

## Biographical Data

Institute of Engineering,  
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ผู้ช่วยศาสตราจารย์ ดร. ฐาปนีย์ พัชรวิชนธ์  
**Asst. Prof. Dr. Tapany Patcharawit**

### Education and Competence:

- 2001-2005 Ph.D. (Metallurgy and Materials)  
The University of Birmingham, UK
- 2000-2001 MPhil. (The Science and Engineering of Materials)  
The University of Birmingham, UK
- 1993-1996 B.Sc. (Materials Science)  
Chulalongkorn University

### Present Position:

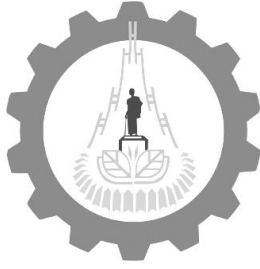
Chair, School of Metallurgical Engineering,  
Suranaree University of Technology

### Work Experiences:

- 2006-Present Lecturer, School of Metallurgical Engineering,  
Suranaree University of Technology
- 2005-2006 Teaching Assistant, School of Metallurgy and Materials,  
The University of Birmingham, UK
- 1998-2000 Research and development, Siam Fine China Co.Ltd.

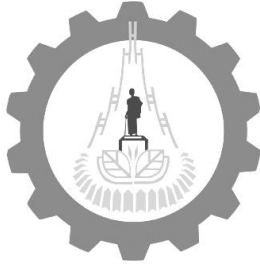
### Research areas:

Aluminium composite, Powder injection moulding, Materials characterization, Mechanical testing of materials, Wear, Fracture mechanics, Fracture micro-mechanisms, Fractography

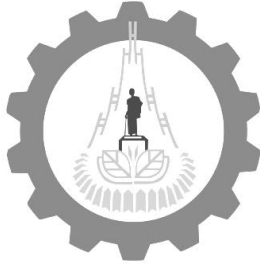


## Publications:

1. **T. Patcharawit**, A. Ngeekoh, U. Kitkhamthorn, N. Chuankrekkul, Liquid-Phase Sintering and Properties of PIMed 10-20 vol.%  $\text{SiC}_p$ -Reinforced Aluminium Composites, D2ME2018, 27<sup>th</sup>- 29<sup>th</sup> September 2018, Deevana Plaza, Phuket, Thailand
2. **T. Patcharawit**, A. Ngeekoh and N. Chuankrekkul, Wear Properties of 10 vol.% Silicon Carbide Particulate-Reinforced Aluminum Composite Fabricated by Powder Injection Molding, The International Conference on Materials and Intelligent Manufacturing (ICMIM 2017), National University of Singapore, Singapore, 21-23 August 2017.
3. **T. Patcharawit**, A. Ngeekoa, W. Tongkerd, S. Takhampom, S. Lapkeaw and N. Chuankrerkkul, Mechanical Properties of As-Exposed Al- $\text{SiC}_p$  Composite Fabricated by Powder Injection Moulding, Key Engineering Materials, Vol. 751, 2017, p. 60-69.
4. A. Ngeekoh, V. Thongnoppakoon, A. Changlor, T. Jindangam, N. Phongreed, **T. Patcharawit**, N. Chuankrerkkul, Microstructure and phase analysis of precipitation hardened silicon carbide particulate-reinforced aluminium composite fabricated by PIM, Proceedings of the 41<sup>st</sup> Congress on Science and Technology of Thailand (STT41), 6-8 November, 2015, Suranaree University of Technology, Thailand. P.293-299.
5. **T. Patcharawit**, V. Thongnoppakoon, A. Changlor, T. Jindangam, N. Phongreed and N. Chuankrerkkul, Effects of Aluminium Alloy Powder Sizes on Aluminium Composites Fabricated by Powder Injection Moulding, Hong Kong International Conference on Engineering and Applied Science (HKICEAS2014), 29 -31 December 2014, Hong Kong.
6. **T. Patcharawit**, S. Klahan, P. Rupkrathok, N. Chuankrerkkul, Effects of Mechanical Alloying on Microstructure and Properties of Powder Injection Moulded  $\text{SiC}_p$ -Reinforced Aluminium Composite, Applied Mechanics and Materials: Advance Materials Development and Applied Mechanics, Vol. 597, 2014, p. 103-108.
7. **T. Patcharawit**, B. Inpanya and N. Chuankrerkkul, Effects of Sintering on Microstructure and Hardness of Powder Injection Moulded Aluminium Composites, Int. J. Materials Engineering Innovation, Vol. 5, No.2, 2014, p. 151-158.



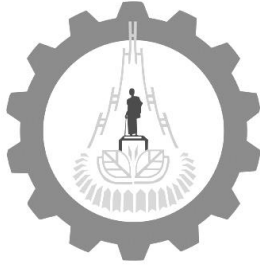
8. **T. Patcharawit**, P. Tongkhon, A. Wiangsamut, P. Ausungnoen, N. Chuankrerkkul, Powder Injection Molding of 20-40 Vol.% Silicon Carbide Particulate-Reinforced Aluminum Composites, *Applied Mechanics and Materials*, Vol. 376, 2013, p. 17-22.
9. B. Inpanya, **T. Patcharawit**, N. Chuankrerkkul, Silicon Carbide Reinforced Aluminum Matrix Composite Fabricated by Powder Injection Molding, The 2<sup>nd</sup> International Conference on Process Engineering and Advanced Materials (ICPEAM2012), 12 - 14 June 2012, Kuala Lumpur, Malaysia.
10. **T. Udomphol**, M. Bunma, R. Buntan, The Fabrication of Aluminium Composites via Stir-Mixed and Particulate-Injection Casting, *Advanced Science Letters*, Vol. 12, No. 1, June 2012 , p. 223-229(7).
11. **T. Udomphol**, B. Inpanya, N. Chuankrerkkul, Characterization of Feedstocks for Injection Molded SiC<sub>p</sub>-Reinforced Al-4.5%Cu Composite, *Advanced Materials Research*, Vols. 383-390, 2012, p. 3234-3240.
12. M. Bunma, P. Subarporn, R. Bobuangern, T. Patthankitdamrong, T.Thuanwong, **T. Patcharawit**, Process Parameter-Microstructure-Mechanical Property Relations of SiC<sub>p</sub>-Reinforced Aluminum Composites Produced by Powder-Injection Casting, *Journal of Metals, Materials and Minerals*, Vol.21, No.2, 2011. p. 85-93.
13. R. Buntan, D. Phuenchomphu, P. Sukmoung, K. Doomao, O. Anunapiwat, **T. Patcharawit**, Mechanical Properties of Stir-Mixed SiC<sub>p</sub>-Reinforced Aluminium Composites, *Journal of Metals, Materials and Minerals*, Vol.21, No.2, 2011. p. 73-83.
14. **T. Udomphol**, R. Borisutthekul, U. Kitkamthorn, P. Buahombura, T. Witchanantakul, N. Akkarapattanagoon, Effects of %CE on microstructure and hardness of cast irons, The 5<sup>th</sup> PSU-UNS International Conference on Engineering and Technology (ICET- 2011), May 2011, Phuket, Thailand.
15. M. Kaewnopparat, and **T. Udomphol**, Investigation of Leak Problems in Automotive Aluminium Alloy Die Casting Via Metallurgical Analysis, 6<sup>th</sup> MSAT, Miracle Hotel, Bangkok, August 2010.



16. K. Thongbai, P. Wichai, P. Mujalin, T. Somsan, P. Buahombura, R. Borrisutthekul, and T. **Udomphol**, Microstructure-mechanical property relations of compacted graphite cast iron The 3<sup>rd</sup> TMETC, Century Park Hotel, Bangkok, October 2009.
17. T. **Udomphol**, and P. Bowen, Microstructure and mechanical properties of electron beam and tungsten inert gas welded burn resistant (BuRTi) Ti-25V-15Cr-2Al-0.2C alloy, PMPIII, TMS, August 2009, Thailand.
18. T. Kumma, K. Teeratatpong, A. Sritong, N. Liamdee, T. **Udomphol**, On the relationship between specimen thickness and graphite morphology of compacted graphite cast iron (CGI), 2<sup>nd</sup> TMETC, Century Park Hotel, October 2008.
19. T. **Udomphol**, and P. Bowen, Micromechanisms of fracture in burn resistant Ti-25V-15Cr-2Al-0.2C alloy, Ti-2003 Science and Technology: 10<sup>th</sup> World Conference on Titanium, 2003, Hamburg, Germany, Lutjering, G., Abrecht, J., WILEY-VCH, Vol.5, p. 2829-2836.
20. T. **Udomphol**, M. Wenman, W. Voice, and P. Bowen, Mechanical properties and fracture mechanisms of burn resistant Ti-25V-15Cr-2Al-0.2C alloys, digital edition, ICF:11th International Conference on Fracture, Carpinteri, A., Mai, Y.W., Ritchie, R.O., Ferro, G. Turino, Italy, 2005.

#### Awards:

1. **Best Oral Presentation**, T. Patcharawit, A. Ngeekoh and N. Chuankrekul, Wear Properties of 10 vol.% Silicon Carbide Particulate-Reinforced Aluminum Composite Fabricated by Powder Injection Molding, The International Conference on Materials and Intelligent Manufacturing (ICMIM 2017), National University of Singapore, Singapore, 21-23 August 2017.
2. **Excellent Oral Presentation**, “T. Patcharawit, P. Tongkhon, A. Wiangsamut, P. Ausungnoen, N. Chuankrekul, Powder Injection Molding of 20-40 Vol.% Silicon Carbide Particulate-Reinforced Aluminum Composites” in 2013 International Conference on Mechanical, Automotive and Materials Engineering, 26-27<sup>th</sup> July 2013, Hong Kong, China.



3. **2<sup>nd</sup> Price Poster Presentation**, “P. Tongkhon, A. Wangsamut, P. Auisungnoen, B. Inpanya, T. Patcharawit, N. Chuankrerkkul, Effects of SiC<sub>p</sub> Additions on Microstructure and Hardness of Powder Injection Molded Aluminium Composite, in the 6<sup>th</sup> Thailand Metallurgy Conference, 5 - 7 December 2012, Holiday Inn, Chaingmai, Thailand.
4. **Runner-Up Price for Poster Presentation**, “T. Witchanantakul, I. Pratumwan, J. Chantarach, R. Chumyen, L. Wintachai, A. Chinnawong, R. Punjamrat, S. Nomthaisong, T. Udomphol, P. Buahombura, N. Akkarapattanaoorn, On the Microstructure-Mechanical Properties Relationships of Gray Cast Iron with 0-2.5wt.% Copper Additions’ in the 4<sup>th</sup> Thailand Metallurgy Conference, 17 – 19 November 2010, The Greenery Resort, Nakhon Ratchasima, Thailand.
5. **Best Poster Presentation in Materials for Automotive session**, “M. Kaewnopparat, and T. Udomphol, Investigation of Leak Problems in Automotive Aluminium Alloy Die Casting Via Metallurgical Analysis” in the Sixth Thailand Materials Science and Technology Conference, 26-27 August, 2010, Miracle Grand Convention Hotel, Bangkok, Thailand.