

how, when and why • contemporary and historic built environments

The Two Great Lime Workshops

Bob Bennett MBE, UK

The Pratt Foundation/ISS Institute Fellow

Suitable for...

- Archaeologists
- Architects
- Bricklayers
- Builders
- Building surveyors
- Cemetery trusts
- Conservators
- Church owners
- Decorators
- Educationalists
from university and TAFE
- Engineers
- Framers
- Government agencies
- Heritage advisers
- Heritage consultants
- Historians
- Interior designers
- Local government
- Manufacturers
- Painters
- Plasterers
- Professional associations
- Property owners
- Quarries
- Sculptors
- Specifiers
- Stonemasons
- Suppliers
- Urban planners
- and post-graduates and
final year students

Fellowship Sponsor



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Universally during the past 25 years there has been an increasing awareness of the importance of lime in historic architecture and, in particular, its use in conservation. A number of authoritative bodies such as English Heritage, the Building Research Establishment, the Society for the Protection of Ancient Buildings and the Standing Joint Committee on Recruitment and Training of Architects for the Care of Old Buildings, have produced and published a great deal of valuable academic work on the subject.

“Lime is wonderful stuff”, says restoration consultant Bob Bennett ...

He drops his trowel into a tub of lime putty and scoops some out in a quivering, brilliant white lump. Then he mixes it with three parts sand to make a malleable, cohesive mortar. “It’s sticky too,” he says, deftly tossing a bead of mortar onto a 15 ft high beam where, defying gravity, it remains.

“Lime is a living, breathing material,” Bennett enthuses, “Living because it can move slowly with a building without cracking; breathing because it respire moisture, avoiding the damp build-up characteristic of so many over-sealed modern houses ...”

Yet chalk, or more commonly limestone (both are forms of calcium

carbonate), is where the lime cycle begins and ends. The limestone is burnt in a kiln to drive out the carbon dioxide and moisture, leaving behind quicklime, or calcium oxide. The cooled quicklime, which looks like white gravel, is then “slaked” by being added to water: In a vigorous reaction, which sets the water boiling, it forms a putty-like emulsion of lime, or calcium hydroxide, which can be stored indefinitely in air-tight tubs. Once used and exposed to air, the lime absorbs carbon dioxide to harden, like the alchemical snake eating its own tail, back into the calcium carbonate from whence it came.

Article by Oliver Tickell
Reproduced from “Country Living”

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Acknowledgements

ISS Institute would like to thank the following:

Holmesglen Institute of TAFE for sponsoring the use of their facilities, use of equipment, supply of materials and morning and afternoon refreshments.

Distributing conference and workshop brochures to their listings

South Australia Heritage Paul Stark, Heritage Branch, Department for Environment and Heritage
NSW Office, NSW Department of Planning

RAIA ISS Institute thanks the RAIA for distributing to Victorian members via Vmail.



Workshop 1 Slaking and Mortars

Content...

- **Illustrated lecture** covering slaking, non-hydraulic (including lime putty) and hydraulic lime, mortars, renders and aggregates.

- **Case studies** *What happened - what was learnt*

Shakespeare's Globe Theatre

Design and manufacture of lime mortar for the foundations.

Highclere Castle

Repair and conservation of the stone masonry to north, south and east elevations.

- **Slaking demonstration**

- **Hands-on workshop**
Mortars - mixing and application - do's/dont's.

Date•Time

Wednesday 17th October 2007
9.30 am to 5.00 pm

Venue

Holmesglen Institute of TAFE
Bricklaying area
Building 4
Batesford Road
Chadstone

Format

These special events comprise illustrated lectures, demonstrations, group and individual discussion and a hands-on project. Participants will work in teams.

Workshop 2 Surface Treatments

Content...

- **Illustrated lecture** covering renders and lime washes - mixing, pigments and colour.

- **Case studies** *What happened - what was learnt*

Stonehenge

Removal of graffiti

Windsor Castle

Major projects, including the Henry VIII entrance, the Norman Arch, the Guard room and the supply of lime washes for the recent restoration.

- **Lime wash and renders demonstration**

- **Hands-on workshop**
Lime wash • Renders
- mixing and application.

Date•Time

Thursday 18th October 2007
9.30 am to 5.00 pm

Venue

Holmesglen Institute of TAFE
Bricklaying area
Building 4
Batesford Road
Chadstone

Format

These special events comprise illustrated lectures, demonstrations, group and individual discussion and a hands-on project. Participants will work in teams.

Registration Form

The Two Great Lime Workshops



Post, email or fax to:

ISS Institute, Suite 101,685 Burke Road, Camberwell 3124
T 03 9882 0055 F 03 9882 9866 E issi.ceo@pacific.net.au

Fee Fees are subsidised by ISS Institute, are GST free
Tick appropriate box please

- \$145 - Workshop 1 : Slaking and Mortars**
 \$145 - Workshop 2 : Surface Treatments

Register for both workshops

Workshop 1 : Slaking and Mortars	\$145
Workshop 2 : Surface Treatments	<u>\$145</u>
	\$290

- Special Rate: \$260**

Register for all three events

Workshop 1 : Slaking and Mortars	\$145
Workshop 2 : Surface Treatments	\$145
The Great Lime Revival Conference	<u>\$190</u>
	\$480

- Special Rate: \$390**

Payment Method:

- Cash (Pay directly at ISS office or by arrangement)
 Cheque (Make payable to 'ISS Institute')
 Postal Order (Make payable to 'ISS Institute')
 Credit Card (Diners and American Express are not accepted)
 Bankcard Mastercard Visa

Name on Card _____

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If you have not received an email or fax of confirmation, please contact the ISS Institute office on 9882 0055 to find out the status of your application - do not assume that because you have sent an application you are automatically enrolled in the conference

PRINT CLEARLY PLEASE

Where did you hear about this workshop? _____

Your purpose for doing this course? _____

Name _____

Organisation _____

Title/Position _____

Address _____

_____ Postcode _____

Phone: Work/Home _____

Fax _____

Mobile _____

Email _____

Conditions of Registration

I hereby agree to abide by the regulations of the ISS Institute

Your Signature _____ Date _____

PLEASE READ

Enrolment • Entry Requirements In general no formal entrance requirements are necessary.

• Conditions of Registration Complete the registration form attached. Enrolment can be made by email, post or fax. Cash must be paid at the ISS office - do not mail. An email or fax of confirmation will be sent after full payment of fee. Note: A position in the seminar will not be reserved without payment being received by this office. Enrolment is on a firstcome-first-served basis based on time of receipt of fees. If you have not received an email or fax of confirmation, please contact the ISS Institute office on 9882 0055 to find out the status of your application. Do not assume that because you have sent an application you are automatically enrolled in the seminar

• Refunds Please check your enrolment carefully. We regret that a refund will only be given if the workshop does not proceed. If you withdraw from the seminar after registration is received by ISS Institute, a \$50 administration fee is payable. Refunds will not be given to those who withdraw three days or less prior to the workshop

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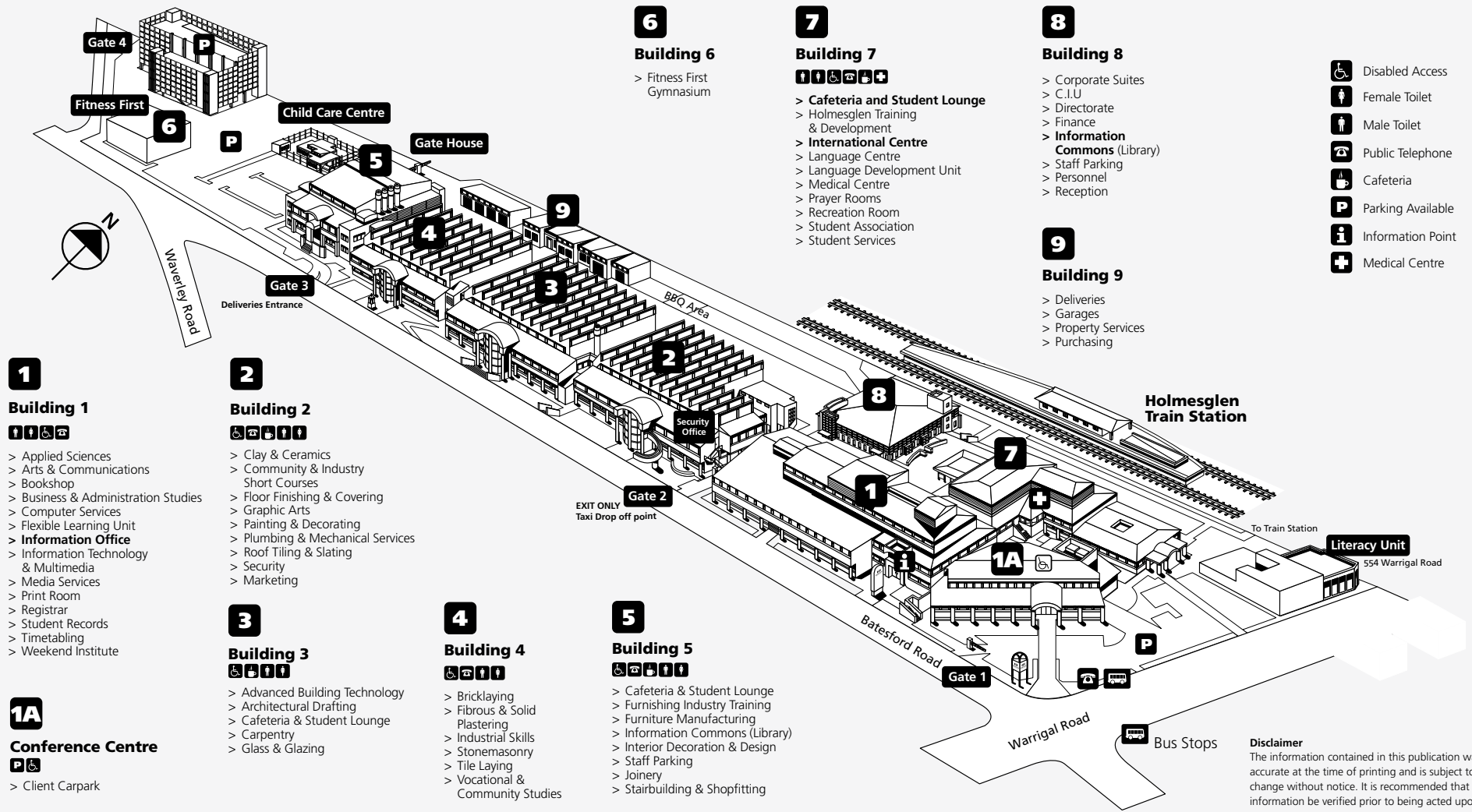
March 2007

Holmesglen Institute of TAFE Chadstone Campus Guide

Batesford Road, Holmesglen
(PO Box 42 Holmesglen 3148)
Telephone (03) 9564 1555
Facsimile (03) 9564 1606



Melways Reference: 69 F1



- 1**
Building 1
↑ ↓ ♿ ☎
- > Applied Sciences
 - > Arts & Communications
 - > Bookshop
 - > Business & Administration Studies
 - > Computer Services
 - > Flexible Learning Unit
 - > **Information Office**
 - > Information Technology & Multimedia
 - > Media Services
 - > Print Room
 - > Registrar
 - > Student Records
 - > Timetabling
 - > Weekend Institute

- 1A**
Conference Centre
P ♿
- > Client Carpark

- 2**
Building 2
♿ ↑ ↓ ♿ ↑ ↓
- > Clay & Ceramics
 - > Community & Industry Short Courses
 - > Floor Finishing & Covering
 - > Graphic Arts
 - > Painting & Decorating
 - > Plumbing & Mechanical Services
 - > Roof Tiling & Slating
 - > Security
 - > Marketing

- 3**
Building 3
♿ ↑ ↓ ♿ ↑ ↓
- > Advanced Building Technology
 - > Architectural Drafting
 - > Cafeteria & Student Lounge
 - > Carpentry
 - > Glass & Glazing

- 4**
Building 4
♿ ↑ ↓ ♿ ↑ ↓
- > Bricklaying
 - > Fibrous & Solid Plastering
 - > Industrial Skills
 - > Stonemasonry
 - > Tile Laying
 - > Vocational & Community Studies

- 5**
Building 5
♿ ↑ ↓ ♿ ↑ ↓
- > Cafeteria & Student Lounge
 - > Furnishing Industry Training
 - > Furniture Manufacturing
 - > Information Commons (Library)
 - > Interior Decoration & Design
 - > Staff Parking
 - > Joinery
 - > Stairbuilding & Shopfitting

- 6**
Building 6
> Fitness First
Gymnasium

- 7**
Building 7
↑ ↓ ♿ ☎ +
- > **Cafeteria and Student Lounge**
 - > Holmesglen Training & Development
 - > **International Centre**
 - > Language Centre
 - > Language Development Unit
 - > Medical Centre
 - > Prayer Rooms
 - > Recreation Room
 - > Student Association
 - > Student Services

- 8**
Building 8
- > Corporate Suites
 - > C.I.U
 - > Directorate
 - > Finance
 - > **Information Commons (Library)**
 - > Staff Parking
 - > Personnel
 - > Reception

- 9**
Building 9
- > Deliveries
 - > Garages
 - > Property Services
 - > Purchasing

- ♿ Disabled Access
- ♀ Female Toilet
- ♂ Male Toilet
- ☎ Public Telephone
- ☎ Cafeteria
- P Parking Available
- i Information Point
- ⊕ Medical Centre

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