

AUSTRALIA ICOMOS
BRICKWORK CONSERVATION WORKSHOP - BRISBANE
PRESENTED BY DR GERARD LYNCH



THURSDAY 13TH MARCH 2014
THE OLD MUSEUM — STUDIO 1
480 GREGORY TERRACE BOWEN HILLS
<http://oldmuseum.org/>

Gerard Lynch is an internationally acclaimed and highly respected historic brickwork consultant, master bricklayer, educator and author. He followed a traditional apprenticeship as a bricklayer and, over the years through his natural ability within his craft, gained many awards, including the Silver and Gold Trowels from the Brick Development Association and is a Licentiate of the City and Guilds of London Institute.

Gerard is a former Head lecturer of Trowel Trades at Bedford College, pioneering a revival of gauged brickwork, in which he is considered the world's leading authority, and other almost forgotten traditional craft skills; and is affectionately known by the historic term, 'The Red Mason'. He returned to contracting and set up a private consultancy practice in 1992. For further information visit: www.brickmaster.co.uk.
The program for the one-day workshop follows.

REGISTRATION

\$165 Australia ICOMOS members; \$187 non members(inc-GST)

Inclusive of workshop hand-out material, lunch, morning and afternoon tea

To Register please follow the link:

<https://www.registernow.com.au/secure/Register.aspx?ID=12011>

Parking is available at the RNA Showgrounds, Royal International Convention Centre
(access via Gregory Terrace, adjacent to the Old Museum)
see map following. Cost \$12.00 per day

We thank Austral Bricks especially for their valuable sponsorship and the Qld Chapter, Architects Institute of Australia for their support.



Refuel

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FORMAL
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Australian Institute of Architects



BRICKWORK CONSERVATION WORKSHOP BRISBANE PROGRAM

8:30 am	Opening introductions and welcome by Australia ICOMOS
8:45 am	Dr Gerard Lynch 'The Red Mason' - introduction Mr Maurice Potrzeba - introduction
9:00am - 10:30 am	Lime and lime mortars lecture • Why use lime on traditional brickwork - How a solid wall breathes • Comparing traditional solid wall and modern cavity masonry • Parts of a mortar - 'binder', 'filler' and 'plasticiser' • Properties of a good mortar • Classifications - historical and modern • Hardening and setting of lime mortars • Ratios & 'The Myth in the Mix' • Aggregates - types, shapes, 'As-Raised' and 'Washed' - the use of additives • Mortar strengths • 'Re-working' or 'knocking-up' and 'curing' - temperature/climatic constraints Examination of materials practical • Natural, 'Roman', Cement & Early Artificial, 'Portland', Cement • Mortar analysis – what should we be looking for?
10:30am - 10:45am	Questions & Answers
10:45am - 11:00am	Morning tea
11:00am - 12:30pm	Historic forms of jointing and pointing lecture • Traditional joint finishes – 'flush', 'struck', 'double-struck', 'ruled', 'tuck', 'weather-struck and cut' • Tools and equipment Re-pointing brickwork lecture • Considerations prior to re-pointing • Removal of earlier, inappropriate, modern Cement: Sand re-pointing • How choice of mortar and profile effects aesthetics • Traditional profiles • Exposed aggregate 'Heritage' finish
12:30pm - 12:45pm	Questions & Answers
12:45pm - 1:45pm	Lunch
1:45pm - 2:45pm	Historical overview of bricks and brickmaking lecture • Overview of Brick-earth and clays • Traditional seasonal, Brickmaking, process • Clamps and kilns • 'Up-draught' and 'down-draught' - 'intermittent' and 'Continuous' kilns • Mechanisation - 'extruded wire-cuts' and 'pressed' bricks • Types and Classifications of bricks(including modern strengths/classifications)
2:45pm - 3:00pm	Questions & Answers
3:00pm - 3:15pm	Afternoon tea
3:15pm - 5:00pm	Overview of causes of failure of bricks and brickwork lecture
5:00pm - 5:15pm	Questions & Answers and conclusion of course

Failure of Bricks	Failure of Mortar	Failure of Brickwork
Under firing - spalling - loss of face	Poor binder	Neglect - lack of maintenance
Wrong brick for location	Loss of binder	Water penetration
Salt crystallisation	Dirty sand	Bad practice - poorly filled joints
Chemical action	Insufficient binder: filler ratio	Failure of related parts
Frost damage	Soluble salts	Leaning wall
Use of OPC mortar	Insect damage	Rust/Corrosion
Aggressive masonry cleaning	Vegetation	Overstressing masonry
	Sulphate attack on OPC	Accidental damage/Vandalism

Conservative Repair of Historic Brickwork	
Approach and philosophies	Masonry cleaning
Survey stage - reports and specifications	Repairing broken bricks
Importance of craftsmanship and correct tools	Repairing failed outer leaf on solid wall brickwork- 'facadism'
'Plastic repairs', 'slips', cutting-out and reversing'	Recording dismantling and rebuilding
Matching brick - use of re-claimed & modern bricks	Repairing defective arches
Matching mouldings	(If time allows possible case study)
Crack/stitch repairs	

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GETTING THERE & PARKING

