

Area of Expertise

- ✚ Environmental Chemistry & Laboratory Analysis
- ✚ Regulatory Compliance Analysis
- ✚ Hazardous Waste Treatment & Disposal : Solidification/Fixation, Physical & Chemical Treatment, Micro & Macro Encapsulation, Incineration, Secure Landfill,
- ✚ Hazardous Waste Minimization & Recovery
- ✚ Contaminated Site Assessment and Remediation
- ✚ General Management of Transportation, Storage, Treatment and Disposal of Hazardous Waste
- ✚ Government Relations and Permitting for Hazardous Waste Business

Education

- Bandung Institute of Technology, Chemical Engineering, 1978-1983

Training & Seminar

- **Presenter**, *Seminar on Global Actions in Eliminating Persistent Organic Pollutants (POPs) : Alternative Treatments & Disposal*, Jakarta, 2002
- **Presenter**,
- **Presenter**, *Training on Hazardous Waste Management in Oil & Gas Industry*, In-house Training for Maxus, Jakarta, 2000
- **Presenter**, *Training on Introduction on Radioactive Waste Management*, Nuclear Agency, Jakarta, 2000
- **Presenter**, *Training on Hazardous Waste Minimization*, Training Course for Small Business, Bekasi, 2000
- **Presenter**, *Training on Hazardous Waste Management in Coal Mining*, In-house Training for BHP-Arutmin, Kotabaru, South Kalimantan, 1998
- **Participant**, *A Workshop on Oily Waste Management*, Nanyang Environmental Technology Institute, Singapore, 1998
- **Participant**, *Training on Global Alignment : Change of Management*, Sean Deleney, Hongkong, 1997
- **Participant**, *Training on Hazardous Materials Management Overview*, University of California, Berkeley, Extension Program, Jakarta, 1996
- **Participant**, *Training on Water Management in Oil & Gas Industry*, Asian Investment Conferences, Jakarta, 1991
- **Participant**, *Training on Environmental Impact Assessment (AMDAL)*, Gajah Mada University, Yogyakarta, 1988
- **Participant**, *Training on Production & Processing Engineering and Materials Selection*, John M. Campbell & Co, Jakarta, 1987
- **Participant**, *Training on Basic Corrosion Engineering Course*, National Association of Corrosion Engineer (NACE), Home Study, 1987
- **Participant**, *Training on Natural Gas Engineering and Operations*, Petroleum and Geological Engineering, Inc, Jakarta, 1986
- **Presenter**, *Hazardous Waste Transportation in Indonesia*, Department of Transportation, Jakarta & Surabaya, 2006
- **Participant**, *Certification for Environmental Pollution Control Manager*, Association of Environmental Engineer Indonesia, 2006
- **Participant**, *Environmental Pollution Control Manager*, IDEN-3, Yokohama, Japan, 2007
- **Presenter**, *Management of Laboratory Waste for Drug Analysis*, Bogor, 2007
- **Presenter**, *Treatment and Disposal of Persistent Organic Pollutants (POPs)*,

Jakarta, Bassel Convention Regional Cooperation, 2008

- **Participant, Produced Water Re-injection, BTCO Training Consultant, Bandung, 2010**
- **Presenter, Mercury and Mercury Containing Waste Management in Indonesia, Ministry of Environment, 2010**
- **Participant, “US-EPA Site Assessment Training Course”, Jakarta, 2010**

Career Summary

Syarif Hidayat, Chemical Engineer, has seventeen years experience in hazardous waste management, including transportation, storage, treatment and disposal, and another seven years experience in various fields of oil & gas production. After graduated from Bandung Institute of Technology in 1983, he joined Vico Indonesia (formerly Huffco Indonesia), an oil and gas company located at East Kalimantan, until late 1993.

Being familiar with standard methods such as ASTM and IP, his first assignment at Vico Indonesia was to set up QC laboratory to ensure the quality of oil and gas products prior to shipment. Since then, he was assigned with tasks such as : corrosion control for surface facilities and pipelines and oil and natural gas plants trouble shooting. In his last three years in service, he was mainly involved in various environmental projects such as : setting-up environmental laboratory as well as monitoring program, drilling pit assessments and remediation, oily water treatment development.

In 1993, he left Vico Indonesia and joined PT PPLI, a Waste Management International company, located at Cileungsi, Bogor. His first assignment is to develop hazardous waste laboratory, including method development, equipment selection, and personnel hiring. He was then involved in designing and commissioning of hazardous waste treatment facility, covering: fuels blending plant, stabilization/fixation plant and hazardous waste landfill. Being a Technical Manager in 1995, he had developed treatment methods for hazardous wastes generated from various industries such as : oil and gas, automotive, chemical & petrochemical, textile, mining, metal manufacturing, etc. He also actively advised the customers in reducing and minimizing hazardous waste generation to lower their environmental cost.

In 1998, he was promoted to the Operations Manager which is responsible for day to day hazardous waste plant operations. In 1999, he was promoted to the General Manager for Operations and Technical, responsible for the whole aspects of the hazardous waste management, covering: transportation, plant operations & maintenance, disposal facility, environmental & compliance, government & community relations, and health & safety. During his service at PT PPLI, he was also an active member of Environmental Impact Agency (BAPEDAL) Technical Committee, involving in setting-up most environmental regulations.

Following his achievements on assigned tasks, in 1999 he was further promoted to General Manager for Technical and Operations, with the main task was to manage the facility in safe and cost effective manner.

Career Detail

Projects

- *Team Member of Drilling Pit Closing Program, Vico Indonesia, 1988-1990*

The objective of the program was to close about 200 ground pits resulted from disposal of drilling wastes. Prior to backfill and closing,

- *Project Manager of Waste Water Treatment Plant : Up-Grade Design, Commissioning & Operation, PT General Motor Buana Indonesia, Bekasi*

The objective of the project is to upgrade the existing WWTP due to its low performance. The WWTP process consists of pre-sedimentation, aerobic & an-aerobic biological processes and post sedimentation. The project was completed in four months followed by contract operation for one years.

- *Project Manager of Waste Water Treatment Plan : Retrofit Design, Construction, Commissioning, PT Plaza Indonesia, Jakarta*

The scope of the project is to retrofit the WWTP, which treats waste waters from hotels and food courts. The retrofit was required to increase the treatment capacity by converting existing rotating drum biological method into bulk activated sludge .

- *Project Manager of Oil Sludge Treatment & Recovery, Santa Fe Energy Resources, Sorong-Irian Jaya*

About 20,000 barrels of oil sludge accumulated in two ground pits, resulted from tank and other surface facility cleaning activities, was excavated and treated. The oil phase was recovered and delivered back to the oil plant, while the solid and other debris were delivered to PT PPLI for further stabilization treatment and secure landfill. The pits were 'washed out' by high pressure stream to remove contaminant scales at the bottom of the pits. Bore soil and water sampling was performed to the bottom of the pit areas to determine the extent of the soil and water contamination.

- *Team member of Mercury Contaminated Soil Assessment & Remediation, Central Java*

The initial objective of the project was to determine the extent of underground mercury contamination, including oil and ground water. After the Assessment Phase-1 completed and apparent mercury contamination presents, the client decided that land had to be excavated and decontaminated. At the completion of the project, which took about eight months, monitoring wells were developed.

- *Team member of Hazardous Waste Temporary Storage : Design and Commissioning, Batam Island*

The project was to build a hazardous waste collection point at Batam area. The scope was to design the storage meeting the regulatory requirements.

- *Project Manager of Incineration of Hazardous Waste Fuel in Cement Kiln : Design, Construction, Commissioning and Operation, PT Semen Cibinong, 1994*

The objective of the project was to incinerate organic hazardous wastes in a cement kiln, as an alternative to an expensive dedicated incinerator. The scope of the project including design and construction and commissioning of the reception tanks, piping and instrumentations, and burning system to the kiln. In addition, trial burns were also performed to demonstrate the compliance of the system to the regulatory requirements, such as: stack gas emission, Destruction and Removal Efficiency (DRE), dioxin emission, etc.

- *Project Manager of Incineration of Polychlorinated Biphenyls (PCBs) in Cement Kiln, 1997*

The objective of the program was to evaluate the capability of cement kiln in destruction of Polychlorinated Biphenyls (PCBs), a worldwide known as one of the Persistent Organic Pollutants (POPs). It was successfully demonstrated the technique could achieve a Destruction and Removal Efficiency (DRE) of 99.9999% and all gas emissions (including dioxin) meet regulatory standards.

- *Biological Treatment Plant : Design, Commissioning & Operation, PT PPLI-Cibinong*
- *Setting up mercury containing light bulb treatment and disposal*
- *Setting up procedure and facility for utilization of hazardous/non-hazardous wastes for alternative raw materials and alternative fuels in cement kilns*
- *Study, develop and implement treatment method for Lithium Battery Wastes*
- *Study, develop and implement treatment method for Low Explosive Wastes*
- *Study, develop and implement alternative pozzolanic reagent for stabilization to reduce cost of treatment*
- *Team Leader for Improvement of Biological Treatment Process, 2009*

The objective of the project was to improve the effluent quality of the waste water treatment plant of biological process. The improvement was made by source segregation, implementing physical/chemical pre-treatment and retrofitting process conditions.

Languages

- Bahasa Indonesia (mother tongue)
- English (good) - TOEFL Score : 563

Organization Membership

- Association of Indonesia Environmental Pollution Manager (APPLI). Head of Hazardous Waste Committee, 2008

