

CURRICULUM VITAE – DR. LEE JIN

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- 1. NAME** : **LEE Jin**
- 2. NATIONALITY** : **Malaysian**
- 3. EDUCATION** : *BSc. (Hons) Civil Engineering*, University of Manchester, UK
 : *MEng. Water Resources Engineering*, Asian Institute of Technology, Bangkok, Thailand
 : *DEng. Civil Engineering (Hydrology)*, University of Tokyo, Japan
- 4. MEMBERSHIP OF PROFESSIONAL BOARD & SOCIETIES** : P.Eng.- Civil (No: C19416), BEM
 : DOE Reg. Specialist in Hydrology (Reg.No. SS0287)
 : Member, Institution of Engineers, Malaysia (IEM)
 : Life Member, ENSEARCH
 : Life Member, Malaysian Water Partnership (MyWP)
 : Life Member, Malaysian Hydrological Society
- 5. WORK RECORD**
- April 2009 – Present : GLS Haidro Sdn Bhd
 Director
- July 1999 – May 2009 : DRE Consulting Sdn Bhd, Malaysia
Director/Principal Consultant
- May 1997 – July 1999 : KTA Tenaga Sdn Bhd, Malaysia (*Senior Consultant*)
- August 1991 – May 1997 : Nanyang Technological University, Singapore
(Lecturer & Senior Lecturer)
- January 1990 – August 1991 : Hydrology Division, Public Works Research Institute, Tsukuba, Japan
(JSTA Post-Doctoral Research Fellow)
- April 1982 – April 1984 : Arup Jururunding Sdn Bhd (*Civil Engineer*)
- September 1981 – April 1982 : Housing & Development Board, Singapore
(Civil Engineer)

6. PROFESSIONAL EXPERIENCE

A. International Work Experience/Work for International Organisations

1. Chief Facilitator & Editor of Proceedings for Asian Development Bank and National Hydraulic Research Institute of Malaysia for “Meeting on Action Plan for Water and Climate Change, 25-27 February 2009” & “Regional Workshop on Developing Partnership for Water and Climate Change Adaptation, 1-5 December 2008”, respectively.

- Responsible for facilitating the meeting and workshop, and for preparing the combined proceedings of the meeting and workshop.
- 2. Technical Manager for the development of the GWP-SEA IWRM Toolbox for Global Water Partnership South East Asia (GWP-SEA) country water partnerships
 - Responsible for initiating and managing the development of the GWP-SEA IWRM Toolbox website project (<http://www.gwpsea-toolbox.net>)
- 3. GWP-SEA IWRM Toolbox Trainer for GWP-SEA country water partnerships
 - Responsible for conducting IWRM Toolbox trainings for senior government officers, consultants and NGOs in Malaysia (September 2007, January 2008), Indonesia (August 2005), Myanmar (April 2006), Philippines (May 2006, October 2007), Cambodia (October 2006), Laos (November 2006) and Thailand (December 2006) for GWP-SEA.
- 4. Consultant for a UNDP, Cap-Net Study on “*The Performance and Capacity of National River Basin Organisations in 4 different countries*”
 - Responsible for preparing the Study Report on the Performance and Capacity of the Sungai Langat River Basin Organization (LUAS), in Malaysia.
- 5. Consultant for a UNDP, Cap-Net Project on “*Development of Training Modules to support River Basin Organisations on effective implementation of IWRM in river basins*”
 - Responsible for preparing the Information Management Module.
- 6. Consultant for a UNESCAP Study on “*Review and preparation of National report on Monitoring of investments in IWRM and results for Malaysia.*”
 - Responsible for conducting the review and preparing the Study Report.
- 7. Consultant for a UNESCAP Study on “*Status of IWRM Implementation in the Asia-Pacific region.*”
 - Responsible for conducting the study and preparing the Study Report.
- 8. Consultant for a UNESCAP Study on “*State of Water Resources and Water Services Management in Asia and the Pacific – From Rio to Rio+20*”
 - Responsible for conducting the study and preparing the Study Report, including 12 case studies.

B. Hydrology, Hydraulics & Drainage Studies

1. Hydrologist in a Dept. of Irrigation & Drainage, Malaysia project - “*Detailed design for the Western Flood Bypass for Timah Tasoh reservoir, Perlis*” awarded to Pakatan Runding Yusof S/B
2. Project Manager (Hydrology & Hydraulics Study) in a MMC-Gamuda JV project - “*Hydrological and Hydraulic Consulting Services for the Proposed Electrified Double Track Railway Project (Padang Besar to Sg. Petani)*” awarded to G&P Professionals S/B.
 - Responsible for leading a specialist team of hydrologists and hydraulic engineers in carrying out the hydrological and hydraulic analysis and design for the levels and sizes of 41 railway bridges and 204 culvert crossings for the 158km Kedah Line from Padang Besar to Sg. Petani.
3. Project Manager (Hydrology & Hydraulics Study) in a Dept. of Irrigation & Drainage, Selangor project - “*Flood Mitigation Project for Pandamaran and Port Klang, Selangor*” awarded to Perunding Mustafa
 - Responsible for managing the project and the hydrological & hydraulics study as part of the detailed design for the flood mitigation project.

4. Project Manager (Hydrology & Hydraulics Study) in a Dept. of Irrigation & Drainage, Sarawak project - “*Drainage Improvement Works for Betong Town*” awarded to Perunding Muhandis S/B
 - Responsible for managing the hydrology and hydraulics study and preparing the conceptual study report for the project.
5. Hydrologist & Project Manager in a Sime Darby project - “*Pre-feasibility Groundwater Study for Kedah*” awarded to DRE Consulting S/B.
 - Responsible for managing the Study and conducting the hydrological and water resources aspects of the Study.
6. Hydrologist & Information Mapper in a Dept. of Env., Malaysia project - “*Study on Pollution Prevention and Water Quality Improvement for Sg. Linggi, Negri Sembilan*” awarded to ERE Consulting Group S/B.
 - Responsible for conducting the hydrological aspects of the Study and mapping & converting the study report into Microsoft CHM format.
7. Project Manager (Hydrology & Hydraulics Study) in a Dept. of Irrigation & Drainage, Sarawak project - “*Drainage Improvement Works for Sg. Lutong, Sg. Dalam and Miri-Pujut Road in Miri*” awarded to Building Consultants.
 - Responsible for managing the hydrology and hydraulics study, reviewing the Miri Town Drainage masterplan report and preparing the conceptual study report for the project.
8. Senior Hydrologist, Information Management and Water Resources Management Specialist in a Dept. of Irrigation & Drainage, Malaysia project - “*Integrated River Basin Management Study for Sungai Langat, Malaysia*” awarded to KTA Tenaga S/B.
 - Responsible for supervising the hydrological study, conducting the water resources study and supervising the development of the information management system for the Sungai Langat in accordance with the National Register of River Basin (RRB) Information Management System Framework.
9. Hydrologist, in a Dept. of Env., Malaysia project - “*Detailed Environmental Impact Assessment Study for the Broga Incinerator Project*” awarded to Perunding Utama S/B.
 - Responsible for conducting the hydrological aspects of the Study.
10. Hydrologist, in a Dept. of Town & Country Planning, Selangor project - “*Selangor State Park Study*” awarded to TREES S/B.
 - Responsible for conducting the hydrological aspects of the Study.
11. Specialist Drainage Consultant in a Shell Refinery (M) project – “*Drainage Improvement Works at Shell Refinery Complex, Port Dickson*” awarded to Arup Jururunding S/B.
 - Responsible for providing specialist drainage modelling support to the project team and preparation of the conceptual study report for the project.
12. Hydrologist in a Dept. of Irrigation & Drainage, Malaysia project - “*Study on Updating the Flooding Conditions in Malaysia (This study is a component of the National Register of River Basin (RRB) Information Management System Framework Study)*” awarded to KTA Tenaga S/B.
 - Responsible for developing the methodology for the systematic updating of the flooding conditions in Malaysia and organising the presentation of the report.

13. Hydrologist in a Langkawi Development Authority project – “*Proposed Cable Car Project at Gunung Macincang, Pulau Langkawi*” awarded to Angkasa Jurutera Perunding S/B.
 - Responsible for conducting the hydrological aspects of the project.
14. Hydrologist in an Entertainment Village (M) S/B project – “*Master plan Development for E-Village on Lot 557, Mukim Dengkil, Sepang, Selangor*” awarded to Angkasa Jurutera Perunding S/B.
 - Responsible for conducting the hydrological aspects of the Study.

C. Water Resources and Project Management

1. Consultant for Academy of Sciences Malaysia (ASM) on “*Study to prepare an ASM advisory report for the Government of Malaysia on Integrated River Basin Management (IRBM) in Malaysia*”
 - Responsible for the preparation of the advisory report for the ASM IRBM Taskforce
2. Consultant for Academy of Sciences Malaysia (ASM) on “*Study to prepare an ASM advisory report for the Government of Malaysia on strategies to adapt to the impacts of climate change on water.*” (<http://mywccibis.mcthosting.net>)
 - Responsible for the preparation of the report and mapping the issues and ideas into the MyWCC-IBIS website.
3. Project Manager in a Perbadanan Putrajaya project – “*Implementation of LUAS 1999’s Enactment for Institutional Development and Integrated Catchment Management for Putrajaya Lake*”, awarded to Ranhill Consulting Sdn Bhd.
 - Responsible for the technical project management of the study.
4. BMP Project Co-ordinator & Information Management Specialist in an Economic Planning Unit, Malaysia project – “*National Study on Effective Implementation of Integrated Water Resources Management (IWRM) in Malaysia*” awarded to Dr. Nik & Associates S/B.
 - Responsible for conducting stakeholder workshops and co-ordinating the development of 5 Best Management Practices (BMP), stakeholder-developed project proposals in IWRM (catchment management, institutional capacity building, water conservation, flood mitigation and lake management)
 - Prepared the information management report and plan to support the effective implementation of IWRM in Malaysia
5. Integrated Catchment Planner & Information Management Specialist in a DANIDA project for Dept. of Irrigation & Drainage (DID), Sabah - “*Capacity Building and Human Resource Development for Integrated Catchment Planning in DID Sabah*” awarded to Carl Bro A/S (Denmark).
 - Responsible for building the capacity of DID Sabah officers in information management and developing the framework of the Sabah River Basin Information Management System (RB-IMS) based on the National Register of River Basin (RRB) Information Management System Framework.
 - Developed the Sg. Padas RB-IMS, compiled and edited the 3 District Catchment Management Plans for Sg. Padas River Basin.
 - Prepared a background report on water activities in Sabah and drafted a set of Rules for regulating irrigation activities in Sabah, in accordance with the legal provisions in the Sabah Water Resources Enactment (1998).

- Prepared a Manual on how to develop Policies, Guidelines and Rules in accordance with the Sabah Water Resources Enactment (1998) for use by DID Sabah officers.
- 6. Water Resources Management Specialist & Technical Manager in a Dept. of Irrigation & Drainage, Malaysia project - “*National Register of River Basins (RRB) Study – Phase 1*” awarded to KTA Tenaga S/B.
 - Responsible for leading a multi-disciplinary specialist team to develop an information management framework and national river basin register to support the integrated management of river basins in Malaysia.
- 7. Project Manager in a Putrajaya Corporation Study - “*Putrajaya Lake Catchment Management and Development Plan Study*” awarded to KTA Tenaga S/B.
 - Responsible for managing and leading a multi-disciplinary specialist team to develop the Putrajaya Lake Catchment Management and Development Plan.

D. Environmental Management

1. EMS Mentor/Trainer in a Construction Industry Development Board (CIDB) Malaysia’s pilot project to introduce ISO14001 EMS to contractors in Malaysia.
(Mentor/Trainer to 4 large construction companies – Bina Puri Sdn Bhd, Jeks Engineering Sdn Bhd, Pembinaan Letrik Mals Sdn Bhd and I-Nai Ventutre Holdings Sdn Bhd).
2. ISO 14001 EMS Consultant in a Gas Malaysia S/B project – “*Development of Gas Malaysia ISO 14001 EMS*” awarded to ERE Consulting Group S/B.
 - Responsible for providing specialist ISO 14001 EMS services to the project team and for conducting the ISO 14001 EMS awareness training
3. ISO 14001 EMS Trainer in a Public Works Dept. (JKR) ISO 14001 EMS Training Workshop
4. ISO 14001 EMS Trainer in a Malaysian Water Management S/B Workshop on “*Environmental Management for Construction Industry*”.
5. Environment & Water Resources Management Specialist in a Sime Darby project – “*Northern Corridor Economic Region (NCER) Masterplan*” awarded to KW Associate Planners.
 - Responsible for the environmental and water resources management aspects of the masterplan study.

E. Information/Knowledge Management

1. Consultant for Department of Irrigation and Drainage Malaysia on “*Development of the National IWRM Information Repository*” (<http://tinyurl.com/c5xesb9>)
 - Responsible for the development of the information management framework for the Repository and for mapping the extracted information resources into the Repository.
2. Consultant for Department of Irrigation and Drainage Malaysia on “*Development of the Malaysia IWRM Issues Mapping website*” (<http://tinyurl.com/cu3ae28>)
 - Responsible for extracting and mapping the issues into the website and categorizing them within the framework of the Issues-Based Information System (IBIS) website
3. Information Management Specialist in a National Hydraulic Research Institute of Malaysia (NAHRIM) project - “*Development of a National Lake Information Database for Malaysia*”
 - Responsible for reviewing NAHRIM’s Lake Study Report, ILEC World Lakes Database and proposing the information fields for the design of the web-forms for the National Lake Information Database by a web developer.

4. Information Management Specialist in a Dept. of Irrigation & Drainage, Malaysia project - *“Integrated Shoreline Management Plan Study for Pulau Pinang”* awarded to Putra Konsult S/B
 - Responsible for the non-spatial information management aspects of the Study, including leading the information management team that includes the GIS/spatial information management component.
5. Information Management Specialist in a Dept. of Irrigation & Drainage, Malaysia project - *“Integrated Shoreline Management Plan Study for Negri Sembilan”* awarded to the National Hydraulic Research Institute of Malaysia (NAHRIM)
 - Responsible for the non-spatial information management aspects of the Study, which involves the mapping & converting of the study report into Microsoft CHM format
6. Information Management Specialist in a Dept. of Irrigation & Drainage, Malaysia project - *“Development of a Decision Support System for the Integrated Shoreline Management Plan (ISMP) of Northern Pahang Coastline – Phase 1”* awarded to Jurutera Konsultant Bersatu S/B.
 - Responsible for providing inputs to the IT team on the information management aspects of the National Register of River Basin Study, mapping & converting the Main Study report into Microsoft CHM format and publishing it as the ISMP-North Pahang CD-ROM.
7. Information Management Specialist in a Dept. of Irrigation & Drainage, Malaysia project - *“National Register of River Basins (RRB) Study–Phase 2”* awarded to KTA Tenaga S/B.
 - Responsible for organising the information inputs from a multi-disciplinary specialist team to populate 4 river basins with water-related information as part of a pilot project to develop a national river basin information system to support the integrated management of river basins in Malaysia.
8. Information Management Specialist in an Economic Planning Unit, Malaysia project – *“Policy Strategies for the Conservation and Sustainable Use of the Highlands of Sabah and Sarawak”* awarded to WWF Malaysia.
 - Responsible for the non-spatial information management aspects of the Study, which involves the mapping & converting of the study report into Microsoft CHM format and publishing it as the Sabah and Sarawak Highlands Study CD-ROM.

F. Training, Workshop Facilitator & Expert Reviewer

1. Lecturer/Trainer in a 2-day Workshop on “Information Management to support Effective Water Management in River Basins (Jan 2009)” for National Hydraulic Research Institute of Malaysia (NAHRIM)
2. Chief Facilitator for a 5-day Regional Workshop on Developing Partnerships for Water and Climate Change Adaptation (Dec 2008) for National Hydraulic Research Institute of Malaysia (NAHRIM)
 - Conduct workshop, compile and edit workshop proceedings
3. Lecturer/Trainer in a 1-day Workshop on “EIA Review for Flood Mitigation Projects (May 2008)” as part of the Bangladesh Environmental Institutional Strengthening Program (BEISP) for DOE, Bangladesh.
4. Lecturer/Trainer on DID Urban Stormwater Management (USM) Manual for Dept. of Irrigation & Drainage (DID), Malaysia, and for the 5 state DID (Pahang, Kedah, Selangor, Sabah and Sarawak)

- Provided training to DID staff on the design principles and requirements of the Urban Stormwater Management Manual in November 2000, February 2001, March 2001, July 2001, October 2001, July 2002, December 2005
- 5. Lecturer/Trainer on HEC-RAS and HEC-HMS Hydraulic and Hydrological Modelling Programs for Public Works Dept. (JKR), Malaysia, October 2005
 - Provided training to JKR staff on the use of the HEC-RAS and HEC-HMS Hydraulic and Hydrological Modelling Programs
- 6. Lecturer/Trainer on HEC-RAS and HEC-HMS Hydraulic and Hydrological Modelling Programs for Dept. of Irrigation & Drainage (DID), Sarawak, December 2005
 - Provided training to DID Sarawak staff on the use of the HEC-RAS and HEC-HMS Hydraulic and Hydrological Modelling Programs
- 7. Lecturer/Trainer on the application of DID USM Manual & MIDUSS (Microcomputer Integrated Design of Urban Stormwater System) Program for Winz Connections
 - Developed and conducted 2-day training workshops (on average 3 workshops/year, since 2001 till now) on the application of DID USM Manual & MIDUSS Program for consultant drainage engineers in Malaysia
 - Developed and conducted 2-day training workshops on the application of DID USM Manual & MIDUSS Program for DID Sabah, DID Selangor, Kuala Lumpur City Council and Johor Bahru City Council engineers
- 8. Workshop facilitator for National IWRM Strategic Planning Workshops for Malaysia (2006) for National Hydraulic Research Institute of Malaysia (NAHRIM)
 - Conducted 3 stakeholder workshops on the preparation of a national Integrated Water Resources Management (IWRM) strategic plan for Malaysia
 - Prepared the proceedings of the 3 workshops into a book published by NAHRIM, entitled, “Streamlining Malaysia’s National IWRM Strategic Plan and Development of the Implementation Road Map (2007)”
- 9. Expert Reviewer on PFP Project Proposals for the Malaysian-Danish Partnership Facility Programme (PFP)
 - Conducted technical and project feasibility reviews of two project proposals (Groundwater Development and Wastewater Technology) for DANIDA sponsored Malaysian-Danish PFP