

Designing with Green Timber – Art and Practice

24 June 2008, Lindsay Stewart Lecture Theatre, Craiglockhart Campus, Napier University, Edinburgh



A revival in interest in the application of green timber in the design of contemporary structures and buildings has taken place in recent years. With this has come a strong demand for more practical information on the subject. Architects, engineers and other construction professionals often have very little training in the use of green timber and many believe such knowledge is only relevant to the repair, restoration and conservation of historic structures. 'Designing with Green Timber – Art and Practice' aims to address this knowledge gap and to demonstrate the many ways in which green timber can be the material of choice in the architecture and structural design of modern buildings. The use of large section green timber such as Douglas fir, European larch and European oak for primary structural frames is explored through the particular experience of the architects, structural engineers and specialist timber contractors involved in a number of recent projects in Scotland.



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Content

This timely one-day seminar introduces the concept of green timber's appropriateness to contemporary structures and outlines the traditional ways in which the material has been used to excellent effect. Local sourcing of material lies at the heart of renewed interest in the use of green timber and knowledge of the strength characteristics and grading of different species is crucial when developing engineered timber solutions to new structural challenges and opportunities. 'Designing with Green Timber – Art and Practice' aims to provide a comprehensive introduction to the subject, some indication of the possible pitfalls involved and clear guidance on the specification and construction of structures and buildings using locally grown green timber. With an emphasis on sustainable construction, Scottish examples are used throughout to illustrate the potential to develop new forms of contemporary architecture in all parts of the country.

Topics to be covered

- > What do we mean by 'green timber'?
- > Green timber versus alternatives – sustainability; eco credentials
- > Green timber past and present - traditional and modern framing techniques
- > Frame design – frame types and styles; design aesthetics
- > Engineering - structural considerations; grids and layouts; achieving large spans; joints and connectors
- > Regulatory issues: how traditional framing techniques have been adapted to suit the modern world
- > Design and cost - key cost drivers; adding value
- > Specialist construction skills – experience and advice as keys to success when designing with green timber
- > Specification - which species to use; strength grading and timber selection; sourcing material; shrinkage & deflection – problems or opportunities?

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Who Should Attend

The seminar is aimed at architects, structural engineers, contractors and students who wish to develop a sound understanding of the use of large section green timber in the design of contemporary buildings and structures.

Continuing Professional Development

The seminar is accredited for CPD purposes by Napier University. Certificates of attendance can be obtained on request from the Centre for Timber Engineering.

Venue

Lindsay Stewart Lecture Theatre, Craiglockhart Campus, Napier University, Colinton Road, Edinburgh.



Publication

Included in the cost of the seminar is a copy of the recently published TRADA publication, *Green Oak in Construction*, by Peter Ross, Christopher Mettem and Andrew Holloway. Normally priced at £65.00, the book describes the whole process of designing a building based on a green oak frame and describes how the frame will behave over time. One of the only recent publications on this important subject, it includes comprehensive specification information, design data, grading rules and eleven contemporary case studies.

Cost

Attendance at the seminar costs £100.00 + £17.50 VAT per person and includes a copy of *Green Oak in Construction*, lunch and refreshments throughout the day. A 20% discount is available to practices/consultancies making multiple bookings, reducing the cost to £80.00 + £14.00 VAT per person.

Please complete and return the booking form as soon as possible (by email, fax or post). Bookings can also be made by telephone with appropriate credit/debit cards. Cheques should be made payable to Napier University. Invoices can be provided for bookings submitted with purchase order numbers. No refunds can be made for cancellations made later than one week before the event.

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Programme

9:00 – 9:20	Registration and coffee		
9:20 – 9:30	Welcome from Chair.	Peter Wilson, Centre for Timber Engineering	www.cte.napier.ac.uk
9:30 – 10:10	Keynote Address: The past, present and future of green timber design.	Peter Ross, President, TRADA	www.trada.co.uk
Traditional and Contemporary Framing Techniques			
10:10 – 10:45	Large scale frames, small scale challenges.	Jenny Humphreys, Simpson & Brown Architects	www.simpsonandbrown.co.uk
10:45 – 11:25	Pods, Barns and Oak Wedges.	Andy McAvoy, Blast Architects	www.blastarc.co.uk
11:25 – 11:45	Coffee / Tea		
Large Section Green Timber in Contemporary Architecture			
11:45 – 12:20	Building with green timber for education and training.	Paul Rodgers, RMJM Ltd	www.rmjm.com
12:20 – 13:00	Contemporary architecture combining green and engineered timber solutions.	Karen Pickering, Page\Park Architects	www.pagepark.co.uk
		Neil Dely, Buro Happold	www.burohappold.com
13:00 – 14:00	Lunch		
Engineering Green Timber			
14:00 – 14:40	Architecturally challenging structures & hybrid solutions in green timber.	Andy Parker, Carpenter Oak & Woodland Co Ltd	www.carpenteroakandwoodland.com
14:40 – 15:10	Simple joints for green timber structures.	Callum Bennett, SKM Structural Engineers	www.skmconsulting.com
15:10 – 15:30	Coffee / Tea		
Specification & Sourcing of Green Timber			
15:30 – 16:10	Designing with local timber: a case study.	Mark Williams, HRI Architects	www.hri-architects.com
16:10 – 16:50	Building a practice on green timber framing.	Neil Sutherland, Neil Sutherland Architects LLP	www.neilsutherlandarchitects.com
16:50 – 17:00	Chairman's Summary / Questions.		

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Booking form:

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This form may be completed on screen and printed. Please return completed form by post or fax to:

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