Curriculum Vitae

Tribology, Where Engineering Meets Science

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DATE OF BIRTH / NATIONALITY:

17th Nov. 1960 / JAPANESE

EDUCATION AND ACADEMIC DEGREES:

2006	Kyush	u University	Fukuoka,	Japan
		Doctor of Engineering, Mechanical Engineering		
1986	Tokyo	Institute of Technology	Tokyo,	Japan
		Master of Engineering, Mechanical Engineering for Production		
1984	Tokyo	Institute of Technology	Tokyo,	Japan
		Bachelor of Engineering, Mechanical Engineering for Production		

WORK EXPERIENCE:

2011-Presen	Kuala Lumpur, Malaysia	
	Professor Malaysia-Japan International Institute of Technological	ogy
2006-2011	Kyushu University	Fukuoka, Japan
	Professor, Assoc. Professor	
2004-2006	Siltronic Japan Corp. (Former Wacker NSCE)*	Yamaguchi, Japan
	Manager, Process Technology	
1997-2004	Wacker NSCE Malaysia Sdn. Bhd. (Former NSCE Malaysia Sdn. accepted to the state of	ysia)* Kedah, Malaysia
	General Manager, Manager, Process Tech. and Equipment N	Maintenance & Utilities
1996-1997	NSCE Corp. *	Yamaguchi, Japan
	Assistant Manager, Inspection Technology	
1994-1996	NEDO *	Tokyo, Japan
	Project Leader of Japanese National Project "Micro Machin	e" etc,
1986-1994	Nippon Steel Corp.	Kanagawa, Japan
	Senior Researcher, Researcher	
	(*be on loan i	from Nippon Steel Corp.)

AWARDS:

- 2013 Tribology Online Awards Best Paper Award, Japanese Society of Tribologists
- Distinguished Presentation Award, Int. HYDROGENIUS and I2CNER Joint Symp. 2011
- 2000 Best Paper Award, Japanese Society of Tribologists
- 1995 Award for Excellent Young Tribologist, Japanese Society of Tribologists

In addition to the above, some organization internal awards have been presented.

PROFESSIONAL BODY MEMBERSHIP:

2011-Present 2011-Present	Malaysian Tribology Society (2013-Present Executive Committee Member) Kyushu University (Research Professor, Guest Professor, World Premiere
2011 1100011	Institute Professor)
2009-Present	The Japan Society of Mechanical Engineers
2005-Present	Society of Tribologists and Lubrication Engineers
2004-Present	The Surface Science Society of Japan
1984-Present	Japanese Society of Tribologists (1996 Journal Editor, 2009-Present English
	Online Journal Editor)

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SELECTED PUBLICATIONS:

Book Chapter

 Kanao Fukuda and Masanori Ueki, "Tribology of Ceramic Matrix Composites against Metals", Composite Materials Series 8, ADVANCES IN COMPOSITE TRIBOLOGY / Elsevier 1993, Edited by Klaus Friedrich, Chapter 7

Journals

- 1) <u>Kanao Fukuda</u> and Takehiro Morita, "Analytical method for temporal changes in repeated sliding phenomena," Procedia Engineering, (accepted)
- 2) <u>Kanao Fukuda</u> and Joichi Sugimura, "Influences of Trace Water in a Hydrogen Environment on the Tribological Properties of Pure Iron," Tribology Online, **8**, 1 (2013) 22-27.
- 3) <u>Kanao Fukuda</u>, "Influencing Factors on the Wear of Materials", J. Japanese Society of Tribologists, **57**, 5 (2012) 327-332. (in Japanese)
- 4) <u>Kanao Fukuda</u>, Masaaki Hashimoto and Joichi Sugimura, "Friction and Wear of Ferrous Materials in a Hydrogen Gas Environment", Tribology Online, **6**, 2 (2011) 142-147.
- 5) <u>Kanao Fukuda</u>, Yoshie Kurono, Naoshi Izumi and Joichi Sugimura, "Influence of Trace Water and Oxygen in a Hydrogen Environment on Pure Fe Friction and Wear", Tribology Online, **5**, 2 (2010) 80-86.
- 6) <u>Kanao Fukuda</u>, Masaaki Hashimoto and Joichi Sugimura, "Effects of Trace Impurities in Hydrogen Environment on Tribological Properties of Steels", J. Japanese Society of Tribologists, **55**, 1 (2010) 53-61. (in Japanese)
- 7) <u>Kanao Fukuda</u>, "Combinational analysis of multi-data obtained in a repeated sliding system", Wear, **264**(2008)499-504.
- 8) <u>Kanao Fukuda</u>, "Analysis of Specimen Displacement in Repeated Sliding System", J. Japanese Society of Tribologists, **49**, 9 (2004) 738-745. (in Japanese)
- 9) <u>Kanao Fukuda</u>, "Friction Force Distribution and Its Alternation with Repeated Sliding", J. Japanese Society of Tribologists, **43**, 9 (1998) 788-795. (in Japanese)

In addition to the above, 97 publications including journal papers, proceedings and reviews have been presented.

PATENTS:

Granted Patents

- 1) US Patent 5278109, "Composite materials for sliding members"
- 2) Japanese Patent 2719275, "Friction force measurement and apparatus"
- 3) Japanese Patent 3973962, "Lapping method and lapping machine"

In addition to the above, 3 patents (1 in US, 2 in Japan) have been granted.

Filed Patents

- 1) Filed in Japan H5-306171, "Tribo-ceramic material"
- 2) Filed in Japan H6-116548, "Sliding parts"
- 3) Filed in Japan H6-308017, "Analysis method on sliding wear and apparatus"
- 4) Filed in Japan H7-238345, "Tribo-material"
- 5) Filed in Japan 2005-277089, "Polisher, polishing pad and polishing method"
- 6) Filed in Japan 2012-176057 "Moisturizing method and moisturizer"

In addition to the above, 9 patents (all in Japan) have been filed.