

Resume of Dr. Lim Ching Liang

Name : Dr. Lim Ching Liang
Profession : Metallurgist
Position : Resident Metallurgist
Director : Metallurgical Consultancy and Services Sdn. Bhd.
Metallurgical Testing Laboratory Sdn. Bhd.
Metal Reclamation Industries Sdn. Bhd.
Metacos Metallurgical Products Sdn. Bhd.
Metalim Holding Sdn. Bhd.
G. Manager : Universal Code Compliance Sdn. Bhd.
Sole Proprietor : Kejuruteraan Metalim
: Metacos Engineering and Testing Services

Academic Qualification

- 1987 awarded a Ph.D. by the University of New South Wales, School of Metallurgy and Materials Engineering.
- 1977 obtained a B. Sc. (Hons) from Birmingham University, U.K. in Metallurgy and Material Science.
- 1989 attended a course in Ultrasonic Testing (level II) at SIRIM
- 1990 attended a course in Radiation Protection at Unit Tenaga Nuklear
- 1990 attended a course in Welding Inspection and Quality Control at SIRIM.

Experiences

- **Set up** a Metallographic Laboratory in Selayang for failure investigation and consultancy work.
- **Set up** and own a Destructive Mechanical Test Laboratory in Klang Valley
- **Set up** and own another Destructive Mechanical Test Laboratory in Kemaman, Terengganu

- **Conduct Destructive Mechanical Tests** since 1988 for a wide range of industries, The test codes includes ASME, AWS, ASTM, API, AS, BS, DIN, EN, JIS, MS, TRD. Charpy impact test at sub-zero temperature up to minus 196 degree Celsius. Through thickness tensile test of 19 mm thick plate and above, hot tensile test, corrosion test to ASTM standards and testing of full size bolts and nuts are some of the examples
- **Carried out Non Destructive Test** - red dye penetrant tests and magnetic particle inspection of test coupons plus In situ hardness measurement and thickness gauging
- **Developed Welding Procedure Specification (WPS)** for the following projects:
 - a) KLCC
 - b) KLIA
 - c) LRT Stations
 - d) Toll Stations
 - e) Pedestrian Bridges
 - f) Building Structures
 - g) Auxiliary Equipment for Isa Smelt Furnace
 - h) Lead Smelter in Pulau Indah and **many more**
- **Conducted Welding Procedure Qualification Tests.**
- **Conducted Welder Qualification Test (WQT).**

Projects

I have in the past approximately twenty (22) years advising contractors on welding procedures (WPS), Procedure Qualification Records (PQR), Welder Qualification Test (WQT). I have either directly or indirectly (through contractors) involved in projects such as :

- a. Kuala Lumpur City Centre (KLCC),
- b. Kuala Lumpur International Airport (KLIA),
- c. Light Rail Transport (LRT),
- d. Mid Valley City in Kuala Lumpur,
- e. EMSB in Paka,
- f. GPP 5 and 6 in Paka,
- g. EMPI's Lawit Oilfield,
- h. Kapar to Lumut, Lumut to Perlis gas pipeline,
- i. Pergau Hydro Electric Dam in Kelantan,
- j. Manjung Power Plant and Powertek in Malacca

And Many more

Membership of Professional Bodies

- Associate member of The Institute of Metals, U. K. which carried the Abbreviation AIMMM

- Associate member of The Institution of Mining and Metallurgy
- Member of TMS of AIME
- Fellow of The Institute of Materials, Malaysia which carries the abbreviation FIMM

Lectures Delivered

- July 1992 - Conducted a lecture on Destructive Mechanical Tests for FMD inspectors and officers.
- 8th February 1993 - Conducted a lecture on Destructive Mechanical Test to participants of MMS Welding Inspection course.
- 16th February 1993 - Conducted a lecture on destructive Mechanical Tests to participants of MMS Welding Inspection course.
- 22nd February 1993 - wrote a paper for FMD seminar entitled "A Comparative Study Between ASME IX and BS 4870"
- 20th May 1993 - conducted a workshop on Q.C in welding for participants of Institute of Engineers, Malaysia course on Quality Control in Oil & Gas Structural Fabrication and Mechanical & electrical Installation.
- 24th July 1993 - conducted a workshop on Destructive Mechanical Tests to Public Works Department (JKR) [Kuantan] officers.
- Regular Saturday lectures of test codes and method to all the staff (in house training)

Other Activities

- Federation of Malaysian Manufacturers representative in the SIRIM Industrial Consultative Committee on Metal and Metal Working Technology.
- Organising Secretary of The First Regional Conference on Materials Science and Technology, 1-3 March 1990.
- A member of Federation Malaysian Manufacturer Committee on Technology.
- Council member of The Institute of Materials, Malaysia.
- Part-time lecturer (Master Degree) at University of Malaya
- Committee member responsible for setting up the syllabus of metal and materials testers for MVLK.
- Chairman of Foundry Division in MLVK
- Alternate representative of FMM in COMTEC.
- Chairman of welding committee of The Institute of Materials, Malaysia
- Chairman of the 3rd International IMM Conference on Materials held at Mandarin Oriental in 2001

Expert Witness in Court

- Expert Witness on Stainless Steel Corrosion for Matrix Sdn. Bhd. on 27th September 2010