



Dr. Mohd Hazwan bin Yusof  
Sr.Lecturer  
Faculty of Mechanical Engineering,  
Universiti Malaysia Pahang,  
26600 Pekan, Pahang,  
MALAYSIA.  
Tel: +609-424 6206, Fax: +609-424 6222  
Email: [mohdhazwan@ump.edu.my](mailto:mohdhazwan@ump.edu.my)  
Google Scholar : [jackeem87@gmail.com](https://scholar.google.com/citations?user=jackeem87)

## Academic Qualification

**Ph.D. Kagoshima University, Japan**  
**M. Eng Kagoshima University, Japan**  
**B. Eng Kagoshima University, Japan**

## Brief Profile

**Name : Mohd Hazwan bin Yusof**  
**Year of Birth : 1987**

## Expert Area

Vortex Tube, Heat Transfer, Fluid Dynamics

## Research Interest

Refrigeration, Air Conditioning, CFD

## Professional Qualification / Membership / Affiliation / Experience

Member of The Japan Society of Mechanical Engineering (JSME) since 2009 until 2015

## Teaching Experience

2015/2016 Fluid Mechanics  
2015/2016 Statics  
2015/2016 Thermodynamics  
2014/2015 Air Conditioning and Refrigeration  
2014/2015 Mechanical Laboratory 1

## List of Publications

Hiroshi Katanoda, Mohd Hazwan bin Yusof, Hiromitsu Morita, Energy separation mechanism in unconfined laminar compressible vortex, International Journal of Refrigeration, vol. 59, pp.115-123, 2015

Mohd Hazwan bin Yusof, Hiroshi Katanoda, Hiromitsu Morita, Temperature and pressure measurements at cold exit of counter-flow vortex tube with flow visualization of reversed flow, Journal of Thermal Science, vol. 24, no. 1, pp. 67-72, 2015

## Awards / Research / Achievements

Designated as a Kagoshima University Network Ambassador

## List of Course / Conference Attended

Mohd Hazwan bin Yusof, Hiroshi Katanoda, Mixing Temperature Measurement of Swirl Cold Flow Exiting Cold Exit of Vortex Tube, Proceedings of UTP-UMP Symposium on Energy Systems 2015, 5 pages

Mohd Hazwan bin Yusof, Hiroshi Katanoda, Effects of Inlet Pressure and Cold Fraction on the Formation of Reversed Flow at Cold Exit of Vortex Tube, Proceedings of 5th Asian Joint Workshop on Thermophysics and Fluid Science, 2014, 5 pages in USB.

Mohd Hazwan bin Yusof, Hiroshi Katanoda, Measurement of Reverse Flow Generated at Cold Exit of Vortex Tube, Proceedings of International Conference on Fluid Mechanics, Heat Transfer and Thermodynamics, 2014, pp. 1248-1251.

Hiroshi Katanoda, Mohd Hazwan bin Yusof, Energy Separation Mechanism in Uni-Flow Vortex Tube Using Compressible Vortex Flow, Proceedings of International Conference on Fluid Mechanics, Heat Transfer and Thermodynamics, 2014, pp. 1252-1255.

Keisuke Dei, Mohd Hazwan bin Yusof, Hiroshi Katanoda, Minoru Fukuhara, Pitot Pressure Measurement at Cold Exit of Vortex Tube, Japan Society of Mechanical Engineering Annual Meeting 2014, 4 pages in DVD (In Japanese).

Mohd Hazwan bin Yusof, Kouhei Moritake, Hiroshi Katanoda, Temperature and Pressure Measurements in Cold Flow of Vortex Tube, Proceedings of International Conference on Flow Dynamics, 2013, 2 pages in USB.

Mohd Hazwan bin Yusof, Hiroshi Katanoda, Fukuhara Minoru, Temperature Measurement Method of High Speed Cold Flow of Vortex Tube, Japan Society of Mechanical Engineering Annual Meeting 2012, 5 pages in DVD (In Japanese).

Mohd Hazwan bin Yusof, Hiroshi Katanoda, Effect of Working Gas on the Performance of Vortex Tube, Japan Society of Mechanical Engineering Annual Meeting 2011, 2 pages in DVD (In Japanese).