



Curriculum vitae

Dr. Bjarni Diðrik Sigurðsson

Professor of forest science

➤ **Co-ordinator for the Forest Science,
Restoration Ecology and Management
Program**

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Personal Information

Marital status: Married to Anna Jónsdóttir and we have a 14 year old son, Sigurður Sturla Bjarnason and a 12 year old daughter, Hekla Hrund Bjarnadóttir.

Nationality: ICELANDIC

Age: 41 years

Languages

Icelandic: Fluent

English: Fluent

Swedish: Fluent

Spanish: Not fluent

Work experience

June 1993 – May 1994

Research assistant at the Agricultural Research Institute in Reykjavik

I worked in a project concerned with the ecology of an introduced plant, *Lupinus nootkatensis*, much used for land reclamation in Iceland.

May 1994 – Dec 1996

1994 I became a 'caretaker' of a research-site in Gunnarsholt, Iceland, hired by Agricultural Research Institute. Main project: *The Likely Impact of Rising CO₂ and Temperature on Nordic Forests at Limiting and Optimal Nutrient Supply*. This later became my Ph.D. work.

Jan 1997 – Jan 2001

Ph.D. student in Uppsala, Sweden.

Moved to Sweden and started to work on my Ph.D. degree at the Department for Production Ecology, Faculty of Forestry, The Swedish University of Agricultural Sciences (SLU). Taking courses, analysing data, writing articles, doing lab work. I defended my Ph.D. degree in Forest Ecology (Ecophysiology) in February 2001.

Jan 2001– Jul 2001

Researcher at the Department for Production Ecology, SLU.

I was hired at the Department for Production Ecology as a researcher and a teacher. I was responsible for harvest measurements in a study where 10 m Norway spruce trees had been

exposed to elevated CO₂ concentrations for four years. The study involved both field- and lab work.

Jul 2001– Sept 2005

Senior Researcher at the Icelandic Forest Research, Mógilsá.

I started a new position as a specialist at the Icelandic Forest Research (Rannsóknastöð skógræktar, Mógilsá). My field of expertise is studies on carbon fluxes and carbon sequestration in woody ecosystems.

Sept 2005– ...

Professor of forest science at the Agricultural University of Iceland.

I started as the first professor in forest science and land reclamation in Iceland. My position is both research and education related.

March 2006. Appointed as co-ordinator for a new Forest Science, Restoration Ecology and Management Program at AUI.

Higher education

Jan 1990 – Jun 1993

University of Iceland

Dept. of biology

I attained a B.Sc. degree in biology in spring 1993. My speciality was botany and plant-ecology.

Jan 1996 – Feb 2001

The Swedish University of Agricultural Sciences

Dept. for Production Ecology, Faculty of Forestry

I attained a Ph.D. degree in Forest Ecology / Ecophysiology in February 2001.

Committees, steering boards and other merits

2007

Advisory committee at the Ministry of Environment (2007-2008)

I am was of eight scientists appointed to make a report on likely effects of climate change on Icelandic nature and society.

Country representative in COST FP0601 ForMan (2007-2009)

ForMan - Forest Management and the Water Cycle. Country representative (Iceland) in Working Group 2 ‘Effects of climatic changes on forest vitality status and forest–water interactions’

Co-editor of Icelandic Agricultural Sciences (2004-)

I am one of three members of the editorial board of Icel.Agric.Sci. (www.ias.is) A scientific journal that publishes original research articles in English about research on land use and land-use change.

Steering board of Vaxtasamningur Austurlands (2007-2009)

I was appointed by the Ministry of Industry and Buisnesses (Iðnaðar- og viðskiptaráðuneyti) to the steering board of Vaxtasamningur Austurlands. This is a project initiated to sitimulate research and development activity in eastern Iceland.

Steering board of a Nordic Center of Excellence: NCEE (2003-2008)

I am a country representative and have a chair in the steering board of the “*The Nordic Center for Studies of Ecosystem Carbon Exchange and its Interactions with the Climate System*” (NCEE) The group’s coordinator is Prof. Anders Lindroth, Lund University.

Nordic Centre of Advanced Research on Environmental Services (CAR-ES) (2005-2010)

I am one of three PI's for the research program "Centre of Advanced Research on Environmental Services (CAR-ES), which is financed by SNS (co-Nordic research fund for forestry related research). The other PI's are Per Gundersen (KVL, Denmark) and Jan Weslien (SKOGFORSK, Sweden). The project group consists of 11 research groups from all the Nordic and the Baltic countries.

Advisory committee at the Ministry of Environment (2006-2007)

I am was of five scientists appointed to make a review and some suggestions about the policy measures needed to increase the use of the native mountain birch in afforestation activities in Iceland and how the remains of the old-growth woodlands were best protected. Report was published in 2007.

Advisory committee at the Ministry of Agriculture (2005-2007)

I am one of seven scientists from the Agricultural University of Iceland, the Soil Conservation Service and the Iceland Forest Service in an advisory committee at the Ministry of Agriculture. The scope of the committee is how to fulfil the obligations that FCCC and the Kyoto-protocol have brought, and to give guidance about necessary monitoring and new concepts related to the carbon sequestration and carbon cycling in terrestrial ecosystems.

2006

Evaluation committee for PhD degree at the Forestry faculty of SLU (2006)

I was appointed to the Evaluation Committee for the Ph.D. thesis *Impact of elevated temperature and [CO₂] on spring phenology and photosynthetic recovery of boreal Norway spruce* written by Michelle Slaney. The oral defence of the thesis was held in Alnarp on the 5th of May, 2006.

Main organiser of a Nordic workshop about forests and ecosystem services in Iceland (2006)

I was the main organizer of a Nordic scientific workshop: "*Effects of Afforestation on Ecosystem services*" that was organized within the Center for Advanced Forest Research – Environmental Services. Haukadalur, Iceland, 12-15 October 2007.

National representative in a NorFa network on carbon dynamics (2002-2006)

The network was called "Carbon dynamics in managed terrestrial ecosystems" and will organize Ph.D. courses and workshops within the field of forest ecology, with special emphasis on how climate change will affect processes controlling the carbon balance. The network's coordinator was Prof. Sune Linder, SLU.

2005

Country representative in COST E21 (2000-2005)

Country representative (Iceland) in the management committee for the European COST E21 project '*Contribution of forests and forestry to the mitigation of greenhouse effects*'.

Freelance teacher at the University of Iceland (2003-2005)

I was responsible for 1/3 of the course "*Geology and Ecology of Iceland and Nature Related Tourism-planning*", at the Faculty of Geology and Geography and the course "*Soils and Vegetation of Iceland*" at the same Faculty. This course is given in English for foreign students at University of Iceland. I also had some teaching within the course "*Plants and the Environment*" at the Faculty of Biology. My lectures there were about global change, the carbon cycle and ecosystem processes.

Organising committee of an international conference on effects of afforestation on ecology, landscape and rural development (2005)

One of five scientists in the organising committee of the AFFORNORD Conference, held at Reykhólar, Iceland, 19-22 June 2005.

2004

Main organiser of a Nordic workshop in Iceland (2004)

I was the main organizer of a Nordic workshop “*Effects of land-use change on the GHG-balance of managed terrestrial ecosystems*” that was given in Reykjavik-Hallormsstadur Iceland in August 10-12, 2004. Altogether 21 scientists and students participated in this workshop. The workshop was funded by Icelandic Forest Research, Iceland Forest Service, Icelandic Agricultural Research Institute, NECC, AFFORNORD and COST E21.

Co-ordinator of a forestry workshop at a meeting of the Council of the Nordic Ministers, Akureyri, Island (2004)

I was the main organizer and a co-ordinator of a Nordic workshop “*Skovens fremtidige muligheder*” that was given at the NKO-meeting of the Agricultural-, Fisheries-, and Environmental ministers of the Nordic Council of Ministers, Akureyri, Iceland in August 13, 2004.

Advisory committee at the Ministry of Agriculture (2001-2004)

I am one of three scientists in an advisory committee at the Ministry of Agriculture. The scope of the committee was carbon sequestration and carbon cycling in terrestrial ecosystems.

Steering board of Forestry Association of Reykjavik (2002-2004)

Forestry Association of Reykjavik is the largest Forestry Association in Iceland with about 1300 members.

2003

Steering board of a Nordic Graduate School: CBACCI (2003)

I was for one year a country representative in the steering board of the Nordic Graduate School “*Carbon-Biosphere- Aerosol-Cloud-Climate Interaction (C-BACCI)*”. The group’s coordinator is Prof. Markku Kulmala, University of Helsinki.

Main organiser of a Nordic-Estonian PhD course in Iceland (2003)

I was the main organizer of a Nordic-Estonian PhD course “*Effects of Afforestation on Carbon Balance and Biodiversity*” that was given in Reykjavik-Hallormsstadur Iceland in August 7-14, 2003. Altogether 11 teachers and 20 PhD and Master students participated in this course. The course was funded by Icelandic Forest Research, The NorFA carbon network and the CBACCI Nordic Graduate School.

2002

Organising committee of the 10th International Lupin Conference (2002)

One of five scientists in the organising committee of the 11th International Lupin Conference, held at Laugarvatn, Iceland, 19-24 June 2002.

Publications of Bjarni D. Sigurdsson

In journals and books with review board (primary publications):

2008

1. Lindroth, Anders, Fredrik Lagergren, Mika Aurela, Brynhildur Bjarnadottir, Torben Christensen, Ebba Dellwik, Achim Grelle, Andreas Ibrom, Torbjörn Johansson, Harry Lankreijer, Samuli Launiainen, Tuomas Laurila, Meelis Mölder, Eero Nikinmaa, Kim Pilegaard, **Bjarni D. Sigurdsson** and Timo Vesala. 2008. Leaf area index is the principal scaling parameter for both gross photosynthesis and ecosystem respiration of northern deciduous and coniferous forests. *Tellus B* (Published article online: 18-Jan-2008. doi: 10.1111/j.1600-0889.2007.00330.x).
2. Kostianen, Katri, Seija Kaakinen, Pekka Saranpää, **Bjarni D. Sigurdsson**, Sven-Olof Lundqvist, Sune Linder & Elina Vapaavuori. 2008. Stem wood properties of mature Norway spruce after three years of continuous exposure to elevated carbon dioxide and temperature. *Global Change Biology* (Accepted)
3. Ward, Eric J., Ram Oren, **Bjarni D. Sigurdsson**, Paul G. Jarvis & Sune Linder. 2008. Fertilization effects on mean stomatal conductance are mediated through changes in the hydraulic attributes of mature Norway spruce trees. *Tree Physiology*, (Submitted)

2007

4. Hyvönen, Riitta, Göran I. Ågren, Sune Linder, Tryggve Persson, M. Francesca Cotrufo, Alf Ekblad, Michael Freeman, Achim Grelle, Ivan A. Janssens, Paul G. Jarvis, Seppo Kellomäki, Anders Lindroth, Denis Loustau, Tomas Lundmark, Richard J. Norby, Ram Oren, Kim Pilegaard, Michael G. Ryan, **Bjarni D. Sigurdsson**, Monika Strömberg, Marcel van Oijen and Göran Wallin. 2007. Tansley review. The likely impact of elevated [CO₂], nitrogen deposition, increased temperature and management on carbon sequestration in temperate and boreal forest ecosystems. *New Phytologist*, 173: 463–480.
5. Brynhildur Bjarnadottir, **Bjarni D. Sigurdsson** and Anders Lindroth. 2007. Estimate of annual carbon balance of a young Siberian larch (*Larix sibirica*) plantation in Iceland. *Tellus B* 59 (5): 891–899
6. Haraldsson, Hörður V., Harald U. Sverdrup, Salim Belyazid, **Bjarni D. Sigurdsson**, Guðmundur Halldórsson. 2007. The Systems Analysis and System Dynamic process preparing for assessment of effects of afforestation in Iceland. *Icelandic Agricultural Sciences*, 20 (in press).

2006

7. Jónsson, Jón Ágúst, Guðmundur Halldórsson and **Bjarni D. Sigurdsson** (2006). Changes in bird life, surface fauna and ground vegetation following afforestation by black cottonwood (*Populus trichocarpa*). *Icelandic Agricultural Sciences* 19: 33-41.

2005

8. Medlyn, B.E., P. Berbigier, R. Clement, A. Grelle, D. Loustau, S. Linder, L. Wingate, P.G. Jarvis, **B.D. Sigurdsson** & R.E. McMurtrie. 2005. The carbon balance of coniferous forests growing in contrasting climatic conditions: a model-based analysis. *Agricultural and Forest Meteorology* 131: 97-124.

9. **Sigurdsson, Bjarni D.**, Borgthor Magnusson, Asrun Elmarsdóttir & Brynhildur Bjarnadóttir (2005). Biomass and composition of understory vegetation and the forest floor carbon stock across Siberian larch and mountain birch chronosequences in Iceland. *Annals of Forest Science* 62 (8): 881-888.

10. Guðmundsdóttir, Gerður & **Bjarni D. Sigurdsson**. 2005. Photosynthetic temperature response of mountain birch (*Betula pubescens* Ehrh.) in comparison with three other broadleaved tree species in Iceland. *Icelandic Agricultural Sciences* 18: 43-51.

2004

11. **Sigurdsson, B.D** & B. Magnusson. 2004. Seed ecology of the Nootka lupin (Frævistfræði alaskalúpínu). *Náttúrufræðingurinn* 72 (3-4): 110-116. (In Icelandic, English summary).

12. Katri Kostiaainen, Seija Kaakinen, Pekka Saranpää, **Bjarni D. Sigurdsson**, Sune Linder, and Elina Vapaavuori (2004). Effect of elevated [CO₂] on stem wood properties of mature Norway spruce grown at different soil nutrient availability. *Global Change Biology* 10: 1-13.

13. Einarsson, Stefán Freyr, **Bjarni D. Sigurdsson** & Arnór Snorrason. 2004. Estimating aboveground biomass for Norway spruce (*Picea abies*) in Iceland. *Icelandic Agricultural Sciences* 16-17: 53-63.

2003

14. Bergh, J., M. Freeman, **B.D. Sigurdsson**, S. Kellomäki, K. Laitinen, S. Niinistö, & H. Peltola. 2003. Modelling the short-term effects of climate change on the productivity of selected tree species in Nordic countries. *Forest Ecology and Management* 183: 327-340.

15. Magnusson, B., S.H. Magnusson & **B.D. Sigurdsson** 2003. Áhrif alaskalúpínu á gróðurfar (*Effects of introduced Nootka lupin (Lupinus nootkatensis) on plant succession in Iceland*). *Náttúrufræðingurinn* 71 (3-4): 98-111. (In Icelandic, English summary).

2002

16. **Sigurdsson, B.D.**, P. Roberntz, M. Freeman, H. Saxe, M. Næss, H. Thorgeirsson & S. Linder 2002. Impact studies on Nordic forests: effects of elevated CO₂ and fertilisation on gas exchange. *Canadian Journal of Forest Research*, 32:779-788.

17. Snorrason, A., **B.D. Sigurdsson**, G. Guðbergsson, K. Svavarsdóttir & Th.H. Jónsson. 2002. Carbon sequestration in forest plantations in Iceland. *Icelandic Agricultural Sciences* 15: 79-91.

2001

18. **Sigurdsson, B.D.** 2001. Elevated [CO₂] and nutrient status modified leaf phenology and growth rhythm of young *Populus trichocarpa* trees in a three-year field study. *Trees*, 15: 403-413.

2000

19. **Sigurdsson, B. D.** & Snorrason, A. 2000. Carbon sequestration by afforestation and revegetation as a means of limiting net-CO₂ emissions in Iceland. *Biotechnology, Agronomy, Society and Environment*, 4 (4): 303-307.

20. **Sigurdsson, B.D.**, H. Thorgeirsson & S. Linder. 2001. Growth and dry-matter partitioning of young *Populus trichocarpa* trees during three years of elevated CO₂ and fertilisation. *Tree Physiology*, 21: 941-950.

21. Medlyn, B.E., C.V.M. Barton, M. S. J. Broadmeadow, R. Ceulemans, P. de Angelis, M. Forstreuter, M. Freeman, S.B. Jackson, S. Kellomäki, E. Laitat, A. Rey, P. Roberntz, **B.D. Sigurdsson**, J. Strassmeyer, K. Wang, P. S. Curtis & P. G. Jarvis. 2001. Elevated [CO₂] effects on stomatal conductance in European forest species: a synthesis of experimental data. *New Phytologist*, **149**: 247-264.

1998

22. **Sigurdsson, B. D.**, Á. L. Aradóttir & I. B. Strachan. 1998. Cover and canopy development of a newly established poplar plantation in south Iceland. *Icelandic Agricultural Sciences*, **12**: 35-46.
23. Strachan, I. B., **B. D. Sigurdsson** & J. H. McCaughey. 1998. Soil hydrology at the Gunnarsholt experimental plantation: Measurements and results. *Icelandic Agricultural Sciences*, **12**: 27-34.
24. Strachan, I. B., Ó. Arnalds, F. Pálmason, H. Þorgeirsson, **B. D. Sigurdsson**, H. Sigurðardóttir & G. Novoselac. 1998. Soils of the Gunnarsholt experimental plantation. *Icelandic Agricultural Sciences*, **12**: 15-26.

Book chapters and other secondary publications in English:

2007

25. Gundersen, Per, Jan Weslien, **Bjarni D. Sigurdsson**, Magne Sætersdal, Leena Finér & Ingeborg Callesen. 2007. The objectives of the research network "Centre of Advanced Research on Environmental Services" (CAR-ES). In: Halldórsson G., Oddsdóttir E.S., and Eggertsson O. (eds). Effects of afforestation on ecosystems, landscape and rural development. *TemaNord* 508, 126-131.
26. Asrun Elmarsdóttir, **Bjarni D. Sigurdsson**, Borgthor Magnusson, Bjarni E. Gudleifsson, Edda S. Oddsdóttir, Erling Olafsson, Guðmundur Halldórsson, Guðrídur Gyða Eyjolfsdóttir, Kristinn H. Skarphedinnsson, María Ingimarsdóttir & Olafur K. Nielsen. 2007. Age-related dynamics in biodiversity and carbon cycling of Icelandic woodlands (ICEWOODS): Experimental set-up and site descriptions. In: Halldórsson G., Oddsdóttir E.S., and Eggertsson O. (eds). Effects of afforestation on ecosystems, landscape and rural development. *TemaNord* 508, 100-107.
27. Salim Belyazid, **Bjarni Sigurdsson**, Hördur Haraldsson, Harald Sverdrup. 2007. Adapting the ForSAFE model to simulate changes in the ground vegetation after afforestation in Iceland: A feasibility study. In: Halldórsson G., Oddsdóttir E.S., and Eggertsson O. (eds). Effects of afforestation on ecosystems, landscape and rural development. *TemaNord* 508, 78-84.
28. Anna Arneberg, Per Holm Nygaard, Odd Egil Stabbetorp, **Bjarni D. Sigurdsson** and Edda Oddsdóttir. 2007. Afforestation effects on decomposition and vegetation in Iceland. In: Halldórsson G., Oddsdóttir E.S., and Eggertsson O. (eds). Effects of afforestation on ecosystems, landscape and rural development. *TemaNord* 508, 75-80.
29. Brynhildur Bjarnadóttir & **Bjarni D. Sigurdsson**. 2007. Eddy flux measurements over a young *Larix sibirica* stand in eastern Iceland: measurements and initial results. In: Halldórsson G., Oddsdóttir E.S., and Eggertsson O. (eds). Effects of afforestation on ecosystems, landscape and rural development. *TemaNord* 508, 89-95.
30. **Bjarni D. Sigurdsson**, Arnor Snorrason, Bjarki Þór Kjartansson & Jon A. Jonsson. 2007. Total area of planted forests in Iceland and their carbon stocks and fluxes. In:

Halldórsson G., Oddsdóttir E.S., and Eggertsson O. (eds). Effects of afforestation on ecosystems, landscape and rural development. TemaNord 508, 211-217.

31. Starri Heiðmarsson, **Bjarni D. Sigurðsson** & Hálfán Björnsson. 2007. Monitoring plant succession and climate change on Nunataks in the Vatnajökull ice sheet. Abstract and talk given at the 37th International Arctic Workshop, Skaftafell, Iceland. 2-5 May 2007. The Earth Science Institute, University of Iceland, bls. 113.

2004

32. B. Magnusson, S.H. Magnusson & **B.D. Sigurdsson**. 2004. Plant succession in areas colonized by the introduced Nootka lupin in Iceland. In: Proceedings of the 10th International Lupine Conference. Wild and Cultivated Lupins from the Tropics to the Poles, Laugarvatn, Iceland, 19-24 June 2002 (Ed. E. van Santen). Intern. Lupin Ass., pp. 170-177.
33. **Sigurdsson, B.D.** & B. Magnusson. 2004. Seed ecology of Nootka lupine (*Lupinus nootkatensis*) in Iceland. In: Proceedings of the 10th International Lupine Conference. Wild and Cultivated Lupins from the Tropics to the Poles, Laugarvatn, Iceland, 19-24 June 2002 (Ed. E. van Santen). Intern. Lupin Ass., pp. 195-198.

Theses:

Sigurdsson, B.D. 1993. Fræfandi alaskalúpínu (*Lupinus nootkatensis*) á uppgræðslusvæðum í Heiðmörk og Örafasveit. (Seed bank of *Lupinus nootkatensis* at two reclamation sites in Iceland). B.Sc. project thesis. at the Biology Dept., University of Iceland, 21 pp (In Icelandic).

Sigurdsson, B.D. 2001. Environmental control of carbon uptake and growth in a *Populus trichocarpa* plantation in Iceland. Acta Universitatis Agriculturae Sueciae. Ph.D. thesis. Silvestria 174. 64 pp.

In journals, proceedings or books without a formal review board:

2008

1. Brynhildur Bjarnadóttir, Anna Cecilia Inghammar og **Bjarni D. Sigurðsson**. 2008. Lífmassa- og rúmmálsföll fyrir ung lerkitré (*Larix sibirica*) á Austurlandi. Fræðaðing landbúnaðarins 5: xx-xx (In Icelandic)
2. Edda Sigurðís Oddsdóttir, Auður Sveinsdóttir, Ásrún Elmarsdóttir, **Bjarni Diðrik Sigurðsson**, Jón Geir Pétursson, Ólafur Eggertsson og Guðmundur Halldórsson. 2008. AFFORNORD - áhrif nýskógræktar á vistkerfi, landslag og byggðapróun. Fræðaðing landbúnaðarins 5: xx-xx (In Icelandic)
3. Bjarni E. Guðleifsson, **Bjarni Diðrik Sigurðsson** og Sigurður Ingvarsson. 2008. Icelandic Agricultural Sciences: Alþjóðlegt tímarit á ensku fyrir vísindagreinir í lífvísindum. Fræðaðing landbúnaðarins 5: xx-xx (In Icelandic)
4. **Bjarni D. Sigurðsson**, Ásrún Elmarsdóttir, Brynhildur Bjarnadóttir og Borgþór Magnússon. 2008. Mælingar á kolefnisbindingu mismunandi skógargerða. Fræðaðing landbúnaðarins 5: xx-xx (In Icelandic)

5. Jón Ágúst Jónsson og **Bjarni D. Sigurðsson**. 2008. Áhrif skógræktaraðgerða á viðarvöxt og kolefnisbindingu í ungum asparskógi. Fræðaðing landbúnaðarins 5: xx-xx (In Icelandic)
6. Brynhildur Bjarnadóttir, Arnór Snorrason og **Bjarni D. Sigurðsson**. 2008. Kolefnisbinding með skógrækt. Yfirlit og aðferðir. Fræðaðing landbúnaðarins 5: xx-xx (In Icelandic)
7. Helena Marta Stefánsdóttir, Karólína Einarsdóttir, Gintare Medelyte, Berglind Orradóttir, Brynhildur Bjarnadóttir, Edda S. Oddsdóttir, Franklín Georgsson, Freysteinn Sigurðsson, Gísli Már Gíslason, Guðmundur Halldórsson, Hlynur Óskarsson, Hreinn Óskarsson, Jón S. Ólafsson, Julia Broska, Nikolai Fiberg, Sigurður Guðjónsson, **Bjarni Diðrik Sigurðsson**. 2008. SKÓGVATN – kynning á rannsóknarverkefni um áhrif skógræktar og landgræðslu á vatnavistkerfi. Fræðaðing landbúnaðarins 5: xx-xx (In Icelandic)

2007

8. Ásrún Elmarsdóttir, Borgþór Magnússon og **Bjarni D. Sigurðsson**. 2007. Gróðurfarabreytingar í kjölfar skógræktar - Samanburður á birki- og barrskógum. Fræðaðing landbúnaðarins 4: 166-173 (In Icelandic).
9. Bjarni E. Guðleifsson & **Bjarni Diðrik Sigurðsson**. 2007. Áhrif skógræktar á ánamáðkasamfélagið. Fræðaðing landbúnaðarins 4: 425-429 (In Icelandic).
10. Brynhildur Bjarnadóttir & **Bjarni D. Sigurðsson**. 2007. Kolefnisbinding með nýskógrækt. Nýjustu rannsóknaniðurstöður. Fræðaðing landbúnaðarins 4: 139-145 (In Icelandic).
11. **Bjarni D. Sigurðsson**. 2007. Europas skogfattigaste land - Island. Skogshistoriska tidender, 13(2), 4-5 (In Swedish).
12. **Bjarni D. Sigurðsson** (2007). Vínandaskógrækt - er það framtíðin? Laufblaðið, 16(3), 4-5. (In Icelandic).

2006

13. **Bjarni Diðrik Sigurðsson**, Björgvin Eggertsson, Hreinn Óskarsson og Þór Þorfinnsson (2006). Langtímarannsóknir á áhrifum tegundablöndu, áburðargjafar og upphafspéttleika í skógrækt (LT-verkefnið). Rit Fræðaðings landbúnaðarins 2006: 285-288 (In Icelandic).
14. **Bjarni Diðrik Sigurðsson** (2006). Íslenskar rannsóknir á vatnshringrás skóga. Rit Fræðaðings landbúnaðarins 2006: 108-112 (In Icelandic).
15. **Bjarni Diðrik Sigurðsson**, Hálfván Björnsson og Starri Heiðmarsson (2006). Mörg eru náttúruundrin - nýtt jökullón í Esjufjöllum og landnám gróðurs á Breiðamerkurjökli. Glettingur 15 (2-3): 48-52 (In Icelandic).
16. **Bjarni D. Sigurðsson**, Björgvin Ö. Eggertsson, Hreinn Óskarsson og Þór Þorfinnsson (2006). Langtímarannsóknir á áhrifum tegundablöndu, áburðargjafar og upphafspéttleika í skógrækt (LT-verkefnið). Ársskýrsla Skógræktar ríkisins 2005. Skógrækt ríkisins, Egilsstöðum, bls 30-32 (In Icelandic).
17. **Bjarni D. Sigurðsson**. 2006. Ný námsbraut í skógræði og landgræðslu við Landbúnaðarháskólann. Laufblaðið 15: 8-9 (In Icelandic).

2005

18. **Bjarni D. Sigurðsson**, Ásrún Elmarsdóttir & Borgþór Magnússon. 2005. Áhrif skógræktar á sýrustig jarðvegs og gróðurfar (Effect of afforestation on soil pH and

- ground vegetation). Proceedings from Fræðaðing landbúnaðarins 2005:303-306. (In Icelandic).
19. Gerður Guðmundsdóttir & **Bjarni D. Sigurðsson**. 2005. Kjörhitastig birkis og þriggja annarra algengra trjáteunda á Íslandi (Optimum temperature of mountain birch and three other common tree species in Iceland). Proceedings from Fræðaðing landbúnaðarins 2005: 341-344. (In Icelandic).
 20. Jón Á. Jónsson, **Bjarni D. Sigurðsson**, Brynjólfur Sigurjónsson, Guðmundur Halldórsson & Kesara Anamthawat-Jónsson. 2005. Breytingar á botngróðri, skordýra- og fuglalífi við framvindu asparskógar (Successional changes in ground vegetation, insects and avian fauna in a poplar forest). Proceedings from Fræðaðing landbúnaðarins 2005: 408-411. (In Icelandic).
 21. **Bjarni D. Sigurðsson**, Arnór Snorrason, Bjarki Þór Kjartansson & Brynhildur Bjarnadóttir (2005). Kolefnisbinding með nýskógrækt. Hvar stöndum við og hverjir eru möguleikarnir. Rit Fræðaðings landbúnaðarins 2005: 20-24.
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Reports:

2007

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2. Ása L. Aradóttir, **Bjarni Diðrik Sigurðsson**, Pröstur Eysteinnsson, Skúli Björnsson, Jón Geir Pétursson, Borgþór Magnússon, Trausti Baldursson, Danfríður Skarphéðinsdóttir. 2007. Vernd og endurheimt íslenskra birkiskóga. Skýrsla og tillögur nefndar. Umhverfissráðuneytið, mars 2007, 18 bls. (In Icelandic).

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9. **Sigurdsson, B.D.**, B. Magnusson & S.H. Magnusson. 1995. Regrowth of Nootka lupine after cutting. In: B. Magnusson (ed.) Biological studies of Nootka lupine (*Lupinus nootkatensis*) in Iceland – Growth, seed set, chemical content and effect of cutting. Fjölrit RALA, 178, 28-37. (In Icelandic, English summary).
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Supervised theses

B.Sc.

Helena Marta Stefánsdóttir (2006). Effects of elevated carbon dioxide concentration and temperature on needle morphology and shoot growth in Norway spruce. Prófrítgerð 5 eininga sjálfstæðs rannsóknaverkefnis við Líffræðiskor Háskóla Íslands, 47 bls. (á ensku, íslenskur útdráttur).

Anna Cecilia Inghammar (2006) Spájöfnur fyrir lífmassa bols, greina og barrs ungra lerkitrjáa (*Larix sibirica*). Prófrítgerð 5 eininga sjálfstæðs rannsóknaverkefnis til B.S. gráðu við Umhverfiseild Landbúnaðarháskóla Íslands.

Hrafnkels Ásólfsson Proppe (2006). Lögun skóga að landslagi. Skriðufellsskógur í Þjórsárdal. Prófrítgerð 5 eininga sjálfstæðs rannsóknaverkefnis til B.S. gráðu við Umhverfisskipulagsbraut Landbúnaðarháskóla Íslands.

Rakel Jakobína Jónsdóttir (2007). Frysting skógarplantna. Aðferðir til að meta lífsþrótt róta eftir vetrargeymslu. Prófrítgerð 5 eininga lokaverkefnis til B.S. gráðu í skógræði við Landbúnaðarháskóla Íslands.

Benjamín Örn Davíðsson (2007). Getur skógarfura vaxið á Íslandi? Úttekt á kvæmatilraun á Austur-, Vestur, Suður og Norðurlandi. Prófrítgerð 5 eininga lokaverkefnis til B.S. gráðu í skógræði við Landbúnaðarháskóla Íslands.

Jón Ágúst Jónsson (2004). “*Lífriki asparskóga*” Changes in bird life, surface fauna and ground vegetation following afforestation by black cottonwood (*Populus trichocarpa*), Biology Department, University of Iceland.

M.Sc

Mona-Maria Brinker (2007). Growth and allometric analysis of young Siberian larch trees (*Larix sibirica*). A case study from Eastern Iceland. Diploma thesis (Meistararitgerð). University of Applied Sciences in Eberswalde, Germany.

Jón Ágúst Jónsson (2007). “*Áhrif skógræktaraðgerða á kolefnisjöfnuð asparskógar*” (Effects of forest management practices on wood increment and carbon fluxes) at the Biology Department, University of Iceland. 84 p (in Icelandic, English summary).

Anna Arneberg (2005) Skogreisningens effekter på nedbrytning og vegetasjon på Island (*Afforestation effects on decomposition and vegetation in Iceland*). M.Sc. thesis, Maí 2005. Institutt for Naturforvaltning, Norwegian University of Life Sciences, Ås, Norway, 53 bls.

Gerður Guðmundsdóttir (2005) Photosynthetic response of variable light intensity, CO₂ concentration and temperature in native and introduced broadleaved tree species in Iceland. M.Sc. thesis, December 2005. Biological Institute (with prof. Helge Ro-Poulsen), University of Copenhagen, Denmark, 47 bls.

Björgvin Eggertsson (2004) “*Effect of different site preparations for survival of tree seedlings*” (Skogsplantornars överlevnad i Gunnarsholt, södra Island – en jämförelse av olika anläggningsmetoders inverkan ett år efter plantering). Examensarbete (Meistararitgerð), varið í apríl 2004. Yrkehögskolan Sydväst, Institutionen för Skogsbruk, Ekenäs, Finlandi, 63 bls.

Ph.D.

Brynhildur Bjarnadóttir (200X), who is currently working on her Ph.D. thesis titled “*Ecosystem carbon dynamics of Larix sibirica plantations in Iceland*” at the Department for Physical Geography and Ecosystem Analysis (with prof. Anders Lindroth), Lund University, Sweden.

Public seminars, Posters, etc.

2008

Seminars in English: x

Seminars in Icelandic: x

Co-author on student's seminars: x

2007

Seminars in English: 4

Seminars in Icelandic: 5

Co-author on student's seminars: 5

2006

Seminars in English: 4

Seminars in Icelandic: 5

Posters: 5

2005

Seminars in English: 6

Seminars in Icelandic: 6

Posters: 2

2004

Seminars in English: 6

Seminars in Icelandic: 5

Posters: 6

2003

Seminars in English: 5

Seminars in Icelandic: 1

Posters: 4

2002

Seminars in English: 1

Seminars in Icelandic: 7

Posters: 3

Older

Seminars in English: 5

Seminars in Icelandic: 2

Posters: 5