

ชื่อ-สกุล

รองศาสตราจารย์ไพศาล นามผล

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สถานที่ติดต่อ:

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#### ประวัติการศึกษา:

ระดับ	สาขา	มหาวิทยาลัย	ประเทศ	ปี
ปริญญาเอก	Mechanical Engineering	KMUTT	Thailand	2004
ปริญญาโท	Mechanical Engineering	KMUTT	Thailand	1998
ปริญญาตรี	Agricultural Engineering	KKU	Thailand	1995

#### ประวัติการทำงานและการฝึกอบรม:

1999 to present	Lecturer, Srinakharinwirot University, THAILAND-Lecturer in the Department of Mechanical Engineering, teaching <i>Thermodynamics I, Thermodynamics II, Heat Transfer, Refrigeration, Power Plant Engineering</i> to undergraduate students, <i>Advance Numerical Analysis, Convective Heat Transfer, Advance Thermodynamics</i> to graduate students.
March 1999	Technology Promotion Institute, THAILAND – <i>Professional Boiler Inspector Training</i>
August 2005	Practical Energy Management Training Center, THAILAND, <i>Train the Trainer</i>
February 2010	เป็นวิทยากรอบรมทางด้านพลังงานของ พพ.
February 2010	เป็นวิทยากรอบรมเรื่องการทำงานวิจัยและการเขียนบทความเพื่อเผยแพร่

#### สาขางานวิจัยที่เชี่ยวชาญ:

Thermal Engineering, Electronic Cooling, Heat Exchanger, Enhancement of Heat Transfer

#### งานวิจัยที่กำลังทำ:

เรื่อง	สถานะ
- Effect of Magnetic Field on the Nanofluids Heat transfer Characteristics in the Spirally Coiled Tube	หัวหน้าโครงการ
- Study on the Jet Nanofluids Heat Transfer Characteristics in the Mini-fin Heat Sinks under Magnetic Fields	หัวหน้าโครงการ
- Hot and Cool Fan with Thermoelectric Module	หัวหน้าโครงการ
- Hot and Cool Water Dispenser with Thermoelectric Module	หัวหน้าโครงการ
- On the Heat Transfer Characteristics of Nanofluids in the Mini-rectangular Fin Heat Sinks	หัวหน้าโครงการ
- Numerical Study on Heat transfer Characteristics of Battery Electric Vehicle Module	หัวหน้าโครงการ
- Designing and Construction of Magnetic Generator	หัวหน้าโครงการ
- Numerical Study on the Pulsating Nanofluids Flow in the Spirally Coiled Tube	หัวหน้าโครงการ

### ผลงานวิจัยที่ได้รับการเผยแพร่:

#### **International Journals:**

#### งานวิจัยที่เป็นส่วนของการศึกษาเพื่อรับปริญญา

S. Wongwises, **P. Naphon**, 1998, Heat-Mass Transfer and Flow Characteristics of Two-Phase Countercurrent Annular Flow in a Vertical Pipe, *International Communications in Heat Mass Transfer*, Vol. 25, pp. 819-829.

S. Wongwises, **P. Naphon**, 2000, Heat Transfer and Flow Characteristics in Vertical Annular Two-Phase Two-Component Flow, *Thammasat International Journal of Science and Technology*, Vol. 5, No.1, pp. 16-27.

S. Wongwises, W. Duangthongsuk, **P. Naphon**, 2002, Tube-Side Two-Phase Heat Transfer Coefficients of Refrigerant HFC-134a Flowing Through a Fin-and-Tube Evaporator, *International Communications Heat Mass Transfer*, Vol. 29, pp. 387-400.

**P. Naphon**, S. Wongwises, 2002, An Experimental Study on the In-Tube Heat Transfer Coefficients in a Spiral-Coil Heat Exchanger, *International Communications Heat Mass Transfer*, Vol. 29, pp. 797-809.

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**P. Naphon**, S. Wongwises, 2005, A study of the heat transfer Characteristics of a Compact Spiral Coil Heat Exchanger under Wet-Surface Conditions, *Experimental Thermal and Fluid Science*, Vol. 29, pp. 511-521.

S. Wongwises, **P. Naphon**, 2005, Heat Transfer Characteristics and Performance of a Spirally Coiled Finned Tube Heat Exchanger under Dry-Surface Conditions, *Heat Transfer Engineering*, Vol. 27, No. 1, pp. 25-34.

S. Wongwises, **P. Naphon**, 2005, *Heat Transfer Characteristics and Performance of a Spirally Coiled Heat Exchanger under Sensible Cooling Conditions*", *Japan Society of Mechanical Engineering (JSME) International Journal Series B*, Vol. 48, No. 4, pp. 810-819.

S. Laohalertdecha, **P. Naphon**, S. Wongwises, 2007, A Review of Electrohydrodynamic Enhancement of Heat Transfer, *Renewable and Sustainable Energy Reviews*, Vol. 11, pp. 858-876.

**P. Naphon**, S. Wongwises, 2006, A Review of Heat Transfer and Flow Characteristics in Curved Tubes, *Renewable and Sustainable Energy Reviews*, Vol. 10, pp. 463-490.

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#### งานวิจัยที่ไม่เป็นส่วนของการศึกษาเพื่อรับปริญญา

**P. Naphon**, B. Kongtragool, 2003, Theoretical Study on Heat Transfer Characteristics and Performance of the Flat-Plate Solar Air Heaters, *International Communications Heat Mass Transfer*, Vol. 30, pp. 1125-1136.

**P. Naphon**, 2005, Effect of Porous Media on the Performance of the Double-Pass Flat-Plate Solar Air Heater, *International Communications Heat Mass Transfer*, Vol. 32, pp. 140-150.

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**P. Naphon**, 2005, Study on the Heat Transfer Characteristics of an Evaporative Cooling Tower, *International Communications Heat Mass Transfer*, Vol. 32, pp. 1066-1074.

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**P. Naphon**, T. Arisariyawong, T. Nualboonrueng, Nanofluids heat transfer and flow analysis in vertical spirally coiled tubes using Eulerian two-phase turbulent model, Heat Mass Transfer DOI 10.1007/s00231-017-1977-8

**S. Wiriyasart P. Naphon**, Experimental Investigation on Heat Transfer Impinging Liquid Jet Characteristics of the Vapor Chambers, International Journal of Applied Engineering Research 11 (2016) 2907-2912

**P. Naphon**, S. Wiriyasart, T. Arisariyawong, T. Nualboonrueng, Magnetic field effect on the nanofluids convective heat transfer and pressure drop in the spirally coiled, Int. J. Heat and Mass Transfer 110 (2017) 739-745.

**L. Nakharintr, P. Naphon**, Magnetic field effect on the enhancement of nanofluids heat transfer of a confined jet impingement in mini-channel heat sink, Int. J. Heat and Mass Transfer 110 (2017) 753-759.

**P. Naphon**, S. Wiriyasart, Pulsating TiO<sub>2</sub>/water nanofluids flow and heat transfer in the spirally coiled tubes with different magnetic field directions, Int. J. Heat and Mass Transfer 115 (2017) 537-543.

**L. Nakharinte, P. Naphon**, S. Wiriyasart, Eulerian Two Phase Numerical Simulation on Jet Impingement Nanofluids Heat Transfer in Mini-rectangular Fin Heat Sinks, JP Heat and Mass transfer 14 (2017) 511-532.

**L. Nakharintr, P. Naphon**, S. Wiriyasart, Effect of Jet-Plate Spacing to Jet Diameter Ratios on Nanofluids Heat Transfer in a Mini-Channel Heat Sinks Int. J. Heat and Mass Transfer 116 (2018) 352-361.

**P. Naphon**, S. Wiriyasart, Experimental Study on laminar Pulsating Flow and Heat Transfer of Nanofluids in Micro-fins Tube with Magnetic Fields Int. J. Heat and Mass Transfer 118 (2018) 297-303.

**P. Naphon**, S. Wiriyasart, T. Arisariyawong, Artificial Neural Network Analysis the Pulsating Nusselt number and Friction Factor of TiO<sub>2</sub>/water Nanofluids in the Spirally Coiled Tube with Magnetic Field, Int. J. Heat and Mass Transfer 118 (2018) 1152-1159.

**S. Wiriyasart, P. Naphon**, Study on Thermal Performance of Cold Plate Unit with Micro-channel for Supercomputer Cooling, JP Heat and Mass transfer 15 (2018) 77-92.

- N. Naphon, **P. Naphon**, Salt Diffusion Enhancement in the Salt Pickled Lime Processing by Ultrasonic Treatment Technique, *International Journal of Applied Engineering Research*, 13 (2018) 4268-4272.
- P. Naphon**, S. Wiriyasart, Effect of Magnetic Fields on the Pulsating Heat Transfer and Flow of TiO<sub>2</sub>-water Nanofluids in the Helically Corrugated Tube, *International Journal of Heat and Mass Transfer* 125 (2018) 1054–1060.
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- P. Naphon**, S. Wiriyasart, Confined Impinging Liquid Jet Characteristics of Vapor Chamber Embedded with Heat Sinks, *Heat Transfer Research* 49 (2018) 1–18.
- P. Naphon**, L. Nakharintr, S. Wiriyasart, Continuous Nanofluids Jet Impingement Heat Transfer and Flow in a Micro-channel Heat Sink *International Journal of Heat and Mass Transfer* 126 (2018) 924–932.
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- S. Wiriyasart, **P. Naphon** Numerical Study on Air Ventilation in Workshop Room with Multiple Heat Sources, *Building and Environment, Case Studies in Thermal Engineering*
- P. Naphon**, S. Wiriyasart, N. Naphon, Effect of TiO<sub>2</sub> Nanoparticles Concentrations on the Thermal, Electrical, and Mechanical Properties of Natural Rubber Latex (*Int.J. Plastics Technology*) Submitted 9 October 2018
- S. Wiriyasart, C. Hommalee, **P. Naphon**, Thermal Cooling Enhancement of Dual Processors Computer with Thermoelectric Air Cooler Module, *Case Studies in Thermal Engineering* (submitted 27 February 2019)
- P. Naphon**, T. Arisariyawong, S. Wiriyasart, Adaptive Neuro-Fuzzy Inference System of Friction Factor and Nusselt Number of Pulsating Nanofluids Flow in the Fluted Tube under Magnetic Field *International Journal of Heat and Mass Transfer* (Submitted 4 March 2019)
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#### International Conferences:

- S. Wongwises, **P. Naphon**, 1998, Flow, Heat and Mass Transfer Characteristics of Two-Phase Countercurrent Annular Flow in a Vertical Pipe, 3<sup>rd</sup> International Conference on Multiphase Flow, ICMF98, June 8-12, Lyon, France.

**P. Naphon**, S. Wongwises, 2003, Experimental and Theoretical Investigation of the Heat Transfer Characteristics and Performance of a Spiral-Coil Heat Exchanger under Dry-Surface Conditions, 2<sup>nd</sup> International Conference on Heat Transfer, Fluid Mechanics, and Thermodynamics (HEFAT), June 24-26, Victoria Falls, Zambia.

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S. Wiriyasart, **P. Naphon**, Study on the Heat Transfer Characteristic of the Vapor Chamber without Micro-channel for Cooling Electronic Component, The 3rd International Symposium on Engineering, Energy and Environments (ISEEE), Pullman King Power Hotel, Bangkok: 17-20 November 2013.

L. Nakharintr, **P. Naphon**, Investigation on the Single Phase Heat Transfer of the Mini-rectangular Channel Heat Sink, The 3rd International Symposium on Engineering, Energy and Environments (ISEEE), Pullman King Power Hotel, Bangkok: 17-20 November 2013.