



Curriculum Vitae

Personal Information

Name : Haryo Satriyo Tomo
NIDN : 0029107502
Place and Date Birth : Purworejo, 29 October 1975
Address : Jl. Taruna VI/16 Komp. Taruna Parahyangan Bandung 40619
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Educations

Degree : Sarjana Teknik (Bachelor of Engineering)
Institution : Institute of Technology Bandung
Major : Environmental Engineering
Year Attended : 1993 - 1998
Degree : Magister Teknik (Master of Technology)
Institution : Institute of Technology Bandung
Major : Environmental Management and Technology
Year Attended : 1999 – 2001
Degree : Doctor of Engineering (Dr. Techn) - Candidate
Institution : TU Graz
Major : Process Engineering
Year Attended : 2006 – 2012

Academic Experiences

Institution : Environmental Engineering, Institute of Technology Bandung
Title : Lecturer (Assistant Professor)
Period : 1998 – now

Course Taught

- Fluid Mechanics I (TL2101/2; 00/01, 01/02, 02/03, 03/04, 10/11, 13/14, 14/15, 15/16)
- Fluid Mechanics II (TL2201/3; 00/01, 01/02, 02/03, 03/04, 09/10, 10/11, 13/14, 14/15, 15/16),
- Engineering Mathematics (TL2104/3; 00/01, 01/02, 02/03, 03/04, 04/05, 13/14, 14/15, 15/16),
- Waste to Energy (TL5276/3; 09/10, 12/13, 13/14, 14/15, 15/16)
- Introduction to Information Technology B (KU4076 13/14, 14/15, 15/16)

Research Focus Sustainable Process Synthesis, Physics of Atmospheric Reaction, Air Quality Modeling

Non-Academic Experiences

Institution/Company : LPOK Megabit (Part Time)
Title Tutor
Period 1994 – 1996

Institution/Company : Journal of Sustainable Development (CCSE) Canada
Title Board of Reviewer
Period 2010 – 2011

Service/ Activity outside of the Institution

Company : Koperasi Keluarga Pegawai ITB (Coop)
Title Secretary
Period 2010 – now

Company : SMK PN/PN2 Purworejo – Vocational School on Technology
Title Advisory Board
Period 2008 – now

Key Qualifications

Certification : As a Lecturer (since 2012) by Ministry of Education Indonesia.

As a TCP/IP Network Administrator (2000) by Microsoft Indonesia.

As a National Trainer for Air Quality Monitoring and Control for Air Quality Management and Control Certification (since 2012)

Professional Affiliations

Organization : Indonesian Society of Sanitary and Environmental Engineering
Year Since 1999

Organization : Air and Waste Management Association
Year Since 2012

Organization : System Dynamics Society
Year Since 2013

Honors and Awards

Organization : Ministry of Education Indonesia
Year 1997
Honor/Award Title Winner of Category Innovative and Productive of a Pilot Scale Treatment Plant in PIMNAS

Latest Publications

Main Author **Tomo, H.**, Pratiwi, R., Holben, B., Lestari, P., 2016, *accepted, Neural Structure Model to Estimate a Time-Series of Forest Fire Incidents using Aerosol Optical Depth (AOD) and MODIS Data*, The Annual Conference of Air and Waste Management Association Proceeding, US

Tomo, H., Eder, M., Kettl, K.-H., Narodoslowsky, M., 2012, *Combinatorial and Pinch Analysis for Minimizing Generated Air Pollution from Solid Waste Treatment Area*, The 7th APLAS Symposium Proceeding, Indonesia

Tomo, H., Corsita, L., 2010, *An Alternative Multiple Factor Analysis to evaluate the Drainage Systems (Case Study in Sub-watershed Acay, Abepura District)*, The Book of Water Supply Management System and Social Capital, Chapter 12, Kyoto University

Tomo, H., Eder, M., Sandor, N., Halasz, L., Narodoslowsky, M., 2009, *Tailor Made Solutions for Local Industrial Centre*, Chemical Engineering Transactions, 2009, 18, 511-516, DOI: 10.3303/CET0918083

Tomo, H., Harahap, F.M., Muntu N.Y., 2006, *Simplified Methods to Determine Diffusion Coefficient as Basic Inputs on Air Dispersion Model*, International Conference on Better Air Quality Proceeding, CAI-Asia

Tomo, H., 2005, *Development on Simplified Model for Urban Air Quality Related to Transportation*, International Conference on Applied Mathematics Proceeding, P4M-ITB

Tomo, H., Syahril S.M., 2002, *A Simplified Approach to Estimating Pollution from Mobile Sources*, Transport Planning, Demand Management and Air Quality Workshop Proceeding, Asian Development Bank

Contributor

Halasz,L., Eder, M., Sandor, N., Kettl, K.-H., **Tomo, H.**, Narodoslowsky, M., 2010, *Optimal Integration of Sustainable Technologies in Industrial Park*, Chemical Engineering Transactions, 2010, 19, 43-48, DOI: 10.3303/CET1019008

Muhsin, M., Dewi, R.G, **Tomo, H.**, 2011, *Retrofit Study to Optimize Fuel Usage and Reduce Air Pollution in Medium-Scale Quicklime Production*, Environmental Management and Technology Conference, ISBN 978-979-98278-3-8

Notable Professional Activities

Institution/Company	: Air Quality Laboratory and LAPI ITB
Title	Lead Engineer
Period	2002 – 2005
Brief Descriptions	Conducting air quality monitoring and Stack sampling for Oil and Gas Companies (TOTAL, CHEVRON, MEDCO).
Institution/Company	: LAPI ITB
Title	Software Developer
Period	2005 – 2006
Brief Descriptions	Developing air quality modeling software for PT TOTAL Indonesia
Institution/Company	: LAPI ITB
Title	Air Quality Expert
Period	2012 – 2013
Brief Descriptions	GHG Reduction Study for PT TOTAL Indonesia
Institution/Company	: Air Quality Laboratory ITB
Title	Technical Manager
Period	2012 – now
Brief Descriptions	Arrange, Evaluate and Improve Air Quality Monitoring
Institution/Company	: TUeV Rheinland Indonesia
Title	Air Quality and Noise Monitoring Expert
Period	2014 – now
Brief Descriptions	Evaluation of Industrial indoor air quality, noise and energy status

Institution/Company : LAPI ITB
Title Team of Energy Audit
Period 2015
Brief Descriptions Conducting and analyze energy audit implementation to support DRKPL PROPER of PT Chevron Geothermal Salak and PT Chevron Geothermal Darajat

Institution/Company : PT MKD
Title Water Quality System Modeler
Period 2015
Brief Descriptions Constructing and analyze the water quality model in order to support the Masterplan report of Integrative Utilization of Saluran Tarum Barat (Purwakarta – Bekasi)

Institution/Company : LAPI ITB
Title Soil Pollution Model Analysis
Period 2016
Brief Descriptions Evaluation of oil spill hazard to residential based on a specific soil contamination model.

Institution/Company : KKP ITB
Title Air Quality Monitoring using Passive Sampler
Period 2016
Brief Descriptions Development of Passive Sampling Methodology and Material to monitor the ambient air quality.

Institution/Company : LAPI ITB
Title Team of Energy Audit
Period 2016
Brief Descriptions Updating energy status and analysis to support DRKPL PROPER of PT Chevron Geothermal Salak and PT Chevron Geothermal Darajat

Recent Research Works

Institution/Company : ITB and NASA (AERONET)
Title Researcher
Period 2012 – now
Brief Descriptions PM2.5 and Aerosol Monitoring Network using Sun photometer

Institution/Company : ITB and Dalhousie University (SPARTAN)
Title Researcher
Period 2013 – now
Brief Descriptions PM2.5 and Aerosol Monitoring Network using Airphoton Filter and Nephelometer.