

Curriculum Vitae

Personal Detail

Name: Surachai Narrat Jansri, Ph.D.
Age: 37-year-old
Date of Birth: July 9, 1981
Gender: Male
Nationality: Thai
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Religion: Buddhism
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Education

Year	Institute	Educational Background
2008-2012	The Joint Graduate School of Energy and Environment King's Mongkut University of Technology Thonburi, Thailand	Ph.D. (Energy Technology)
2005-2007	Faculty of Engineering Prince of Songkla University, Thailand	M.Eng. (Mechanical Engineering)
2000-2003	Faculty of Education Kasetsart University, Thailand	B.Ed. (Chemistry)

Project/Thesis

Degree	Project/Thesis
Doctoral's Degree	Design of Two-Stage Continuous Reactor for Producing Methyl Ester from High Free Fatty Acid Mixed Crude Palm Oil
Master's Degree	Kinetics of Methyl Ester Production from Crude Palm Oil by Using Acid-Alkali Catalyst
Bachelor's Degree	Water Qualification Analysis of Kasetsart University's Water Resources

Specialist

1. Biodiesel Production Technology
2. Energy Technology for Community
3. Carbon Footprint

National Conference

1. Prateepchaikul, G. and **Jansri, S.** (2008), The Reduction of Free Fatty Acid in Mixed Crude Palm Oil via Esterification (in Thai), PEC 6, Faculty of Engineering, Prince of Songkla University, Hat Yai, Songkhla province, Thailand [May 8-9, 2008].

2. **Jansri, S.** (2015), Re-esterification: A Pretreatment Method of Free Fatty Acid in Biodiesel Feedstock (in Thai), E-NETT 2015, Chonburi province, Thailand [June 17-19, 2015].
3. **Jansri, S.** (2015), Feasibility Study for Preparation Vegetable Oil as Biodiesel Feedstock via Re-esterification (in Thai), ME-NETT 2015, Nakhonrachasima province, Thailand [July 1-3, 2015].
4. **Jansri, S.N.,** Jammanee, P., Pattanaphumchai, P., Srichum, W., Kaewmoonsri, C., Lanphukioew, M. and Kaewluan, S. (2017), *Thunbergia laurifolia* Lindl. Drying through Indirect Forced Convection Cabinet Solar Dryer (in Thai), TREC10, Phattalung province, Thailand [November 29 – December 1, 2017].
5. Udomariyasap, P. and **Jansri, S.N.** (2018), Prototype the Application of Solar Cell for drying *Cyperus Papyrus* (in Thai), EENET2018, Kanchanaburi province, Thailand [May 1-3, 2018].

International Conference

1. **Jansri, S.** and Prateepchaikul, G. (2007), Transesterification Reaction Modeling of Soybean Oil and Palm Oil, International Conference on Agricultural, Food and Biological Engineering & Post Harvest/Production Technology, Khon Kaen province, Thailand [January 21-24, 2007].
2. **Jansri, S.** Prateepchaikul, G. and Ratanawilai, S.B. (2010), Estimation of n Tank of Continuous Stirred Tank Reactor in Series for Producing Methyl Ester from Mixed Crude Palm Oil, Technology and Innovation for Sustainable Development International Conference, Nong Khai province, Thailand [March 4-6, 2010].
3. **Jansri, S.** and Prateepchaikul, G. (2010), The Comparison between the Biodiesel Productions from Crude Coconut Oil by Saponification followed by Transesterification and the Two-Stage Process, International Conference on Applied Energy, Singapore [April 21-23, 2010].
4. **Jansri, S.** and Prateepchaikul, G. (2010), The Investigation of Simulation for Verification the Design of Continuous Reactor for Reducing High Free Fatty Acid Mixed Crude Palm Oil via Esterification, Renewable Energy 2010, Yokohama, Japan [June 27- July 2, 2010].
5. **Jansri, S.** and Prateepchaikul, G. (2010), The Verification of n Tank of Continuous Stirred Tank Reactor Estimation for Producing Methyl Ester from Mixed Crude Palm Oil by the Two-Stage Process, the 7th IMT-GT UNINET and the 3rd International PSU-UNS Conferences on Bioscience, Hat Yai, Songkla province, Thailand [October 7-8, 2010]
6. **Jansri, S.** (2015), Preparation Vegetable Oil as Biodiesel Feedstock via Heterogeneous Catalyst Re-Esterification, 2015 International Conference on Alternative Energy in Development Countries and Emerging Economies, Bangkok, Thailand. [May 28-29, 2015].
7. **Jansri, S.N.,** Marasri, J., Kumlungmak, N., Bonsuntia, S., Saardchom, H. and Junkum, J. (2018), Comparative studies on thermal performance of biomass gas stove and traditional cooking stoves, ASEAN Bioenergy and Bioeconomy Confernce 2018, Bangkok, Thailand. [June 7, 2018].
8. **Jansri, S.N.,** Taluengjit, N., Pothacharoen, W. and Setthapun, W. (2018), The design and fabrication of heat exchanger system for production hot water using hot air from exhaust pipe of biomass burner, ASEAN Bioenergy and Bioeconomy Confernce 2018, Bangkok, Thailand. [June 7, 2018].

Nation Publication

1. Kaewluan, S., Chantosi, D., **Jansri, S.** and Piyarat, W. (2013), Performance Testing of 20 kW Biomass Gas Stove, SWU Engineering journal, 8, 1, 24-33.

2. **Jansri, S.**, Niseng, S., Tanthai, P. and Prateepchaikul, G. (2015), 150-Liter Batch Biodiesel Production from High Free Fatty Acid Oil: A System with Short Reaction Time, *Journal of Chaiphum Rajabhat University Research*, **1**, 2, pp. 6-20.
3. **Jansri, S.N.** and Boonpok, A. (2017), Carbon Footprint for Production of Banana Crisps (in Thai), *Journal of Engineering, RMUTT*, **15**, 1 pp. 43-39.
4. **Jansri, S.N.** (2017), A Study on Performance of a Solar Biomass Hybrid Dryer for Agricultural Product (in Thai), *SWU Engineering Journal*, **12**, 1, pp. 1-10.
5. **Jansri, S.N.** (2017), The Assessment of Greenhouse Gas Emission for Pickled Fish Chilli paste (in Thai), *RMUTSV Research Journal*, **9**, 2, pp. 191-196.

International Publication

1. **Jansri, S.**, Prateepchaikul, G. and Ratanawilai, S.B. (2007), Acid-catalyzed esterification: a technique for reducing high free fatty acid in mixed crude palm oil, *Kasetsart Journal (Natural Science)*, **41**, 3, pp.555-560.
2. **Jansri, S.** and Prateepchaikul, G. (2011), The Comparison of Procedure and Cost Analysis for Biodiesel Production from High Free Fatty Acid Crude Coconut Oil via Saponification followed by Transesterification and the Two-Stage Process, *Kasetsart Journal (Natural Science)*, **45**, 1, pp. 110-119.
3. **Jansri, S.** and Prateepchaikul, G. (2011), The Enhancement of the Two-Stage Process for Producing Biodiesel from High Free Fatty Acid Mixed Crude Palm Oil, *Kasetsart Journal (Natural Science)*, **45**, 6, pp. 1094-1104.
4. **Jansri, S.** and Prateepchaikul, G. (2011), Kinetics of Methyl Ester Production from Mixed Crude Palm Oil by Using Acid-Alkali Catalyst, *Fuel Processing Technology*, **92**, pp. 1543-1548.
5. **Jansri, S.** (2015), Preparation of Vegetable Oil as Biodiesel Feedstock via Re-Esterification: A Suitable Catalyst, *Energy Procedia*, **79**, pp. 143-148

Patent/Petty Patent

1. Petty Patent Number 6591: Two-Stage Continuous System for Producing Biodiesel (in Thai) (September 9, 2011)
2. Petty Patent Number 13139: Hybrid solar and biomass dryer for agricultural product (in Thai) (August 18, 2017)

Observe Activity and/or Training

Topic	Location	Date
Staff Visitor	Universiti Teknologi MARA Shah Alam, Malaysia	November 8, 2017- December 2017
ISO Practitioner	Faculty of Engineering Srinakharinwirot University	April 23-27, 2012
Logistic	Magdeburg, Germany	October 14-24, 2009
SolidWorks	Faculty of Engineering	March 3-7, 2008

	Prince of Songkla University	
New Entrepreneurs Creation "Biodiesel"	Faculty of Engineering Prince of Songkla University	April 20-25, 2006
English Conversation	Faculty of Engineering Prince of Songkla University	January 9 – February 16, 2006

Experience

Date	Position	Institute/Company	Job Description
Present	Lecturer	Chiang Mai Rajabhat University	-Lecturer
September 2012- September 2017	Lecturer	Chaiyaphum Rajabhat University	-Lecturer
June 2012 – October 2012	Administration Officer	SWU Academic Outreach Services Srinakharinwirot University	-Reporting Project -Researcher
July – November 2012	Biodiesel consultant	Department of Alternative Energy Development and Efficiency Ministry of Energy and Frontier Engineering Consultant Co.,Ltd.	-Visiting Biodiesel Plants -Consulting Plants for Reducing Biodiesel Production Investment Cost to More than 700,000 B/Y
March – June 2012	Project secretary	Innovation Center of Engineering Energy and Environment Srinakharinwirot University	- Reporting Project
April 2008 – March 2012	Assistant Researcher	Energy Research Center Department of Mechanical Engineering Faculty of Engineering Prince of Songkla University	- Research Assistant -Community Biodiesel Project Assistant -Kroovijai Project Assistant (Energy)
October 2008- September 2009	Lecturer	Agricultural Mechanization Rajamangala University of Technology Srivijaya Rattphum college	- Lecturing in General Chemistry and Palm Oil Technology
October 2004- March 2005	Lecturer	Department of Chemistry Faculty of Science and Technology Suratthani Rajabhat University	- Lecturing in General Chemistry, Organic Chemistry and Quantitative Chemistry
May 2004- October 2004	Teacher	Phuketwittayalai School	- Teaching in Science

References

1. Assoc. Prof. Gumpon Prateepchailul

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2. Asst. Prof. Dr. Sukritthira B. Ratanawilai

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3. Asst. Prof. Dr. Naruemon Yutakom

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