

Biographical Data

Institute of Engineering,
Suranaree University of Technology
111 University Avenue, Muang District,
Nakhon Ratchasima 30000
Tel: 0 4422 4704 FAX: 0 4422 4482



wpiyawit@sut.ac.th

อาจารย์ ดร. วราภรณ์ ปิยวิทย์
Dr. Waraporn Piyawit

Education and Competence:

2008-2014 Ph.D. (Materials Science and Engineering)
North Carolina State University, U.S.A.
2001-2004 M.Sci. (Materials Science)
Chiangmai University
1997-2001 B.Sci. (Materials-Jewelry Technology)
Burapha University

Present Position:

Lecturer, Suranaree University of Technology

Work Experiences:

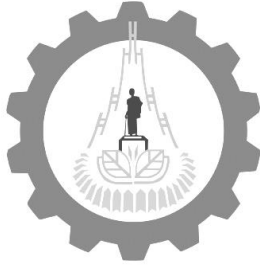
2014-Present Lecturer at School of Metallurgical Engineering,
Suranaree University of Technology
2013-2014 Teaching Assistance, Department of Materials Science and
Engineering, North Carolina State University
2013-2014 Failure Analysis Engineer, Fabrinet Co., Ltd.

Association Member:

- Committee, Microscopy Society of Thailand
- Treasurer, Thai Heat Treating Association
- Member, The Minerals, Metals & Materials Society

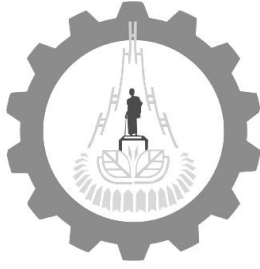
Research areas:

Electron Microscopy, Microstructural analysis, Nanocrystalline materials,
High Entropy Alloys, Severe plastic deformation, Ceramics-metal joining



Publications:

1. **W. Piyawit**, P. Rattanasopa, K. Prompipattanaporn and P. Buahombura, “Contributions of Self-Align Ag Precipitates to Hardening Effects of CuAgZr”, *Regional Conference on Materials & ASEAN Microscopy Conference 2017*, Penang, Malaysia, 2017.
2. **W. Piyawit**, P. Buahombura. “Observation of Ag precipitate in CuAgZr alloy during In-Situ high temperature TEM”, *Solid State Phenomena*, 263 (2017). 50-54.
3. **W. Piyawit**, N. Chuangsang, Y. Prompisarn, P. Rattanasopa, N. Chomsaeng, P. Buahombura. “Effects of Ag Precipitate on the Stress-strain Behaviour of CuAgZr Wires”, *Proceedings of the 34th Microscopy Society of Thailand Annual Conference*, (2017), 74-75.
4. T. Chairuang Sri, S. Nusen, S. Imurai, A. Wiengmoon, **W. Piyawit**, J. TH. Pearce, “Electron Microscopy of M7C3-M23C6-M6C Transition Regions in As-cast Mo-containing 28Cr–2.6C Irons”, *Proceedings of the 34th Microscopy Society of Thailand Annual Conference*, (2017), 56-57.
5. **W. Piyawit**, C. Chanmuang. “Precipitation behavior of plastically deformed CuAgZr alloy”, *Physics Procedia*, 85 (2016), 36-40.
6. **W. Piyawit**, P. Buahombura. “Observation of Ag precipitate in CuAgZr alloy during In-Situ high temperature TEM”, *International Conference of Functional Materials and Steel (ICFMS)*, Hong Kong, 2016.
7. **W. Piyawit**, C. Chanmuang. “Influence of plastic deformation on precipitation behaviors in CuAgZr alloy”. *E-MRS Spring Meeting*, Lille, France, 2016.
8. **W. Piyawit**, P. Buahombura. “Microstructural Investigation of CuAgZr alloy processed by severe plastic deformation”, *11th Asia-Pacific Microscopy Conference*, Phuket, Thailand, 2016.
9. **W. Piyawit**. “Precipitation behavior of CuAgZr alloy: An in-situ heating TEM study”, *8th ASEAN Microscopy Conference and 32nd Annual Conference and Meeting of the Microscopy Society of Thailand*, Nahkon Pathom, 2015.



10. **W. Piyawit**, W.Z. Xu, S.N. Mathaudhu, J. Freudenberger., J.M. Rigsbee, and Y.T. Zhu. “Nucleation and Growth Mechanism of Ag Precipitates in CuAgZr alloy”, *Materials Science and Engineering: A*, 610 (2014), 85-90.
11. **W. Piyawit**, W.Z. Xu, S.N. Mathaudhu, J. Freudenberger., J.M. Rigsbee, and Y.T. Zhu. “Mechanism of Ag Precipitates Formation in Cu-7wt%Ag-0.05wt%Zr alloy”, *TMS Annual Meeting*, San Diego, 2014.
12. **W. Piyawit**, C. Chanmuang, M. Jaimasit, W. Theimsorn, A. Puyusuk, M. Naksata and T. Chairuangstri. “Adhesion of Borosilicate Glass and Fe-Ni-Co Alloy Joined by Direct Fusion: A Revisit”, *Chiang Mai Journal of Science*, Vol. 33, No. 2, 2006.
13. **W. Piyawit** and T. Chairuangstri. “Interfacial Phenomena of An Iron-Nickel-Cobalt Alloy and A Borosilicate Glass”, *The 29th Congress on Science and Technology of Thailand*, Khon Kean, 2003.

Awards:

The Best Presentation Awards “The 11th Asia-Pacific Microscopy Conference 2016”