

## Biographical Data

Institute of Engineering,  
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ผู้ช่วยศาสตราจารย์ ดร.อุษณีย์ กิตกัมธร  
**Asst. Prof. Dr. Usanee Kitkhamthorn**

### Education and Competence:

2003-2007 Ph.D. (Metallurgy and Materials Engineering)  
University of Connecticut  
1998-2001 M.Eng. (Metallurgical Engineering)  
Chulalongkorn University  
1995-1998 B.Eng. (Metallurgical Engineering)  
Suranaree University of Technology

### Present Position:

Lecturer, Suranaree University of Technology  
Head, Innovative Processing and Recycling of Metals Research Center

### Work Experiences:

1998-Present Lecturer at School of Metallurgical Engineering,  
Suranaree University of Technology

### Association Member:

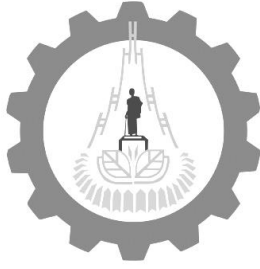
- Academic consultant, Thai Foundry Association
- Secretary/member, Thai Heat Treating Association
- Judiciary Expert in Metallurgical Engineering

### Research areas:

Thermodynamics of materials, Phase transformation, Physical metallurgy,  
Steel production, Electron microscopy

### Publications:

1. P. Mitsomwang, R. Borrisutthekul, **U. Kitkhamthorn** and S. Nagasawa  
“Investigation of Strain Hardening in Aluminum Alloy Sheared Sheet  
Based on Micro Hardness Measurement and Finite Element Analysis”  
The 9th International Conference on Leading Edge Manufacturing in  
21<sup>st</sup> Century (LEM21) November 13-17, 2017, Hiroshima, Japan.



2. A. Panitchagul, R. Noisangiam, P. Tittabutr, N. Teaumroong, **U. Kitkamthorn**, “Thermodynamics of Biosorption of Zn and Cu in Aqueous Solution by Rhodopseudomonas boonkerdii sp. strain NS20 and Bradyrhizobium sp. strain DOA9” International Conference on Advances in Engineering and Technology (ICAET’2014) March 29-30, 2014 Singapore.
3. **U. Kitkamthorn**. “Microstructures of Cu-alloyed ductile cast iron treated by two-step austempering” Solid State Phenomena, Vol. 172-174 Part I, 2011, pp. 573-578.
4. A. Bayrakceken, A. Smirnova, **U. Kitkamthorn**, M. Aindow, L. Turker, I. Eroğlu, C. Erkey, “Vulcan-Supported Pt Electrocatalysis for PEMFCs Prepared Using Supercritical Carbon dioxide Deposition” Chemical Engineering Communications, Volume 196, Numbers 1-2, January 2009, pp. 194-203.
5. **U. Kitkamthorn**, and I. Diewwanit. “Microstructure and Mechanical Properties of Copper Alloyed Austempered Ductile Iron” TMS Annual Meeting, San Francisco, USA 2009.
6. A. Bayrakçeken, A. Smirnova, **Usanee Kitkamthorn**, M. Aindow, L. Türker, İnci Eroğlu and C. Erkey. “Pt-based electrocatalysts for polymer electrolyte membrane fuel cells prepared by supercritical deposition technique” Journal of Power Sources, Vol. 179, No. 2, May 2008, pp. 532-540.
7. A. Bayrakceken, **U. Kitkamthorn**, M. Aindow, and C. Erkey. “Decoration of Multi-Wall Carbon Nanotubes with Platinum Nanoparticles using Supercritical Deposition with Thermodynamic Control of Metal Loading” Scripta Materialia, Vol.56 No.2 2007, pp. 101-103.
8. W. Chonhai, **U. Kitkamthorn** (2013) “Effects of Austenitizing Time on Three – Body Type Abrasion Wear Behavior of Austempered Ductile Iron” SWU Engineering Journal Vol. 8(2), p. 11-20. **U. Kitkamthorn**, L. C. Zhang, and M. Aindow. “The Structure of Ribbon Borides in a Ti-44Al-4Nb-4Zr-1B Alloy”, Intermetallics, Vol. 14 No. 7, 2006, pp. 759-769.

#### Awards:

MSA President Scholars 2006, Microscopy Society of America