

Engineering Heritage Australia

National Conferences

on

Engineering Heritage

LIST OF PAPERS

Of All Conferences

From 1985 to 2007

**Papers Presented to the
Second National Conference on Engineering Heritage**

Melbourne, 20th – 22th May 1985

Economical Preservation of Places of Engineering Heritage

P. J. Butcher

Engineering Heritage with Reference to Mining

C. J. Davey

The Royal Engineers in Colonial Tasmania

P. H. MacFie

Nineteenth Century Engineering Societies

A. R. Haas

The Education of Australian Engineers Who Achieved Eminence Before 1940

J. M. Ferguson

History in the Civil Engineering Curriculum at the University of Canterbury

G. Mullenger

Engineering Education and the Heritage of Knowledge

D. F. Radcliffe

Lessons from the Past for Engineering Students

P. Milner

*Development and Operation of a Technological Museum at Sovereign Hill,
Ballarat*

P. L. McCarthy and H. C. Cordner

Treatment of Artefacts - Conservation or Destruction

P. J. Kentish

Development of the Melbourne Engineerium

D. S. Atkinson

The First Sydney/Brisbane Steamship Service

R. L. Whitmore

Construction of the Fitzroy Dock, Cockatoo Island

E. Balint

Victoria's Engineering Heritage first Hundred Years 1842 –1942

C. G. T. Weickhardt

Telford, Stephenson and Brunel-Pilots of the Future

P. S. Staughton

Melbourne, 20 - 22 May 1985 continued

*Engineering Considerations in an Historical Argument: The Ridley/Bull
"Stripper" Controversy*

L. J. Jones

Monier and Anti-Monier: Early Reinforced Concrete in Australia

M. Lewis

The First Australian Aeroplane and Engine: The Work of L. J. R. Jones

E. D. Daw

History of a History: The Woomera Story

J. M. R. Frost

Early Automatic Telephony in Australia

J. F. Moynihan

Mr. Watt's Stupendous Steam Engine

L. M. Crossley

**Papers Presented to the
Fourth National Conference on Engineering Heritage**

Sydney 5th – 8th December 1988

Road Tunnel Versus Busby's Bore

J. D. Brewer

The Development of the Stamp Battery in Victoria

Davey

Modern Engineering Preserving our Engineering Heritage: Air Conditioning in the Powerhouse Museum, Sydney

D. M. Rowe

The Pichi Richi Railway, a Case Study of Heritage as a Resource

W. Stacy

Irrigation Developments in Victoria: 1881 - 1890: A Resource for Tourism and Education

J. M. Ferguson

A Resource in Electrical Engineering History

J. E. Bedi

Australia's First All-Steel Monoplane

E. D. Daw

The Echuca Bridges - Meeting the Engineering, Historic and User Needs

W. J. Atkinson, K. J. Burke, G. P. Deutsch, P. Selby Smith & R. Wedgwood

The Conservation of the Angle Vale Laminated Timber Arch Bridge

J. Hawes, D. Legoe, W Stacy & D. Young

William Sandford, A Flawed Ironmaster

R. I. Jack

The Blast Furnace at Lithgow, NSW, and the Presentation of Ironmaking Sites

A. Cremin

Engineering Heritage as a Resource for Education and Tourism

P. Milner

Establishing Engineering Heritage through Citation Searching

M. G. Lay

Examination of a Failed Douglas Fir Truss from V/Line Workshops

E. P. Lhuede, J. Ward, C. Simmons & H. B. Day

Sydney 5th – 8th December 1988 - continued

The Structural Restoration of the Big Stable

P. G. Allsopp

Fire Protection in Historic Buildings: The Work of the Fire Advisory Panel

O. P. Phillips

Early Concrete Structures in New Zealand

G. G. Thornton

W. J. Hancock, Engineer and Pioneer Radiographer

J. F. Moynihan

Pymont Bridge - Construction and Restoration

E. G. Trueman

The Building of William Sandford's Lithgow Blast Furnace, 1905-07

D. K. Reynolds

Accessibility to Scientific and Engineering Heritage

R. Bhathal

The Conservation Plan for Martin's Creek Quarry Crushing and Screening Plant

C. F. C. Crisp

Construction of the Illawarra Line and the Como Bridge

W. Whittaker

Assessment and Conservation of Engineering Relics

D. M. Godden

**Papers Presented to the
Fifth National Conference on Engineering Heritage**

Perth 3rd – 5th December 1990

A Heritage of Waste

M. N. Clarke & L. Coltheart

Cylindrical Arched Dams of New South Wales, 1896-1908: Work of a Courageous Nature".

P. Mackenzie, P. Heinrichs & L. Coltheart

Engineering Works to 1990: The 1990 Plaquing Project of the Institution of Professional Engineers, New Zealand

A. Winwood, J. Pollard, G. Thornton & P Mahoney

Misinterpreting Engineering Heritage

R. L. Whitmore

Engineers' Papers: An Undervalued Historical Source

M. R. Dwyer

The Road to Heritage

I. K. Waples

The Computer Conservation Society - Machines of the 1950s Restored to Life in the Science Museum, London

W. S. Elliott & A. E. Sale

Interpreting the Engineering Heritage of Telephony in Western Australia, 1887-1987

J. F. Moynihan

Into Space from Australia - the Early Days

M. L. James

The Rejuvenation of Weak Earthquake Damaged Masonry: a Preliminary Study

C. C. E. Candy, R. Bodycoat & P. G. Trueman

Conservation Management of Iron Steamships - the S.S. Xantho (1872)

I. D. MacLeod

Darlington Point Bridge Reconstruction

D. J. Fraser

Western Australian Marine Engineering. Its History and Preservation: A Case Study of the West Ho Marine Engine Restoration

R. W. Richards, V. L. Richards & S. R. May

The S.S. Xantho Engine: A Unique Engineering Relic

M. McCarthy

Perth 3rd – 5th December 1990- continued

The Golden Mount – Central Queensland's First Triumph

R. F. Boyle & C. Gistitan

The Newcastle Earthquake and Heritage Structures

J. W. Jordan ,J. N. Ludlow & E. G. Trueman

The Stannary Hills and Irvinebank Tramways in Northern Queensland: A Window into Our Mining Heritage

R. Kerr

A Preliminary Survey of the Literature on Industrial and Mechanical Engineering in Australia

D. A. Cumming & K. Leverett

Researching and Conserving a Unique World War One German Tank

M. G. Whitmore

**Papers Presented to the
Sixth National Conference on Engineering Heritage**

Hobart 5th – 7th October 1992

Cowra Bridge - Presentation of a Unique Structure

D. J. Fraser

Echuca Bridge Footway and Lattice Arches

B. R. Fredericks, R. W. Speers and P. R. Hurst

Australian Databases and Engineering Heritage

D. A. Cumming and K. Leverett

Oral History and Engineering Heritage

R Raxworthy

The Engineering of the Port of Melbourne

P. Milner

Duck Reach - The First Significant Hydro-Electric Power Development in Australasia

H. H. McFie

Moorhen Power Development

C. R. Smith

Not only the Hardware but the Software Too

W. A. Doubleday

"Heritage Talking" - A Semiotic Analysis of a Major Railway Museum

J. K. Longworth

The Ballarat Railway Station and Yards

R. L. Martin, R. J. Ford and A. J. Albazzaz

Recording Engineering Heritage: the Work of L. J. R. Jones

E. D. Daw

Some Aspects of Victorian Torpedo Warfare

D. M. Cahill

Fire Precautions in Buildings from Our Past

S. Rogleff

Callington Mill, Oatlands - Its History and Restoration

H. T. Murphy

Hobart 5th – 7th October 1992- continued

Stabilising Heritage Buildings Founded on Reactive Clays - Dealing with Conflicting Requirements

J. W. Jordan and B. J. Collins

The Tasmanian Royal Engineers Building

P. E. Spratt

Is the Water Board Worth Preserving? A Management Perspective

J. K. Longworth

Port Waratah. The Physical Evidence of BHP Integrated Iron and Steel Works, 1866 - 1991

B. J. Collins and P.P. Fenwick

Historic Bridges in New Zealand: Five case studies

G. G. Thornton

Mt. Morgan - A New Beginning

R. F. Boyle and C. Gistitin

The Demolition of the Union Hill Quartz Roasting Kilns, Maldon

R. G. Supple

**Papers Presented to the
First Australasian Conference on
Engineering Heritage**

Christchurch, New Zealand 1994

Learning Service Achievement Our Engineering Heritage
F N Stace

C Y O'Connor - Public Works Engineer 1843 - 1902
R D Grant, A Moulds

*Issues in Heritage Management of a 19th Century Provincial New Zealand Town -
Oamaru: A Case Study*
Helen Stead

Engineering Heritage of the Rocks - Sydney
Austin Chapman

Claremont: A Case Study of Engineering in Building Conservation
J W Jordan

An Historic Bridge Lives On
J A Ince

Rakaia Gorge Bridge - The Truss That Isn't
G M Jones

*Great Lake, Tasmania and Waddamana Hydro-electric Power Development, First
(1916) and Second (1923) Stages an Engineering Heritage Perspective*
H H McFie

Water for Ipswich
Em Prof Ray Whitmore

*Development of Water Power in Southern New South Wales and the Australian
Capital Territory*
KM Baker

Old Ways in a New Land - The Case of Light Railways
J K Longworth

Bush Ingenuity
P J Mahoney

Christchurch Trams Roll Again!
ML Gadd

Australia's Overland Telegraph Line 1870 - 1872
N Leybourne-Ward

Christchurch, New Zealand 1994 - continued

The CA-15 Fighter - An Item of Aeronautical Engineering Heritage
RL Martin

Mr Frankham Builds a Fort
David Veart

Some Challenges Faced by Early New Zealand Power Developers
P Campbell

Cobb River Hydro-Electric Power Scheme
A K Blair

Nineteenth Century Engineering for the Ballarat Water Supply
RJ Ford

The Brunner Industrial Site: A Colonial Coalbrookdale
J R McKinlay

Cocks Eldorado Dredge
R G Supple

Gone With the Wind: The Development of Windmills and Their Use in New Zealand
I Jonson

A New Way in an Old Land - Australia's First Railway
D C Kemp

The Construction of the Napier-Gisborne Railway
G G Thornton

Learning From Our Past Mistakes
D Beauchamp

Old Values and New Approaches
K M Baker

Old Masonry Chimneys: Are They Safe?
S A Wiltshier

The Evolution of Nineteenth Century Timber Roof Trusses: Design and Fabrication in Britain and Her Colonies
K J Wyatt

**Papers Presented to the
First International and Eighth Australian
Engineering Heritage Conference**

Newcastle, Australia 29th September – 2nd October 1996

Keynote Address

The Royal Marine a Soldier and Sailor Too: Engineers, Historians and the History of Technology

Dr Emory Kemp

Parramatta Single Arch Dam, From 1856 and Still Going Strong

R. Ash and P. Heinrichs

The Infrastructural Heritage of a Rural Economy

R. Cox and M. Gould

The Introduction of Monier Arch Bridges to Victoria

A. Holgate, G. Taplin, L. Alves and C. Hamann

Reuse of Railway Stations in NSW and a Sense of Place

I. Brady and J. Longworth

Heritage Street Lighting: Casting Light on the Future

K. Baker

Historical Study on the Development of Bridge Technology and Western Influence in Modern Japan

H. Isohata

Reinstatement and Strengthening of the Earthquake Damaged 1894 Building at Hunter St, Newcastle - Hunter Institute of Technology

H. Gohil

The Western Springs Waterworks - Auckland

A. Aitken

Contemporary Technology Collection

J. Barker, J. Pickles and M. Smith

Recording Civil Engineering History: The Work of the Institution of Civil Engineers' Panel for Historical Engineering Works

R. Otter

The Heritage in People: Oral History in Engineering

M. Clarke

The Trees of Canberra Avenue

T. Lawrence and R. Boden

Newcastle, 29th September – 2nd October 1996 - continued

Raine Island Beacon - Conservation Works on National Heritage Structure

P. Spratt

Conserving Wooden Bridge Heritage

P. Mahoney

Historic Flour Mills SA: Diversity and Evolution

N. Leybourne-Ward

Pumping Iron – New Zealand Windmills

I. Jonson

Tasmanian Water Powered Flour Mills: Early 19th Century Survivors

K. Preston

Clutha Coal

R. Grant

The Inventory and Assessment of Victoria's Historic Mining Sites

R. Supple

Joadja Creek Oil Shale Mining Operations

A. Hutton and L. Knapman

Vision for the Open Air Railway Museum Railway Heritage in the Year 2000

D. Ellsmore,

Reconstructing the Walhalla Railway - to Serve Again

W. Doubleday

Southern Riverina Destinations 1853 - 1900 or the Engineering Heritage and Public Architecture of the Road, River and Railway Destinations in the Southern Riverina of New South Wales, Australia 1853-1900

E. Hagenbach and P. Hagenbach,

Transport Heritage "The Long Haul"

I. Waples,

The Development of Aircraft Manufacturing in Australia

R. Martin

Issues Regarding the Assessment of the Historical Value of Civil Engineering Works

R. Otter and P. Cross-Rudkin

Coal, Railways, and the Heritage of Newcastle - The Impact of Coal Mining and Rail Transport on the City's Heritage

C. Doring and M. Doring

**Papers Presented to the
9th National Conference on
Engineering Heritage**

Ballarat, 15th - 18th March 1998

Keynote Address by Dr Jan Penny, Chair Victorian Heritage Council.

Development of the Rock Drill

J. Whitehead

Gold Dredging in Central Victoria

G. Ralph

Gold Mining Structures in New Zealand

G. Thornton

Issues in the Design and Construction of Wheelers Bridge, Lawrence

A. Holgate, G. Taplin & L., Alves

Joshua Thomas Noble Anderson (1865 - 1949). Engineer. A Biographical Sketch

B. Lloyd

Victoria's Timber Bridges

D. Chambers, M. Churchward, K. McInnes & D. Moloney

Engineering a City

D. Kemp

The Metropolis on the Swan River: Shaped by its Roads and Bridges

L. Edmonds

Oliver Hill Coastal Artillery Battery Rottneest Island

J. Paten

Dams in Early Australia

F. Installer

Identifying Australia 's Heritage Dams

B. Cole, L. Coltheart & A. Moulds

*Edward Doubloon and the Mass Concrete Gravity Dam on Stony Creek for the
Geelong Water Supply*

B. Harper

*Some Professional Engineers Working in Auckland in the First Half of the Twentieth
Century*

P. Lowe

Ballarat, 15th - 18th March 1998

The Lydiard Street Railway Gates Ballarat - The Drama of their Preservation
R. Martin & G. Hood

Conservation Planning and a 1905 Electric Tramcar
W. Doubleday

The Land Rover in Australia: Post War Workhorse Turns Fifty
A. Maeder

Rich Vein of Learning. An Historical Assessment of Ballarat 's Role in Australian Engineering Education
A. Beggs-Sunter

Worlds Oldest Extant McNaught Beam Engine
F. Lakin

Arltunga Revisited
N. Leybourne-Ward

Industrial Refrigeration in the Adelaide Metropolitan and Hills Area: An Engineering Heritage Study
A. Ellis & J. Pickles

The Great Lake (Waddamana "A ") Power Development in Tasmania
H. Gilbert

Reflections on Writing an Engineering Company History
T. Williams

The Engineering Heritage Associated with Coal Shipment from Newcastle 1877 to 1967
P. Cockbain

Mining of Shale Oil at Joaja Creek and Glen Davis
A. Hutton & L. Knapman

Winstones Lunn Avenue Quarry, Auckland
B. Barley

Construction and Restoration of the Brisbane Customs House
E. Brown

Training Project Managers in Heritage Management
J. Longworth

The Dilemma of Reuse of Obsolescent Industrial Complexes
J. Lamborn

**Papers Presented to the
Second Australasian Conference on Engineering Heritage**

Auckland 14th – 16th February 2000

The Story of Hydro Electric Development on the Waikato River

A. W. Aitken, BE. (Civil) FIPENZ. (retired)

Past voices - Future lessons

Rob Aspden, FIPENZ, FIEAust, Formerly Resource Manager, Power Engineering Group, Opus International Consultants Ltd

Kingston Powerhouse's Past in the ACT's Future

Keith Baker, BE, MApp Sc., MIEAust., Engineering and Heritage Management Consultant, Canberra

Bucketladder and Paydirt

John Barry, PhD. Geological Consultant, Richmond. Nelson.
Nick MacArthur. MSc. MAuslMM. Placer Mining Consultant, Dunedin.

Redundant Industrial Heritage: The Challenges and the Solutions!

Ian Baxter, Director, Heritage Council of Western Australia

The Victorian Engineers of University Square

David Beauchamp, BE, MIPENZ, MICE, MIEAust

Restoration of New Zealand's Largest Sawmill Tramway Viaducts

Warren Bird. BE(Civil), MIPENZ, Senior Environmental Engineer Opus International Consultants, Auckland

William Ferguson, Founding Father of the Engineering Profession in New Zealand

Warwick T Bishop, FIPENZ, FIEAust. F/EE - CEO IPENZ

Constructing our Past - the Importance of New Zealand's Engineering Heritage

Roger Blakeley, Secretary for Internal Affairs

Recycling Hamilton's Historical Bridges

Cliff Boyt, Design Services Manager, Hamilton City Council

Historic Places Trust Guidelines for the Fire Protection of Historic Buildings

Carol A. Caldwell, Caldwell Consulting Ltd, Greg Bowron, Historic Places Trust

The Benmore - Haywards HVDC Link

J. M. Clark, BE (Hons), ME, MIPENZ, Transpower New Zealand Ltd

Auckland 14th – 16th February 2000- continued

A Synergistic Approach to the Recording, Interpretation and Conservation of a Built Environment

Ronald Cox, Director, The Centre for Civil Engineering Heritage, Trinity College, Dublin
Colin Rynne, Director of Irish Heritage Management Studies, (/university College Cork, Cork

A History and Development of Fire and Life Safety in Australia

Andrew J Ellis, BE (Mech), Grad IEAust. Grad AIRAH

Auckland's Electric Tramway Heritage - Celebrating 100 Years

Bruce R Gamble and Ian W Stewart, MOTAT - Auckland's Museum of Transport, Technology and Social History, New Zealand

Clarks Flour Mill and Water Race - Maheno, North Otago

R.F. Hill, BE. (Civil) FIPENZ. Retired

Salvage Of the Dredge "Hapai"

P.S. Hutchinson AMICE, AMNZIE, C.F. Mead, BE., AMNZIE. Engineering Staff A Auckland Harbour Board at the time of the salvage.

Heritage Engineering - Our Professional Obligation; Practical Developments in Achieving our Goals Robert W. Irwin, Chairman, Construction Techniques Group Ltd, Auckland, New Zealand
Director, Remedial Engineering Pty Ltd, Australia;
Director of MRR Technology, BBR Group of Companies. Switzerland

Large Timber Structures in Western Australia

Bruce W S James, BE. Hon FIEAust, FIEE. CPEng, Chairman, Engineering Heritage Panel, Western Australia Division of The Institution of Engineers, Australia

Mining of Kerosene Shale at Glen Davis - Was it a Success or a Costly Failure?

Leonie Knapman, Oil Shale Ghost Towns, 59 Regent St, Mittagong NSW 2575
Adrian Hutton, School of Geosciences, University of Wollongong, Wollongong NSW 2522

C.R. Fold's Contribution to Seismic Engineering in New Zealand

A.D. Landells, Falloon and Wilson Ltd, Consulting Engineers, Christchurch, New Zealand

G. Mullenger, Department of Civil Engineering, University of Canterbury. Christchurch, New Zealand

New Zealand's Marine Engineering Heritage

W.A. (Bill) Laxon, Consultant to Brookfields, Lawyers, and Marine Historian

Auckland 14th – 16th February 2000- continued

Australia's Heritage System - Building on a quarter century of heritage achievement

Heritage - Linking the Past and the Future

Keynote speech by Bruce Leaver, Executive Director, Australian Heritage Commission, First Assistant Secretary, Australian & World Heritage Group

The Overland Telegraph Station Alice Springs - A Conservation Study

Neville Leybourne-Ward. BArch, BApp Sc (Biology), Dipl Conservation Studies, FRAIA, RIBA

Some Aspects of Australasian Academic Engineering - from Rankine to Southwell

Peter G. Lowe, Department of Civil and Resource Engineering, University of Auckland, Private Bag Y2019, Auckland, New Zealand.

Heritage at Risk : The Rape of our Resources

Robert G. Norman, QSO, BE. (Hens), MSc. (Hens), Past President and Distinguished Fellow Institution of Professional Engineers NZ

Fire Safety Upgrades of the Oamaru Historic Precinct, Excelsior Hotel, and Bangor Homestead

Anthony R. Parkes. Caldwell Consulting Ltd, Deborah L. Painter, Caldwell Consulting Ltd

A Case for the Preservation of Historic Machinery with Special Reference to Less Appreciated Items as Refrigerated Machinery

William H. Pitt. BE MIEE, MIMechE, MIPENZ

Benalla Water Supply

Max Richards, FIEAust, DipCE, ME, MBS. Former Engineer Benalla Water Trust

Engineering the Old

Jeremy Salmond, MArch, FNZIA, Chairman, ICOMOS New Zealand Principal, Salmond Architects, 5A Victoria Road, Devonport, New Zealand

The Hoffman Brick and Tile Company, Melbourne, Australia

R B Sandie, FIEAust., B J O'Neill, FIEAust.

**Papers Presented to the
Eleventh National Conference on Engineering Heritage**

Canberra, 8th – 10th October 2001

Groovy Aerodynamics in Pre-European Australia

Ray Nelson

The Inadequate Impact of Federation on the Australian Land Transport System

Max Lay

A Water Supply Scheme and Politics of the 1830s

Gary Barker

The Royal Mint, Sydney 1853-1926

Michael Bogle

Some Impacts of Immigration on Australia's Engineering Heritage

Alex Marsden

Bridging Adelaide's River Torrens: Pre-and Post -Federation Technologies

Bill Stacy & Richard Venus

Foundries, Federation & Free Trade

Matthew Churchward

South Australian Pre-federation - Engineering a new technological society

Ian Schomburgk

Georges Head Beehive Fortification Sydney Harbour: Structure and Materials Investigations

David Moorehead & Anne Cummins

Municipality of Hunters Hill, 19th Century Maritime Heritage: Problems in managing and accounting for heritage listed items

Don Cottee

Fortification, Federation and a Single Shot in Anger: Green Hill Fort, Thursday Island

Geoff Ginn & Gordon Grimwade

Revitalising Wallangarra Interchange Railway Station

Greg Hallam & Tom Knobel

The Golden Pipeline

Godfrey Lowe

The Centenary of Federation Plaquing Program of EHA

Robin Black

Canberra, 8th – 10th October 2001- continued

Eight Heritage Dams in Tasmania and Some Federal/State Issues

Bruce Cole

Theory, Practice and Engineering Heritage in Australia and New Zealand

Peter Lowe

Southern Highlands Canberra Connection: Federation and Foundations

Greg & Leonie Knapman

Building and Conservation of Canberra, the National Capital

Sandy Blair & Susan Bell

Eucalyptus Deanei: Some Aspects of Railway Engineering Before and After the Federation of the Australian States

Keith Smith

Roads, Bridges and Federation

Dick van der Molen & Colleen Lazenby

Australian Defence Forces: the defence of Port Phillip Heads 1859 –1945

James Ferguson

Monash, Anderson, transport and communication 1894-1914

Geoff Taplin & Alan Holgate

Engineering a Nation: development of telephone telegraph and data facilities in Australia in the 20th Century

Jim McCarthy

Linking the Nation - The Victoria-Tasmania Submarine Telephone Cable 1936

Ian Atkinson

Arltunga: arid land gold mining hope and disaster at Federation

Neville Leybourne-Ward

The Development of Kalgoorlie as the International Centre for Innovation in Gold Metallurgy 1900-1907

Richard Hartley

WA Government Stamp Batteries 1898 to 1987

Rod Sheppard

Electricity and Water Supply: ActewAGL Moving from a Local to a National (and International) Focus

Paul Perkins

The Federal Government's Role in Manufacturing and Skill Transfer to Private Industry: case studies from the Small Arms Factory, Lithgow, the Royal Mint, Melbourne Branch and the Royal Australian Mint

Graham Conran

Canberra, 8th – 10th October 2001- continued

An Early Electric Passenger Lift

Deane Kemp

Preserving Engineering Heritage of the Newcastle Steelworks

John Chambers

The Post War Project in WA: A discussion about two case studies into Australian engineering development during the second half of the 20'h C.

Leigh Edmonds

Vincent Rivulet Bridge Tasmania: A small bridge with an interesting history

Ivan Gaggin

Canning Dam Remedial Works 1999-2001

Tony Moulds

The Contribution of Sir John Monash to 20th Century Engineering in Australia

Alan Holgate & Geoff Taplin

The Snowy Mountains Scheme - More than Engineering Heritage

Ken Lister

The Unseen Heritage: 100 years of engineering drawings and records

Ken Wyatt & Margaret Chambers

Some National Presidents of IEAust.

Bruce Sinclair

New Commonwealth Heritage Legislation, an Update

Bruce Leaver

**Papers Presented to the
Eleventh National Conference on Engineering Heritage**

Toowoomba, 29th September – 1st October 2003

Why engineering heritage matters

Baker, K

A case of civil service involvement in engineering in 1941

Barker, G F

A brief history of the Board of Professional Engineers of Queensland: 1930 - 2002

Boyce, WH

Minimum energy loss structures in Australia: historical development and experience

Chanson, H

Oral history in engineering: issues and opportunities

Clarke, M N

Applying business planning principals to engineering heritage projects

Cockbain, P

Engineering heritage: beyond the technical

Cohen, K T

The overlooked heritage of Somerset Dam: A story of droughts floods disagreeable water and lost chances

Cossins, G

Bourke lock and weir - A history. Navigation of the Darling River and the type of lock and weir required

Gourlay, M R

Bourke lock and weir - A history. Construction and consequent political and legal action

Gourlay, M R

The true history of the design of the Melbourne-Murray River Railway, Victoria

Harper, B C S

Design influences from France - George Gordon and the design of the Stony Creek reservoir

Harper, BCS

Dams of the Royal National Park, Loftus, New South Wales

James, P

Lime mortar and the conservation of historic structures

Jordan, J W

Our roadside heritage

Kemp, D; Welsh, A and Stacy, W

Are ballast top, timber opening, railway underbridges significant heritage?

Longworth, J

Toowoomba, 29th September – 1st October 2003- continued

Is the transom top timber opening, railway underbridge over Cucumber Creek, Canowindra of State significance?

Longworth, J

Melbourne's main outfall sewer; an engineering achievement of the 1890's

Miller, P

The industrial and engineering heritage of the floor malting industry in

Queensland: The former William

Jones & Son (Maltsters), 1907 malt house, Toowoomba

Osborne, R

A brief history of Northern Territory groundwater development: wells, bores and drilling rigs

Phelts, B

Mills, millers and mill engineers

Ridgeway, N

The development of the Mary Kathleen uranium mine

Schombergk, I

Laurence J. Hartnett and the Holden Car

Scott, DR

Renewable energy in the sunshine state

Sheridan, N

The conservation of masonry chimney stacks

Spratt, P and Jordan, J W

Historic metal road bridges in Victoria

Vines, G; McInnes, K and Deutsch, G

**Papers Presented to the
Second International Conference on Engineering Heritage
and
NSW Railways History Seminar**

Sydney, 21st –23rd September 2005

Engineering Heritage Conference papers

Opening Address

Her Excellency Professor Marie Bashir AC, Governor of New South Wales

Recovery, Restoration & Operation of Historical Aircraft

Bob De La Hunty, OAM

Have We Missed the Train? - A Discussion on the Passing on of Dying Trade Skills

Ross Goodman

Keeping the Knowledge - The Challenges of Archiving Engineering

Documents

Margaret Miller

Archiving, conserving and interpreting photographs

Kylie Rees

*Sustaining Heritage - Conserving Sets & Classes of Heritage Items -
Assessing Sets & Classes of Heritage Items for the New South Wales State
Heritage Register*

Cameron White and Bruce Baskerville

The Conservation and Adaptive Re-use of The Sydney Mint

Robert Griffin

Saving the Un-Saveable- Non Adaptable Engineering & Industrial Structures

Paul Mahoney

Heritage Dams and Public Safety - Striking a Balance

Gonza Kagwa and Jocelyn Potts

Conserving Timber Structures

Reece McDougall

When Does 'Rubbish' Become Heritage Significant?

Dr Wayne Johnson

Future of Railway Heritage in NSW

Reece McDougall

Sustaining Heritage in Large Organisations: Roads and Traffic Authority NSW

Maria Whipp

*Moving Forward Whilst Looking Back - Integrating Heritage into a Modern
Mining Operation*

Greg Morris

Sydney, 21st –23rd September 2005 - continued

Maintaining a Viable Volunteer Organisation: The Sydney Heritage Fleet
Hugh Lander

Managing Redundant Defence Sites - The Experience of the Sydney Harbour Federation Trust
Geoff Bailey

Computers as Historical Artefacts
Matthew Connell

The Soul of an Old Machine: Managing Industrial Moveable Heritage
MacLaren North

Business Planning for Posterity
Professor Michael Hough

Management of Heritage Bridges
P B Manamperi

Safety & Legal Issues in Operating a Heritage Train
John Glastonbury AM

Maintenance and operation of the 1885 rope-driven Craven Bros gantry crane

Bill Jordan and Peter Cockbain

The Convict Trail: 1990-2005
Paul Budde

Beyond the Plaque: Engineering Heritage and the NSW Interpretation Guidelines
W H Nethery

Aspects of Engineering Heritage Conservation in the United Kingdom
David Greenfield

Future Directions: Connecting People to their Heritage
Paul Mahoney

Current Issues and Future Directions for Engineering Heritage in the USA
Professor Emeritus Emory L. Kemp

Burning Issues and Brighter Futures: A View from Australia
Kristal Buckley

Sydney, 21st –23rd September 2005 -continued

NSW Railways History Seminar papers

John Whitton - The Introduction of British Technology to Australia
Dr Robert Lee

The Great Zig Zag
Basil Hancock

*The Changeover to American Bridge Technology in New South Wales,
Australia - Why 1892?*
Dr Don Fraser

The Sydney to Melbourne Railway: Yesterday, today and tomorrow
Dr Philip Laird

Locomotive No. 1 - the first steam locomotive in New South Wales
Margaret Simpson

Electrification of Sydney's Railways
Ian Brady

The Great Eveleigh Railway Workshops
Richard Butcher

The Development of N.S.W. Railway Signals
Robert T. Taaffe

**Papers Presented to the
Fourteenth National Conference on Engineering Heritage**

Perth, 18th – 21st November 2007

Opening address

Lieutenant General John Sanderson, AC

Promoting Heritage Conservation Practice for Professional Engineers

Bill Jordan

*History in Civil and Structural Engineering is More than Conservation of Heritage: a
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