

Biographical Data

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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:

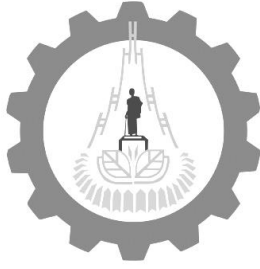
Chair, School of Metallurgical Engineering,
Suranaree University of Technology

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.

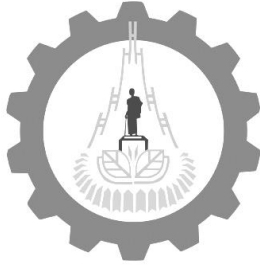
Research areas:

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

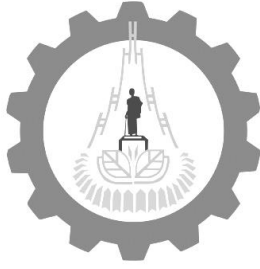


Publications:

1. **T. Patcharawit**, A. Ngeekoh, U. Kitkhamthorn and N. Chuankrekkul, Liquid-Phase Sintering and Properties of PIMed 10-20 vol.% SiC_p-Reinforced Aluminium Composites, 2018 3rd International Conference on Design, Mechanical and Material Engineering (D2ME 2018), MATEC Web of Conferences, vol.237, 02015 (2018), p.9, <https://doi.org/10.1051/matecconf/201823702015>.
2. **T. Patcharawit**, A. Ngeekoh, U. Kitkhamthorn, N. Chuankrekkul, Liquid-Phase Sintering and Properties of PIMed 10-20 vol.% SiC_p-Reinforced Aluminium Composites, D2ME2018, 27th- 29th September 2018, Deevana Plaza, Phuket, Thailand
3. **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.
4. **T. Patcharawit**, A. Ngeekoa, W. Tongkerd, S. Takhampom, S. Lapkeaw and N. Chuankrerkkul, Mechanical Properties of As-Exposed Al-SiC_p Composite Fabricated by Powder Injection Moulding, Key Engineering Materials, Vol. 751, 2017, p. 60-69.
5. 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 41st Congress on Science and Technology of Thailand (STT41), 6-8 November, 2015, Suranaree University of Technology, Thailand. P.293-299.
6. **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.



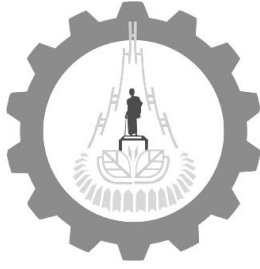
7. **T. Patcharawit**, S. Klahan, P. Rupkrathok, N. Chuankrerkkul, Effects of Mechanical Alloying on Microstructure and Properties of Powder Injection Moulded SiC_p -Reinforced Aluminium Composite, *Applied Mechanics and Materials: Advance Materials Development and Applied Mechanics*, Vol. 597, 2014, p. 103-108.
8. **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.
9. **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.
10. B. Inpanya, **T. Patcharawit**, N. Chuankrerkkul, Silicon Carbide Reinforced Aluminum Matrix Composite Fabricated by Powder Injection Molding, *The 2nd International Conference on Process Engineering and Advanced Materials (ICPEAM2012)*, 12 - 14 June 2012, Kuala Lumpur, Malaysia.
11. **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).
12. **T. Udomphol**, B. Inpanya, N. Chuankrerkkul, Characterization of Feedstocks for Injection Molded SiC_p -Reinforced Al-4.5%Cu Composite, *Advanced Materials Research*, Vols. 383-390, 2012, p. 3234-3240.
13. M. Bunma, P. Subarporn, R. Bobuangern, T. Patthankitdamrong, T.Thuanwong, **T. Patcharawit**, Process Parameter-Microstructure-Mechanical Property Relations of SiC_p -Reinforced Aluminum Composites Produced by Powder-Injection Casting, *Journal of Metals, Materials and Minerals*, Vol.21, No.2, 2011. p. 85-93.
14. R. Buntan, D. Phuenchomphu, P. Sukmoung, K. Doomao, O. Anunapiwat, **T. Patcharawit**, Mechanical Properties of Stir-Mixed SiC_p -Reinforced Aluminium Composites, *Journal of Metals, Materials and Minerals*, Vol.21, No.2, 2011. p. 73-83.



15. **T. Udomphol**, R. Borisutthekul, U. Kitkamthorn, P. Buahombura, T. Witchanantakul, N. Akkarapattanagoon, Effects of %CE on microstructure and hardness of cast irons, The 5th PSU-UNS International Conference on Engineering and Technology (ICET- 2011), May 2011, Phuket, Thailand.
16. M. Kaewnopparat, and **T. Udomphol**, Investigation of Leak Problems in Automotive Aluminium Alloy Die Casting Via Metallurgical Analysis, 6th MSAT, Miracle Hotel, Bangkok, August 2010.
17. 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 3rd TMETC, Century Park Hotel, Bangkok, October 2009.
18. **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.
19. T. Kumma, K. Teeratpong, A. Sritong, N. Liamdee, **T. Udomphol**, On the relationship between specimen thickness and graphite morphology of compacted graphite cast iron (CGI), 2nd TMETC, Century Park Hotel, October 2008.
20. **T. Udomphol**, and P. Bowen, Micromechanisms of fracture in burn resistant Ti-25V-15Cr-2Al-0.2C alloy, Ti-2003 Science and Technology: 10th World Conference on Titanium, 2003, Hamburg, Germany, Lutjering, G., Abrecht, J., WILEY-VCH, Vol.5, p. 2829-2836.
21. **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. 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.



2. **Excellent Oral Presentation**, “T. Patcharawit, P. Tongkhon, A. Wiangsamut, P. Auisungnoen, N. Chuankrerkkul, Powder Injection Molding of 20-40 Vol.% Silicon Carbide Particulate-Reinforced Aluminum Composites” in 2013 International Conference on Mechanical, Automotive and Materials Engineering, 26-27th July 2013, Hong Kong, China.
3. **2nd Price Poster Presentation**, “P. Tongkhon, A. Wangsamut, P. Auisungnoen, B. Inpanya, T. Patcharawit, N. Chuankrerkkul, Effects of SiC_p Additions on Microstructure and Hardness of Powder Injection Molded Aluminium Composite, in the 6th 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. Akkarapattanagoon, On the Microstructure-Mechanical Properties Relationships of Gray Cast Iron with 0-2.5wt.% Copper Additions’ in the 4th 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.