



COLDTREE

WORKSHOP

‘Innovative Tests for Nursery Management’

Informing Operational Practices under a changing climate

at
**Forest Research,
 Northern Research Station,
 Roslin, Midlothian, EH25 9SY**

Registration/welcome will start at 1000 – 1045 hrs.
 Coffee/tea will be available.

The seminar fee is £10.00 per delegate which includes coffees/teas and lunch.

How to book

To reserve a place at the seminar please complete the booking form overleaf.

Any queries regarding booking please contact:

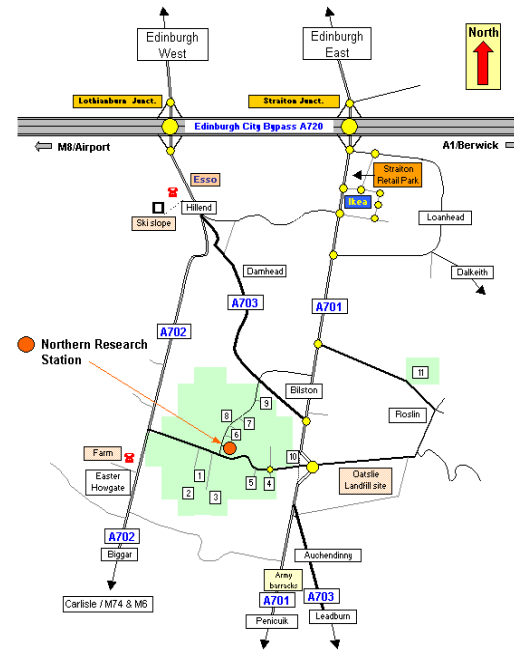
Evelyn Hall

E-mail: evelyn.hall@forestry.gsi.gov.uk

Tel: 0131 445 6916

**Forest Research,
 Northern Research Station,
 Roslin, Midlothian, EH25 9SY**

To find us:



Open Forum: Would you like to raise a specific question / topic for the open forum?

Programme

1000 – 1035 hrs	Coffee & Introductions
1035 – 1045	Welcome
	<i>Morning Session</i>
1045 – 1130	Coldtree Project Overview. Mike Perks
1130 – 1200	Informing Operational Practices. Alan Harrison / Mike Perks
1200 – 1245	Potential impacts of climate change on nursery production and establishment practice. Mark Broadmeadow / Mike Perks
1245 – 1400	Lunch
	<i>Afternoon Session</i>
1400 – 1405	EU research collaboration for SME's: Alba Trees Experience James Hepburne-Scott
1405 – 1500	Open Forum: ‘Plant production and establishment research’ J.Morgan [FE] (chair), J.Hepburne-Scott [Alba], M.Perks, A.Harrison & M.Broadmeadow [FR]
1500	Depart

BOOKING FORM

I would like to book the following seminar:

Innovative Tests for Nursery Management Informing operational practices under a changing climate

6th September 2005

I requiredelegate places @ £10.00 each

I enclose a cheque payable to **Forest Research**
to the value of: £.....

Full Name:

Organisation:

Address:

Post Code:

Phone:

Fax:

E-mail:

Name(s) and e-mail(s) of additional delegates:

.....

Please send to:

*Evelyn Hall, Forest Research, Northern Research
Station, Roslin, Midlothian, EH25 9SY.*

By: **FRIDAY 19th August, 2005**

Seedling Quality

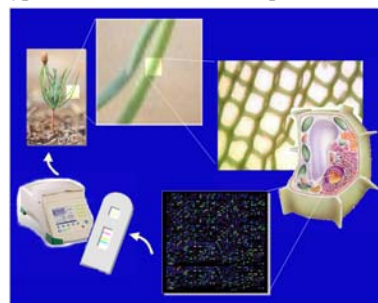
Determining the optimal moment for lifting and transfer to cold storage is one of the crucial decisions with respect to regrowth potential of the seedlings. At present, the decision to start lifting is based on expert knowledge and time-consuming assays such as Shoot Electrolyte Leakage (SEL) measurements. However, a robust, fast and quantitative method to support this or other important nursery management decisions, is not available, yet.

An innovative European research project was initiated to develop an assay that is based on direct analysis of the biological processes that control dormancy and cold tolerance.



From lab to practice

The assay was developed using *genomics* technology. It is based on the activity profile of selected genes. The project aims at transfer from lab to field. Therefore easy-to-use, robust prototype tests have been developed.



Outlook

The described lifting date assay is a proof-of-concept. The method can be used to develop tests for each situation in which accurate knowledge on seedling quality is required. Such as:

- ◆ vitality after storage;
- ◆ release of dormancy
- ◆ test for dehydration
- ◆ test for contamination with pathogens



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Forest Research, Northern Research Station,
Dr Michael Perks
EH25 9SY, Roslin, Midlothian, UK

Agrotechnology & Food Innovations
Monique van Wordragen
PO Box 17, 6700 AA Wageningen, the
Netherlands

Danish Institute for Agricultural Sciences
Peter Brønnum, Kirstinebjergvej 10, DK-5792
Aarslev, Denmark

Plant Research International
Lonneke van der Geest
PO Box 16, 6700 AA Wageningen, the
Netherlands

Dalarna University
Eva Ståttin
Herrgårdsvägen 122, 776 98 Garpenberg, Sweden

Applied Plant Research
Ria Derkx
PO Box 118, 2770 AC Boskoop, the Netherlands