

Curriculum Vitae



Name-Surname Dr. Anan Pongtornkulpanich

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Birth date July 24 ,1969

Current Position Permanent Lecturer

Working Address 225 Faculty of Engineering and Architecture, Rajamangala University of Technology Tawan-Ok, Uthenthawai Campus, Bangkok, Thailand, 10330

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Educational Background

Doctoral Degree Ph.D. (Energy Technology)
King's Mongkut University of Technology Thonburi (KMUTT)
National Government Scholarship (National Energy Policy Office, NEPO)

Master Degree M.Sc. (Energy Technology)
King's Mongkut University of Technology Thonburi (KMUTT)

Mphil. (Energy program) Asian Institute of Technology (AIT)

Bachelor Degree B.Sc. (Industrial Chemistry) ChiangMai University (CMU)

Secondary School Nakornsawan School (Excellent Scholarship)

Working Experience & Position

Current Vice Director of Institute of Research and Development* (latest)
Rajamangala University of Technology, Ta-wan Ok (RMUTTO)
Associate Dean of Academic and Research Affairs (Expired)
Faculty of Engineering and Architecture, (RMUTTO)
Assistant Dean of Academic and Research Affairs
Board Committee of Graduated School
Major Adviser of Graduated Student (*Technical and Non technical programs*)
Major Adviser of Undergraduated Student
Committee and Assessor of Quality Assessment of The Higher Education Commission
Reviewer of Advanced Mechanical Engineering (*International Journal*)
Reviewer of Applied Energy (Elsevier Journal) (*International Journal*)
Reviewer of Energy and Power Engineering (*Scientific Publishing*)
Reviewer of Basic and Applied Research (*International Journal*)

Reviewer of Journal of Scientific Research and Reports (*International Journal*)
Former Lecturer at School of Renewable Energy Technology (SERT),
Naresuan University
Administration Committee of Master of Science in Renewable Energy Program
School Committee of Renewable Energy Technology, Naresuan University
Former Major Adviser of Graduated Thesis, School of Renewable Energy Technology, Naresuan University
School Representative of International Affairs, Naresuan University
Research Project Chief entitled “Reduction of Chiller Size of Solar Single Stage Ejector Refrigeration System to Commercialization”
Funded by National Research Council Thailand (NRCT), 2015
Research Project Chief entitled “Effect of Ejector Geometry and Operating Condition on Performance of Single Stage Ejector Refrigeration System, Funded by Naresuan University (NU), 2015
Project Manager to develop Master Plan of NU Green Building
Research Inventionist “Ejector and Nozzle for Refrigeration System using Water (R718b) as Refrigerant” Petty Patent no. 1303000931
Research Inventionist “Solar driven Ejection Refrigeration System” Petty Patent no. 1303000932
Research Project Chief “Development of Stratified Thermal Storage Tank for producing hot water in Industrial Sector, Funded by National Research Council in Thailand (NRCT), 2015
Research Project Chief “Developing Water-Chilled Refrigerator from Solar Absorption Refrigeration System, Funded by National Research Council in Thailand, 2015

2008-2014

Lecturer of School of Renewable Energy Technology in Master Science in Renewable Energy Program
Responsible Lecturer in Master of Science Curriculum in Renewable Energy Program
Head of Thermal Energy Technology Research Unit, Expertise: Solar thermal Refrigeration System
Research Project chief “Development of Solar Wall Concrete Collector”, Funded by National Research Council in Thailand, 2014
Research Project Chief “Solar Double Stage Ejector Refrigeration System”, Funded by National Research Council in Thailand, 2014
Research Assistant “Development and Application of Aluminium-Anodized as Absorber for Solar Parabolic Trough Collector System”, Funded by National Research Council in Thailand, 2014
Research Project Chief “Comparative Performance Study of Different Refrigerants used in Single Stage Ejector Refrigeration System”, Funded by Naresuan University, 2013
Research Project Chief “Development of Solar thermal driven ejector refrigeration system” Funded by National Research Council in Thailand, 2011
Research Project Chief “Experimental Investigation of Solar thermal driven single stage refrigeration system” Funded by National Research Council in Thailand, 2010
Research Director “Development and Encouragement of Fuel Cell Industry and Other Appliances, Fuel Cell Economy, Funded by

	<p>Department of Alternative Energy Development and Efficiency, Ministry of Energy, 2009 Committee of Lecturer Council, Naresuan University Graduated Committee for selecting the best quality of Graduated Thesis, Graduated School, Naresuan University Committee of Allocating Research Fund for Graduated Student, Naresuan University</p>
2008-2014	<p>Committee of Lecturer Council, Naresuan Lecturer of School of Renewable Energy Technology (SERT), Naresuan University Teaching Specialist at Naresuan University Bangkok Campus, Renewable Energyb Technology in Master of Science Curriculum</p>
2004-2006	<p>Vice Director of Academic Affairs, School of Renewable Energy Technology (SERT), Naresuan University Committee of Academic Affairs, Naresuan University Executive Committee of Naresuan University Academic Committee of Graduated School, Naresuan University Research Project Director “Design of Solar Mulberry Paper Dryer” Project Researcher “Solar Air Conditioning System” Research Project Adviser “High Pressure Steam Generation from Solar Thermal and Biomass” Research Project Adviser of Internship Foreign Student: Australia, Spain, Netherland etc. Committee of E-Learning Media Production of NU Library Investigation Committee of Solar Demonstration Systems, Energy Park, Naresuan University Committee of NU Student Affairs</p>

International Publication Works

1. **Anan Pongtornkulpanich and Pakasit Hongthong** 2017 “Determination of Properties and Heat Transfer Rate through Building Boundary of Corn Cob Cement Material Applying to be Construction Material”, (Selected Paper) Published in Energy Procedia-Elsevier Journal, Vol.138, pp. 217-222, International Conf. of Alternative Energy in Developing Country and Emerging Economies, AEDCEE, 25-26 May 2017, Pullman King Power Hotel, Bangkok, Thailand
2. **Anan Pongtornkulpanich and Pakasit Hongthong**, 2016 “Experimental Research on Solar Driven Steam Jet Ejector Refrigeration System” **Journal of Basic and Applied Research International**, Vol. 18(3), pp. 174-181.
3. **Anan Pongtornkulpanich and Pakasit Hongthong**, 2016 “Solar-Driven Double-Stage Steam Ejector Refrigeration System”, **Journal of Basic and Applied Research International**, Vol. 18(2), pp. 109-117.
4. **Anan Pongtornkulpanich** 2015 “Solar-Driven Double-Stage Steam Ejector Refrigeration System”, **Advances in Mechanical Engineering (International Journal)**
5. **Anan Pongtornkulpanich**, 2014 “Dynamic Simulation of Solid Adsorption Solar Refrigerator System with AC/CH₃OH as a Working Pair”, **Journal of Energy and Power Engineering (International Journal)**, vol. 6, pp. 459-465.
6. Jedsada Visedmanee, **Anan Pongtornkulpanich**, Sakda Somkin and Anantachai U-Kaew, 2015 “Experiment Investigation of Solar-Driven Double Ejector Refrigeration System”, **International Journal of Renewable Energy (IIRE)**, vol. 10, no.1
7. Kiattisak Sripunabut and **Anan Pongtornkulpanich** 2015, “Theoretical and Experimental Research on Solar-Single Stage Refrigeration System”, **International Journal of Renewable Energy (IIRE)**, vol. 10, no.1

8. Kwanthipa Pandecha and **Anan Pongtornkulpanich** 2015, “Thermal Insulation of Corn Husk as Insulation for Flat Plate solar collector”, **International Journal of Renewable Energy (IIRE)**, vol. 10, no.1

9. Monthol Hussadin and **Anan Pongtornkulpanich** 2015, “Solar-Biomass Drying System for Para Rubber Sheet””, **International Journal of Renewable Energy (IIRE)**, vol. 10, no.1

10. Kasidet Pichayapat, Sukruedee Sukchai, Sahataya Thongsan, **Anan Pongtornkulpanich**, “Emission characteristics of using HCNG in the internal combustion engine with minimum pilot diesel Injection for greater fuel economy”, **International journal of hydrogen energy** 39 (2014) 12182-12186.

11. **Anan Pongtornkulpanich** “Simulation Program for Solar Driven Steam Ejector Refrigeration System” 10th Naresuan Research Conference – Research Networking towards ASEAN Knowledge Development- , 22nd July 2014 Room: QS 2106 Naresuan University Thailand, the 1st Prize for English Oral Presentation of Research Study

12. **Anan Pongtornkulpanich**, Sukruedee Sukchai, Sarayooth Vaivudh, “Simulation Program for Solar Driven Double-Stage Ejector Refrigeration System”, *Nutzung Regenerativer Energiequellen und Wasserstofftechnik* 2014, Energie – Symposium, Fachhochschule Stralsund – University of Applied Sciences, Germany., 6 – 8 November 2014

Visal Veng, Chatchai Sirisamphanwong, **Anan Pongthornkulpanich**, “Solar Concrete Wall Collector”, *Nutzung Regenerativer Energiequellen und Wasserstofftechnik* 2014, Energie – Symposium, Fachhochschule Stralsund – University of Applied Sciences, Germany., 6 - 8 November 2014

13. **Anan Pongtornkulpanich**, and Sukruedee Sukchai, “Comparative performance study of Different refrigerants for single-stage ejection refrigeration system”, *Nutzung Regenerativer Energiequellen und Wasserstofftechnik* 2013, Energie – Symposium, Fachhochschule Stralsund – University of Applied Sciences, Germany., 6 - 8 November 2013

14. **Anan Pongtornkulpanich** and Sukruedee. Sukchai, 2009, “Technology Development and Research on Solar Cooling Systems”, **Proceeding on 16th REGWA Conference-Use of Renewable Energy Sources and Hydrogen Technology**. 4-7th November 2009. FH Stralsund University of Applied Science, Germany.

15. **Anan Pongtornkulpanich**, S. Thepa, M. Amornkitbamrung and C. Butcher, 2008, “Experience With Fully Operational Solar-Driven 10-ton LiBr/H₂O Single-Effect Absorption Cooling System In Thailand”, **Renewable Energy (An International)**, Vol. 33, number 5, May 2008. (Science Direct)

16. **Pongtornkulpanich, A.**, Thepa, S., and Amornkitbamrung, M. 2004. “Exergy Analysis of an ejector combined with absorption heat transformer cycle with using LiBr/H₂O as a working fluid” **Proceedings of the international conference of renewable energy and power quality (ICREPQ’04) 2004**. Barcelona, Spain.

17. **Pongtornkulpanich, A.**, Thepa, S., and Amornkitbamrung, M. 2002. “Analysis of ejector dimensions on performance evaluation of ejector-absorber cycle with using LiBr/H₂O as a working fluid” 1st International conference. **Proceedings of the international conference on village power from renewable energy in Asia**. Naresuan University, Phitsanulok, Thailand. pp: 219-224.

18. Soponronarit, S., **Pongtornkulpanich, A.** and Prachayawarakorn, S., 1997. “Drying Characteristics of corn in fluidized bed dryer” **Drying Technology (An International Journal)** 15(5):1603-1615.

19. Soponronarit, S., **Pongtornkulpanich, A.** and Prachayawarakorn, S., 1997. “Corn quality after drying by fluidization technique at high temperature” **Drying Technology (An International Journal)** 15(10):2577-2586.

Outstanding Works and Pride

2004-2009

- ❖ Selected to be an Thai Awardee joining with The Project of ASEM-DUO Fellowship Thailand Phase II/2009 Funded by The High Education Commission to cooperate the research and teach

the Scholarship Foreign Student about Renewable Energy Technology between Naresuan University, Thailand and FH Stralsund University of Applied Science, Germany duration of 1 month of October

- ❖ Selected to be a member to design strategic renewable energy plan for 15 years in parts of Biomass and Biofuel which was accredited by Minister of Energy, 2008
- ❖ Accredited to be a Vice Director of Academic Affairs, School of Renewable Energy Technology which work about developing Master and PhD Curriculum in Renewable Energy Technology for Students
- ❖ Selected to be Thai Representative accredited as National Productivity in Council of Thailand (NPC-Thailand) to join Workshop on Green Productivity and Renewable Energy to bring obtained knowledge for developing efficient renewable energy technology and augment the highest potential of energy utilization in Thailand
- ❖ Delivered a Certificate and invited to present research work in “International Conference of Renewable Energy and Power Quality (ICREPQ’04), Barcelona, Spain, entitled “Exergy Analysis of an Ejector combined with Absorption Heat Transformer Cycle”
- ❖ To be a representative of University to lecture and provide the knowledge, encourage and disseminate the utilization of energy to interesting people through as the following ways:
 - 1 Thai Television and Broadcasting Ch.11
 - 2 FM 107.25 MHz of Naresuan University
 - 3 Local Newspaper and Medias
- ❖ To be a Representative to join the meeting of United Nation (UN) to brainstorm, plan the strategy and promote the research project about Clean Development Mechanism to mitigate Green House Gas Emission Funded by Ministry of Natural Resources and Environment and Thailand Research Fund