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### Academic Qualification

**PhD (Corrosion in Oil and Gas Environments)**, Universiti Teknologi Petronas, Malaysia, Mechanical Engineering Department, Malaysia.

**Msc. (Corrosion Science and Technology)**, University Manchester Institute of Science and Technology, United Kingdom.

**Bsc. (Mechanical Engineering)**, Faculty, Sepuluh Nopember Institute of Technology.

### Working Experiences / Appointment

**Senior Lecturer**, Faculty of Mechanical Engineering, Universiti Malaysia Pahang [July 2012 to present].

**Post Doctoral Research, Corrosion research centre**, Dept. of Mechanical Engineering, Univ. Technology Petronas, Malaysia [February ó July 2012].

**Research Associate**, Dept. of Mechanical Engineering, Univ. Technology Petronas, Malaysia [Jan. 2011 to February 2012].

**Research Scholar and Teaching Assistant**, Mechanical Engineering Dept., University Technology Petronas, Malaysia. [2006 to October 2010]

### Research Interest

Corrosion in CO<sub>2</sub> gas, Corrosion in H<sub>2</sub>S gas, Reinforced Bar Concrete Corrosion, Microbial Corrosion, Corrosion Modeling, Cathodic Protection, Corrosion Inhibitor, Industrial Corrosion, Corrosion in Oil and Gas industrial, Corrosion Inspection, Metallography.

### Research Project/ Grant

#### PROJECT LEADER

1. The Use of Electro-Chemical Noise to Predict Reinforced Bar Concrete (Rebar) (Penggunaan Elektrokimia Noise untuk Mempelajari Jenis-Jenis Korosi Tersembunyi di Beton Bertulang ), University Mataram, Research Grant, 2000.
2. Investigation of Failure in Cathodically Protection of Carbon Steel and 304 Stainless Steel in Seawater (Investigasi Kegagalan Perlindungan Katodik Baja Karbon Rendah dan Stainless Steel di Airlaut), University Mataram Research Grant, 2003.
3. Characterise Reinforced Bar Concrete (Rebar) Corrosion on Seawater Environment (Karakteristik Korosi Beton Bertulang di Lingkungan Airlaut), Higher Education Direktorat, Indonesia Educational Ministry, 2004-2005.

4. Implementation of Cathodic Protection and Epoxy for Reinforced Bar Concrete In Tidal Zone Condition, Higher Education Direktorat, Indonesia Educational Ministry, 2006-2008.
5. Effects of Current Density and Potential Protection to Adhesive Bonding of Concrete Reinforcement during Cathodic Protection, Higher Education Direktorat, Indonesia Educational Ministry, 2006.
6. Development of Test Method For Evaluation of Stress Oriented Hydrogen Induced Cracking (SOHIC) And Soft Zone Cracking (SZC) Resistance In Metallic Alloy, UMP Research Grant, 2012- 2014.
7. Modelling Experimental Work on Erosion and Corrosion of High Stress Steel (AISI-4340) in Oil and Gas Environmental Conditions, UMP Research Grant, 2013- 2015.
8. Develop Solid inhibitor for Hood Corrosion Protection in Automotive Application, UMP Research Grant150372., 2015- 2017.

### **PROJECT MEMBER**

9. A New Venture Into Design and Fabrication of a Novel High Pressure and High Temperature Surface pH Sensor for a Real-Time Corrosion Monitoring, Ministry of Higher Education Malaysia (MOHE), 2012.
10. Fundamental study of corrosion of pipeline materials and advanced corrosion prevention techniques in supercritical CO<sub>2</sub> environment in the presence of H<sub>2</sub>S, Fundamental Research Grant, Utp, 2012 ó 2013.
11. Impact Modelling of Automotive Side member Made of Martensitic Boron Alloyed Steel UMP Research Grant, 2014 - 2015.
12. Pack Cementation Coating to Improve Corrosion Resistance of High Chromium Steels for Boiler Application, 2014 - 2016.
13. Characterization of Biodegradable Composites Based on Pineapple Leaf Fibre and Tapioca Bioplastic Resin, 2014 - 2016..
14. Investigation on Initial Peak Force and Energy Absorption of High Strength Steel Crash Box Having Notch as Initial Trigger Mechanism. RM99440.
15. Characterization of Biodegradable Composites Based on Pineapple Leaf Fibre and Tapioca Bioplastic Resin. RM83000
16. Pack Cementation Coating to Improve Corrosion Resistance of High Chromium Steels for Boiler Application. RM118000..
17. Impact Modelling of Automotive Side member Made of Martensitic Boron Alloyed Steel. 01/12/2013 - 31/05/2016.
18. Investigation on Initial Peak Force and Energy Absorption of High Strength Steel Crash Box Having Notch as Initial Trigger Mechanism. 01/08/2016 - 31/07/2019.
19. ZrO<sub>2</sub> Sol-Gel Coating for the Corrosion Protection of Aluminum. 25/10/2014 - 24/10/2016

### **Consultations**

1. Corrosion inhibitor screening for Petronas Project, June 2012 ó Dec 2012.
2. Corrosion Study of Leakages in PCO<sub>2</sub> Plant at PETRONAS Fertilizer (Kedah) Sdn., Bhd., Feb - April 2011.
3. Manage Pipeline Integrity and Study Corrosion Under Insulation (CUI), Tenaga National Berhad (National Power Plant), April, 2012.
4. Improving scale inhibitor for oil and gas pipelines in Malaysia in collaborate with Dimension sd.Bhd.

5. Sacrificial anode for corrosion protection, with sacrificial anode company, Norimax Sdn.Bhd.

### Professional Qualification / Membership of Professional Body

INDOCOR (Indonesia Corrosion Association)  
NACE International (National Association Corrosion Engineers)  
International Association of Advanced Materials.

### Journal Reviewer

ICMER.  
IJAME.  
SINTEK, Jurnal Mesin Teknologi (Universitas Muhammadiyah Jakarta)  
JAAS (Journal of advanced and applied science).  
International Journal of Material Science Innovations (IJMSI).

### Post Graduate Supervision

#### (MASTER OF ENGINEERING) - MAIN SUPERVISOR)

**Halimi B Abdullah**, *Study on CO<sub>2</sub> Corrosion on mild steel: effects of flow conditions.*  
**Fadzli b Ismail**, *Effects of nano-coolant on erosion corrosion of high carbon steel.*  
Wan Nurlisa Binti Wan Ahmad, *Analysis of Corrosion Rate on Reinforced Concrete in Marine Application.*  
**Noorizal md. Nor**, *Failure Analyses and Corrosion Investigation of Heat Exchanger in BASF SdnBhd.*  
**Anuar**, *Study Mechanism of Corrosion Degradation Under Coating on Car hood.*

### Bachelor Degree – Main Supervisor

**Loh Chai Siah**, 2017/2018. Investigation of Green Volatile Corrosion Inhibitor from Natural Product for Oil And Gas Pipelines.  
**Wan Nur Azza Fatin Binti Wan Zahari**, 2017/2018. Vapor Corrosion Inhibitor to Protect Corrosion In Atmospheric Conditions  
**Sarah Abdullah**, 2017/2018. Corrosion Modelling and Simulation for Stress Corrosion Cracking Under Static Load.  
**Suraj Vijanathan**, 2016/2017, Develop Volatile Corrosion Inhibitor From Natural Product for Atmospheric Conditions.  
**Nabila Adzan**, 2016/2017, Self Release Corrosion Inhibitor for Atmospheric Corrosion.  
**Tie Chee Wee**, 2015/2016, Performance Corrosion Protection Using Zn and Mg Sacrificial Anode.  
**HazrulZurina**, 2015/2016, Modeling Corrosion Distribution on Rig Structure Exposed in Seawater.  
**Loo Kiang Sing**, 2015/2016, Performance Green Inhibitor to Prevent Carbon Steel Corrosion.  
Mohamad Rashif Bin Roslan, 2014/2015, *Study Corrosion Rate on Vehicle Drive Shaft Using Simulation Software.*  
**Wan Mohamad Hanif Bin Wan Sulaiman**, 2014/2015, *The Investigation Revolutionary Pitch of Friction Stir Welding to the Corrosion Behaviour Aluminium Alloy Weldment.*  
**Wong Wai Loon**, 2014/2015, *Erosion Corrosion of Carbon Steel in Oil and Gas Environment.*

**Chew Yong Sheng**, 2014/2015, *Innovative Corrosion Protection in Tidal Zone Using Hydrogel*.

**Mohd Shahrul Zaman Bin Rahili**, 2014/2015, *Investigation Corrosion Pattern on Automotive Paint*.

**Nurul Shakila Binti Yamin**, 2014/2015, *Tensile and Flexural Strength of Composite Materials*.

**Muhammad Amin Bin Zubir**, 2013/2014, *Corrosion Behaviour of Welded A6061 in Brine Solution*.

**Muhammad Faez Helmie Bin Mohd Suhaimi**, 2013/2014, *Effect of Hydrogen Adsorption to the Steel in Acidic Solution*.

**Muhd Amirul Hakim**, 2013/2014, *Galvanic Corrosion of Metallic Alloys*.

**Mohamad Fauzan Bin Mohamad Amin B Yahya**, 2013/2014, *Intergranular Corrosion Cracking of Stainless Steel*.

**Chang Tai Ann**, 2013/2014, *Improvement of Aluminium Sacrificial Anode Properties Using Cold Working*.

**Ho Guan Sem**, 2013/2014, *Characterize Corrosion on Pattern of Carbon Steel in Tidal Zone*.

**Yap Chun Wei**, 2013/2014, *Effects of Nano Coolant on Corrosion Rate*.

**Mohd Suhairi**, 2013/2014, *The Effect of Magnetic Field on Corrosion Behavior of Carbon Steel*.

**Sharifah Zubaidah Binti Syed Mazlan Bin Mohamad**, 2013/2014, *Experimental Study on Corrosion Rate of 316-Stainless Steel*.

**Muhamad Fikrie Bin Hashim**, 2013/2014, *Investigate Microstructure of Corroded Aluminum with Various Percentage of Nanofluid*.

#### Journals Publications – Principal Investigator

##### A General Corrosion/ Corrosion of Reinforced Bar Concrete

1. **Asmara, Y.P.,etc.,** *Prediction of Pitting Corrosion Using Anodic Scan Polarization*, Rekayasa, F.Teknik Unram, 2000.
2. **Asmara, Y.P.,etc.,** *Stress Corrosion Cracking of Brass in Ammonium Solution*, Preceding, ISTEK, Manchester, UK, 2001.
3. **Asmara, Y.P.,etc.,** *Cathodic Protection of Mild Steel and 304 Stainless Steel Using an Impressed Current Sistem in Artificial Seawater*, Master Theses, Corrosion and Protection Centre, UMIST, 2001.
4. **Asmara, Y.P.,etc.,** *Failure Analysis on Distillation Column of Chemical Power Plant*, Oryza, UNRAM, 2002.
5. **Asmara, Y.P.,etc.,** *Atmospheric Corrosion on Engineering Materials (Serangan Korosi Atmosfer Pada Berbagai Jenis Logam)*, Rekayasa, UNRAM, 2003
6. **Asmara, Y.P.,etc.,** *Effects of Painting on Mild Steel Corrosion on Aqueous Solutions (Pengaruh Pengecatan Baja Karbon Rendah Terhadap Serangan Korosi di Lingkungan Air)*, Rekayasa, UNRAM, 2004.
7. **Asmara, Y.P.,etc.,** *Effects of Nickel Coating on Mild Steel Corrosion in Aqueous Environments (Pengaruh Pelapisan Nikel Terhadap Korosi Pada Baja Karbon Rendah Di Lingkungan Cair)*, Oryza, UNRAM, 2004.
8. **Asmara, Y.P.,etc.,** *The Efects of Calcareous film on Corrosion Polarization Behavior. (Pertumbuhan Calcareous Film Terhadap Prilaku Polarisasi Korosi)*, Reintek, Univ. Bung Hatta, Medan, 2009.

9. Asmara, Y.P.,etc., *The Effects of Current Protection on Conductivity of Various Rebar Immersed in Seawater Conditions. (Pengaruh Penggunaan Arus Proteksi Terhadap Konduksifitas Beton Pada Berbagai Kuat Tekan di Lingkungan Air Laut)*, Buletin Teknik, 2009.
10. Asmara, Y.P.,etc., *Long Term Corrosion Experiment of Steel Rebar in Fly Ash-Based Geopolymer Concrete in NaCl Solution*, International Journal of Corrosion, Volume 2016.

#### **B Oil and Gas Corrosion (CO<sub>2</sub> Corrosion)**

11. Asmara, Y.P.,etc., *Flow Sensitivity Corrosion of Mild Steel Pipeline in Oil and Gas Environments (Efek Kecepatan Aliran Minyak Terhadap Kecepatan Korosi dalam Pipa di Lingkungan Minyak dan Gas Bumi)*, Media Teknika, Sanata Dharma, 2008.
12. Asmara, Y.P.,etc., *The Role of Acetic Acid in CO<sub>2</sub> Corrosion (Pengaruh Asam Asetat Terhadap Korosi di Lingkungan CO<sub>2</sub>)*, accepted to Oryza, UNRAM, 2008.
13. Asmara, Y.P.,etc., *The Competition Growth of Sulfide and Carbonate Scale in Gas containing CO<sub>2</sub> and H<sub>2</sub>S (Model Kombinasi Pertumbuhan Lapisan yang Mengandung Gas H<sub>2</sub>S dan CO<sub>2</sub>)*, KOROSI, Majalah Ilmu & Teknologi, Vol. 16 No. 2, Oktober 2007.
14. Asmara, Y.P.,etc., *Physical Properties of Oil to Steel Corrosion (Pengaruh Sifat Fisik Minyak Bumi Terhadap Kecepatan Korosi Baja Karbon)*, accepted to Rekayasa, UNRAM, 2008.
15. Asmara, Y.P.,etc., *Predicting CO<sub>2</sub> Corrosion in The Presence of H<sub>2</sub>S*, submitted to UNRAM
16. Asmara, Y.P.,etc., *CO<sub>2</sub> Corrosion on Mild Steel (Ketahanan Baja Carbón Terhadap Serangan Korosi di Lingkungan Gas CO<sub>2</sub>)* submitted to UNRAM.
17. Asmara, Y.P.,etc., *The Effects of Carbon Composition on Mild Steel Corrosion in CO<sub>2</sub> Corrosion (Pengaruh Kadar Karbon Dalam Baja Terhadap Serangan Korosi di Lingkungan Gas CO<sub>2</sub>)* submitted to UNRAM.
18. Asmara, Y.P.,etc., *A Statistics Approach for the Prediction of CO<sub>2</sub> Corrosion in Mixed Acid Gases*, Corrosion and Materials, 34 (4). pp. 25-30, 2009.
19. Asmara, Y.P.,etc., *Application of response surface methodology for Prediction CO<sub>2</sub> Corrosion Models at pH 4*, International Journal of Engineering, 2009 (accepted).
20. Asmara, Y.P.,etc., *Application of Response Surface Design to Characterize CO<sub>2</sub> Corrosion Mechanistically, PetroMin Pipeliner*, Journal for Oil & Gas and Petrochemical and Gas Processing Industries in Asia, Jan, 2010.
21. Asmara, Y.P.,etc., *Experimental Design and Statistical Evaluation in CO<sub>2</sub> Corrosion Environment*, Corrosion Science, Elsevier, 2010 (accepted and re-reviewing).
22. Asmara, Y.P.,etc., *Study Combinations Effects of HAc in H<sub>2</sub>S/CO<sub>2</sub> Corrosion*, Journal of Applied Sciences, Volume 11, Page No.: 1821-1826, 2011.
23. Asmara, Y.P.,etc., *Study on the Effect of Surface Finish on Corrosion of Carbon Steel in CO<sub>2</sub> Environment*, Journal of Applied Sciences, Volume 11, Page No.2053-2057, 2011.
24. Asmara, Y.P.,etc., *Efficient design of response surface experiment for corrosion prediction in CO<sub>2</sub> environments*, [Corrosion Engineering, Science and Technology](#), Volume 47, Number 1, February 2012 , pp. 10-18(9)

25. **Asmara, Y.P.,etc.,** *Influences of H<sub>2</sub>SO<sub>4</sub> and NaCl concentrations on stress corrosion cracking of AISI 304 stainless steel*, Advanced Materials Research Vol. 893 (2014) pp 410-414.
26. **Asmara, Y.P.** and Siregar, Januar Parlaungan and Cionita, Tezara and Juliawati, Alias (2014) *Electrochemical Behaviour of High Stress Steel (AISI 4340) in CO<sub>2</sub> Environments with the Presence of H<sub>2</sub>S Gas*. *Advances in Materials Science and Engineering* . ISSN 1687-8434 (print); 1687-8442.
27. **Asmara, Y.P.** and Yap, Chun Wei and Mohd Fazli, Ismail and Khairi, Yusuf (2014) *Flow Assisted Erosion-Corrosion of High Speed Steel (HSS) in Nanofluid Coolant*. In: World Virtual Conference on Advanced Research in Mechanical and Materials Engineering, 22-26 September 2014.
28. **Asmara, Y.P.,** Juliawati, Alias and J., Jaafar and K., Azuar and J.P. Siregar and Kurniawan, Tedi (2014) *Effects Pre-strain of Carbon Steel on Stress-Strain Diagram in CO<sub>2</sub> Environment with the Presence of H<sub>2</sub>S*. *International Journal of Material Science Innovations (IJMSI)*, 2 (3). pp. 52-58. ISSN 2289-4063.
29. **Asmara, Y.P.,** J. P. Siregar, C. Tezara. *Chang Tai Ann, Improving Efficiency of Aluminium Sacrificial Anode Using Cold Work Process, 2nd International Manufacturing Engineering Conference 2015 (iMEC 2015), FKP, UMP. IOP Conference Series: Materials Science and Engineering, Volume 114, Number 1, 2016.*
30. **Asmara, Y.P.,** M. F. Ismail, L. Giok Chui, Halimi, Jamiludin, *Predicting Effects of Corrosion Erosion of High Strength Steel Pipelines Elbow on CO<sub>2</sub>-Acetic Acid (HAc) Solution, 2<sup>nd</sup> International Manufacturing Engineering Conference 2015 (iMEC 2015), FKP, UMP, IOP Conference Series: Materials Science and Engineering, Volume 114, Number 1, 2016.*
31. **Asmara, Y.P.,** Agus Geter, N. M. Zuki, J. Jamaludin, S. Januar, B. Dandi, T. Kurniawan, M. C. Ismail, *Corrosion inhibition of carbon steel in oil and gas environments*, *International Journal of Advanced and Applied Sciences*, 3(5) 2016, Pages: 88-91.
32. **Asmara Y.P.** , Athirah, J.P. Siregar, T. Kurniawan, D. Bachtiar, Application of Response Surface Methodology Method in Designing Corrosion Inhibitor, (IOP Conference Series: Materials Science and Engineering, 2017)
33. **Asmara Y.P.** , Suraj, J.P. Siregar, T. Kurniawan, D. Bachtiar Development Of Green Vapour Corrosion Inhibitor, IOP Conference Series: Materials Science and Engineering, 2017).

#### Papers Presented in Seminars/ Conferences (Presenter)

##### A Corrosion of Reinforced Bar Concrete

1. **Asmara, Y.P.,etc.,** *Microstructure Analysis of Rebar Concrete Corrosion in Seawater Environment under Cathodik Protection System*, National Conference, Engineering Faculty, UNRAM, 2005.
2. **Asmara, Y.P.,etc.,** *Electro-Chemical Analysis of Cathodik Protection on Mild Steel in Seawater Environment*, National Conference, Teknik Material, ITS, 2005.
3. **Asmara, Y.P.,etc.,** *The Cathodic Current Fluctuation of Rebar on Tidal Zone (Kebutuhan Arus Dan Potensial Proteksi Katodik Beton Bertulang di Lokasi Pasang Surut Air Laut)*, National Conference, UI, 2006.

4. Asmara, Y.P.,etc., *Analysis of Current Protection Effects on Mechanical and Electrical Properties of Reinforced Concrete in NaCl Solution*, Submitted to National Conference, UTP, Malaysia, 2009.

#### **B Oil and Gas Corrosion (CO<sub>2</sub> Corrosion)**

5. Asmara, Y.P.,etc., *Predicting CO<sub>2</sub> Corrosion in The Presence of H<sub>2</sub>S and Acetic Acid*, UTP Biannual Postgraduate Research Symposium, 2006.
6. Asmara, Y. P.,etc., *Response Surface Analysis To Simplify CO<sub>2</sub>corrosion Experiment*, UTP Biannual Postgraduate Research Symposium, 2007.
7. Asmara, Y.P.,etc., *The Use of Electro-Chemical Impedance Spectroscopy (EIS) to Study Effects of Acetic Acid in CO<sub>2</sub> Corrosion*, UTP Biannual Postgraduate Research Symposium, July, 2008.
8. Asmara, Y.P.,etc., *Mechanistic Prediction Model of CO<sub>2</sub> Corrosion*, International Conference, UTM, Malaysia, 2008.
9. Asmara, Y.P.,etc., *Study Corrosion Prediction Models in CO<sub>2</sub> Environment*, International Conference, UTP, Malaysia, 2008.
10. Asmara, Y.P.,etc., *Modeling Simultaneous Effects of Pressure, Temperature and pH on CO<sub>2</sub> Corrosion*, Submitted to National Conference, UTP, Malaysia, 2009.
11. Asmara, Y. P, etc., *Application of Response Surface Design to Characterize CO<sub>2</sub> Corrosion Mechanistically*, Asia Pacific Nace Conference, 2009.
12. Asmara, Y.P, *Study Combinations Effects of HAc in H<sub>2</sub>S/CO<sub>2</sub> Corrosion*, submit to ICPER, UTP, 2010 (selected to publish in international journal of science).
13. Asmara, Y.P, etc., *Study on the Effect of Surface Finish on Corrosion of Carbon Steel in CO<sub>2</sub> Environment*, ICPER, 2010. (selected to publish in international journal of science).
14. Asmara, Y.P.,etc., (2013) *Mechanistic Model of Stress Corrosion Cracking (SCC) of Carbon Steel in Acidic Solution with Presence of H<sub>2</sub>s*. IOP Conference Series: Materials Science and Engineering, 50 (1). pp. 1-10. ISSN 1757-8981.
15. Asmara, Y.P.,etc., *Analysis of Corrosion Prediction Software for Detection Corrosion in Oil and Gas Environment Containing Acetic Acid, Co<sub>2</sub> and H<sub>2</sub>S Gases*, International Symposium on Corrosion & Materials Degradation (ISCMD2014), Malaysia, 2014.
16. Asmara, Y. P., Jamiludin, K. Yusuf, Y. C. Wei, M. F. Ismail, L. Giok Chui, Halimi, *Erosion Corrosion of a High Strength Steel Pipeline Elbow on Oil and Gas Environments*, ICMER Conference, Faculty of Mechanical Engineering Universiti Malaysia Pahang.
17. Asmara, Y.P. J.P. Siregar, L.H. Shah, C. Tezara, *Experimental Investigations on Corrosion Model of Welded 6061 Aluminum Exposed in NaCl Solution*, , Volume 11 (January - June 2015) International Journal of Automotive & Mechanical Engineering (IJAME)
18. Asmara, Y.P. *Corrosion Inhibition of Carbon Steel in Oil and Gas Environments*, Submitted to Current Research In Information Technology, Mathematical Sciences, Science And Technology International Conference 2016, 12 -14 April, Melaka, Malaysia.

#### **AS A MEMBER**

19. Khairi yusuf, Asmara, Y.P., *Development of Control System For Three Degree Of Freedom (3dof) Articulated Robot*. ICMER Conference, Faculty of Mechanical Engineering Universiti Malaysia Pahang. 2015.

20. Totok R. Biyanto, M.N. Syamsi, Gunawan Nugroho, **Asmara, Y.P.** Hari Santoso, *Optimization-Based Eec Design for Maximizing Green Building Investment*, Submit to IJEME Journal.
21. A.G.E. Sutjipto, **Y.P. Asmara**, *Flashover of MgO Based Ceramics under Electron Bombardment*, Engineering Physics International Conference, Indonesia, 7-10 September 2016.
22. DB Mathivanan, JP Siregar, M Rejab, M Ruzaimi, D Bachtiar, **YP Asmara**, *The Mechanical Properties of Alkaline Treated Pineapple Leaf Fibre to Reinforce Tapioca Based Bioplastic Resin Composite*, Materials Science Forum, 882, 66-70, 2017.
23. FA Fauzi, T Kurniawan, **YP Asmara**, MHB Ani, M Aziz, *Oxidation behavior of pack-cemented P91 steel in steam condition*, Oxidation behavior of pack-cemented P91 steel in steam condition, 2016
24. T Kurniawan, FAB Fauzi, **YP Asmara**, *High-temperature Oxidation of Fe-Cr Steels in Steam Condition—A Review*, Indonesian Journal of Science and Technology, 1 (1), 107-114.

#### Exhibition - Principal Investigator

1. Creation, Innovation, Technology & Research Exposition (CITREX) 2017 for the title of *INNOVATIVE CORROSION PROTECTION IN TIDAL ZONE*.
2. Creation, Innovation, Technology & Research Exposition (CITREx) 2017, for the research title of *DEVELOPMENT OF GREEN VAPOUR CORROSION INHIBITOR*.
3. Creation, Innovation, Technology & Research Exposition (CITREx) 2017, for the research title of *DESIGN OF SELF -RELEASED INHIBITOR FOR CORROSION PREVENTION*.
4. Creation, Innovation, Technology & Research Exposition (CITREx) 2017, for the research title of *CAFFEINE AD NATURAL CORROSION INHIBITOR IN SEA WATER CONDITION*. (Member)

#### Awards

1. Master Scholarship from Higher Education Of Indonesia, 2001-2002.
2. PhD Scholarship from National Petroleum Malaysia (Petronas), 2006-2010.
3. Silver Medal on Creation, Innovation, Technology & Research Exposition (CITREX) 2017 for the title of *INNOVATIVE CORROSION PROTECTION IN TIDAL ZONE*.
4. Silver Medal on Creation, Innovation, Technology & Research Exposition (CITREx) 2017, for the research title of *DEVELOPMENT OF GREEN VAPOUR CORROSION INHIBITOR*.
5. Bronze medal on Creation, Innovation, Technology & Research Exposition (CITREx) 2017, for the research title of *DESIGN OF SELF -RELEASED INHIBITOR FOR CORROSION PREVENTION*.
6. Bronze medal on Creation, Innovation, Technology & Research Exposition (CITREx) 2017, for the research title of *CAFFEINE AD NATURAL CORROSION INHIBITOR IN SEA WATER CONDITION*. (Member)