

## Knowledge Exchange records from 01/04/2014 – 31/03/2015

### CATEGORY 8 - Other meetings (44 records)

- Record ID 4010515  
**Title:** **Seminar at Woodland Trust, Grantham, 14 April 2014.**  
Other titles: Key trends and findings from 5 years of community woodland and landowner research  
Author: Ambrose-Oji, B.  
Company: Woodland Trust  
Imprint: Grantham, 2014  
Main subject: SOCIAL FORESTRY  
Subjects: FCRA SPEAKER; 2015-FR-CAT-8  
Abstract: Presentation to WT Director England and others interested in community woodlands (16 attended), sharing recent research work about landowners, community woodland groups, and woodland-based community/social enterprises. This seminar was organised by Philippa Borrill, Community and Public Engagement Project Development Manager at the Woodland Trust to take advantage of my visit to the WT for another meeting.
- Country: uk  
Bib type: M  
GMD: Seminar Presentation  
Entered: 23/04/2014 B00000115
- Record ID 4010530  
**Title:** **Meeting of the National Expertise Team, FC England, 6th May 2014 held at the Holiday Inn, Filton, Bristol.**  
Other titles: Talk: Social media and citizen science.  
Author: Ambrose-Oji, B.  
Company: Forestry Commission England  
Imprint: 2014  
Main subject: SOCIAL SCIENCES  
Subjects: FCRA SPEAKER; SOCIAL MEDIA; CITIZEN SCIENCE; 2015-FR-CAT-8  
Abstract: Audience: FC only. Reporting on research into the use of social media as a supporting tool for citizen science projects. Evidence from 12 case studies used to highlight challenges and principles of successful design that have policy and operational relevance for forestry.
- Country: uk  
Bib type: M  
GMD: Presentation  
Entered: 08/05/2014 B00000115
- Record ID 4010537  
**Title:** **FE England Species and Silviculture Field Meeting, held at Alice Holt Arboretum, Crowthorne, and Weston Common, 15 May 2014.**  
Author: Jinks, R.  
Company: Forest Research; Forestry Commission England; Forest Enterprise England  
Imprint: 2014  
Description: Species (different aspects presented at several stops during the field visit)  
Main subject: SILVICULTURE  
Subjects: DIVERSIFICATION; TREE SPECIES; RESILIENCE; CLIMATE CHANGE; FCRA SPEAKER; FCRA SPEAKER; 2015-FR-CAT-8  
Abstract: Annual field meeting for FEE district planning foresters to see and discuss latest developments in utilizing new species for forestry.
- Country: uk

Bib type: M  
GMD: Meetings  
Entered: 23/06/2014 B00000115

Record ID 4010538

**Title: FMO Meeting held at Kilmun Forest Garden, Argyll, 12 June 2014.**

Author: Jinks, R.

Co-author: Mason, W.

Company: Forest Research; Forestry Commission; other FMOs

Imprint: 2014

Description: FC & NRW Tree Collections Project

Main subject: SILVICULTURE

Subjects: TREE SPECIES; DIVERSIFICATION; ARBORETA; CLIMATE CHANGE;  
FOREST MANAGEMENT; FCRA SPEAKERS; 2015-FR-CAT-8

Abstract: A field visit to Kilmun Forest Garden for the FC FMOs to see work being carried out under the FC & NRW Tree Collections Project, which is funded by the three countries.

Country: uk

Bib type: M

GMD: Meetings

Entered: 23/06/2014 B00000115

Record ID 4010539

**Title: Trees in Blackwater Arboretum, New Forest, 12 June 2014.**

Author: Jinks, R.

Company: Forest Research; Forestry Commission; Other FC South England Forest District

Imprint: 2014

Description: Tree tour talk

Main subject: TREES

Subjects: DENDROLOGY; SILVICS; FCRA SPEAKER; 2015-FR-CAT-8

Abstract: A tour of some of the many trees in Blackwater Arboretum.

Country: uk

Bib type: M

GMD: Meetings

Entered: 23/06/2014 B00000115

Record ID 4010542

**Title: Forestry Commission GB Commissioners Meeting held at FC Office, Top Lodge, Fineshade, Corby, 18th June 2014.**

Other titles: An overview of acute oak decline and scope of the research effort on this problem.

Author: Denman, S.

Company: Forestry Commission

Imprint: 2014

Description: FC Meeting

Main subject: DISEASES

Subjects: LESIONS; WEEPING PATCHES; BACTERIA; NECROTIC TISSUE; AGRILUS;  
LARVA; DISTRIBUTION MAP; SURVEY; FCRA SPEAKER; 2015-FR-CAT-8

Abstract: An overview of Acute Oak Decline was presented in which the signs and symptoms of the disease syndrome were described and the impacts of the tissue necrosis caused by bacteria on tree physiology and function explained. The life cycle and biology of Agrilus were outlined and research into breeding and rearing the beetles in captivity presented. Capture and identification of oak foliage and bark volatiles as well as electroantennography testing to determine the beetle's response to the various components was discussed. Identification of the bacterial species associated with AOD and testing for necrogenic capability was described

and the AOD survey work to determine the extent of AOD in Britain was presented.

Country: uk  
Bib type: M  
GMD: Meetings  
Entered: 24/06/2014 B00000115

Record ID 4010568  
**Title: Tree Health Seminar held at the Agricultural Business Centre, Bakewell, Peak District, 8 July 2014.**

Author: Webber, J.  
Company: Forestry Commission; Forest Research  
Imprint: 2014  
Main subject: TREE HEALTH  
Subjects: PHYTOPHTHORA RAMORUM; CHALARA ASH DIEBACK; ACUTE OAK DECLINE; SWEET CHESTNUT BLIGHT; 2015-FR-CAT-8

Abstract: Phytophthora Ramorum (40 mins) Chalara ash dieback (45 mins) Acute Oak Decline (30 mins) Sweet chestnut blight (15 mins)

Country: uk  
Bib type: M  
GMD: Seminar Presentation  
Entered: 28/07/2014 B00000115

Record ID 4010569  
**Title: Tree Health Seminar held at the Agricultural Business Centre, Bakewell, Peak District, 8 July 2014.**

Author: Fielding, N.  
Company: Forestry Commission; Forest Research  
Imprint: 2014  
Main subject: TREE HEALTH  
Subjects: ASIAN LONGHORN BEETLE; BRONZE BIRCH BORER; EMERALD ASH BORER; OAK PROCESSIONARY MOTH; FCRA SPEAKER; 2015-FR-CAT-8

Abstract: Asian Longhorn Beetle (15mins), Bronze Birch Borer (15 mins), Emerald Ash Borer (15 mins), Oak processionary moth (25 mins)

Country: uk  
Bib type: M  
GMD: Seminar Presentation  
Entered: 28/07/2014 B00000115

Record ID 4010573  
**Title: Tree Health Seminar held at the Village Hall, Horringer, 17th July 2014.**

Author: Webber, J.F.  
Company: Forestry Commission  
Imprint: July 2014  
Main subject: TREE HEALTH  
Subjects: CHALARA ASH DIEBACK; DOTHISTROMA NEEDLE BLIGHT; FCRA SPEAKER; 2015-FR-CAT-8

Abstract: Talk on Chalara ash dieback (45 mins), Dothistroma needle blight (30 mins). Audience: FR/FC.

Country: uk  
Bib type: M  
GMD: Seminar Presentation  
Entered: 29/07/2014 B00000115  
Updated: 29/07/2014 B00000115

Record ID 4010574

**Title:** **Technical update on Chalara, Room W19, Westwood, 320 Westwood Heath, Coventry, CV4 8GP, 23rd July 2014.**  
Other titles: Chalara in non-woodland settings.  
Author: Webber, J.F.  
Company: Forestry Commission; Forest Research; Tree Council  
Imprint: July 2014  
Main subject: TREE HEALTH  
Subjects: CHALARA ASH DIEBACK; FCRA SPEAKER; 2015-FR-CAT-8  
Abstract: Audience: Forestry sector stakeholders: Tree Council and Network Rail.  
Country: uk  
Bib type: M  
GMD: Meetings  
Entered: 29/07/2014 B00000115  
Updated: 04/11/2014 B00000115

Record ID 4010575  
**Title:** **Tree Health Seminar held at the Village Hall, Horringer, 17th July 2014.**  
Author: Denman, S.  
Company: Forestry Commission  
Imprint: July 2014  
Main subject: TREE HEALTH  
Subjects: ACUTE OAK DECLINE; SWEET CHESTNUT BLIGHT; FCRA SPEAKER; 2015-FR-CAT-8  
Abstract: Talk on Acute Oak Decline (55 mins), Sweet chestnut blight (25 mins). Audience: FR/FC.  
Country: uk  
Bib type: M  
GMD: Seminar Presentation  
Entered: 29/07/2014 B00000115

Record ID 4010576  
**Title:** **Tree Health Seminar held at the Victoria Hall, Oakham, 10th July 2014.**  
Author: Denman, S.  
Company: Forestry Commission  
Imprint: July 2014  
Main subject: TREE HEALTH  
Subjects: ACUTE OAK DECLINE; SWEET CHESTNUT BLIGHT; CHALARA ASH DIEBACK; PHYTOPHTHORA RAMORUM; FCRA SPEAKER; 2015-FR-CAT-8  
Abstract: Talk on Acute Oak Decline (55 mins), Chalara ash dieback (45 mins); Phytophthora ramorum (30 mins); Sweet chestnut blight (25 mins). Audience: FR/FC.  
Country: uk  
Bib type: M  
GMD: Seminar Presentation  
Entered: 29/07/2014 B00000115

Record ID 4010597  
**Title:** **New entrants course held at Silvan House, Edinburgh on 23 April 2014.**  
Other titles: The Science of Trees.  
Author: Penny, S.  
Company: Forestry Commission  
Imprint: 2014  
Description: New Entrants Course  
Main subject: TREE HEALTH  
Subjects: FCRA SPEAKER; 2015-FR-CAT-8

Abstract: Presented to 15 new entrants giving a general introductory presentation with hands-on activities - an interactive session of 45 minutes.  
Country: uk  
Bib type: M  
GMD: Meetings  
Entered: 15/08/2014 B00000115

Record ID 4010668  
**Title: iTree Seminar: Wale's Urban Woodlands and Trees held at Glyndwr University on 25 September 2014.**  
Author: Doick, K.J.  
Company: Climate Change Commission Wales  
Imprint: 2014  
Main subject: URBAN FORESTRY  
Subjects: FCRA AUTHOR; 2015-FR-CAT-8  
Abstract: Invited speaker, asked to present on iTree and it's role in the resource management of the urban forest, including presenting results of the first iTree Eco study in Wales, conducted in Wrexham in 2013.  
Audience: Staff of the Climate Change Commission Wales, NRW, Local Authorities, members of the public.  
Country: uk  
Bib type: M  
GMD: Seminar Presentation  
Entered: 27/10/2014 B00000115

Record ID 4010670  
**Title: Tree Health Seminar held at the Castle Hotel, Llandoverly, Wales, 21 October 2014.**  
Other titles: An update on the latest research into tree diseases including drawing lessons from this year's survey results for ramorum disease.  
Author: Webber, J.F.  
Company: Natural Resources Wales  
Imprint: October 2014  
Main subject: TREE HEALTH  
Subjects: FCRA SPEAKER; 2015-FR-CAT-8  
Country: uk  
Bib type: M  
GMD: Seminar Presentation  
Entered: 04/11/2014 B00000115

Record ID 4010671  
**Title: Tree Health Seminar held at Coed y Brenin, Gwynedd, Wales, 22 October 2014.**  
Other titles: An update on the latest research into tree diseases including drawing lessons from this year's survey results for ramorum disease.  
Author: Webber, J.F.  
Company: Natural Resources Wales  
Imprint: October 2014  
Main subject: TREE HEALTH  
Subjects: FCRA SPEAKER; 2015-FR-CAT-8  
Country: uk  
Bib type: M  
GMD: Seminar Presentation  
Entered: 04/11/2014 B00000115

Record ID 4010672

**Title:** Tree Health Seminar held at the Castle Hotel, Llandoverly, Wales, 21 October 2014.

Other titles: Potential threats from Ips cembrae on dying larch.

Author: Fielding, N.

Company: Natural Resources Wales

Imprint: October 2014

Main subject: TREE HEALTH

Subjects: FCRA SPEAKER; 2015-FR-CAT-8

Country: uk

Bib type: M

GMD: Seminar Presentation

Entered: 04/11/2014 B00000115

Record ID 4010673

**Title:** Tree Health Seminar held at Coed y Brenin, Gwynedd, Wales, 22 October 2014.

Other titles: Potential threats from Ips cembrae on dying larch.

Author: Fielding, N.

Company: Natural Resources Wales

Imprint: October 2014

Main subject: TREE HEALTH

Subjects: FCRA SPEAKER; 2015-FR-CAT-8

Country: uk

Bib type: M

GMD: Seminar Presentation

Entered: 04/11/2014 B00000115

Record ID 4010674

**Title:** Tree Health Seminar held at the Castle Hotel, Llandoverly, Wales, 21 October 2014.

Other titles: Other threats to the woodlands of Wales from insect pests, e.g., Emerald Ash Borer and Bronze Birch Borer.

Author: Fielding, N.

Company: Natural Resources Wales

Imprint: October 2014

Main subject: TREE HEALTH

Subjects: FCRA SPEAKER; 2015-FR-CAT-8

Country: uk

Bib type: M

GMD: Seminar Presentation

Entered: 04/11/2014 B00000115

Record ID 4010675

**Title:** Tree Health Seminar held at Coed y Brenin, Gwynedd, Wales, 22 October 2014.

Other titles: Other threats to the woodlands of Wales from insect pests e.g., Emerald Ash Borer and Bronze Birch Borer.

Author: Fielding, N.

Company: Natural Resources Wales

Imprint: October 2014

Main subject: TREE HEALTH

Subjects: FCRA SPEAKER; 2015-FR-CAT-8

Country: uk

Bib type: M

GMD: Seminar Presentation

Entered: 04/11/2014 B00000115

Record ID 4010677  
**Title:** **Westonbirt and Bedgebury Advisory Committee visit to Forest Research, 10th November 2014.**  
Other titles: Arboreta and Forest Research.  
Author: Jinks, R.  
Company: Forest Research  
Imprint: 2014  
Main subject: ARBORETA  
Subjects: TREE SPECIES; TREE COLLECTIONS; NATIONAL POPLAR COLLECTION; SEED SCIENCE; FCRA SPEAKER; 2015-FR-CAT-8  
Abstract: Audience: Forest sector stakeholders; Forestry Commission England; charities. A presentation and tour was given regarding the tree collection at Alice Holt (which has much significance for tree breeding, tree resilience and selecting tree species for the future), seed and tree species and tree health research, laboratory facilities and the national poplar collection. Participants included: Mr Giles Coode-Adams OBE DL (Chairman); Mrs Elizabeth Banks DL; Lord Howick; Colonel John Kendall MBE (Friends of Westonbirt); Mr Malcolm Kerr (Friends of Bedgebury); Mr Roy Lancaster OBE; Mr Tony Hall RBG Kew; Mr David Knott RBG Edinburgh. Outcomes included shared knowledge of the arboreta in the UK, current and future research (with reference to seed science and tree species); research needs and priorities. For more information see: Richard Jinks  
Country: uk  
Bib type: M  
GMD: Presentation  
Entered: 18/11/2014 B00000115

Record ID 4010679  
**Title:** **A plant health seminar to the trade and industry, 5th November 2014, held at Royal Artillery Club, City Road, London.**  
Other titles: Emerald ash borer and the new regulations relating to the import of wood of ash into the UK.  
Author: Straw, N.  
Company: London Hardwoods Club; Timber Trades Federation  
Imprint: 2014  
Main subject: PLANT PATHOLOGY  
Subjects: AGRILUS PLANIPENNIS; EU REGULATIONS; QUARANTINE PEST; KILN DRYING; IMPACT ON TRADE; FCRA SPEAKER; 2015-FR-CAT-8  
Abstract: Seminar given to ~60 members of the London Hardwood Club and Timber Trades Federation on the threats to European ash posed by emerald ash borer (*Agrilus planipennis*), which is currently causing extensive mortality of ash in North America and in the Moscow Region of Russia. The seminar also provided clarification on the new EU regulations on the import of wood of ash that came into force on 1st October 2014, and explained why certain phytosanitary treatments (kiln drying and high temperature treatment) are not effective in killing the beetle and preventing its introduction. For further information contact Nigel Straw [nigel.straw@forestry.gsi.gov.uk](mailto:nigel.straw@forestry.gsi.gov.uk)  
Country: uk  
Bib type: M  
GMD: Seminar Presentation  
Entered: 18/11/2014 B00000115

Record ID 4010680  
**Title:** **Asian Longhorn Beetle Training Day, 6 November 2014, held at Alice Holt, Farnham, Surrey.**

Author: Straw, N.  
Co-author: Tilbury, C.; Hazlit, N.  
Company: Forest Research; Forestry Commission England  
Imprint: 2014  
Main subject: PLANT HEALTH  
Subjects: PADDOCK WOOD OUTBREAK; INSECT BIOLOGY; SIGNS AND SYMPTOMS;  
FCRA SPEAKERS; 2015-FR-CAT-8  
Abstract: Audience: FR; FC England Plant Health team (x9); NRW Plant Health team (x3);  
FCS Plant Health team (x2); 14 plus FR staff. Training provided for 14 staff from  
Plant health teams across GB prior to them undertaking surveys for Asian  
longhorn beetle at sites where stone and other commodities are being imported  
from China. Discussions focused on quarantine regulations for ALB, signs and  
symptoms of ALB infestation and lessons learnt from the ALB outbreak at  
Paddock Wood in Kent. Samples and reference material from FR were used to  
illustrate ALB life-stages and damage, and to compare these with other wood-  
boring insects. For further information contact Nigel Straw  
nigel.straw@forestry.gsi.gov.uk  
Country: uk  
Bib type: M  
GMD: Training Course  
Entered: 20/11/2014 B00000115

Record ID 4010683  
**Title: iTree Seminar: Barcham Trees, Ely, Cambridgeshire, UK, 8 October 2013.  
iTree in the UK: the position of Forest Research.**  
Other titles: iTree in the UK - A Review  
Author: Doick, K.J.  
Company: Barcham Trees and Treeconomics  
Imprint: 2014  
Main subject: URBAN TREES  
Subjects: ECOSYSTEM SERVICE; URBAN TREE INVENTORY; FCRA AUTHOR; 2015-  
FR-CAT-8  
Abstract: Workshop looking into use of iTree in the UK: past present and future. Sessions  
covered how it has been used so far, benefits and outcomes to the sponsoring  
organisations, lessons learnt and changes in implementation of the model to  
date. Sessions also looked into current usage and issues encouraged. Activity  
led by Treeconomics, the Arboricultural Association and Forest Research into  
development of a fully compliant UK model were presented and future/anticipated  
use polled. Audience: ca. 60; demonstrated outstanding support for growth and  
uptake of iTree in the UK.  
WWW: <http://www.trees.org.uk/aa/news/i-Tree-Presentations-now-available-329.html>  
Country: <b><i>uk</i></b>  
Bib type: M  
GMD: Seminar Presentation  
Entered: 20/11/2014 B00000115

Record ID 4010685  
**Title: ClimateXChange Annual Meeting, 11th September 2014, Edinburgh Centre  
for Carbon Innovation.**  
Other titles: Knowledge Exchange and Demonstration  
Author: Beauchamp, K.  
Co-author: Moffat, A.  
Company: Forest Research; Heriott Watt University  
Imprint: 2014  
Main subject: KNOWLEDGE MANAGEMENT



Subjects: CLIMATE CHANGE; ADAPTATION; COMMUNICATION; FORESTRY; POLICY; PRACTICE; VALIDATION; CASE STUDIES; URBAN FORESTRY; BUILT ENVIRONMENT; FCRA AUTHORS; 2015-FR-CAT-8

Abstract: We presented an overview of our work on knowledge exchange and demonstration in partnership with Heriott Watt University. The session included the principles of developing demonstration projects to explore the barriers to adaptation; connecting policy, research and practice through knowledge exchange resources; and using the lessons learned to drive policy relevant research. We presented case studies from the forest sector, urban forestry, and the built environment.

WWW: Audience approx 25 people, as this was a split session.  
[http://www.climatexchange.org.uk/about-us/annual-meeting/http://www.climatexchange.org.uk/index.php/download\\_file/view/492/319/](http://www.climatexchange.org.uk/about-us/annual-meeting/http://www.climatexchange.org.uk/index.php/download_file/view/492/319/)

Country: uk  
Bib type: M  
GMD: Meetings  
Entered: 21/11/2014 B00000115

Record ID 4010686

**Title:** **Acute Oak Decline Project Microbiology Meeting, 29th October 2014, held at Room 4E21a, University of the West of England, Bristol.**

Author: Denman, S.  
Co-author: Barrett, G.; Plummer, S.  
Company: Forest Research; University of the West of England  
Imprint: 2014  
Description: To discuss research progress and challenges in investigations into the causes of AOD

Main subject: TREE HEALTH  
Subjects: FCRA SPEAKERS; 2015-FR-CAT-8  
Abstract: Development of Real-time PCR assays for the detection of *Brenneria goodwinii* and *Gibbsiella quercinecans* - Sarah Plummer.  
The isolation and identification of micro-organisms associated with *A. biguttatus* beetles following emergence from AOD-suffering oak panels - Glyn Barrett.  
Analyses of results of conventional isolation methods used to determine the causes of AOD lesions - Sandra Denman.

Country: uk  
Bib type: M  
GMD: Meetings  
Entered: 21/11/2014 B00000115

Record ID 4010687

**Title:** **Forest Science Seminar Series October 2014 - May 2015.**

Author: Various  
Company: Forest Research; Forestry Commission; Forestry sector stakeholders; students; other scientists  
Imprint: Northern Research Station, Forest Research, 2014  
Main subject: FORESTRY SCIENCE  
Subjects: RISK; ECOLOGICAL NETWORKS; URBAN FORESTRY; TREE HEALTH; ECOLOGY; WEBINAR; FCRA SPEAKERS; 2015-FR-CAT-8  
Abstract: The Forest Science Seminar Series is a series of free talks covering a variety of topical forestry-related research subjects, and sessions are open to researchers, Forestry Commission staff, forestry stakeholders, and the public. Seminars are available as live webinars, and recordings are made available for FC staff.

WWW: <http://www.forestry.gov.uk/fr/INFD-9BHC5U>  
Country: uk

Bib type: M  
GMD: Seminar Presentation  
Entered: 21/11/2014 B00000115

Record ID 4010699

**Title: Training course held at Northern Research Station, Forest Research, Roslin, Midlothian on 19th November 2014.**

Other titles: Measuring acoustic velocity in standing trees.

Author: Price, A.

Company: Forestry Commission; Forest Research

Imprint: 2014

Description: Use of acoustic devices to measure acoustic velocity in standing trees, in order to predict timber stiffness.

Main subject: TREES

Subjects: TREE BREEDING; TIMBER QUALITY; FCRA SPEAKER; 2015-FR-CAT-8

Abstract: Devices that measure acoustic velocity (AV) have been used for a number of years now by tree breeders and by timber buyers as a technique for predicting the stiffness (or modulus of elasticity) of wood, both in standing trees and in felled logs. Stiffness is an important wood property that determines the strength class (e.g. C16, C24 etc.) that the cut timber will achieve. The technique enables tree breeders to identify families, crosses etc. with the potential to achieve higher quality timber, and timber merchants to segregate better quality parcels of timber prior to purchase or felling. The procedure for using acoustic tools is relatively straightforward, but in order for the technique to enable valid comparisons between many families in breeding trials it relies on quite a high level of care in selecting testing points and positioning the probes. The course was organised on behalf of the Sitka Spruce Breeding Cooperative. Seven people from Tilhill Forestry Ltd. (Scotland) attended the NRS event and six from Maelor Nurseries Ltd. attended the Delamere event. The courses (approx. half a day each) consisted of an indoor session to introduce the equipment, explain the scientific principles of its use, highlight associated safety and occupational health issues, and run through the standard operating procedure. This was followed by an outdoor section enabling delegates to practice using the device.

Country: uk

Bib type: M

GMD: Training Course

Entered: 04/12/2014 B00000115

Record ID 4010700

**Title: Training course held at Forestry Commission, Delamere Forest Office on 2nd December 2014.**

Other titles: Measuring acoustic velocity in standing trees.

Author: Price, A.

Company: Forestry Commission; Forest Research

Imprint: 2014

Description: Use of acoustic devices to measure acoustic velocity in standing trees, in order to predict timber stiffness.

Main subject: TREES

Subjects: TREE BREEDING; TIMBER QUALITY; FCRA SPEAKER; 2015-FR-CAT-8

Abstract: Devices that measure acoustic velocity (AV) have been used for a number of years now by tree breeders and by timber buyers as a technique for predicting the stiffness (or modulus of elasticity) of wood, both in standing trees and in felled logs. Stiffness is an important wood property that determines the strength class (e.g. C16, C24 etc.) that the cut timber will achieve. The technique enables tree breeders to identify families, crosses etc. with the potential to achieve higher quality timber, and timber merchants to segregate better quality parcels of timber

prior to purchase or felling. The procedure for using acoustic tools is relatively straightforward, but in order for the technique to enable valid comparisons between many families in breeding trials it relies on quite a high level of care in selecting testing points and positioning the probes. The course was organised on behalf of the Sitka Spruce Breeding Cooperative. Seven people from Tilhill Forestry Ltd. (Scotland) attended the NRS event and six from Maelor Nurseries Ltd. attended the Delamere event. The courses (approx. half a day each) consisted of an indoor session to introduce the equipment, explain the scientific principles of its use, highlight associated safety and occupational health issues, and run through the standard operating procedure. This was followed by an outdoor section enabling delegates to practice using the device.

Country: uk  
Bib type: M  
GMD: Training Course  
Entered: 04/12/2014 B00000115

Record ID 4010701

**Title: Parliamentary Briefing: Infrastructure Bill, House of Commons, 3rd December 2014.**

Author: Doick, K.  
Company: Town and Country Planning Association  
Imprint: 2014  
Description: Parliamentary Briefing  
Main subject: TOWN PLANNING  
Subjects: URBAN; DEVELOPMENT; FCRA STAFF; 2015-FR-CAT-8  
Abstract: Invited to attend the TCPA's briefing on the new Infrastructure Bill at the Houses of Commons and ask questions/respond as appropriate. Was a good opportunity to network and show that FR are working in this area.

Country: uk  
Bib type: M  
GMD: Parliament.  
Entered: 05/12/2014 B00000115

Record ID 4010741

**Title: Tree Health Event, 11 November 2014, Fort Augustus, Scotland.**

Company: Forestry Commission; Forest Research  
Imprint: 2014  
Main subject: TREE HEALTH  
Subjects: SCIENCE; HORIZON SCANNING; PEST AND DISEASE; 2015-FR-CAT-8; FCRA STAFF  
Abstract: Presentations to an audience of forestry and landuse sector, local authorities, students, and FC staff. FR input a presentation within the programme covering tree health.

Country: uk  
Bib type: M  
GMD: Meetings  
Entered: 27/03/2015 B00000115

Record ID 4010742

**Title: Tree Health Event, 18/19 June 2014, Scottish Lowlands FD, Scotland.**

Company: Forestry Commission; Forest Research  
Imprint: 2014  
Main subject: TREE HEALTH  
Subjects: SCIENCE; HORIZON SCANNING; PEST AND DISEASE; 2015-FR-CAT-8; FCRA STAFF

Abstract: Presentations to an audience of tree health champion staff as part of TH SLA. Audience: Forestry Commission Scotland (FCS and FES).  
Country: uk  
Bib type: M  
GMD: Meetings  
Entered: 27/03/2015 B00000115  
Updated: 27/03/2015 B00000115

Record ID 4010743  
**Title:** **Tree Health Event, 23 September 2014, South FD, England.**  
Company: Forestry Commission; Forest Research  
Imprint: 2014  
Main subject: TREE HEALTH  
Subjects: SCIENCE; HORIZON SCANNING; PEST AND DISEASE; 2015-FR-CAT-8; FCRA STAFF  
Abstract: Presentations to an audience of FE staff.  
Country: uk  
Bib type: M  
GMD: Meetings  
Entered: 27/03/2015 B00000115  
Updated: 27/03/2015 B00000115

Record ID 4010744  
**Title:** **Tree Health Event, 16 September 2014, Yorkshire FD, England.**  
Company: Forestry Commission; Forest Research  
Imprint: 2014  
Main subject: TREE HEALTH  
Subjects: SCIENCE; HORIZON SCANNING; PEST AND DISEASE; 2015-FR-CAT-8; FCRA STAFF  
Abstract: Presentations to an audience of FE staff.  
Country: uk  
Bib type: M  
GMD: Meetings  
Entered: 27/03/2015 B00000115  
Updated: 27/03/2015 B00000115

Record ID 4010745  
**Title:** **Tree Health Event, 13 February 2015, York, England.**  
Company: Forestry Commission; Forest Research  
Imprint: 2015  
Main subject: TREE HEALTH  
Subjects: SCIENCE; HORIZON SCANNING; PEST AND DISEASE; 2015-FR-CAT-8; FCRA STAFF  
Abstract: Presentations to an audience of forestry and landuse sector, local authorities, students, and FC staff. FR input a presentation within the programme covering tree health.  
Country: uk  
Bib type: M  
GMD: Meetings  
Entered: 27/03/2015 B00000115

Record ID 4010746  
**Title:** **Tree Health Event, 11 February 2015, Newcastle, England.**  
Company: Forestry Commission; Forest Research  
Imprint: 2015  
Main subject: TREE HEALTH

Subjects: SCIENCE; HORIZON SCANNING; PEST AND DISEASE; 2015-FR-CAT-8; FCRA STAFF  
Abstract: Presentations to an audience of forestry and landuse sector, local authorities, students, and FC staff. FR input a presentation within the programme covering tree health.  
Country: uk  
Bib type: M  
GMD: Meetings  
Entered: 30/03/2015 B00000115

Record ID 4010747  
**Title:** **Tree Health Event, 13 November 2014, Bridge of Allan, Scotland.**  
Company: Forestry Commission; Forest Research  
Imprint: 2014  
Main subject: TREE HEALTH  
Subjects: SCIENCE; HORIZON SCANNING; PEST AND DISEASE; 2015-FR-CAT-8; FCRA STAFF  
Abstract: Presentations to an audience of forestry and landuse sector, local authorities, students, and FC staff. FR input a presentation within the programme covering tree health.  
Country: uk  
Bib type: M  
GMD: Meetings  
Entered: 30/03/2015 B00000115

Record ID 4010748  
**Title:** **New Entrants Presentation, 22 October 2014, Forestry Commission, Bristol.**  
Other titles: The Science of Trees  
Author: Penny, S.  
Company: Forestry Commission  
Imprint: 2014  
Main subject: FORESTRY RESEARCH  
Subjects: 2015-FR-CAT-8; FCRA AUTHOR  
Abstract: Presented to 40+ new entrants over two sessions giving a general introductory presentation with hands-on activities - an interactive session of 90 minutes.  
Country: uk  
Bib type: M  
GMD: Meetings  
Entered: 30/03/2015 B00000115  
Updated: 30/03/2015 B00000115

Record ID 4010749  
**Title:** **New Entrants Presentation, 12 February 2015, Forestry Commission, Silvan House, Edinburgh, Scotland.**  
Other titles: The Science of Trees  
Author: Penny, S.  
Company: Forestry Commission  
Imprint: 2015  
Main subject: FORESTRY RESEARCH  
Subjects: 2015-FR-CAT-8; FCRA AUTHOR  
Abstract: Presented to 18 new entrants giving a general introductory presentation with hands-on activities - an interactive session of 75 minutes.  
Country: uk  
Bib type: M  
GMD: Meetings  
Entered: 30/03/2015 B00000115

Record ID 4010750  
**Title:** **New Entrants Presentation, 30 October 2014, Forestry Commission, Silvan House, Edinburgh, Scotland.**  
Other titles: The Science of Trees  
Author: Penny, S.  
Company: Forestry Commission  
Imprint: 2014  
Main subject: FORESTRY RESEARCH  
Subjects: 2015-FR-CAT-8; FCRA AUTHOR  
Abstract: Presented to 15 new entrants giving a general introductory presentation with hands-on activities - an interactive session of 45 minutes.  
Country: uk  
Bib type: M  
GMD: Meetings  
Entered: 30/03/2015 B00000115

Record ID 4010765  
**Title:** **Acute Oak Decline Meeting, Natural Resources Wales Team, 27 January 2015.**  
Author: Denman, S.  
Company: Forest Research; Natural Resources Wales  
Imprint: 2015  
Main subject: TREE HEALTH  
Subjects: FCRA SPEAKER; 2015-FR-CAT-8; TREE HEALTH  
Country: uk  
Bib type: M  
GMD: Meetings  
Entered: 07/04/2015 B00000115

Record ID 4010766  
**Title:** **The Royal Society of Forestry (Midlands Division) Winter Lecture, held at Kelmarsh Hall on 4 February 2015.**  
Other titles: Recent advances in AOD research  
Author: Denman, S.  
Imprint: 2015  
Main subject: TREE HEALTH  
Subjects: FCRA SPEAKER; 2015-FR-CAT-8; TREE HEALTH  
Country: uk  
Bib type: M  
GMD: Meetings  
Entered: 07/04/2015 B00000115

Record ID 4010767  
**Title:** **UWE Meeting of the Microbiologists involved in AOD work, 29 October 2014.**  
Other titles: Results of conventional isolations, part of the Defra TH0108 Metagenomic Study  
Author: Denman, S.  
Imprint: 2015  
Main subject: TREE HEALTH  
Subjects: FCRA SPEAKER; 2015-FR-CAT-8; TREE HEALTH  
Country: uk  
Bib type: M  
GMD: Meetings  
Entered: 07/04/2015 B00000115

Record ID 4010768  
**Title:** **AOD TH0108 Steering Committee Meeting Update, held at Alice Holt, 2 October 2014.**  
Author: Denman, S.  
Company: Forest Research  
Imprint: 2015  
Main subject: TREE HEALTH  
Subjects: FCRA SPEAKER; 2015-FR-CAT-8  
Country: uk  
Bib type: M  
GMD: Meetings  
Entered: 07/04/2015 B00000115