Assoc. Prof. Dr. Eng. Ir. Sri Hastuty, ST, MT, M.Eng.

Profile A young, dynamic professional with a unique combination of research experience (more than 20 years) and technical skills, bringing to the table the ability to combine research development with technical applications.

Experienced in material engineering; material selection, engineering mechanics, manufacturing process, heat treatment, welding, electrochemistry, and corrosion field (potentiostatic, potentiodynamic, electrochemical impedance spectroscopy, cyclic voltammetry, and exposure stainless steel in actual atmospheres, including analyzing its data to be meaningful). Familiar with phase diagram (binary and ternary), diffusion of elements, thermal barrier coating, and other subjects related to metallurgy.

Professionals Goals include continuing to grow in knowledge, excel in innovative applications, interact and share with team members and colleagues, and develop world-class research to real-world challenges.

H-Index: 12
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Personal Information

Nationality : Indonesia
Sex : Female
Marital status : Single
Affiliation : **Department of Mechanical Engineering, Universitas Pertamina.**
Jalan Teuku Nyak Arief, Simprug, Kebayoran Lama, Jakarta 12220
Tel. (+62) 21-2904 4308

Certifications

1. Lead Auditor: ISO 55001:2014 Asset Management System (2024)
2. Auditor Life Cycle Analysis (2024)

Education

2009-2012 **Doctoral Degree**
Title: Pitting Corrosion of Ferritic Stainless Steels in Marine Atmospheric Environment.
Major in Dept. Metallurgy and Ceramics Sciences, Tokyo Institute of Technology, Japan.
Building South 8 – 406, 2-12-1, Ookayama, Meguro-ku, Tokyo, Japan. 152-8550.
Tel: +81-3-5734- 3146 Fax: +81-3-5734-3135
Advisors: Prof. Atsushi Nishikata and Prof. Tsuru Tooru.

2007-2009 **Master Degree**
Thesis: Pitting Corrosion of Type 430 Stainless Steel under Droplet of Chloride Solutions.
Major in Dept. Metallurgy and Ceramics Sciences, Tokyo Institute of Technology, Japan. Advisors: Prof. Atsushi Nishikata and Prof. Tsuru Tooru.

2004-2006 **Master Degree**
Thesis: The Behavior of Trisodium Phosphate and Disodium Phosphate Inhibitor on Pitting Resistance of Cr-Mo steel.
Major in Material Engineering, Bandung Institute of Technology, Indonesia.
Advisors: Dr. Slameto Wiryolukito and Dr. Bambang Ariwahjoedi.

1999-2004 **Bachelor Degree**
Thesis: Stress Corrosion Cracking of Stainless Steel in Chloride Solutions.
Major in Material Engineering, Sepuluh Nopember Institute of Technology, Surabaya, East Java, Indonesia.
Advisor: Muchtar Karokaro, MSc.

Working Experiences

1. Post-doctoral Fellow, National Institute for Materials Science (NIMS), Material Reliability, Corrosion Analysis Group. 1-2-1 Sengen, Tsukuba-city Ibaraki 305-0047 JAPAN.
   Research Topics: Hydrogen Permeation, Passive Film of Stainless Steels. June 2012 – Mei 2014.
2. Lecturer, Dept. Physics Engineering, Surya University. Unity Tower Building, Jl. Gading Serpong Boulevard Blok M5 No.21, Curug Sangereng, Kelapa Dua, Tangerang, Banten, Indonesia 15810. June 2014 – Dec 2016.

Commercial Projects

No.	Year	Title	Funding	
			Sources	Amount (in IDR Million)
1	2024	Awareness and Certification of ISO 55001:2014 Asset Management System PT. Pertamina Hulu Energi	PT. Pertamina Hulu Energi	7.000
2	2024	Dekarbonisasi dan Transisi Energi pada Area Operasional PT. Pertamina Internasional EP di Afrika.	PT. Pertamina Internasional EP	590
3	2025	Awareness and Certification of ISO 55001:2014 Asset Management System PT. Pertamina Hulu Energi	PT. Pertamina Hulu Energi	5.000
4	2025	Preliminary Material Selection Study for Water Alternate Gas Injection Service	PT. Pertamina Internasional EP	240

Research Projects

No.	Year	Title	Funding	
			Sources	Amount (in IDR Million)
1	2017	Role of Tungsten, Niobium, and Vanadium on Corrosion Resistance of Austenitic Stainless Steels in Chloride Ion Environment.	Univ. Pertamina	15
2	2018	Evaluation of Natural Fibre Honeycomb Sandwich as Corrosion Resistant Material in On-shore Platforms	Univ. Pertamina – Universiti Teknologi Petronas Collaborative Research	64
3	2019	Characterization of Modified Stainless Steel for High Temperature Applications in Oil and Gas Industries	Univ. Pertamina – Universiti Teknologi Petronas Collaborative Research	84
4	2020	Optimasi Parameter Proses	Univ. Pertamina	40

		Pemesinan Elektro Kimia Pada Baja Tahan Karat AISI 304		
5	2021	Lifetime Prediction of Natural Gas Pipeline Affected by Corrosion of Gas Hydrate	Univ. Pertamina – Universiti Teknologi Petronas Collaborative Research	84
6	2023	Studi dan Mitigasi Penggunaan B40 pada Kendaraan Teknologi Euro4 di Indonesia	Grant Research Sawit 2023-2025 Badan Pengelola Dana Perkebunan Kelapa Sawit (BPDPKS)	7.000
7	2024	Palm Kernel Oil as Biolubricant Base Oil and Corrosion Inhibitor	KEDAIREKA DIKTI 2024 dan PT. Pertamina Persero	1.500
8	2024	Peningkatan Tahanan Korosi Pitting Pada Stainless Steel 201 dengan Metode Surface Treatment menggunakan Asam Sitrat dan Asam Nitra	DIKTI 2024	39

Publications

1. Pitting corrosion of Type 430 stainless steel under chloride solution droplet; Sri Hastuty, Atsushi Nishikata, Tooru Tsuru, Corrosion Science 52 (2010) 2035–2043. Publisher: Elsevier. ISSN: 0010-938X.
2. Pitting corrosion of Type 430 stainless steel in the process of drying of chloride solution layer; Sri Hastuty, Yusuke Tsutsumi, Atsushi Nishikata, Tooru Tsuru, The Iron and Steel Institute of Japan International (ISIJ International), vol. 52, no. 5 (2012). Publisher: The Iron and Steel Institute of Japan. ISSN: 1347-5460.
3. Improvement of Pitting Corrosion Resistance of Type 430 Stainless Steel by Electrochemical Treatment in Concentrated Nitric Acid, Sri Hastuty, Eiji Tada, Atsushi Nishikata, Yusuke Tsutsumi and Takao Hanawa, The Iron and Steel Institute of Japan International (ISIJ International), Vol. 54 (2014), No. 1, pp. 199–205. Publisher: The Iron and Steel Institute of Japan. ISSN: 1347-5460. ISSN: 1347-5460.
4. Hydrogen permeation of iron caused by atmospheric corrosion, Sri Hastuty and Hideki Katayama, AIP Publishing, Melville, New York, International Mechanical Engineering and Engineering Education Conference, Malang, Indonesia, 2016.
5. Synthesis of Alumina Ceramic Encapsulation for Self-Healing Materials on Thermal Barrier Coating, O.P. Golim, N. Prastomo, H. Izzudin, S. Hastuty, R. Sundawa, E. Sugiarti, and K.A.Z

Thosin. Publisher: IOP Journal of Physics: Conference Series AIP Conference Proceedings.

6. Development of $MoSi_2$ Coating with Al Doping by Using High Energy Milling Method, C.M.S. Simanjuntak, S. Hastuty, H. Izzuddin, R. Sundawa, T. Sudiro, A. Sukarto, and K.A.Z. Thosin (2018), Publisher: IOP Journal of Physics: Conference Series.
7. Fabrication of Gas Diffusion Layer from Carbon Ramie Fiber by Hot Press Method, Dimas A. Gumilar, Nanik Indayaningsih, Niki Prastomo and Sri Hastuty (2018), IOP Conference Series: Materials Science and Engineering.
8. Role of Tungsten, Niobium, and Vanadium on Corrosion Resistance of Austenitic Stainless Steels in Chloride Ion Environment, R.M. Andrianingtyas, M.S. Anwar, S. Hastuty, I.D. Widharyanti, A. Dahliyanti, N. Prastomo, E. Mabruri (2018). Publisher: AIP Conference Proceedings.
9. Effect of High Current Density to Defect Generation of Blue LED with Transmission Electron Microscope, Roberto Gunawan, Eni Sugiarti, Isnaeni, R. Ibrahim P., Henry Widodo, A.N. Muslimin, Yuliasari, Ronaldus C.E., Niki Prastomo, Sri Hastuty (2018). Publisher: IOP Journal of Physics: Conference Series.
10. Focused ion beam and advanced electron microscopy for nano defect failure analysis of LED. Roberto Gunawan, Eni Sugiarti, Isnaeni, R. Ibrahim P., Henry Widodo, A.N. Muslimin, Yuliasari, Ronaldus C.E., Niki Prastomo, Sri Hastuty (2018). Publisher: AIP Conference Proceedings.
11. Enhancing surface quality of Zr-Cu-Ni-Ti-Be through hydroxyapatite mixed EDM for potential orthopedic application, Abdul-Rani, A.M., Aliyu, A.A.A., Hastuty, S., Rao, T.V.V.L.N., Ali, S., (2018) AIP Conference Proceedings.
12. Investigation of alloy composition and sintering parameters on the corrosion resistance and microhardness of 316L stainless steel alloy, Sadaqat Ali, Ahmad Majdi Abdul Rani, Khurram Altaf, Patthi Hussain, Chander Prakash, Sri Hastuty, Tadimalla Varaha Venkata Lakshmi Narasimha Rao, Abdul'Azeez Abdu Aliyu, and Krishnan Subramaniam, Advances in Manufacturing II. MANUFACTURING 2019, pp 532-541. Lecture Notes in Mechanical Engineering. Springer, Cham.
13. Behavior of Phosphate Inhibitor on Pitting Corrosion Resistance of Cr-Mo Steel, Hastuty, S., Awwaluddin, M. 2019, IOP Conference Series: Materials Science and Engineering.
14. Chain and Sprocket Analysis of Control Rod Drive Mechanism of HTGR Experimental Power Reactor, M. Awwaluddin, Sri Hastuty, Petrus Z., Putut H. S., Krismawan, Edi S., E. Byan W. R., A. Nugroho, IOP Conf. Series: Journal of Physics: Conf. Series, 1198, (2019) 022053.
15. Considerations of Material Selection for Control Rod Drive Mechanism of Reaktor Daya Eksperimental, Sri Hastuty, Petrus Zacharias, M Awwaluddin, Krismawan, Putut Hery Setiawan, Edy Siswanto, Budi Santoso, Ari Nugroho, Ahmad Majdi Abdul-Rani, IOP Conf. Series: Journal of Physics: Conf. Series, 1198 (2019) 032010.
16. An efficient approach for nitrogen diffusion and surface nitriding of boron-titanium modified stainless steel alloy for biomedical application, Metals 2019, 9, 755;

17. Characterization, adhesion strength and in-vitro cytotoxicity investigation of hydroxyapatite coating synthesized on Zr-based BMG by electro discharge process. A.A. Aliyu, A.M. Abdul-Rani, T.V.V.L.N. Rao, et al., Surface & Coatings Technology, https://doi.org/10.1016/j.surfcoat.2019.04.084
18. B. W. Riyandwita, M. Awwaluddin, and S. Hastuty, Performance evaluation of helical coil heat exchanger with annulus shell side using computational fluid dynamics, AIP Conference Proceedings 2180, 020039 (2019); https://doi.org/10.1063/1.5135548.
19. Optimization of sintering parameters of 316L stainless steel for in-situ nitrogen absorption and surface nitriding using response surface methodology, Processes, MDPI (2020). Sadaqat Ali, Ahmad Majdi Abdul Rani, Riaz Ahmad Mufti, Syed Waqar Ahmed, Zeeshan Baig, Sri Hastuty, Muhammad Al'Hapis Abdul Razak, Abdul Azeez Abdu Aliyu.
20. Electro-Discharge Machining of $Zr_{67}Cu_{11}Ni_{10}Ti_9Be_3$: An Investigation on Hydroxyapatite Deposition and Surface Roughness, Abdul'Azeez Abdu Aliyu, Ahmad Majdi Abdul-Rani, Saeed Rubaiee, Mohd Danish, Michael Bryant, Sri Hastuty, Muhammad Al'Hapis Razak, Sadaqat Ali, Processes MDPI (2020).
21. Biocompatibility and corrosion resistance of metallic biomaterials, Sadaqat Ali, Ahmad Majdi Abdul Rani, Zeeshan Baig, Syed Waqar Ahmed, Ghulam Hussain, Krishnan Subramaniam, Sri Hastuty, Tadamilla VVLN Rao, Corrosion Reviews (2020).
22. Assessment of PM-EDM cycle factors influence on machining responses and surface properties of biomaterials: A comprehensive review, Md Al-Amin, Ahmad Majdi Abdul-Rani, Mohd Danish, Harvey M Thompson, Abdul Azeez Abdu Aliyu, Sri Hastuty, Fatema Tuj Zohura, Michael G Bryant, Saeed Rubaiee, TVVLN Rao, Precision Engineering, (2020)
23. Powder mixed-EDM for potential biomedical applications: a critical review, Md Al-Amin, Ahmad Majdi Abdul Rani, Abdul Azeez Abdu Aliyu, Muhammad Al'Hapis Abdul Razak, Sri Hastuty, Michael G Bryant, Materials and Manufacturing Processes (2020).
24. Mechanism analysis of a main landing gear of transporting aircraft: A design learning perspective, P Kadarno, MA Barrinaya, AO Manurung, BW Riyandwita, S Hastuty, Y Rahmawan, SA Pradanawati, K Widiyati, IS Putra, J Purbolaksono, Engineering Failure Analysis (2021).
25. Effects of NH_4^+, Na^+, and Mg^{2+} ions on the corrosion behavior of galvanized steel in wet–dry cyclic conditions,
Shova Neupane, Sri Hastuty, Neelima Yadav, Nilima Singh, Dipak K Gupta, Brahamdeo Yadav, Sanjay Singh, Nabin Karki, Anju Kumari Das, Vivek Subedi, Krishna B Nakarmi, Amar P Yadav, Materials and Corrosion (2021).
26. The Effectivity of Oil Palm Inhibitor Processed by Aminolysis to Control Corrosion on Steel in Sodium Chloride Environment, Sri Hastuty, Himawan Agus Prasetyo, Norma Nindya Kirana, Agung Nugroho, Haryo Satriya Oktaviano, Muhammad Awwaluddin, Journal of Physics: Conference Series (2021).

27. The Effect of Curing Temperature on the Properties of Kaolin Geopolymer Paste, Farah Farhana Zainal, Fatini Wahida Mah Hussin, Mohd Nasha'ain Nordin, Sri Hastuty, Journal of Physics: Conference Series (2022).
28. Modes I-II-III stress intensity factors of a semi-elliptical surface crack at a round bar under torsion loading by FEM and DBEM, M Barrinaya, M Alfiyuranda, M Ramezani, I Putra, S Ramesh, P Kadarno, S Hastuty, J Purbolaksono. Engineering Solid Mechanics (2022).
29. Evaluation of modified 316L surface properties through HAp suspended EDM process for biomedical application, Md Al-Amin, Ahmad Majdi Abdul-Rani, Masud Rana, Sri Hastuty, Mohd Danish, Saeed Rubaiee, Abdullah bin Mahfouz, Surfaces and Interfaces (2022)
30. Estimation of Steam-Side Scale Growth in Ferritic Alloy Boiler Tubes of Coal-Fired Power Plant, Muhammad Barrinaya, Wei Yeo, Singh Ramesh, Sri Hastuty, Purwo Kadarno, Sylvia Pradanawati, Yose Buys, Judha Purbolaksono, Proceedings of the 1st International Conference on Contemporary Risk Studies, ICONIC-RS 2022.
31. The Effect of Chloride, Sulfate, and Nitrate Anions for Pitting Corrosion Behavior on ASTM A36 Steel in Atmospheric Environment, Sri Hastuty, Judha Purbolaksono, Rifki Yusup, Rahmat Fajtra, , Proceedings of the 1st International Conference on Contemporary Risk Studies, ICONIC-RS 2022.
32. Mechanical Properties and Pitting Corrosion Behavior of Zr-Mo-Al-Ti-Y in Simulated Human Body Fluids, Muhammad Awwaluddin, Djoko Hadi Prajitno, Sri Hastuty, Tresna P Soemardi, ICPER 2020: Proceedings of the 7th International Conference on Production, Energy and Reliability.
33. Corrosion Resistance Enhancement of Stainless Steel Powder Metallurgy in Artificial Body Fluids by Reinforcement of Boron and Niobium, Sri Hastuty, Fandika Reza Ardi Saputra, Byan Wahyu Ryandwita, Muhammad Awwaluddin, Maman Kartaman, Yanlinastuti, Ika Dyah Widharyanti, Ayu Dahliyanti, Haryo Satriya Oktaviano, Sadaqat Ali, Abdul'Azeez Abdu Aliyu, Ahmad Majdi Abdul-Rani, Amar Prasad Yadav, ICPER 2020: Proceedings of the 7th International Conference on Production, Energy and Reliability.
34. Performance Evaluation of Thermal Energy Storage with Phase Change Material in Smooth and Expanded Pipe Flow Using Numerical Simulation, BW Riyandwita, JC Kurnia, S Hastuty, MA Barrinaya, ICPER 2020: Proceedings of the 7th International Conference on Production, Energy and Reliability.
35. Study of pyrolysis kinetics on domestic plastic waste, Nona Merry M Mitan, Merci Fourte Yusuf, Mihai Brebu, MM Sari, Sri Hastuty, AIP Conference Proceedings 2022.
36. Analysis of Electrochemical Machining on Stainless Steel 304 in Natrium Chloride Solution with Ferric Nitrate Addition, Sri Hastuty, Andreas Rimper, Khusnun Widiyati, Purwo Kadarno, Yudi Rahmawan, Muhammad Awwaluddin, Poppy Puspitasari, Proceedings of the International Conference on Sustainable Engineering, Infrastructure and Development, ICO-SEID 2022.

37. Effect of the Addition of Ferric Nitrate on Electrochemical Machining of 304 Stainless Steel in Sodium Nitrate Solution, Sri Hastuty, Diah Pertiwi, Byan Riyandwita, Muhammad Barrinaya, Judha Purbolaksono, Suharti Suharti, Yose Buys, Muhammad Awwaluddin, Proceedings of the International Conference on Sustainable Engineering, Infrastructure and Development, ICO-SEID 2022.
38. Deposition of biomimetic biocompatible oxides on metallic glass surface by electro-discharge coating process, AA Aliyu, AM Abdul-Rani, M Al-Amin, S Hastuty, MA Razak, S Ali, M Danish, S Rubaiee, A Bin Mahfouz, AN Hamza, Materialwissenschaft und Werkstofftechnik 2023.
39. Investigation of Corrosion Behaviour of Mild Steel Embedded in Geopolymer Paste with Curing and Non-Curing Process, Fatin Shahira Shaharudin, Farah Farhana Zainal, Nur Farhana Hayazi, Noraziana Parimin, Nur Izzati Muhammad Nadzri, Sri Hastuty, Andri Kusbiantoro, Archives of Metallurgy and Materials 2023.
40. Stress intensity factors of multi semi-elliptical surface cracks at the external surface of a pipe under internal pressure, Fahrizan Rasyad, S Ramesh, Md Asri Mohammad, Muhammad Akbar Barrinaya, Khusnun Widiyati, Sri Hastuty, Judha Purbolaksono, AIP Conference Proceedings 2023.
41. Corrosion Behavior of Hastelloy C-276 in Hydrochloric and Sulfuric Acid, Sri Hastuty, Anang Widiatmoko, Toto Sudiro, Muhammad Awwaluddin, Poppy Puspitasari, Key Engineering Materials 2023.
42. Design scenario and analysis for preliminary specification of steam generator in the PeLUIt-40, Byan Wahyu Riyandwita, Muhammad Subhan, Topan Setiadipura, Almira Citra Amelia, Sri Hastuty, Purwo Kadarno, Farisy Yogatama Sulistyo, Jurnal Teknologi Reaktor Nuklir Tri Dasa Mega 2023.
43. Analysis of voltage, current density, and welding speed of flux core arc welding on the hardness and micro-structure of high strength low alloy (ASTM A572), MUHAMMAD Ziyad Afkari, SRI Hastuty, MUHAMMAD Akbar Barrinaya, MUHAMMAD Awwaluddin, MOCHAMAD Syaiful Anwar, GAGUS Ketut Sunnardianto, FAISAL Mahmuddin, Key Engineering Materials 2023.
44. Effect of Yttrium on corrosion resistance of Zr-based alloys in Ringer's lactate solution for biomaterial applications, Muhammad Awwaluddin, Sri Hastuty, Djoko Hadi Prajitno, Budi Prasetiyo, Yudi Irawadi, Jekki Hendrawan, Harry Purnama, Eko Agus Nugroho, AIMS Materials Science 2024.
45. Pelatihan Pembuatan Dye-Sensitized Solar Cell (DSSC) Sederhana untuk Siswa SMA Islam Nurul Fikri, Fayza Yulia, Sylvia Ayu Pradanawati, Sri Hastuty, Purwo Kadarno, Yudi Rahmawan, Yose Fachmi, Arie Sukma Jaya, Byan Wahyu Riyandwita, Khusnun Widiyati, Muhammad Akbar Barrinaya, Adhitya Ryan Ramadhani, Farid Muharram, JPP IPTEK (Jurnal Pengabdian dan Penerapan IPTEK) 2024.

46. Linkage design optimization on patient bed mechanical systems using solidworks, Muhammad Awwaluddin, Muhammad Abdul Musthofa, Kusdi Pridjono, Sri Hastuty, AIP Conference Proceedings 2024.
47. Various synthesis routes, surface and magnetic characters of nano-sized Mn0. 8Zn0. 2Fe2O4 particles, Poppy Puspitasari, Nandang Mufti, Sukarni Sukarni, Avita Ayu Permanasari, Sri Hastuty, Jeefferie Abd Razak, AIP Conference Proceedings 2024.
48. Feasibility study of welding wire for low carbon welding on heavy equipment components based on welding strength and microstructure analysis, Dicky Yahya Al-Ayubi, Sri Hastuty, Muhammad Awwaluddin, Farah Farhana Zainal, Nadhif Rahmawan, AIP Conference Proceedings 2024.

Awards

1. Sept 2014 Finalist of L'Oreal – UNESCO for Women in Science, Indonesia.
2. Young Scientist Award of International Conference of Advance and Nanotechnology, Oct 2014, Kathmandu, Nepal. Sponsored by National Institute for Materials Science, Japan.
3. Dec 2010 Best Collaboration Presentation of the 3rd International Forum on Multidisciplinary Education and Research for Energy Science, Ishigaki Islands, Okinawa, Japan.
4. Oct 2007-2012 Scholarship from Japanese Ministry of Education, Culture, Sport, Science, and Technology for Master and Doctoral studies.
5. 2001-2003 Scholarship for Excellent Students in Sepuluh Nopember Insititute of Technology, East Java, Indonesia.

Keynote / Guest Speakers

1. Seminar at Biomedical Technology, Mechanical Engineering, Universiti Teknologi PETRONAS, September 2017.
2. Seminar at Universitas Pertamina (UP Bringing), "Corrosion and Corrosion Control on Stainless Steels", September 2017.
3. Seminar at Universiti Malaysia Perlis (UniMAP), "Corrosion of Electronics", January 2018.
4. Joint International Conference on Nanoelectronics Engineering and Green Materials (BOND21), July 27-28, 2018. Bandung, Indonesia. Held by Universiti Malaysia Perlis (UniMAP).

Proceedings and Abstracts of International Meetings

1. Pitting Corrosion of 430 Stainless Steel under Droplet of Chloride Solutions, Sri Hastuty, Atsushi Nishikata, Tooru Tsuru, October 2008, PRiME 2008/Joint International Meeting; 214th ECS Meeting; 2008 Fall Meeting of The Electrochemical Society of Japan, Hawaii, USA.
2. Pitting Corrosion Behavior of 430 Stainless Steel in Marine Atmospheric Environment, Sri Hastuty, Atsushi Nishikata, Tooru Tsuru, September 2008, the 4th International Symposium on

Marine Corrosion and Control, Tokyo, Japan.

3. Monitoring of Pitting Corrosion Initiation of Stainless Steel in Chloride-containing Environment, Sri Hastuty, Atsushi Nishikata, Tooru Tsuru, September 2009, The 15th Asian Pacific Corrosion Control Conference in Manila, Philippines.
4. Improving Pitting Corrosion Resistance of Ferritic Stainless Steels in Chloride-containing Environment by Electrochemical Method, September 2010, Sri Hastuty, Atsushi Nishikata, Tooru Tsuru, The 5th International Symposium on Marine Corrosion and Control, Institute of Oceanology, Chinese Academy of Sciences, Qingdao, China.
5. Dissolution of MnS Inclusions of Stainless Steel under Cyclic Voltammetry in Chloride Solution, Sri Hastuty, Atsushi Nishikata, Tooru Tsuru, The 1st International Conference on Materials Engineering (ICME) and 3rd Regional Conference on Materials (RCM) 2010, Yogyakarta, Indonesia. November 2010.
6. Improvement of Pitting Corrosion Resistance of Type 430 Stainless Steel Passivated by Potentiodynamic Polarization in Concentrated Nitric Acid, Sri Hastuty, Atsushi Nishikata, Tooru Tsuru, 220th Electrochemical Society Meeting, Boston, USA. October 2011.
7. An Electrochemical Treatment of Ferritic Stainless Steels in Concentrated Nitric Acid for Improving Pitting Corrosion Resistance, March 2, 2012, Sri Hastuty, Yusuke Tsutsumi, Atsushi Nishikata, Tooru Tsuru, The 6th International Symposium on Marine Corrosion and Control, Tokyo Institute of Technology, Tokyo, Japan.
8. Electrochemical Polarization and EIS Characterization of Passive Film of Ferritic Stainless Steels, Sri Hastuty, Hideki Katayama, Eiji Tada, Atsushi Nishikata, The 9th International Symposium on Electrochemical Impedance Spectroscopy (EIS2013), June 2013, Okinawa, Japan.
9. Promotion of Hydrogen Permeation of Iron in Atmospheric Corrosion, Sri Hastuty, Hideki Katayama, 40 years anniversary International Conference Japan Society for Corrosion Engineering, Tokyo, Japan. May 2014.
10. Hydrogen permeation of iron caused by atmospheric corrosion**,** Conference Paper · October 2016. DOI: 10.1063/1.4965797. The International Mechanical Engineering and Engineering Education Conferences (IMEEEC 2016). Malang, Indonesia, October 2016.
11. International Seminar on Metallurgy and Materials 2017, 26-27 September 2018, Jakarta, Indonesia.
12. The Ninth International Symposium on Marine Corrosion and Control, April 23-25, 2018, Key Lab of Marine Environmental Corrosion and Biofouling, Institute of Oceanology, Chinese Academy of Sciences, Qingdao, China.
13. The 6th International Conference on Production, Energy and Reliability (ICPER 2018), 13-14 August 2018, Kuala Lumpur, Malaysia.
14. The 11th International Conference on Fracture and Strength of Solids (FEOFS 2018), 26th – 29th August 2018, Yogyakarta, Indonesia.

Proceedings and Abstracts of Domestic Meetings

1. The Pitting Resistance of SUS 430 Stainless Steel Passivated by Potentiodynamic Polarization in Concentrated Nitric Acid, Sri Hastuty, Atsushi Nishikata, Tooru Tsuru, Japan Society for Corrosion Engineers, at Waseda University, Tokyo, Japan. May 2011.
2. Improvement of Pitting Corrosion Resistance on SUS 430 Stainless Steel With Potentiodynamic Polarization in Concentrated Nitric Acid, Sri Hastuty, Atsushi Nishikata, Tooru Tsuru, Japan Institute of Metals, Fall Meeting 2011, Okinawa, Japan. November 2011.

Others (Multidisciplinary Workshop etc.)

1. Pitting Corrosion of 430 Stainless Steel under Droplet of Chloride Solutions, Sri Hastuty, Atsushi Nishikata, Tooru Tsuru, August 2008, International Summer School, sponsored by Tokyo Institute of Technology, Tokyo, Japan.
2. Monitoring of Pitting Corrosion Initiation of Stainless Steel in Chloride-containing Environment, Sri Hastuty, Atsushi Nishikata, Tooru Tsuru, August 2009, Tokyo Tech Multidisciplinary Student Workshop, Tokyo, Japan.
3. Monitoring of Pitting Corrosion Initiation of Stainless Steel In Chloride Containing Environment, Sri Hastuty, Atsushi Nishikata, Tooru Tsuru, The 2nd International Forum on Multidisciplinary Education and Research for Energy Science, Okinawa, Japan. December 2009.
4. Pitting Corrosion of Type Ferritic Stainless Steel under Droplet of Chloride Solutions, Sri Hastuty, Atsushi Nishikata, Tooru Tsuru, The 2nd Tokyo Tech Multidisciplinary Student Workshop, Tokyo, Japan. August 2010 .
5. Pitting Corrosion of 430 Stainless Steel under a Droplet of Chloride Solutions, August 2010, The 18th Indonesian Scientific Conference, Nagoya University, Nagoya, Japan.
6. The Improvement of Pitting Corrosion Resistance of Ferritic 430 Stainless Steel for Marine Atmospheric Application, Sri Hastuty, Atsushi Nishikata, Tooru Tsuru, The 3rd International Forum on Multidisciplinary Education and Research for Energy Science, Ishigaki Islands, Okinawa, Japan. December 2010.
7. Pitting Corrosion of Stainless Steels under Wet and Dry Cycles in Simulated Marine Atmosphere Environments, Sri Hastuty, Atsushi Nishikata, Tooru Tsuru, Multidisciplinary Education and Research for Energy Science, The 2nd Energy – GCOE Career Development, January 2010.

Internships

1. Oct 2009 – Jan 2010 Corrosion Research at National Institute for Materials Science (NIMS), Tsukuba, Japan.
2. September 2010 Exchange knowledge on Science Communication in Science Museum, London, United Kingdom
3. Jan – Feb 2006 Internship for master thesis topic at PT. Pupuk Kaltim, Bontang, Kalimantan Timur, Indonesia.

Materials Engineering	Corrosion
□ Material Selection □ Engineering Mechanics □ Manufacturing Process □ Heat Treatment □ Welding □ Technical Drawing □ Thermal Barrier Coating	□ Wet-Dry cyclic test with electrochemical options □ Potential transients □ Polarization □ AC corrosion monitor □ Weathering chamber □ Familiar with ASTM Corrosion Test
Mechanical and Non-Destructive Test	**Expertise Electrochemistry**
□ Tensile and Shear test □ Impact test □ Hardness test □ Cracking test □ Fatique Test □ Non-destructive test	□ Standard Electrochemistry □ Pot/galvanostatic measurements □ Pot/galvanodynamic measurements □ Potential and current transients □ Cyclic voltammetry □ Impedance spectroscopy
Professional Techniques	**Other Techniques**
□ Optical Microscope (OM) □ X-ray diffractometry (XRD) □ Scanning Electron Microscope (SEM) □ Energy Dispersive Spectroscopy (EDS) □ Electron Probe Micro-Analysis (EPMA) □ X-Ray Photoelectron Spectroscopy (XPS) □ Atomic Force Microscopy (AFM) □ Scanning Laser Microscopy	□ Static Analysis □ Polishing, molding and etching sample in epoxy □ Metallography □ Glass blowing

Language skill

Indonesia, English (TOEFL Internet Based Test 73), Japanese

References

1. **Atsushi Nishikata, Prof.**

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