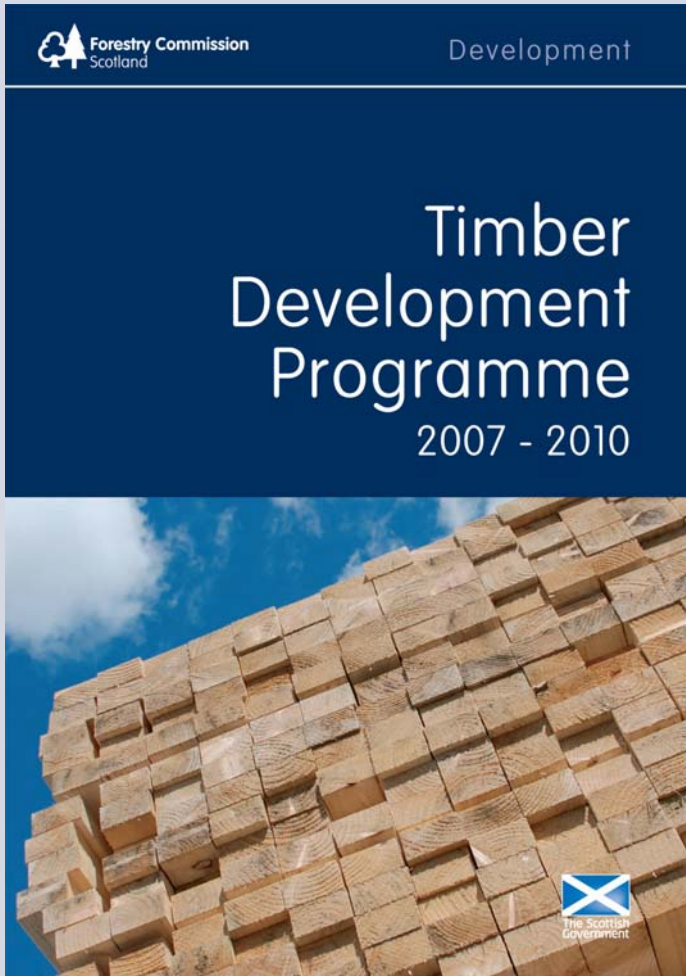


Conference on Scots Pine Forres

John Kissock

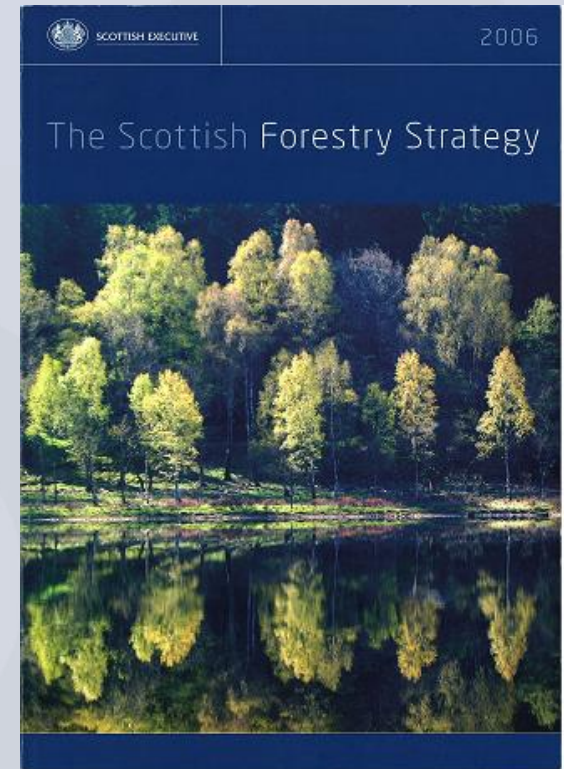
October 2 2009



- **Timber Industry response (pre-FIAB) to challenges within the SFS.**
 - **Produced following widespread consultation within the forestry sector during 2006.**
 - **Development and implementation is overseen by a Steering Group chaired by John Kissock.**
 - **Partnership approach.**
 - **Launched by Environment Minister in December 2007.**
- “Great opportunity to develop a supply chain and a value chain which will significantly benefit Scotland’s economy and environment”.*

Scottish Government Strategic Objectives	Scottish Forestry Strategy Outcomes	Associated High Level Objectives
Greener	High Quality, Robust Environment	<ul style="list-style-type: none"> •Climate change (including renewable energy) •Bio-diversity •Environmental quality(soil and water)
Healthier	Improved Health and Wellbeing of People and their Communities	<ul style="list-style-type: none"> •Woods for health •Access and recreation
Safer and Stronger		<ul style="list-style-type: none"> •Community partnerships •Cultural heritage
Smarter		<ul style="list-style-type: none"> •Learning and skills.
Wealthier and Fairer	Innovative and Competitive Businesses	<ul style="list-style-type: none"> •Develop more efficient and competitive timber supply chain •facilitate the development of markets for forest products. •facilitate rural business diversification •increase the contribution of forestry to tourism

Key themes: **Climate change**
Timber
Business development
Community development
Access and health
Environmental quality
Biodiversity



Key themes:

Climate change

TIMBER DEVELOPMENT PROGRAMME

Business development

Community development

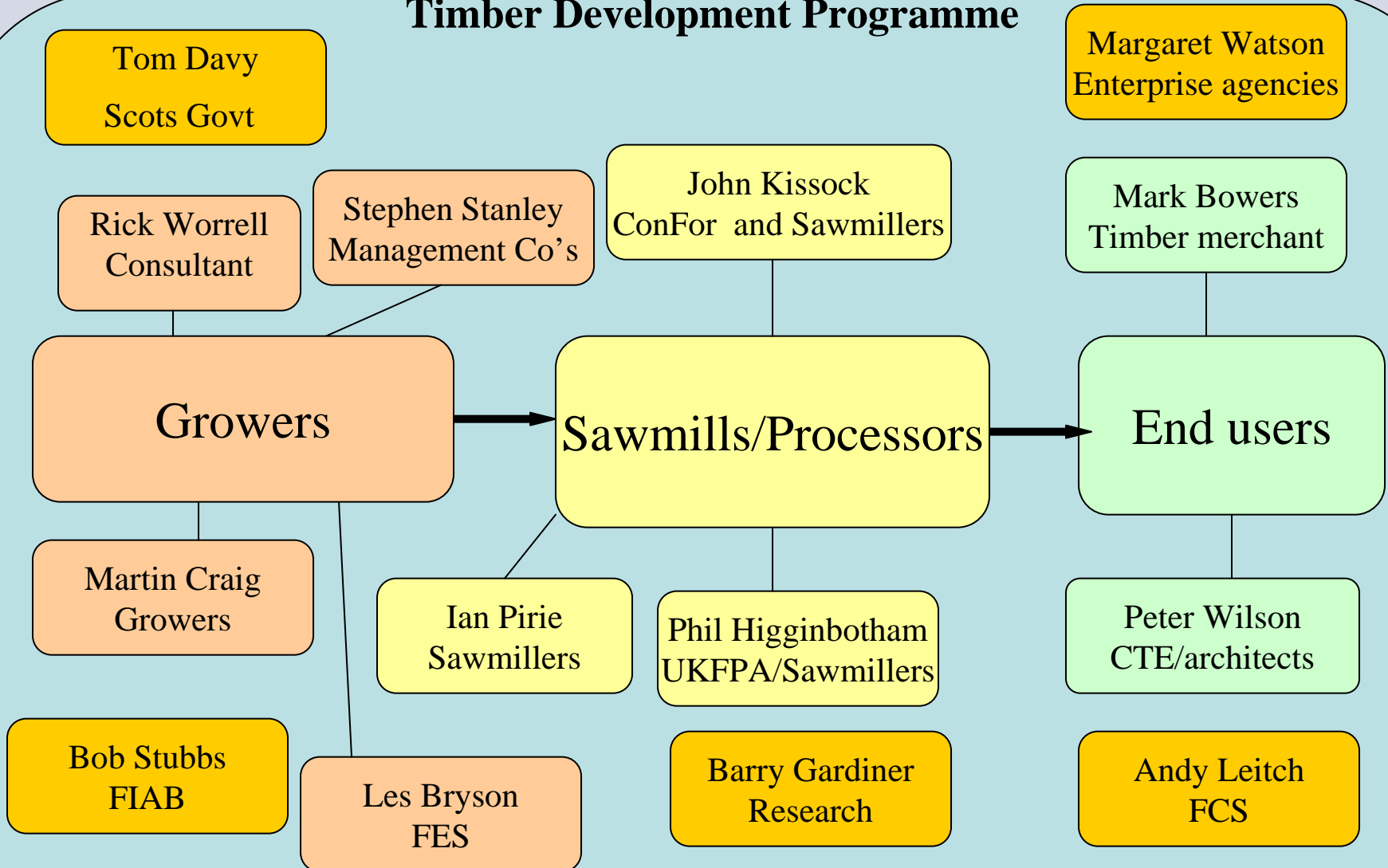
Access and health

Environmental quality

Biodiversity



Timber Development Programme



A. Promote a predictable and stable timber supply.

B. Encourage more use of timber and timber products.

C. Encourage improvements to timber supply chain efficiency.

D. Encourage improvements to the quality of the growing stock

Key Issues

- Forecasting of future timber **quantity and quality.**
 - Achieving a sustainable yield



Outputs

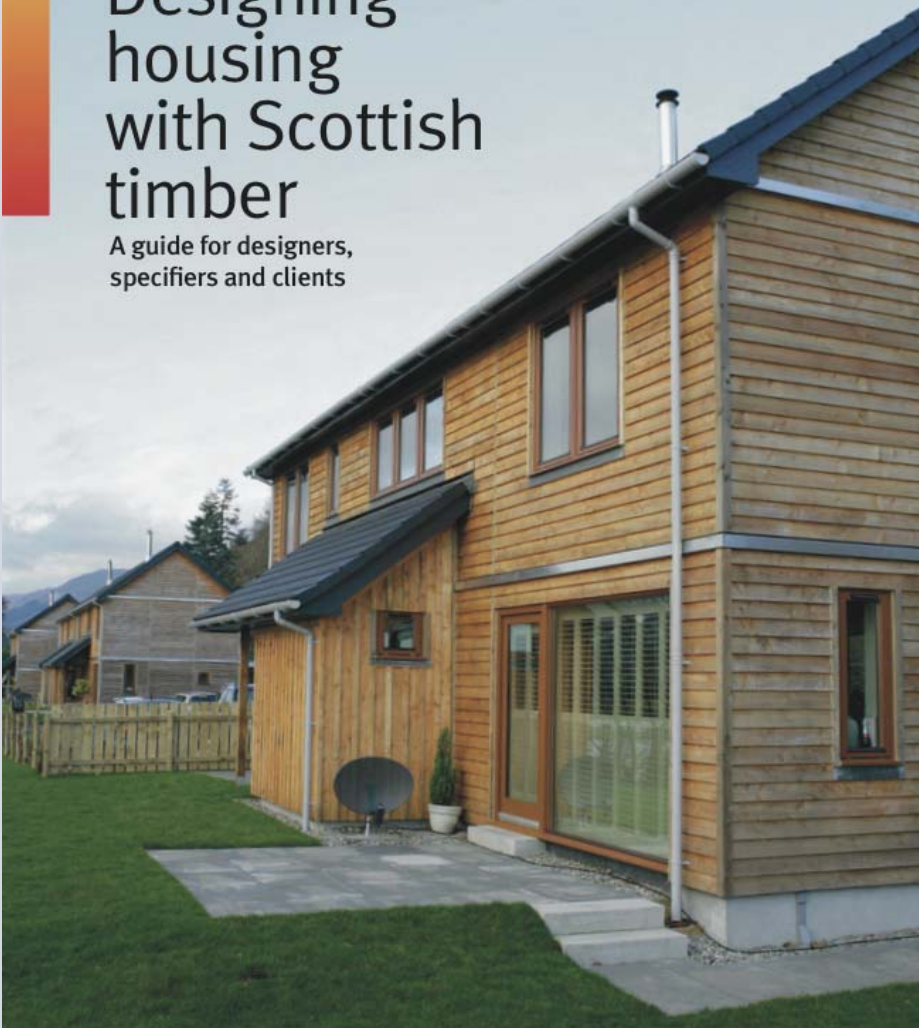
- Production forecast industry working group - workshops and meetings.
- Work validating assumptions from acoustic tools and lasers for quality assessment.





Designing housing with Scottish timber

A guide for designers, specifiers and clients



Sustainable Construction Timber

Sourcing and specifying local timber

Ivor Davies

Centre for Timber Engineering, Napier University, Edinburgh, UK
Prepared on behalf of Forestry Commission Scotland



A quiet revolution has been taking place in Scotland's architecture. Wood is once again to the fore in construction and has established a strong, contemporary presence in the nation's built environment. Many different building types now unashamedly sport their timber credentials, and not only at a domestic scale - whether on fire stations or offices, multi-storey car parks or medical centres, wood is now definitely seen to be good. *New Timber Architecture in Scotland* illustrates 90 exemplar projects and demonstrates clearly that there is no single building type circumscribed to the use of this adaptable, variable and infinitely renewable material. Too long out of fashion, timber is now widely specified and has become an important design element in some of the most innovative projects being built today. The projects selected for inclusion are not the work of a few superstar architects: they represent the output of a significant percentage of architectural practices in Scotland and illustrate a burgeoning confidence in timber as an existing, contemporary construction material. *New Timber Architecture in Scotland* aims to stimulate others to follow their lead.

Peter Wilson

New Timber Architecture in Scotland

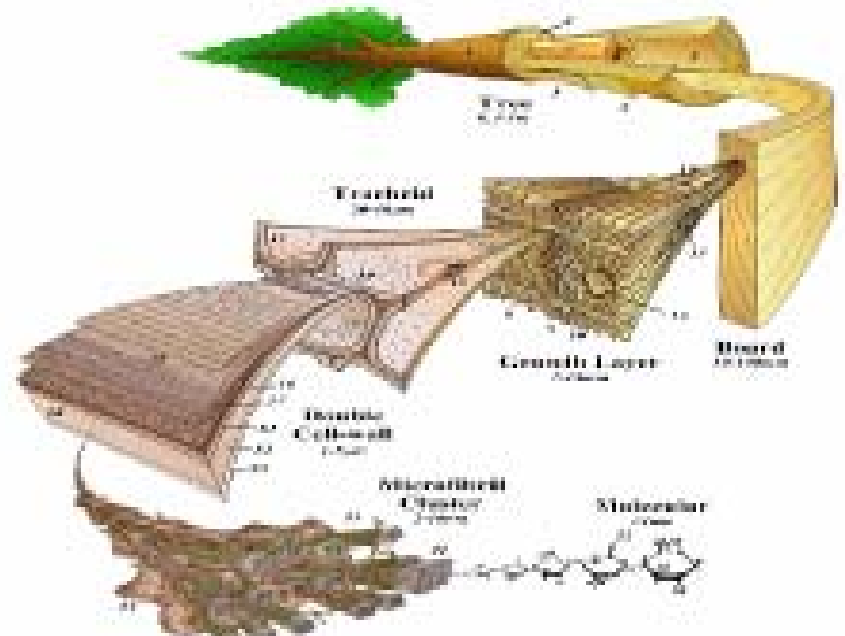
New Timber Architecture in Scotland

Peter Wilson



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9781904320000

greenleaf



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CTE
THE CENTRE FOR TIMBER ENGINEERING

Edinburgh Napier
UNIVERSITY

USING NIR SPECTROSCOPY TO MEASURE THE DURABILITY OF LARCH

Final report on a feasibility study
2nd March 2009

Ivor Davies¹, Philip Turner¹, Elspeth MacDonald²,
Tamara Bush³, Richard Murphy⁴, Michael Ray⁴,
John Moore³ and Andrew Lyon¹.

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² Forest Research, Northern Research Station, Roslin, UK
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⁴ Imperial College, London, UK

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Adobe Reader - [ECCM updated Carbon Benefits of timber in construction (Aug 06).pdf]

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eccm

Forestry Commission Scotland
Greenhouse Gas Emissions
Comparison - Carbon benefits of
Timber in Construction



A report by the Edinburgh Centre for Carbon Management Ltd.
August 2006

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Procuring sustainable timber

Back to Scottish timber industry home

Sustainable construction

Forestry Commission Scotland (FCS) is committed to helping increase the volume and percentage of Scottish sustainable timber and timber products used in construction.

What are we doing to promote the use of timber in construction?



Sustainable Construction Timber publication

This publication was initiated by FCS to help building designers and contractors source and specify local timber products. The information should also be of value to people considering using their own timber on a construction project.

- Download [Sustainable Construction Timber \(PDF 3Mb\)](#)

Designing housing with Scottish Timber (updated 2009)

This report was jointly commissioned with Perthshire Housing Association (with support from the Scottish Forest Industries Cluster and Communities Scotland). It looks at current sustainable housing design and uses the lessons learnt to propose a new prototype house, maximising the use of Scottish timber in rural, affordable, low energy housing provision.

The report includes information about options for enhancing the sustainability of house design.

- Read a [synopsis of the main report \(PDF 1.1Mb\)](#)
- Read the full report [Designing housing with Scottish timber \(2Mb\)](#)
- Read [case studies from 2005 accompanying the full report \(780k\)](#)

Construction materials emissions study

FCS commissioned a study that compares the carbon dioxide emissions of different building materials to highlight the benefits of using timber in construction.

- Read the report: [The carbon benefits of using timber in construction \(PDF 296k\)](#)

Related pages

- [Information on sustainable development](#)
- [Information on sustainable forestry](#)
- [Timber certification](#)
- [Forestry and climate change](#)

Useful sites

- [Scottish Forest Industries Cluster](#)
- [Wood for good](#)
- [The Sustainable Build website](#)

Key Issues

- Minimising the total financial and environmental costs of harvesting and transporting timber to primary producers

Outputs

- Support and encourage local Timber Transport Groups
- Continue to provide funding through the Strategic Timber Transport Scheme (£5m p.a.)
- Commission a study to investigate issues surrounding shortfall in labour supply in forest and haulage.



Key Issues

- Improving the quality and quantity of the timber resource, both softwood and hardwood.

Outputs

- Support tree breeding programmes to produce improved stock.
- Industry seminars on silviculture.



Examples of projects supported.

- Scotland's Housing Expo £30k
- SIRT Research project £20K
- Production Forecast £25k
- NPP Scots pine project £7.5k
- ASHS £7k

- Continue to improve understanding of timber properties of species grown in Scotland/UK.
- Improving dissemination of outputs of the TDP and other research.
- Encouraging the development of new products that will add value to Scotland PLC.
- Further seminars to increase understanding of benefits of timber, including explore potential for a summer school in timber engineering.
- Further work on carbon values of timber against other construction materials.
- Utilising technology for even more accurate production forecasts.

Customer Requirements

- Sustainable Supply
 - Origin - certification
 - Continuity of supply
- Products fit for purpose
 - Properly manufactured
 - Added Value (Cost) Processes
 - Well presented
- Competitive Pricing
 - Against alternative suppliers
 - Against alternative products

Positive Attributes of Scots Pine

- Generally inherently stronger than spruce
- Density 510kg/m³ SP ;450 kg/m³ SS
- Generally good for secondary processing, particularly treatment (against decay)
- If segregated and batch processed, bark can command a significant premium
- Generally cheaper to harvest although more expensive to transport

Negative Attributes of Scots Pine

- Prone to blue stain
- Tree and Log variability – straightness; dead knots
- Significantly more expensive to kiln dry
- Redwood less used in construction except for joinery and window manufacture
- Generally available in smaller volumes – issues for batch processing.

Market Opportunities

These have remained the same over many years:

- Historically
 - Railways/Mines – sleepers, wagon bottoms, all forms of mining timber
- Currently
 - Poles/Strainers
 - Agricultural Fencing
 - Domestic Fencing
 - Garden Products including Decking
 - General Construction
 - Palletwood

Processing Issues

- Coordinated harvesting for batch production
- Communication to ensure log dimensions meet market expectations
- Winter felling – helps control blue stain
- Generally processed in shorter lengths than construction timbers 2.4/3.0/3.3/3.6 metre lengths
- Presence of black knots in older logs probably the biggest drawback.