



1. Personal Data	
Name: Prayatni Soewondo	Date and Place of Birth: February 21 st , 1957, Jakarta – Indonesia
Nationality: Indonesian	Gender: Female
Department, faculty, university: Environmental Engineering Department, Faculty of Civil & Environmental Engineering, Institut Teknologi Bandung	
Title of position held: Professor	Address: Jl. Ganeca no: 10, Bandung, West Java, Indonesia
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2. Educational Qualifications				
2-1. Academic Qualification (Repeat as necessary)				
1997: Dr.-Ing., Verfahrenstechnik, Abwasserreinigung, TU-Berlin, Germany				
1986: Master Degree, Environmental Engineering, ITB				
1981: Bsc., Environmental Engineering, ITB				
2-2. Academic Experience				
<ul style="list-style-type: none"> • Professor at Environmental Engineering, ITB, 1997-now, Full time 				
2-3. Non Academic Experience				
Company or Entity	Title	Brief Description of Position	Year	Full/ Part Time
PT. LAPI and LAPI Institute	Environmental Engineer			Part Time
2-4. Certification or Professional Registrations				
Certified Lecturer in Higher Education from the Indonesian Ministry of Research, Technology, and Higher Education				
2-5. Current Membership in Professional Organizations				
<ul style="list-style-type: none"> • Indonesian Society of Sanitary and Environmental Engineers, 1985-now • MASTAN, 2006-now • DAAD Alumni, 2004-now • TU-Berlin Alumni, 2004-now • SURED, 2006-now • GWAN, 2007-now 				

2-6. Honors and Awards

Satya Lancana Karya Satya, from President of Republik of Indonesia

2-7. Service activities:

Head of Master Program of Water Supply and Sanitation Infrastructur Management

2-8. Research Experience

Number of years of experience in the field related to the project:

35 years

Field of specialization:

Wastewater Engineering

2-9. Research Achievements**List of Major Publications within 5 years:****International and National Jurnal and Proceeding :**

- Thye, Y.P., Effendi, A.J., **Soewondo, P.**, Brdjanovic, D., and Setiadi, T. (2015) : “*The 2006 Java Earthquake and Its Implications on Excreta Disposal Response*”, Journal of Engineering and Technological Sciences, [45\(2\), 201-207](#)
- Sinardi, **Soewondo,P.**, Notodarmojo,S. and Radiman, C; “*The Degree of Deacetylation Chitosan Various Marine Shells*”, International Journal of Applied Engineering Research, ISSN 0973-4562 Volume 9, Number 22(2014) pp. 18047-18051
- Sofyan, I., **Soewondo, P.**, Kunaefi, T.D. and Handajani, **M.**, “*Important Factors of Sanitation Management in Urban Slum Area (A case study of Greater Bandung Area)*” , International Symposium on Sustainability Science, Understanding Climate Change Phenomena for Human Well Being, UNPAD, 8th-10th Sept 2014, Bandung
- Handayani, M., Maulidiany, N.D. and **Soewondo, P.**, “*Influence of Biochips Amount for Organic Loading Removal From Sewage Water by Biochips Implementation in MBBR System (Study Case : IPAL Bojongsoang Bandung)*” ISoSUD 2014 The 3rd International Seminar on Sustainable Urban Development 2014, Trisakti University in cooperation with The National Council on Climate Change (DNPI), 17 September 2014, Jakarta.
- Putri, D.W., Apriadi, D.P., **Soewondo,P.**, Effendi, A.J. and Setiadi, T., “*Physical Treatment System Application Failure in River Swamp Area (Case Study in Seberang Ulu I District, Palembang City, Indonesia)*”, 11th International Symposium on Southeast Asian Water Environment, Technology (AIT), Bangkok, Thailand, November 26-28, 2014.
- D.W. Putri, D.P. Apriadi, A.I Tjakranegara. **P. Soewondo**, A.J.Effendi, and T Setiadi : “*Physical Approach to Lead Applicable Wastewater Treatment System in Swampy Area (Case Study : Seberang Ulu I District, Palembang, South Sumatera)*”, 1st Specialist Conference on Municipal Water Management and Sanitation in Developing Countries, IWA-AIT Conference 2-4 December 2014, Asian Institut of Technology, Bangkok, Thailand
- Apriadi, D.P. and **Soewondo, P.**, “*Daily Habits , Behaviors and the Influence of Sanitation System in Specific Area (Study Case : Palembang City, South*

Sumatera Province, Indonesia)”, Seminar Research exchange of Master Student of Environmental Engineering ITB, June 25th, 2014 UNESCO-IHE-Delft and ITB

- Sofyan, I., **Soewondo, P.**, Kunaefi, T.D. and Handajani, M., “*Faktor penting dalam pengelolaan sanitasi Pada kawasan kumuh perkotaan (Studi kasus di kawasan Bandung Raya)*” , Seminar Pengelolaan Sumber Daya Wilayah Perkotaan, Universitas Katolik Parahyangan-HATHI, 20 September 2014
- Setiawati, E., Notodarmojo, S., **Soewondo, P.**, Effendi, A. J. and Widjarnako, B.: “*Infrastructure Development Strategy for Sustainable Wastewater System by Using SEM Method (Case Study Setiabudi and Tebet District, South Jakarta)*”, Procedia Environmental Sciences, Volume 17, 2013, pages 685-692
- Sinardi, **Soewondo, P.** dan Notodarmojo, S.: “*Pembuatan, Karakterisasi, dan Aplikasi Kitosan Cangkang Kerang Hijau (Mytilus viridis linneaus) sebagai Koagulan Penjernih Air*”, Konferensi Nasional Teknik Sipil 7. Universitas Sebelas Maret 24-25 Oktober 2013.
- **Soewondo, P.**, Febriana, A., Handajani, M. and Firdayati, “*Effect of Mixing water Ratio on feces Treatment Based on Terra Preta Sanitation System Concept*”, Journal of Science and Technology (Vietnam Institute of Science and Technology), 2013
- **Soewondo, P.** and Handajani, M., “*The Future Development in Managing Domestic Wastewater in Indonesia*”, *International Conference on Sustainability Science in Asia 2012, January 11-13, 2012, Sanur Bali.*
- Tazkiaturrizki, **Soewondo, P.** and Handajani, M., “*Removal Nitrogen and phosphate in effluent of Bojongsiang wastewater treatment using subsurface horizontal wetland with continuous feed*”. Proceeding of International Conference on Global Environment 2012, Bandung Indonesia
- Nuyrsetyowati, P., **Soewondo, P.** and Handajani, M., “*Influence of the influent organic loading on organic removal of liquid phase bio waste in an up flow anaerobic fixed bed reactor with purmice suppoting media*”. Proceeding of International Conference on Global Environment 2012, Bandung Indonesia
- Febriana, A., **Soewondo, P.**, Handajani, M. and Firdayati, M. , “*Effect of glucose addition on lacto fermentation process in feces treatment based on Terra Preta Sanitastion system concept*”. Proceeding of International Conference on Global Environment 2012, Bandung Indonesia

International and National Conference:

- **Soewondo, P.**, “*The Potential of Lacto Fermentation of Treat Fecal Sludge in the Terra Preta Sanitation Concept in Indonesia*”, International seminar Environmental and Water Management in Flood Andangered Areas in Asia, 24-28 March 2014, Bangkok.
- **Soewondo, P.**, *Wastewater Treatment in Indonesia*, 5th WIEF-UiTM Global Discourse, 30 April 2014, Kuala Lumpur

- **Soewondo, P.**, Febriana, A., Handajani, M. and Firdayati, *Feces Treatment by Lacto fermentation Process and Future Perspectives of TERRA PRETA SANITATION CONCEPT in Indonesia* , Proceeding 1st International Conference on TPS, 28-31 August 2013, TU-Hamburg Harburg, Jerman
- Putri, D.W., **Soewondo, P.**, Effendi, A.J. and Setiadi, T. : “*Review of Applied Wastewater Treatment Technology for Floating and Flooded Communities*”, the 3rd IWA Development Congress and Exhibition, October 14-17, 2013, Nairobi Kenya.
- Thye, Y. P., T., Effendi, A.J., **Soewondo, P.** and Setiadi, T., “*Lessons learned in appropriate post-disaster sanitation technologies from the 2004 tsunami*” (3rd IWA Development Congress and Exhibition, October 14-17, 2013, Nairobi, Kenya
- Putri, D.W., **Soewondo, P.**, Effendi, A.J., and Setiadi, T.: “*Existing Application of Wastewater Infrastructure for Coastal, River, and Swamp Communities (Review Paper)*”, The Second International Conference on Sustainable Infrastructure and Built Environment (SIBE 2013), 19-20 Nov 2013, Bandung, Indonesia.
- Sinardi, **Soewondo, P.** and Notodarmojo, S., “*The Chemical Characteristics of Chitosan Extracted from Green Mussels Shell (Mytilus viridis linneaus) and Its Potential Application as a Natural Coagulant*”, The Second International Conference on Sustainable Infrastructure and Built Environment (SIBE 2013), 19-20 Nov 2013, Bandung, Indonesia
- Thye Y. P., T., Effendi, A.J., **Soewondo, P.**, Brdjanovic, D. and, Setiadi, T.: “*Impact of Earthquakes on Excreta Disposal Needs: A Case Study of the 2006 Yogyakarta Earthquake*”, The Second International Conference on Sustainable Infrastructure and Built Environment (SIBE 2013), 19-20 Nov 2013, Bandung, Indonesia
- **Soewondo, P.**, Handajani, M., Notodarmodjo, S., Setiani, B., Irsyad, M., Setiyawan, A.S. and Ferriyanto, K. : “ *The role of Subsurface Horizontal Flow Wetland in The Tertiary Process of Domestic Wastewater Treatment (Case Study : Bojong Soang Wastewater Treatment Plant, Bandung)*”, Alumni Seminar TU-Berlin in Challenges in Water Supply and Wastewater Treatment, Berlin. 27th April – 6th May 2011
- Hartati, E., Syafila, M., **Soewondo, P.**, Handajani, M., Binol, R.R., Dian, S. And Damanhuri, E. : Degradation of Biowaste Liquid Fraction in Anaerobic Batch Reactor, Proceedings ACIKITA International Conference Science and Technology, 26-27 July 2011, Jakarta.
- Hartati, E., **Soewondo, P.**, Syafila, M. and Damanhuri, E. (2011); Degradation of Biowaste Liquid Fraction Vegetables and Fruits in Anaerob Batch Reactor; Proceedings of International Conference on The 4th Environmental Technology Management Conference-ETMC, Bandung, 3rd -4th November 2011.
- Rinarti, A., Dwi, A.R., Handajani, M and **Soewondo, P.** : The Effect of Aeration and Reactor’s Media Thickness in the Organic Removal of

Bojongsoang WWTP's Effluent using Horizontal Subsurface Flow in a Constructed Wetland; Proceedings of International Conference on The 4th Environmental Technology Management Conference-ETMC, Bandung, 3rd -4th November 2011.

- Prasetya, R.W. and **Soewondo, P** ; Green Roof Potential Application as a Part of Sustainable Drainage System in Urban Area (Case Study: Bintaro, Jakarta); ; Proceedings of International Conference on The 4th Environmental Technology Management Conference-ETMC, Bandung, 3rd -4th November 2011.
- **Soewondo, P.**, Atika, R.K., Rahayu, S.N. and Handajani, M. : “Removal Of Organic Compounds From Liquid Fracation Biowaste Using Upflow Anaerobic Fixed-Bed Reactor Without pH Regulator”, The 4th ASEAN Environmental Engineering Conference, November 22-23, 2011, Jogjakarta, p. 143-148, ISBN: 978-602-95687-3-8.

Research Experience within 5 years:

- 2015-2016 : Penggunaan Biomassa Granular Aerobik pada Reaktor Kontinu untuk Pengelolaan Nutrien pada Air Limbah Peternakan, Hibah DIKTI
- 2015-2016 : “Establishment of Performance Testing Method for Decentralized Wastewater Treatment Facilities”, Sponsor : NIES (National Institute of Environmental Studies), Tokyo, Jepang
- 2012-2016 : Stimulating Local Innovation on Sanitation for The Urban Poor in Sub-Saharan Africa and South East Asia, UNESCO-IHE, Sponsor : Bill & Melinda Gates Foundation
- 2014 : Aplikasi BioChip dengan Sistem MBBR Untuk Penyisihan Organik dan Nutrien Air Limbah Domestik (Studi Kasus : IPAL Bojongsoang), Riset Inovasi ITB, Batch II
- 2011-2013 : Feces Treatment with Terra Preta Sanitation System (Pengolahan Tinja Dengan Proses Terra Preta Sanitation System), sponsor : DIPA ITB, JICA
- 2010-2011 : The Potential of Constructed Wetland as Alternative Solution to Treat Effluent of WWTP, Case Study Bojongsoang WWTP (Potensi Lahan Basah Sebagai Solusi Alternatif Daur Ulang Effluent IPAL Domestik, Case Study IPAL Bojongsoang), Sponsor : DIPA DIKTI, Hibah Strategi Nasional

Other relevant information:

Latest Professional Activities:

- *Evaluation* of Money Printing Waste water Treatment Plant, 2015-2016
- *Evaluation* of Waste Water Management in Gelora Bung Karno Area and Istora Building, 2014
- *Environment* Management for Coal to Ethanol Industrial Project, 2013