

Knowledge Exchange records from 01/04/2015 – 31/03/2016

CATEGORY 7 - Scientific conferences: presentations or posters given (26 records)

- Record ID 4010874
Title: **Conference on Hardwood grading, valuing and marketing, held at Newbattle Abbey College, Newbattle Road, Dalkeith, ED22 3LL on 29 - 30 April 2015.**
- Other titles: On shaky ground? Understanding shake defects in oak.
Author: Price, A.J.E.
Company: Forestry Commission Scotland
Imprint: 2015
Description: verbal and visual presentation
Main subject: WOOD BIOLOGY
Subjects: TIMBER; DEFECT; DAMAGE; EARLYWOOD; VESSEL; GROWTH RING; GEOLOGY; SOIL; NUTRITION; STRESSES; FCRA SPEAKER; 2016-FR-CAT-7
- Abstract: Shake is believed to affect about 20% of British oaks. Shake may appear on any site. No fully reliable method exists to identify the defect in standing trees, or predict vulnerable sites without local and historical knowledge. This review seeks to enable risky sites to be identified and avoided for new planting and to help lower risk sites be managed to minimise risk. The following factors will predispose a tree to shake: large earlywood vessel diameter, wounding to the main stem, and abrupt changes in ring width. Predispositions will not lead to shake without an additional aggravating factor or 'trigger' such as poor soil nutrition, poor rooting conditions, drought or waterlogging, and severe external or internal stresses.
- Country: uk
Bib type: M
GMD: Conference Presentation
Entered: 07/05/2015 B00000115
- Record ID 4010876
Title: **IMF Specialist Conference 2015: Forestry and Fisheries - where next? Rheged Centre, Penrith, England, 21-23 April 2014.**
- Other titles: The effects of conifer afforestation on a sensitive freshwater system - the upper Halladale catchment
Author: Shah, N.
Company: Institute of Fisheries Management; Eden Rivers Trust
Imprint: 2015
Main subject: FOREST MANAGEMENT
Subjects: 2016-FR-CAT-7; FCRA SPEAKER
Country: uk
Bib type: M
GMD: Conference Presentation
Entered: 08/05/2015 B00000115
- Record ID 4010877
Title: **IMF Specialist Conference 2015: Forestry and Fisheries - where next? Rheged Centre, Penrith, England, 21-23 April 2014.**
- Other titles: Managing forests in acid sensitive water catchments
Author: Nisbet, T.
Company: Institute of Fisheries Management; Eden Rivers Trust
Imprint: 2015
Main subject: FOREST MANAGEMENT
Subjects: 2016-FR-CAT-7; FCRA SPEAKER

Country: uk
Bib type: M
GMD: Conference Presentation
Entered: 08/05/2015 B00000115

Record ID 4010878
Title: IMF Specialist Conference 2015: Forestry and Fisheries - where next? Rheged Centre, Penrith, England, 21-23 April 2014.
Other titles: Slowing the flow at Pickering - assessing the contribution of large woody debris dams for reducing flood risk
Author: Thomas, H.
Company: Institute of Fisheries Management; Eden Rivers Trust
Imprint: 2015
Main subject: ENVIRONMENTAL MANAGEMENT
Subjects: FLOOD RISK MANAGEMENT; FCRA SPEAKER; 2016-FR-CAT-7
Country: uk
Bib type: M
GMD: Conference Presentation
Entered: 08/05/2015 B00000115

Record ID 4010891
Title: European Climate Change Adaptation Conference, Copenhagen, 12-14 May 2015.
Other titles: Drivers for decision making amongst forest owners
Author: Petr, M.
Imprint: 2015
Description: Poster and Presentation
Main subject: CLIMATE CHANGE
Subjects: FCRA SPEAKER; 2016-FR-CAT-7
Country: dk
Bib type: M
GMD: Conference Presentation
Entered: 16/06/2015 B00000115

Record ID 4010931
Title: Molecular Biology of Plant Pathogens Conference, University of West of England, Bristol, 8-9 April 2015.
Other titles: Genomic analysis of bacteria associated with Acute Oak Decline
Author: Doonan, J.
Co-author: Denman, S.; McDonald, J.E.
Imprint: 2015
Main subject: TREE HEALTH
Subjects: FCRA SPEAKER; 2016-FR-CAT-7
Abstract: Audience of approx. 100 people, made up of Scientists, mostly PhD, post-doc.
Country: uk
Bib type: M
GMD: Conference Presentation
Entered: 21/08/2015 B00000115

Record ID 4010932
Title: IUFRO Conference, Uppsala, Sweden, 8-12 June 2015. Foliage shoot and stem diseases of forest trees.
Other titles: Genomic analysis of bacteria associated with Acute Oak Decline
Author: Doonan, J.
Co-author: Denman, S.; McDonald, J.E.
Imprint: 2015
Main subject: TREE HEALTH

Subjects: FCRA SPEAKER; 2016-FR-CAT-7
Abstract: Audience of approx. 150 people, mainly Scientists/Forest Pathologists.
Country: se
Bib type: M
GMD: Conference Presentation
Entered: 21/08/2015 B00000115

Record ID 4010933
Title: Molecular Biology of Plant Pathogens Conference, University of West of England, Bristol, 8-9 April 2015.

Author: Plummer, S.
Imprint: 2015
Main subject: TREE HEALTH
Subjects: FCRA CONTRIBUTOR; 2016-FR-CAT-7
Abstract: Audience of approx. 100 people, made up of Scientists, mostly PhD, post-doc.
Country: uk
Bib type: M
GMD: Conference Poster
Entered: 21/08/2015 B00000115

Record ID 4010940
Title: The British Oak Conference, Weald and Downland, 19th June 2015.

Other titles: Threats to oak
Author: Denman, S.
Imprint: 2015
Main subject: TREE HEALTH
Subjects: FCRA SPEAKER; 2016-FR-CAT-7
Country: uk
Bib type: M
GMD: Conference Presentation
Entered: 24/08/2015 B00000115

Record ID 4010941
Title: IUFRO Conference, Uppsala, Sweden, 8-12 June 2015. Foliage shoot and stem diseases of forest trees.

Other titles: Simulating key elements of acute oak decline to produce signs and symptoms in log tests
Author: Denman, S.
Co-author: Plummer, S.; Sumner, M.; Reed, K.; Peace, A.; Kirk, S.
Imprint: 2015
Main subject: TREE HEALTH
Subjects: FCRA SPEAKERS; 2016-FR-CAT-7
Abstract: Audience of approx. 150 people, mainly Scientists/Forest Pathologists.
Country: se
Bib type: M
GMD: Conference Presentation
Entered: 24/08/2015 B00000115

Record ID 4010944
Title: British Ecological Society Symposium 2015: The ecology and evolution of emerging plant pests and pathogens: challenges to global food security and ecosystem resilience, held at Penryn Campus, University of Exeter, Cornwall, 13-14 July 2015.

Other titles: New insights into the lifecycle of the jewel beetle *Agrilus biguttatus*, and its role in acute oak decline
Author: Reed, K.
Co-author: Inward, D.; Leather, S.; Denman, S.
Company: Forest Research

Imprint: 2015
Main subject: PATHOGENS
Subjects: FCRA SPEAKERS; 2016-FR-CAT-7
Abstract: Audience of approx. 100 scientists (Field, Ecology).
Country: uk
Bib type: M
GMD: Conference Presentation
Entered: 25/08/2015 B00000115

Record ID 4010948
Title: **9th International Conference on Pseudomonas syringae and related pathogens, Malaga, Spain, 2-5 June 2015.**
Other titles: Rapid identification of bacteria associated with Acute Oak Decline using HRM analysis
Author: Brady, C.
Co-author: Allainguillaume, J.; Denman, S.; Arnold, D.
Imprint: 2015
Main subject: PATHOGENS
Subjects: GIBBSIELLA; BRENNERIA; IDENTIFICATION; FCRA CONTRIBUTORS; 2016-FR-CAT-7
Abstract: Audience of 80 scientists/researchers.
Acute oak decline (AOD) is serious and increasing problem in Britain, affecting the native oak species Quercus robur and Q. petraea throughout the Midlands and south to south-east of the country. Symptoms include stem bleeding from vertical cracks between bark plates, stained tissues underlying the bleeding patches and necrosis leading to the formation of cavities in the inner bark. Larval galleries of the bark boring buprestid Agrilus biguttatus are frequently found in close proximity to necrotic tissue. Numerous bacterial strains from several different families have been isolated from necrotic lesions, fluid exudates and occasionally larval galleries of symptomatic trees...
Country: es
Bib type: M
GMD: Conference Poster
Entered: 25/08/2015 B00000115

Record ID 4010954
Title: **Plant Health for Sustainable Agriculture Conference, Ljubljana, Slovenia, 11-12 May 2015.**
Other titles: Unravelling interactions in disease complexes and syndromes: the case of Acute Oak Decline.
Author: Brown, N.
Co-author: Denman, S.; Xu, X.; van den Bosch, F.; Jeger, M.
Imprint: 2015
Main subject: TREE HEALTH
Subjects: FCRA SPEAKERS; 2016-FR-CAT-7
Abstract: Audience of 100+, comprising International Scientists and policy people working within forests.
Country: si
Bib type: M
GMD: Conference Presentation
Entered: 25/08/2015 B00000115

Record ID 4010955
Title: **IUFRO Conference, Uppsala, Sweden, 8-12 June 2015. Foliage shoot and stem diseases of forest trees.**
Other titles: Monitoring forest diseases and syndromes: the case of acute oak decline
Author: Brown, N.
Co-author: Parnell, S.; Denman, S.; Filipe, J.; Jeger, M.; van den Bosch, F.

Imprint: 2015
Main subject: TREE HEALTH
Subjects: FCRA SPEAKERS; 2016-FR-CAT-7
Abstract: Audience of approx. 150 people, mainly Scientists/Forest Pathologists.
Country: se
Bib type: M
GMD: Conference Presentation
Entered: 25/08/2015 B00000115

Record ID 4010956
Title: IUFRO Working Party Meeting 7.03.10: Methodology of Forest Insect and Disease Survey in Central Europe: fluctuation of insects and diseases. San Michele all'Adige, Italy, 22-26 June 2015.

Other titles: Monitoring forest diseases and syndromes: the case of acute oak decline
Author: Brown, N.
Co-author: Parnell, S.; Denman, S.; Filipe, J.; Jeger, M.; van den Bosch, F.
Imprint: 2015
Main subject: TREE HEALTH
Subjects: FCRA SPEAKERS; 2016-FR-CAT-7
Abstract: Audience of approx. 100+ people, comprising International Scientists and policy people working within forests.
Country: se
Bib type: M
GMD: Conference Presentation
Entered: 25/08/2015 B00000115

Record ID 4010961
Title: IUFRO Conference, Uppsala, Sweden, 8-12 June 2015. Foliage shoot and stem diseases of forest trees.

Other titles: Associated bacteria of Agrilus biguttatus sampled from English oak displaying symptoms of acute oak decline.
Author: Lewis, E.
Co-author: Sapp, M.; Kirk, S.; Reed, K.; Inward, D.; Denman, S.; Elphinstone, J.
Imprint: 2015
Main subject: TREE HEALTH
Subjects: FCRA AUTHORS; 2016-FR-CAT-7
Abstract: Audience of approx. 150 people, mainly Scientists/Forest Pathologists.
Country: se
Bib type: M
GMD: Conference Paper
Entered: 08/09/2015 B00000115

Record ID 4010962
Title: IUFRO Conference, Uppsala, Sweden, 8-12 June 2015. Foliage shoot and stem diseases of forest trees.

Other titles: Identification of bacteria associated with the acute oak decline syndrome in England using Next Generation Sequencing
Author: Sapp, M.
Co-author: Lewis, E.; Thwaites, R.; Kirk, S.; Denman, S.; Elphinstone, J.
Imprint: 2015
Main subject: TREE HEALTH
Subjects: FCRA AUTHORS; 2016-FR-CAT-7
Abstract: Audience of approx. 150 people, mainly Scientists/Forest Pathologists.
Country: se
Bib type: M
GMD: Conference Paper

Entered: 08/09/2015 B00000115

Record ID 4011027
Title: **IUFRO Section 7.03.05 "Ecology and Management of Bark and Wood Boring Insects" and Section 7.03.12 "Alien Invasive Species and International Trade", 1-4 September 2015, held at Bariloche Eventos & Convenciones, Bariloche, Patagonia, Argentina.**

Other titles: New insights into the lifecycle of the jewel beetle *Agrilus biguttatus*, and its role in acute oak decline

Author: Reed, K.
Co-author: Inward, D.; Leather, S.; Denman, S.
Company: Forest Research
Imprint: 2015
Main subject: PATHOGENS
Subjects: BUPRESTIDAE; DAY-DEGREES; OAK DECLINE; FCRA SPEAKERS; 2016-FR-CAT-7
Abstract: Approx. 100 attendees.
Country: ar
Bib type: M
GMD: Conference Presentation
Entered: 06/10/2015 B00000115

Record ID 4011037
Title: **Joint Conference hosted by IUFRO Working Group 1.01.08 (Ecology and Silviculture of Spruce Species) and IUFRO Division 8 (Forest Environment), held at the University of Alberta Conference Centre, Edmonton, Alberta, Canada, August 11th-13th 2015.**

Other titles: How experiments that investigated growing Sitka spruce in mixture change British forestry - and what happened afterwards

Author: Mason, W.
Imprint: 2015
Main subject: FORESTRY
Subjects: FCRA SPEAKER; 2016-FR-CAT-7
Country: ca
Bib type: M
GMD: Conference Presentation
Entered: 08/10/2015 B00000115

Record ID 4011038
Title: **Joint Conference hosted by IUFRO Working Group 1.01.08 (Ecology and Silviculture of Spruce Species) and IUFRO Division 8 (Forest Environment), held at the University of Alberta Conference Centre, Edmonton, Alberta, Canada, August 11th-13th 2015.**

Other titles: Understanding mixed forests in Europe - findings from EUMixFor

Author: Mason, W.
Imprint: 2015
Main subject: FORESTRY
Subjects: FCRA SPEAKER; 2016-FR-CAT-7
Country: ca
Bib type: M
GMD: Conference Presentation
Entered: 08/10/2015 B00000115

Record ID 4011039
Title: **Joint Conference hosted by IUFRO Working Group 1.01.08 (Ecology and Silviculture of Spruce Species) and IUFRO Division 8 (Forest Environment), held at**

the University of Alberta Conference Centre, Edmonton, Alberta, Canada, August 11th-13th 2015.

Other titles: Sitka spruce regeneration and early growth components in the individual tree model
MOSES_GB
Author: Bianchi, S.
Co-author: Hale, S. et al.
Imprint: 2015
Main subject: FORESTRY
Subjects: FCRA CONTRIBUTOR; 2016-FR-CAT-7
Country: ca
Bib type: M
GMD: Conference Poster
Entered: 08/10/2015 B00000115

Record ID 4011043

Title: MBPP Conference (Student and post-Doc conference at UWE in Bristol 8-9 April 2015: Genomic analysis of bacteria associated with acute oak decline.

Author: Doonan, J.
Co-author: Denman, S.; Pachebat, J.; Golyshin, P.N.; McDonald, J.E.
Imprint: 2015
Main subject: TREE HEALTH
Subjects: GENOMICS; BACTERIA; FCRA AUTHORS; 2016-FR-CAT-7
Abstract: Both species of native oak trees in the UK (*Quercus robur* and *Quercus petraea*) are affected by a Decline syndrome termed Acute Oak Decline (AOD). Black weeping patches on the stems of mature trees are the primary symptom of AOD and indicate the presence of necrotic lesions in the underlying tissue. Two newly described bacterial species, *Gibbsiella quercinecans* and *Brenneria goodwinii* are consistently isolated from necrotic lesions. The aim of this investigation is to identify the presence of genes associated with bacterial pathogenicity. This study used the Illumina MiSeq second generation and Pacific Bioscience third generation sequencing platforms, for the de novo assembly of *Gibbsiella quercinecans* and *Brenneria goodwinii*. This genomic analysis has revealed a number of potential virulence factors. These include Plant Cell Wall Degrading Enzymes (PCWDE) and assorted secretion systems. Similar studies of bacterial associated plant pathogens have indicated that the synchronous relationship of these genes in for example *Pectobacterium carotovorum* leads to maceration of host cell tissue. The annotated genes encompass a suite of virulence factors providing *G. quercinecans* and *B. goodwinii* with the tools to compromise oak tree health. A combination of second and third generation sequencing analysis has provided substantial evidence implicating *Gibbsiella quercinecans* and *Brenneria goodwinii* as potential pathogenic contributors to the Acute Oak Decline syndrome.

Bib type: A
GMD: Conference Abstract
Entered: 09/10/2015 B00000115

Record ID 4011144

Title: 17th International Conference on Near Infrared Spectroscopy, NIR 2015, held at Foz do Iguassue, Brazil, 18-23 October 2015.

Other titles: Understanding the radiative performance of urban trees: does leaf reflectance up to 2.5µm vary significantly with cardinal direction and sample locus?
Author: Chung, T.
Co-author: Smith, S.; Doick, K.J.; Shao, L.
Imprint: 2015
Main subject: URBAN TREES
Subjects: ECOSYSTEM SERVICES; DISBENEFITS; FCRA CONTRIBUTORS; 2016-FR-CAT-7
Abstract: Urban areas provide potentially hostile conditions for trees. Since the capacity to dissipate thermal energy depends on morphological and physiological features as well as

water availability and wind intensity, the cooling potential and capacity for heat and drought tolerance varies on an inter- and intra-species level. Empirical evidence on structure, morphology, and ecophysiology of urban trees is relatively scarce. This study was carried out to identify potential differences in reflectance of leaf samples due to hemispherical influence and location. The results will inform methodological choices for spectral sampling of trees to further the understanding of the radiative properties of urban trees.

Class: Electronic resource
WWW: www.Nir2015.com.br
Country: br
Bib type: M
GMD: Conference Poster
Entered: 19/02/2016 B00000115

Record ID 4011145

Title: Seminar 20: Tree-Lined Routes and the Linear Forest - A new vision for connected landscapes, held at Kew Gardens, London, 25th November 2015.

Other titles: A Pilot Study to Value the Natural Capital of the Area 1 Highways Network

Author: Rogers, K.
Co-author: Doick, K.J.
Company: Treework Environmental Practice
Imprint: 2015

Main subject: ECOSYSTEMS

Subjects: ECOSYSTEM SERVICES; URBAN TREES; I-TREE ECO; FCRA SPEAKER; 2016-FR-CAT-7

Abstract: The pressure on our natural environment, especially in areas where 'the green meets the grey', is increasing. This 'green infrastructure' or 'natural capital' is often poorly understood and undervalued and the benefits it provides are often inadequately described and quantified. Consequently natural capital is rarely seen as an asset and the benefits or ecosystem services it provides remain poorly expressed. Economic valuation can help to mitigate this undervaluation. This study was commissioned on behalf of the Highways Agency and provides detailed information on scale of benefits provided by the natural capital of the 'soft' estate in Area 1.

WWW: <https://treeworks-seminars.co.uk/seminar/tree-lined-routes-the-linear-forest/27/>
www.forestry.gov/fr/itree

Country: uk
Bib type: M
GMD: Conference Presentation
Entered: 19/02/2016 B00000115

Record ID 4011147

Title: Air Quality Monitoring: evolving issues and new technologies conference, Royal Society of Chemistry, London, 9-10th December, 2015.

Other titles: i-Tree Eco: Quantifying and Valuing Ecosystem Services Provided by Urban Trees: A UK Perspective

Author: Doick, K.J.
Co-author: Rogers, K.
Company: Automation and Analytical Management Group
Imprint: 2015

Main subject: ECOSYSTEMS

Subjects: ECOSYSTEM SERVICES; URBAN TREES; I-TREE ECO; 2016-FR-CAT-7

Abstract: i-Tree Eco is designed to use a complete or sample plot inventory from a study area along with local environmental data to characterise the structure of the tree population, quantify environmental functions performed and assess the value of the annual benefits derived from these functions. Air quality improvement is one of the environmental functions considered; it is modelled using Nowak's Urban Forest Effects: Dry Deposition

of Air Pollution (UFORE D) model. This talk looks at i-Tree Eco, focusing on a case study of air pollution removal by urban trees; and recent developments in the Eco application.

WWW: www.aamg-rsc.org
www.forestry.gov.uk/fr/itree

Country: uk
Bib type: M
GMD: Conference Presentation
Entered: 19/02/2016 B00000115

Record ID 4011167
Title: XIV World Forestry Congress, Durban, South Africa, 7-11 September 2015.
Other titles: Building resilience into planted forests: recent experience from Great Britain
Author: Kerr, G.
Co-author: Webber, J.; Mason, W.; Jinks, R.; Jennings, T.
Imprint: 2015
Main subject: SILVICULTURE
Subjects: 2016-FR-CAT-7
Abstract: The Congress – the first to be held in Africa - is inclusive of people from all countries, regions and sectors, whether they belong to a government organization, NGO, private company, scientific or professional body, a forestry society, or simply have a personal interest in attending. The broad participation and inclusive discussion on forestry issues will facilitate their mainstreaming in global agendas on sustainable development as well as building new partnerships.

Dr. Gary Kerr also participated in a side event on Monday 7 September called "Uneven-aged silviculture in tropical forests: barriers, opportunities and challenges" discussing "Comparing temperate and tropical uneven-aged silviculture".

Country: za
Bib type: M
GMD: Conference Paper
Entered: 01/03/2016 B00000115