCM Publishing House, 2014 (In Vietnamese)
- [4] Le Kim Duong and Dang Thanh Trung, Thermodynamics, VNU-HCM Publishing House, 2013 (In Vietnamese)
- [5] Dang Thanh Trung, Boiler, VNU-HCM Publishing House, Jan, 2013 (In Vietnamese).
- [6] Dang Thanh Trung, Le Kim Duong, Vo Hoang Trung, Pham The Nhieu, Pham Duc Thinh, Lac Thai Vinh, Nguyen Xuan Bach, and Huynh Trinh Thang, Numerical simulation by using COMSOL MULTIPHYSICS, Science and Technics Publishing House, 2012 (In Vietnamese).
- [7] Dang Thanh Trung, Le Kim Duong, Nguyen Nhat Linh, Nguyen Tan Sa, Vu Quoc Dat, Ha Van Chung, Nguyen Van Manh and Tran Dinh Vu, COMSOL MULTIPHYSICS – Applying for heat and mass transfer, Science and Technics Publishing House, 2012 (In Vietnamese)

AWARDS

[1] Best Student Paper Award of The 2010 IAENG International Conference on Scientific Computing

MEMBER

[1] APCBEES SENIOR MEMBERSHIP	2013 - Present
[2] ASME MEMBERSHIP	2011 - Present
[3] IAENG MEMBERSHIP	2010 - Present

SESSION CHAIR

[1] World Congress on Engineering 2011 (WCE 2011) - The 2011 International Conference of Mechanical Engineering (ICME'11)
[2] International Conference on Green Technology and Sustainable Development 2012 (GTSD2012)
[3] International Conference on Green Technology and Sustainable Development 2014 (GTSD2014)

INVITED REVIEWERS FOR

[1] International Journal of Thermal Sciences	01 paper	In 2009
[2] Microfluidics and Nanofluidics	01 paper	In 2011
[3] International Journal of Microscale and Nanoscale Thermal and Fluid Transport Phenomena	01 paper	In 2011
[4] International Journal of Renewable and Sustainable Energy, SciencePG	03 paper 04 paper	In 2013 In 2014
[5] International Journal of Mechanical Engineering and Applications, SciencePG	02 paper	In 2015

EDITORS FOR

[1] Editorial Board member for International Journal of Computational Engineering Research (IJCER)
<http://www.ijceronline.com/editorial-board.html>
[2] American Journal of Mechanics and Applications (AJMA)
<http://www.sciencepublishinggroup.com/journal/editorialboard.aspx?journalid=621>
[3] International Journal of Mechanical Engineering and Applications (IJMEA)
<http://www.sciencepublishinggroup.com/journal/editorialboard.aspx?journalid=220>
[4] International Journal of Sustainable and Green Energy (IJSGE)
<http://www.sciencepublishinggroup.com/journal/editorialboard.aspx?journalid=169>

RESEARCH INTERESTS

Nano/microscale heat transfer
Renewable energy
Energy and sustainable development
Energy economics
Industrial refrigeration and air conditioning.