

Biographical Data

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Assoc. Prof. Dr.-Ing. Pornwasa Wongpanya

Education and Competence:

2005-2008 D.-Ing. (Mechanical Engineering)
Helmut-Schmidt-Universität, Germany,
2002-2004 M.Eng. (Metallurgical Engineering)
Chulalongkorn University,
1997-2000 B.Eng. (Metallurgical Engineering)
Suranaree University of Technology

Present Position:

Lecturer, Suranaree University of Technology

Work Experiences:

2008-Present Lecturer at School of Metallurgical Engineering,
Suranaree University of Technology

Association Member:

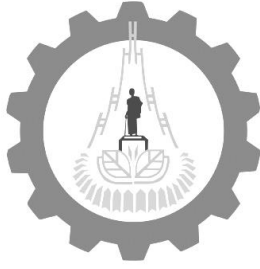
- Thai Corrosion of Metals and Materials Association (TCMA)
- Associate Mining Engineer (Metallurgical Engineering)

Research areas:

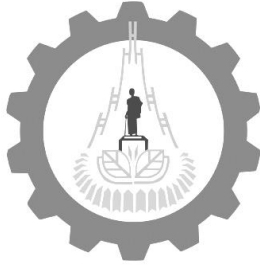
Surface technology, Corrosion of metals, Hydrogen assisted cold cracking
in welded component, Numerical simulation of welded component,
Recycle of metals by pyro- and hydro-metallurgy

Publications:

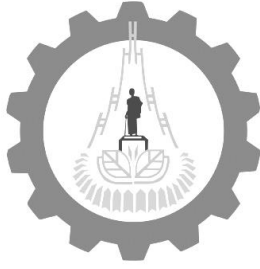
1. N. Konkunthot, S. Tunmee, X.L. Zhou, K. Komatsu, P. Photongkam, H. Saitoh, **P. Wongpanya**, " The correlation between optical and mechanical properties of amorphous diamond- like carbon films prepared by pulsed filtered cathodic vacuum arc deposition", Thin Solid Films 653 (2018) 317-325 Received 14 May 2017; Received in revised form 6 March 2018; Accepted 17 March 2018; Available online 19 March 2018 <https://doi.org/10.1016/j.tsf.2018.03.053>



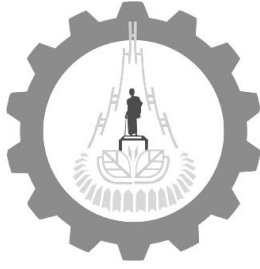
2. S. Tunmee, P. Phothongkam, C. Euaruksakul, H. Takamatsu, X. L. Zhou, **P. Wongpanya**, K. Komatsu, K. Kanda, H. Ito, and H. Saitoh, “Investigation of localized corrosion of diamond-like carbon films using synchrotron-based spectromicroscopy”, *Journal of Applied Physics* 120, 195303, 2016.
3. **P. Wongpanya**, T. Wongpinij, P. Photongkam, C. Euaruksakul, N. Witit-anun, “Effect of the thickness on the microstructure and corrosion behavior of a TiAlN film on 4140 steel”, *Materials Testing*, Vol. 57, No. 5, 2015, pp. 385-392.
4. **P. Wongpanya**, T. Wongpinij, P. Photongkam, C. Keawhan, S. Tunmee, N. Witit-anun, “The corrosion behavior of chromium nitride film on AISI 4140 and H13 steels”, *Suranaree Journal of Science and Technology*, Vol. 22, No. 3, 2015, pp. 231-242.
5. **P. Wongpanya**, S. Tunmee, C. Euaruksakul, P. Songsiriritthigu, N. Witit-Anun “Corrosion Behaviors and Mechanical Properties of CrN Film”, *Advanced Materials Research*, Vols. 853, 2014, pp. 155-163.
6. **P. Wongpanya**, S. Surinphong, J. Rujisomnapa, “Increasing Tool Life by AlCrTiSiN Film”, *Advanced Materials Research*, Vols. 853, 2014, pp. 217-222,.
7. N. Konkhunhot, C. Euaruksakul, P. Photongkam, **P. Wongpanya**, “Characterization of diamond-like carbon (DLC) films deposited by filtered cathodic vacuum arc technique”, *Journal of Metals, Materials and Minerals*, Vol. 23, No. 1, pp. 35-40, 2013.
8. J. Rujisomnapa, Surasak Surinphong, **P Wongpanya**, “A Comparative Study of Wear and Oxidation Behaviors of End Mill Coated by PVD Coatings”, *Advanced Materials Research*, Vols 785-786, 2013, pp. 858-863,.
9. T. Wongpinij, **P Wongpanya**, “Oxidation and Adhesion of Decorative Nickel–Chromium Plating on Ferritic Stainless Steel”, *Advanced Materials Research*, Vols 785-786, 2013, pp. 852-857,.
10. T. Wongpinij, **P. Wongpanya**, C. Euaruksakul, P. Photongkam, N. Witit-anun, “Corrosion Behavior of TiAlN film on AISI 4140 Steel”, *Journal of Metals, Materials and Minerals*, Vol. 23, No. 2, pp. 59-65, 2013.



11. T. Wongpinij, T. U-dom, T. Suptrakun, T. Puttanasun, C. Pimpan, N. Nangnoi, **P. Wongpanya**, “The Oxidation Behaviour of Stainless Steel AISI 409 Coated by Decorative Nickel-Chromium Plating”, *Journal of Metals, Materials and Minerals*, Vol. 22, No. 1, pp. 45-54, 2012.
12. C. Keawhan, P. Songsiriritthigu , N. Witit-Anun, **P. Wongpanya**, “Corrosion Behavior of AISI 4140 Steel Surface Coated by Physical Vapor Deposition”, *Journal of Metals, Materials and Minerals*, Vol. 22, No. 1, 2012, pp. 69-76.
13. S. Tunmee, C. Euaraksakul, P. Songsiriritthigul, N. Witit-Anun, **P. Wongpanya**, “The study of sputtered CrN films on the AISI H13 tool steel”, *Thai Journal of Physics Series 7*, 2011, pp. 92-95.
14. T. Intiang, S. Boonarj, E. Plespanis, **P. Wongpanya**, “Effect of cold work intensity on corrosion behaviour of AISI 304 stainless steel”, *Special Issue of Research Journal of Chemistry and Environment*, 2010, pp. 49-54.
15. S. Paranard, P. Sattarum, K. Photiruk, J. Kumkoonmongkol, **P. Wongpanya**, “Effect of inhibitor content on corrosion behaviour of AISI 1020 carbon steel”, *Journal of Metals, Materials and Minerals*, Vol.20, No.3, 2010, pp. 9-13.
16. K. Sutthiprapa, N. Jumao, W. Srichanchaeng, J. Chatdumrongsakul, **P. Wongpanya**, “Stress corrosion cracking behavior of austenitic stainless steel AISI 304 with cold work severities of 60 and 90 percent reduction in thickness”, *Journal of Metals, Materials and Minerals*, Vol.20, No.3, 2010, pp. 25-29.
17. J. Rujisomnapa, P. Seechompoo, P. Suwannachaoat, S. Suebca, **P. Wongpanya**, “High Temperature Oxidation Behaviour of Low Carbon Steel and Austenitic Stainless Steel”, *Journal of Metals, Materials and Minerals*, Vol.20, No.3, 2010, pp. 31-36.
18. **P. Wongpanya**, “Welding Residual Stresses in Two Competing Single V-Butt Joints”, *Journal of Metals, Materials and Minerals*, Vol.19, No.1, 2009, pp. 67-75.
19. **P. Wongpanya** and Th. Boellinghaus, “Transverse Residual Stress Distribution at Two Interacting Butt Joints Dependent on Restraint Length”, *IW doc. IX-2299-09*.



20. **P. Wongpanya** and Th. Boellinghaus, Residual Stress Distribution in Competing S 1100 QL Butt-Welds Dependent on Plate Thickness and Restraint Length”, Proceeding of Conference on High Strength Steels for Hydropower Plants, 20-22 July 2009, Takasaki, Japan.
21. **P. Wongpanya**, Th. Boellinghaus, G. Lothongkum and H. Hoffmeister, “Numerical Modelling of Cold Crack Initiation and Propagation in S 1100 QL Steel Root Weld”, IIW doc. IX-L-1016-08 and Welding in the World, Volume 53, No. ¾, 2009, pp. R34-R43.
22. **P. Wongpanya**, Th. Boellinghaus, G. Lothongkum and Th. Kannengiesser, “Effects of Preheating and Interpass Temperature on Stresses in S 1100 QL Steel Root Weld”, IIW doc. IX-L-1002-07 and Welding in the World, Vol. 52, No. ¾, 2008, pp. 79-95.
23. **P. Wongpanya**, Th. Boellinghaus and G. Lothongkum, “Numerical Simulation of Hydrogen Removal Heat Treatment in High Strength Structural Steel Welds”, Mathematical Modelling of Weld Phenomena 8, ISBN 978-3-902465-69-6, 2008, pp. 643-665.
24. **P. Wongpanya**, Th. Boellinghaus and G. Lothongkum, “Evaluation of Heat Treatment Procedures for Hydrogen Assisted Cold Cracking Avoidance in S 1100 QL Steel Root Weld”, International Conference of the International Institute of Welding, 6-11 July 2008, Graz, Austria.
25. Th. Boellinghaus and **P. Wongpanya**, “Numerical Analysis of Hydrogen Assisted Cold Cracking in High Strength Steel Welds”, International Hydrogen Conference, Effect of Hydrogen on Materials, 7-10 September 2008, Jackson Lake Lodge, Grand Teton National Park, Wyoming, USA.
26. G. Lothongkum, **P. Wongpanya**, S. Morito, T. Furuhashi and T. Maki, “Effect of Nitrogen on Corrosion Behaviour of 28Cr-7Ni Duplex and Microduplex Stainless Steels in the Air-Saturated 3.5 wt% NaCl Solution”, Corrosion Science Journal, Vol. 48, 2006, pp. 137-153.
27. **P. Wongpanya**, Th. Boellinghaus and G. Lothongkum, “Effects of Hydrogen Removal Heat Treatment on Residual Stresses in High Strength Structural Steel Welds”, Welding in the World, Volume 50, Special Issue 2006, pp. 96-103.
28. **P. Wongpanya**, Th. Boellinghaus and G. Lothongkum, “Ways to Reduce the Cold Cracking Risk in High Strength Structural Steel Welds”, International Conference of the International Institute of Welding, 25-29 May 2008, Johannesburg, South Africa.



Awards:

The Best Presentation Award, “ TMETC Award Oral Presentation of Properties Session”, the 2nd Thailand Metallurgy Conference (TMETC2), 16-17 October 2008, Century Park Hotel, Bangkok, Thailand