



Paul Charles Kohn

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Personal Information

Marital status: Married with three children, all now living independently
 Nationality: Naturalized Australian
 Place of Birth: England

London University

Bachelor of Science (Engineering).

1964

Courses

ICI Engineering	<i>Hazard analysis</i>
ICI Engineering	<i>Rapid Risk Ranking</i>
Queensland University of Technology	<i>Terotechnology</i>
Melbourne University	<i>Management for Engineers</i>
University of New South Wales	<i>Contract negotiation</i>
University of Sydney	<i>Water Systems Analysis</i>
University of Sydney	<i>Database design</i>
University of Sydney	<i>Advanced operations with Microsoft Access</i>
QAS	<i>Environmental systems auditor training</i>

Fields of special competence

- Environmental management
- Advice on storage of Dangerous Goods
- Electrical & mechanical isolations
- AS 4801 systems
- ISO 14001 systems
- ISO 9001 systems
- HACCP (food safety) systems
- Combined Management Systems
- Management of multi disciplined technical groups.
- Project management
- Maintenance technical and cost control techniques.
- Contract negotiation
- Electrical and Instrument Engineering
- Risk calculation
- Risk assessment
- Noise measurement & contour maps

Professional experience

1999 - present

AKP LEURA

Set up AKP LEURA to provide a range of consulting in the Management Systems, electrical and control systems fields. To date AKP Leura has assisted 10 sites to gain ISO 14001 certification and is continuing to assist sites with keeping ISO 14001 certification. AKP Leura has also provided auditing and training in the fields of Safety Systems, Quality Systems and HACCP. AKP Leura has also set up Safety System such as control of Dangerous Goods and LOTO (lock out tag out) systems. This includes audits of systems and advice on how to provide continuous improvement. AKP Leura has assisted a printing company, in conjunction with a grant from the NSW Environment Protection Authority, to obtain certification to ISO 14001 and through a cleaner production programme gain a number of awards. Environmental training is also provided for companies including on site training, the development of training programmes and induction training on a self-running CD-ROM. More training packages are in production. AKP Leura has run training for a number of companies in various aspects of Safety and Environment, including an Environmental Managers 2 day course and a one day course on Dangerous Goods.

1996 - 1999

Amcor Fibre Packaging (part of Amcor group)

Botany Mill

Environmental Manager.

Managing the environmental aspects of the paper mill operation reporting to the General Manager. This includes a thorough knowledge of the legal aspects of the environmental operation of the mill together with the development of an environmental management system integrated with the company quality and safety management systems. Part of the duties of this position includes liaison with the public and media on environmental problems. In addition I worked at Petrie Mill to combine their management systems whilst training a young graduate to take over the environment portfolio. I also negotiated the environmental licence for Petrie Mill with the Queensland Department of the Environment. The position also includes control of the water supply and recycling systems within the mill, the design and implementation of water systems projects including \$0.5 million water system automation project.

1995 - 1996

Australian Paper (part of Amcor group)

Petrie Mill

Manager, Resources Development

Managing the Resources Development Department reporting to the Business Manager. The Resources Development Department manages the long-term future of the Paper Mill in three areas:

- Operation of the existing co-generation plant, being the only such facility in Brisbane operating in parallel with the state electricity grid. The development of site energy by examining the feasibility of the construction of an Independent Power Producer on site to provide steam and electrical power to Petrie Mill and also export electricity to the grid.
- Development of an environmental system that allows Petrie Mill to obtain an environmental licence under the Queensland Environmental Protection Act 1994, and provide proof of due diligence regarding the environment.
- Development of the mill site, including liaison with local council on a proposed bypass road on mill property.

The Resources Development Department also controls communications, personal computers and security on site.

1987 - 1995

Australian Paper (part of Amcor group)

Petrie Mill

Engineering Services Manager.

Responsible to the Mill Manager, for all engineering services on the Petrie Mill site together with the operation of the Petrie Mill powerhouse. This includes the management of a multi disciplinary team of engineers and tradespersons to carry out maintenance and the development of capital projects. On average the maintenance budget is \$6 million and the capital budget is \$10 million a year.

During the time in this position I instigated and implemented the following:

- Change from purchase to leasing of forklifts and front-end loaders allowing for contract maintenance of the leased vehicles and the closing of the mill garage workshop.
- Change to give tradespersons area responsibility with an area person setting a budget and controlling the level of maintenance to achieve reduced down time within that budget.
- Change in powerhouse operating procedures to reduce staffing from 17 to 10.
- Change to contract maintenance to cover peak loads that allowed a manning reduction and provided control of contractors including the writing of contract documents. This change removed several unions from site in the building services area and moved boilermaking from specialist boilermakers to the mill fitters. For the first time in many years, the fitting shop was persuaded to undertake training outside their particular field.
- Change to join the electrical and instrument trades.

1984 - 1987

Williams Brothers - CMPS Engineers

Brisbane office

Senior Electrical / Instrument Engineer

Responsible for the design and commissioning of instrumentation and electrical projects including:

- Design and recommendation on the future instrumentation at Ampol Refinery.
- Design and instrumentation for wet end control at APM Paper mill at Petrie.
- Design and instrumentation for an ASO washer at Ampol Refinery.
- Design of a microcomputer based instrumentation system for a Hydrotreater at Ampol Refinery.
- Member of the boiler reliability committee at Ampol Refinery.
- Microcomputer based SCADA system for the Jackson to Moonie pipeline.
- Design and installation of minor instrumentation additions for the Jackson to Moonie pipeline.
- PLC based SCADA system for the Moonie to Brisbane pipeline.

1982 - 1984

Longworth & McKenzie Pty Ltd.

Brisbane office

Senior Electrical Engineer

Developed a Brisbane electrical consulting practice for Longworth & McKenzie from scratch.

Responsible for the design and/or commissioning of electrical and instrumentation projects including the following:

- Boiler controls at Ampol Refinery.
- Isomerisation plant at Ampol Refinery.
- Choice of RVP analyser at Ampol Refinery.
- Controls for the radial gates at Wivenhoe Dam.
- PLC controls for Santos at Port Bonython.
- Power, lighting, sound and vision systems for Albion Park Paceway.

1978 - 1981

Crooks Michell Peacock Stewart Pty Ltd.

Brisbane office.

Electrical / instrument Engineer.

Consulting work in the electrical and instrumentation fields including:

- A crushing and processing plant for Mary Kathleen Uranium.
- Microcomputer based tank farm telemetry for Ampol Refinery.
- Boiler controls for Ampol Refinery.
- PLC and microcomputer based controls for a clinker plant for QCL at Gladstone.
- Power and instrumentation for water pumping stations.
- Design of a microcomputer based radio transmitted SCADA system for the Darwin water supply system.

1972 - 1978

Australian Paper Manufacturers.

Maryvale Mill, Victoria.

Pulp Control Systems Engineer.

Responsible for all maintenance and new projects in the pulp mills, boiler and power house, chemical plants and bleaching plants. Also regular "on call" duty troubleshooting paper machines. Project manager for the installation of computer control to the batch digester house.

- 1967 - 1972** | **Sydney University, Falkner Nuclear Research Department.**
Narrabri, NSW.
Officer in charge, Cosmic Ray Telescope
 Day to day control for construction and operation of the cosmic ray telescope at Narrabri NSW.
 Extensive experience in electronic digital data acquisition and interface with computer systems.
- 1965 - 1966** | **GEC Hirst Research Centre**
London, England.
Engineer.
 Design of an atomic clock.
- 1964 - 1965** | **Intertherm Limited.**
London England.
Engineer.
 Design and application of high frequency induction and dielectric heating systems.

Patents and publications

- Design of an array to record air showers of energy up to 10^{21} EV.
- Pulsars and the acceleration of very energetic cosmic radiation.
- Preliminary results from the Sydney University Giant Air Shower Recorder.
- The arrival directions of high energy cosmic ray primaries.
- The curvature of the muon shower front in large air showers.
- The energy spectrum of cosmic radiation from 10^{10} to 2×10^{20} EV.
- Peculiar showers detected with the 100km^2 array.
- The muon structure function of very large air showers.
- Computer control of a batch digester plant.
- Patent on a control system for high frequency induction heating.
- Measurement and Control of Noise at Botany Mill.
- Beyond Compliance – Environmental Management Systems, Cleaner Production.
- Dangerous Goods Workshop.
- Environmental Managers Workshop

Additional professional activities

Member of Standards Australia committee on ISO 14001 (QR11)
 Member of the Corporate Environmental Managers Group
 Past member of the Appita executive committee
 Conference Chairman for Brisbane Appita conference
 President of Appita 1994/95
 Recipient of 1999 Appita Oertel Nadebaum Distinguished Service Award

Professional memberships

Registered Professional Engineer, NPER3
 Member of the Electrical College
 Member of the Institution of Engineers (Australia)
 Member of the Institution of Engineering and Technology
 Registered Professional Engineer (Queensland)