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Dr. Panya Buahombura

Education and Competence:

2011–2014 D.Eng. (Materials Science)
Nagaoka University of Technology, Japan
2004–2006 M.Eng. (Metallurgical Engineering)
Chulalongkorn University, Thailand
1995–1999 B.Eng. (Metallurgical Engineering)
Suranaree University of Technology, Thailand

Present Position:

Lecturer, Suranaree University of Technology, Thailand

Work Experiences:

2010–Present Lecturer at School of Metallurgical Engineering,
Suranaree University of Technology, Thailand
2006–2008 Process Engineer, Nakornthai Strip Mill (Public) Co., Ltd.
1999–2002 Production Manager, Burapa Steel Co., Ltd.

Association Member:

Member, Thai Heat Treating Association

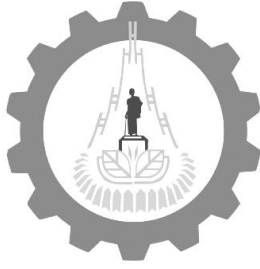
Research Areas:

Fatigue Properties and Fatigue Crack Growth of Materials, Friction Stir
Welding, Physical Metallurgy of Steels, Structures and Properties of
Alloy Steels, Extractive Metallurgy, Metals and Materials Recycling,
High Entropy Alloys, Mechanical Behavior of Metals

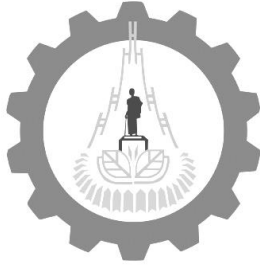


Publications:

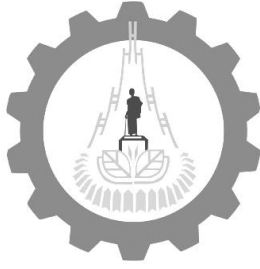
1. **Panya Buahombura**, Anuthai Kareram, Waraporn Piyawit and Sarum Boonmee, “Hydrometallurgical Process for Selective Extraction of Nd and Rare-earth Metals from End-of-Life Hard Disk Drives NdFeB Magnet Scrap”, *Key Engineering Materials*, 845 (2020). 81-86.
2. Sarum Boonmee, Kittirat Worakhut, Phanuphong Phaetphain and **Panya Buahombura**, “Prediction of Chill Formation in Gray Irons by Thermal Analysis”, *Key Engineering Materials*, 845 (2020). 87-93.
3. Palod Limsiri, Pongsakorn Chanapote, Nuttamon Thonthai, **Panya Buahombura** and Waraporn Piyawit, Feasibility Study of High Entropy Alloy (HEA) Production Containing Al-Cr-Cu-Fe-Ni by Using Direct Electric-Arced Method, *Journal of Vongchavalitkul University*, Vol. 32 No. 2 July - December 2019, pp. 71-79.
4. P. Rattanasopa, **P. Buahombura**, W. Piyawit, “Combination Effects of Deformation and Precipitation Hardening on Morphology of CuAgZr Alloy” *Proceedings of the 10th Pacific Rim International Conference on Advanced Materials and Processing*, (2019), 769-775.
5. Pimsiri Rattanasopa, **Panya Buahombura**, Waraporn Piyawit, “Deformation-Induced Martensite in Surface Modified 316L Stainless Steel”, *Proceedings of the 36th MST International Conference*, Bangkok, Thailand (26 – 29 March 2019).
6. เลิศลักษณ์ ศรีคัง, สงบ คำค้อ และ **ปัญญา บัวอมบุรา**, “การรีไซเคิลโลหะตีบจากเศษบัดกรีโดยวิธีอิเล็กโตรไฟนิ่ง”, *The 11th Thailand Metallurgy Conference (TMETC11)*, Pattaya Thailand (November 15 – 16, 2018).
7. เปี่ยมศักดิ์ เหล่าเคน, สงบ คำค้อ, **ปัญญา บัวอมบุรา**, อนุทัย คะเรรัมย์, วรนิษฐา กริตสาริกัน และ อรทัย เบ็ญพาด, “การรีไซเคิลน้ำยาชุบนิกเกิลด้วยไฟฟ้าเชื่อมสภาพด้วยวิธีอิเล็กโตรวินนิ่ง”, *The 11th Thailand Metallurgy Conference (TMETC11)*, Pattaya Thailand (November 15 – 16, 2018).



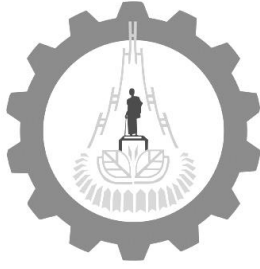
8. Piyawit W., Limsiri P., Chanapote P., Thonthai N. and **Buahombura P.**, “Microstructural Investigation of AlCrFeNiCu Quinary Alloy”, The 11th Thailand Metallurgy Conference (TMETC11), Pattaya Thailand (November 15 – 16, 2018).
9. Kareram A., Muktawat K., Lueangsod C., Patcharawit T., Khumkoa S., Piyawit W. and **Buahombura P.**, “Recycling of Spent Li-ion Battery by applying Hydro-and-Electrometallurgical Process”, The 11th Thailand Metallurgy Conference (TMETC11), Pattaya Thailand (November 15 – 16, 2018).
10. Tawatchai Intaing, **Panya Buahombura** and Rattana Borrisutthekul, “The Study of A6063-T831 Friction Stir Welding”, KMUTT Research and Development Journal, Vol. 41, No. 3, July-September 2018, pp. 282-297.
11. Waraporn Piyawit, Pisit Sawananusorn, Loeslakkhana Srikhang, **Panya Buahombura**, Narong Akkarapattanagoon, Tapanee Patcharawit and Sakhob Khumkoa, Selective Extraction and Recovery of Rare Earth Metals (REMs) from NdFeB Magnet Grinding Sludge, The Minerals, Metals & Materials Society 2018, B. Davis et al. (eds.), Extraction 2018, The Minerals, Metals & Materials Series, pp. 2399-2407.
12. ชวัชชัย อินทรีย์, **ปัญญา บัวสมบุรา** และ รัตน บริสุทธิกุล. การศึกษาการเชื่อมเสียดทานแบบกวนอลูมิเนียม 6063. การประชุมวิชาการเครือข่ายวิศวกรรมเครื่องกลแห่งประเทศไทย ครั้งที่ 31. จังหวัดนครนายก ประเทศไทย. 4-7 กรกฎาคม 2560.
13. Tawatchai Intaing, **Panya Buahombura** and Rattana Borrisutthekul, Friction Stir Spot Welding of Aluminum Alloy and Polyethylene, The 13rd International Conference on Ecomaterials (ICEM13), Bangkok, Thailand (November 19-23, 2017).



14. W. Piyawit, **P. Buahombura**, “The Effect of Ag Precipitates on Strength and Ductility of CuAgZr Alloy”, Suranaree Journal of Science and Technology (SJST), 24(3):291-299, 2017.
15. W. Piyawit, **P. Buahombura**, “Observation of Ag precipitate in CuAgZr alloy during In-Situ high temperature TEM”, Solid State Phenomena, Vol. 263 (2017), pp. 50-54.
16. 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 (RCM & AMC 2017), Penang, Malaysia (December, 2017).
17. Waraporn Piyawit, Niwat Chuangsang, Yuttana Prompisarn, Pimsiri Rattanasopa, Natthapol Chomsaeng and **Panya Buahombura**, “Effects of Ag Precipitate on the stress-strain behaviour of CuAgZr wires”, Proceedings of the 34th MST Annual Conference, Bangkok, Thailand (May 31st – June 2nd, 2017).
18. Loeslakkhana Srikhang, Sakhob Khumkoa, **Panya Buahombura** and Narong Akkarapattanagoon, “A Study on Recycling of Tin Metal from Solder Wire Scrap by Electrorefining” 2017 ICEAI: The 7th International Congress on Engineering and Information, Kyoto, Japan (May 9-11, 2017).
19. W. Piyawit, **P. Buahombura**, “Microstructural Investigation of CuAgZr alloy processed by severe plastic deformation”, 11th Asia-Pacific Microscopy Conference, Phuket, Thailand, 2016.
20. Waraporn Piyawit and **Panya Buahombura**, “Observation of Ag precipitate in CuAgZr alloy during In-Situ high temperature TEM”, 2016 International Conference on Functional Materials and Steel (ICFMS 2016), Hong Kong (December 4-6, 2016).



21. **Panya BUAHOMBURA**, Yukio MIYASHITA, Yuichi OTSUKA, Yoshiharu MUTOH and Seo NOBUSHIRO, “Fatigue Crack Growth Behavior of FSWed Joint Joined with a Bobbin Type Tool in Different Aluminum Alloys”, Applied Mechanics and Materials, Vol. 446-447 (2014), pp. 32-39.
22. **Panya BUAHOMBURA**, Yukio MIYASHITA, Yuichi OTSUKA, Yoshiharu MUTOH and Seo NOBUSHIRO, “Fatigue crack growth behavior in weld nugget zone of FSWed similar and dissimilar aluminum alloys joints”, IJS-JW Friction Based Welding and Processing, ISBN: 978-1-78242-163-4, Woodhead Publishing (2013) pp. 225-230.
23. **Panya BUAHOMBURA**, Yukio MIYASHITA, Yoshiharu MUTOH and Seo NOBUSHIRO, “Fatigue Crack Growth Behavior of FSWed Joint in Different Aluminum Alloys”, Japan Society of Mechanical Engineers Materials and Processing Division 20th Machine Materials and Materials Processing Technology Lecture (M&P2012), Osaka, Japan (November 30-December 2, 2012).
24. Thumrongsak Witchnantakul, **Panya Buahombura**, Sarum Boonmee, and Narong Akkarapattanagoon, “Effects of Copper on Microstructure and Mechanical Properties of Compacted Graphite Irons in As-cast Condition”, The 3rd Thailand Metallurgy Conference, Bangkok, Thailand, 2009.
25. **PANYA Buahombura**, PIYA Kaewnopparat, MAWIN Surpradist Na Ayudhaya, SUVANCHAI Pongsukitwat and Takateru UMEDA, “Numerical Analysis of Near Net Shape Continuous Casting of Aluminum”, Proceedings of the 4th Thailand Materials Science and Technology Conference (MSAT), Bangkok, Thailand, 2006, M12.



26. **PANYA Buahombura**, PIYA Kaewnopparat, MAWIN Surpradist Na Ayudhaya, SUVANCHAI Pongsukitwat and Takateru UMEDA, “Numerical Analysis of Heat Transfer and Solidification Behaviors of a Wheel/Belt Type Continuous Caster of Aluminum”, Proceedings of the 9th Asian Foundry Congress, Hanoi, Vietnam, 2005, pp. 479-486.