CURRICULUM VITAE

Dr. MOHD ADNIN BIN HAMIDI
Ph.D. (April 2013~March 2016)
Thermal Engineering Lab,
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Brief Spotlight of the Research Areas, Technologies and Skills Possessed

1. Ignition Mechanism for various fuel mixtures
2. Homogenous Charge Compression Ignition (HCCI) Engine Mechanism
3. 0-D and 3-D (Control Fluid Dynamics) analysis for ignition process

Academic Credentials

- **Ph.D.** Thermal Engineering Lab, Department of New Energy System Science, Graduate School of Science and Engineering, University of Toyama, **Japan** (April 2013~March 2016)
- **Master of Engineering,** Mechanical and Intellectual Systems Engineering, Graduate School of Science and Engineering for Education, University of Toyama, **Japan** (April 2011~March 2013)
- **Bachelor of Engineering,** Mechanical and Intellectual Systems Engineering, Faculty of Engineering, University of Toyama, **Japan** (April 2007~March 2011)
- **Special Entrance Japanese Study Program,** Fundamental of Pure Science Faculty, University of Malaya, **Malaysia** (April 2005~March 2007)
- **Malaysia General Examination,** Sultan Alam Shah Islamic College, **Malaysia** (January 2003~December 2004)

Doctoral (PhD) Research Experience

- Ignition Mechanism Analyzed through Transient Species Measurements and its Correlation with 0-D and 3-D Simulations for PRF and Toluene/ n-Heptane Mixture

Masters Research

- Comparison of PRF and Toluene/n-Heptane Mixture in the Mechanism of Compression Ignition Using Transient Species Measurements and Simplified Model Analysis

RESEARCH/THESIS/PUBLICATIONS EXPERIENCE

	Date	Title	Level
1.	August 30th 2011	Chemical Kinetic Mechanism of Compression Ignition Derived from Intermediate Species for PRF and Toluene/n-Heptane Fuel Systems (Second Author)	2011 JSAE/SAE International Powertrains, Fuel & Lubricants Meeting
2.	March 2011	Investigation of Compression Ignition by means of Exhaust Gas Analysis from a Variable Compression Ratio Engine	Bachelor Degree Thesis
3.	September 11th 2011	Comparison of PRF and Toluene/n-heptane Mixture Fuel in The Mechanism of Compression Ignition Using Exhaust Gas Analysis and Simplified Model Investigation. (Second Author)	Annual Meeting of Japan Society of Mechanical Engineering (JSME) 2011
4.	July 23rd 2012	Comparison of PRF and Toluene/n-heptane Mixture in the Mechanism of Compression Ignition Using Transient Species Measurements and Simplified Model Analysis (First Author)	International Conference in Modeling and Diagnostics For Advanced Engine Systems COMODIA 2012

5.	9-12th September 2012	Comparison of iso-octane and toluene as a high octane number component in the chemical of compression ignition －Exhaust gas analysis－	Annual Meeting of Japan Society of Mechanical Engineering JSME 2012
6.	31st October-2nd November 2012	Measurements of Transient Species and Analysis of Their Role in Low Temperature Heat Release in Compression Ignition. (First Author)	23rd Internal Combustion Symposium JSME
7.	March 2013	Comparison of PRF and Toluene/n-Heptane Mixture in the Mechanism of Compression Ignition Using Transient Species Measurements and Simplified Model Analysis	Master Degree Thesis
8.	12th April 2014	Ignition Mechanism Analyzed through Transient Species Measurements and its Correlation with 0-D and 3-D Simulations for PRF and Toluene/ n-heptane Mixture (IJETT), V29(6),281-283 November 2015. ISSN: 2231-5381. Doi: 10.14445/22315381/IJETT-V29P252	Proceedings of the Fifty-Second Symposium (Japanese) on Combustion

9.	9th September 2015	PRF and Toluene/n-heptane Mixture Comparison in HCCI Mode Ignition Using Transient Species Measurements and Simplified Model Analysis, Supported by 0-D and 3-D Simulations SAE Technical Paper 2015-01-1787, 2015, Doi: 10.4271/2015-01-1787	2015 Powertrains, Fuels and Lubricants International Meeting
10.	March 2016	Ignition Mechanism Analyzed through Transient Species Measurements and its Correlation with 0-D and 3-D Simulations for PRF and Toluene/ n-Heptane Mixture	Doctorate Degree Thesis

Professional Memberships

- ⇨ Member of Japan Society of Mechanical Engineers
- ⇨ Member of Japan Society for Design Engineering

Teaching/ Mentoring Experience

- ⇨ Research assistant -University of Toyama

Manuscripts in Preparation

- ⇨ **Mohd Adnin et al.,** The Behavior of Low Temperature Oxidation for High and Low Octane Number Fuel in Hot Suppressed Condition

Personal Dossier

- ⇨ Date of Birth: 26th June 1987
- ⇨ Citizen: Malaysia
- ⇨ Languages Known :
  - o Malay (Scored A1 in Malaysia General Examination, SPM)
  - o English (Scored A1 in Malaysia General Examination, 915 in TOEIC and 98 in TOEFL)
  - o Japanese (Fluent in Speaking, Writing and Reading)
  - o Arabic (A2 in Malaysia General Examination, SPM)

Date: 15th February 2016 **(Dr. Mohd Adnin Bin Hamidi)**