

Our Professional Team

Our consultants are professionally qualified in the applied sciences and engineering, and are engaged full time in the work described; with graduates in chemical engineering, mechanical engineering, electronic and electrical engineering, metallurgy, chemistry and materials science. Every investigation is conducted with the view that the findings may need to be presented and justified in a court of law. Our consultants have appeared as expert witnesses in courts in Australia, Malaysia, Singapore, Thailand and the Philippines.



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Has overall responsibility for investigations and the quality of FSA's work. Has investigated over 1000 fires, explosions and engineering failures in 9 countries since 2001. He has also given evidence as an expert witness with respect to fire investigation, vehicle accident reconstruction, damage assessment and engineering failures. He is a certified fire and explosion investigator (CFEI) and certified vehicle fire investigator (CVFI) since 2005.



Anand Ghnavello
BE (Mechanical)
ME (Forensic)

Mechanical Engineer

Has carried out more than 200 investigations in various aspects of failure analysis throughout Peninsula and East Malaysia as well as Indonesia, Thailand, Philippines and South Korea.

Consultant for materials, metallurgical and corrosion failure analyses to the Oil & Gas and general industries including PETRONAS Floating LNG 1&2 (PFLNG1&2), PETRONAS Chemicals Fertiliser Sabah (PCFS), Pengerang Refining and Petrochemical (PRefChem), ExxonMobil Exploration and Production Malaysia Inc. (Exxon), Hengyuan Refining Company Berhad (HRC), Petrofac Malaysia, Asean Bintulu Fertilizer (ABF), Setegap Ventures Petroleum (SVP), Kebabangan Petroleum Operating Company (KPOC), Carigali-PTTEPI Operating Company (CPOC), SGS Malaysia, TUV NORD Engineering Services Malaysia, Reliacraft Bhd and Danamin Malaysia Bhd.



Ts. Kwok Wai Kit
BE (Metallurgical)

Metallurgical Engineer

Have investigated fires and explosion throughout Peninsula and East Malaysia, Thailand and Philippines with emphasis on chemical fires, spontaneous ignition, and determining effect of fire on stock.

A registered chemist, over sees the laboratory operation in Fire Debris analysis using GC/MSD.

Experienced failure analysis engineer, conducted over 3000 cases of failure analysis involving product defect failures for electronics, plating and semiconductor industry. Proficient in design of analysis and interpretation of data for product liability claim and failure analysis using advanced scientific analytical equipment such as: Scanning Electron microscope (SEM/EDS), Focused ion Beam (FIB), Fourier Transform Infra- red (FTIR), Xray Photo Spectrometer (XPS), Auger Electron Spectroscopy (AES), X-ray CT-Scan, Thermal analysis using Differential Scanning Calorimeter (DSC) and Thermal Gravimetric Analysis (TGA).

Advises on accidents resulting in alleged contamination and liaises with other laboratories both in Malaysia and overseas when specialized analytical services are required.



Cheong Kuok Sum
BSc (Industrial Chemistry)

Fire Investigator
Consulting Chemist

Carries out electrical related investigations, including lightning claims, transformer failures and cables.

Lightning: The lightning claims have included medical equipment, CNC machines and miscellaneous items in high rise.

Transformers: The transformer failures have involved oil cooled transformers ranging from 7.5 to 500MVA in Malaysia and Indonesia, and dry-type transformers in shopping centres. The cause of failure included bushing deterioration and/or water penetration, corrosive sulphur in transformer insulating oil, improper environment and poor maintenance.

Generators: Generator failures in power stations in Indonesia and Philippines, caused by insulation breakdown, poor operating regime, overspeeding, circuit breaker failure.

Miscellaneous: Miscellaneous accidents including 33 kV cable joints failures, oil cooled resistance starter, thyristor controlled reactor, motor starter panel, circuit breaker failure, inverter unit.

Also experienced in thermographic surveys and electrical fire investigation.



Lim Sze Hue
BE (Electrical)

Electrical Engineer

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