

CURRICULUM VITAE OF H.J.B. BIRKS

PERSONAL DETAILS

Full name: BIRKS, Harry John Betteley
Date of birth: 12 January 1945
Home address: Ravnestølen 87, N-5170 Bjørndalstræ, Norway
Home telephone: +47 55 937717
Work address: Department of Biological Sciences, University of Bergen, N-5020 Bergen, Norway
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Web page: <http://www.eecrg.uib.no/Homepages/JohnBirks.htm>
http://scholar.google.no/citations?user=KA_0hBUAAAAJ&hl=en&oi=ao
h-index (Oct 2018): 100 (from Google Scholar), 68 (from ISI)
i10-index (Oct 2018): 367 (from Google Scholar), 254 (from ISI)
Total citations (Oct 2018): 42,000 (from Google Scholar), 18,177 (from ISI)
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EDUCATION

1949-1958 Glasgow Academy and Latymer Upper School, London
1958-1963 Manchester Grammar School, Manchester
1963-1966 Undergraduate, Sidney Sussex College, Cambridge
1966-1969 Graduate Student, Botany School, University of Cambridge and Sidney Sussex College, Cambridge

ACADEMIC DEGREES, AWARDS, AND HONOURS

1963-1966 Taylor Scholar in Natural Sciences, Sidney Sussex College, Cambridge
1964 College Prize in Natural Sciences, Sidney Sussex College, Cambridge
1965 Class I, Natural Sciences Tripos Part I (Botany, Zoology, Geology, Biochemistry), University of Cambridge
1965 Frank Smart Prize in Botany, University of Cambridge
1965 College Tripos Prize in Natural Sciences, Sidney Sussex College, Cambridge
1966 Class I, Natural Sciences Tripos Part II (Botany) University of Cambridge
1966 Frank Smart Studentship in Botany, University of Cambridge
1966 College Tripos Prize in Natural Sciences, Sidney Sussex College, Cambridge
1966 B.A. degree in Botany (Class I), University of Cambridge
1969 Ph.D. degree, University of Cambridge. Doctoral thesis title "The Late-Weichselian and Present Vegetation of the Isle of Skye"
1970 M.A. degree, University of Cambridge
1979 Royal Society of London John Murray Travelling Fellowship in Oceanography and Limnology
1981 Sc.D. degree, University of Cambridge
1982 Bicentenary Medal of the Linnean Society of London
1986 Władysław Szafer Medal of the Polish Academy of Sciences
1987 Foreign Member, Norske Videnskaps-Akademi (Norwegian Academy of Science and Letters)
1998 Fridtjof Nansen Prize, Norwegian Academy of Science and Letters
1998 Philosophiae Doctor Honoris Causa, University of Lund
1998 Rector's Medal, University of Helsinki
2003 Fridtjof Nansen Medal, Norwegian Academy of Science and Letters
2004 Honorary Fellow, Botanical Society of Scotland

- 2005 President's Prize, Botanical Society of the British Isles
 2010 Honorary Fellow, University College London
 2010 MSc Teaching Award, Department of Biology, University of Bergen
 2012 Lifetime Achievement Award and Medal, International Paleolimnology Association
 2012 Special Prize, Department of Biology, University of Bergen
 2014 Foreign Member (Geosciences Class V), The Royal Swedish Academy of Sciences
 2015 Recipient of 'At the frontiers of palaeoecology. A special issue in honour of H. John B. Birks' (eds. R.W. Battarbee, A.E. Bjune & K.J. Willis). *The Holocene*, **25**, 3-237.
 2016 Corresponding Fellow, Royal Society of Edinburgh (Earth Sciences and Chemistry Class)

ACADEMIC APPOINTMENTS

- 1966-1967 Science Research Council Studentship and College Research Studentship, Sidney Sussex College Cambridge
 1967-1971 Research Fellow, Sidney Sussex College, Cambridge
 1970 Post-doctoral Research Fellow, Limnological Research Center, University of Minnesota
 1971-1973 Assistant in Research, Sub-department of Quaternary Research, University of Cambridge
 1971-1984 Fellow, Sidney Sussex College, Cambridge
 1971-1984 College Lecturer in Natural Sciences, Sidney Sussex College, Cambridge
 1971 Visiting Research Fellow, Limnological Research Center, University of Minnesota
 1973-1975 Senior Assistant in Research, Sub-department of Quaternary Research, University of Cambridge
 1975-1984 University Lecturer in Botany, University of Cambridge
 1975 Visiting Lecturer, Laboratory of Quaternary Biology, University of Lund
 1975 Visiting Scientist, Institute of Botany, Polish Academy of Sciences, Krakow
 1976 Visiting Research Fellow, Limnological Research Center, University of Minnesota
 1977-1983 Tutor for Graduate Students, Sidney Sussex College, Cambridge
 1977 Visiting Research Scientist, Laboratory of Quaternary Biology, University of Lund
 1978 Visiting Exchange Scientist, Bulgarian Academy of Sciences, Sofia
 1978 Visiting Lecturer, Abisko Research Station, Sweden
 1979 Visiting Research Fellow, Limnological Research Center, University of Minnesota
 1979-1983 Adjunct Professor of Geology and Geophysics, University of Minnesota
 1984-1992 Research Consultant, International Geological Correlation Programme 158B "Palaeohydrological changes in the temperate zone in the last 15 000 years"
 1984-1985 Visiting Professor, Botanical Institute, University of Bergen
 1985-1987 Førsteamanuensis in Botany, Botanical Institute, University of Bergen
 1985 Visiting Scientist, Polish Academy of Sciences, Krakow
 1985 Visiting Research Scientist, Laboratory of Quaternary Biology, University of Lund
 1986 Visiting Scientist, Polish Academy of Sciences, Krakow
 1986 Visiting Lecturer, Laboratory of Quaternary Biology, University of Lund
 1987-2015 Professor of Quantitative Ecology and Palaeoecology, Botanical Institute and Department of Biology, University of Bergen
 1987 Visiting Research Scientist, Laboratory for Palaeobotany and Palynology, State University of Utrecht
 1988 Visiting Research Scientist, Laboratory for Palaeobotany and Palynology, State University of Utrecht
 1988 Visiting Professor, Botanical Institute, University of Bern
 1988 Visiting Lecturer, Abisko Research Station, Sweden
 1988 Visiting Professor, University of Umeå
 1989 Visiting Professor, Botanical Institute, University of Bern
 1989 Visiting Professor, Division of Life Sciences, Scarborough College, University of Toronto
 1990 Visiting Professor, Botanical Institute, University of Bern

- 1990-1992 Deputy Head, Botanical Institute, University of Bergen
- 1993-2010 ENSIS Professor of Quantitative Palaeoecology, Environmental Change Research Centre, Department of Geography, University College London
- 1993 Visiting Professor, Department of Biology, Queen's University, Kingston, Ontario
- 1994-2011 Adjunct Professor, Department of Biology, Queen's University, Kingston, Ontario
- 1995 Visiting Professor, Alaska Quaternary Center, University of Alaska, Fairbanks
- 1996 Visiting Professor, Institute of Zoology and Limnology, University of Innsbruck
- 2000- Member, Bjerknes Centre for Climate Research, University of Bergen
- 2004-2015 Professor of Quantitative Palaeoecology, Bjerknes Centre for Climate Research, University of Bergen
- 2007 Visiting Senior Research Fellow, Jesus College, Oxford
- 2007-2017 Member, Senior Common Room, Jesus College, Oxford
- 2010-2015 Distinguished Visiting Fellow, School of Geography and the Environment, University of Oxford
- 2010- Visiting Professor Emeritus, Environmental Change Research Centre, Department of Geography, University College London
- 2015- Professor Emeritus, Department of Biology, and Bjerknes Centre for Climate Research, University of Bergen

PROFESSIONAL ACTIVITIES

- 1966-1969 Council Member, British Bryological Society
- 1972 Organiser, British Ecological Society Symposium on Quaternary Plant Ecology, Cambridge
- 1972-1975 Assistant Editor, *Journal of Bryology*
- 1972-1975 Council Member, British Bryological Society
- 1972-1975 Council Member, Sidney Sussex College, Cambridge
- 1974-1976 Member, Working Party on Biological Surveillance, Natural Environment Research Council
- 1974-1981 Member, Coordinating Panel, National Vegetation Classification, Nature Conservancy Council
- 1976-1978 Council Member, Cambridge Philosophical Society
- 1976-2014 Editorial Board, *Review of Palaeobotany and Palynology*
- 1977-1982 Member of INQUA Holocene Commission Working Group on Chronostratigraphical Subdivision of the Holocene.
- 1978 Guest Lecturer, Nordic Council of Ecology course on 'Ecology of Sub-Arctic Environments', Abisko Research Station, Sweden
- 1978-1980 Member, Organising Committee, Fifth International Palynological Congress, Cambridge
- 1978-1981 Member, Advisory Committee of Science, Nature Conservancy Council
- 1978-1984 Editorial Board, *Journal of Bryology*
- 1978-2014 Editorial Board, *Palaeogeography, Palaeoclimatology, Palaeoecology*
- 1979-1983 Editorial Board, *Journal of Ecology*
- 1979-1983 Council Member, Freshwater Biological Association
- 1979-1983 Member, Scientific Advisory Committee, Freshwater Biological Association
- 1979-1983 Member, Botany Sub-committee of the British National Committee for Biology
- 1980-1984 Data-base Manager, Academy of Ancient Music
- 1980-2003 Editor, Cambridge Studies in Ecology, Cambridge University Press.
- 1981-1982 Member, Government Grant Board F (Botany), Royal Society
- 1982 Organizer, Quaternary Research Association Symposium on Pollen Analysis and Quaternary Palaeoecology: Recent Advances, Cambridge
- 1983-1984 Technical advisor to BBC "The Living Isles" television series
- 1985-1986 Member, Organising Committee, The Cultural Landscape - Past, Present, Future symposium and excursion, Bergen
- 1986 Member, Doctoral Committee, University of Oslo

- 1986 Guest Lecturer, Nordic Council of Ecology course on 'Non-island Biogeography', Tvarminne Research Station, Finland
- 1987 Member, Organising Committee, Surface Water Acidification Programme (SWAP) Mid-Term Review Conference, Bergen
- 1987 Dr.Philos. Faculty Opponent, University of Trondheim
- 1987-1992 Editorial Board, *Journal of Bryology*
- 1987-2003 Leader, Quantitative Ecology & Palaeoecology Research Group, Botanical Institute, University of Bergen
- 1987-1988 Editorial Board, *Journal of Paleolimnology*
- 1988 Member, Doctoral Committee, University of Bergen
- 1988 Ph.D. Examiner, University of London
- 1988 Guest Lecturer, Nordic Council of Ecology course on 'Ecology of Sub-Arctic Environments', Abisko Research Station, Sweden
- 1988-2000 Member of INQUA Holocene Commission Working Group on Data-Handling Methods
- 1989 Dr.Philos. Faculty Opponent, University of Oslo
- 1989-1996 Member, Advisory Board, European Pollen Data-Base
- 1989-2015 Member of Norwegian National Committee for International Union for Quaternary Research (INQUA)
- 1990 Leader, Evaluation Committee, Førsteamanuensis in Botany, University of Bergen
- 1990-1993 Member, Steering Committee, Laboratory for Radiometric Dating, Trondheim
- 1990-2003 Editorial Board, *The Holocene*
- 1990-2011 Editorial Board, *Grana*
- 1991 Leader, Evaluation Committee, Førsteamanuensis in Botany, University of Bergen
- 1991 Member, Evaluation Committee, Professorship in Landscape Ecology, University of Oslo
- 1991-2003 Editorial Board, *Oecologia Montana*
- 1991-2010 Editorial Board and Associate Editor, *Journal of Biogeography*
- 1992 Organiser, Nordic Council of Ecology and NorFA course on Analysis of Spatial Data in Ecology and Biogeography, Finse
- 1992 Organiser, 16th Geobotanical Excursion to Isle of Skye, University of Bern
- 1992 Member, Doctoral Committee, University of Utrecht
- 1992 Member of NAVF National Committee for Environmental Research Working Group on Biodiversity
- 1992 Ph.D. Examiner, University of Greenwich
- 1992 Leader, Doctoral Committee, University of Bergen
- 1992 Leader, Doctoral Committee, University of Bergen
- 1992 Leader, Doctoral Committee, University of Bergen
- 1992-2003 Editorial Collaborator, *Environmental and Ecological Statistics*
- 1993-1994 Member, Evaluation Committee, Professorship in Quaternary Geology, University of Copenhagen
- 1993-1995 Member of Norwegian Research Council (NFR) Steering Group and Grant Committee on Biodiversity research
- 1994 Leader, Doctoral Committee, University of Bergen
- 1994 Member, Evaluation Committee, Førsteamanuensis in Plant Ecology, University of Tromsø
- 1994 Dr. Scient. Faculty Opponent, University of Copenhagen
- 1994 Leader, Evaluation Committee, Førsteamanuensis in Botany, University of Bergen
- 1994 Guest lecturer, Nordic Council of Ecology course on 'Quantitative Surveys in Biodiversity Evaluation', Pori Research Centre, Finland.
- 1994 Ph.D. Examiner, University of London
- 1994-1995 Leader, Doctoral Committee, University of Bergen
- 1994-1995 Member of Forskningsstrategisk Utvalg, Mathematics - Natural Science Faculty, University of Bergen

- 1994-1995 Vice-member of Forskerutdanningsutvalget, Mathematics - Natural Science Faculty, University of Bergen
- 1994-1996 Member of Norwegian Research Council (NFR) Steering Group and Grant Committee on Climate and Ozone research
- 1995 Leader, Doctoral Committee, University of Bergen
- 1995 Ph.D. Examiner, University of Joensuu
- 1995 Guest Lecturer, International Centre for Advanced Mediterranean Agronomic Studies (CIHEAM) course on 'Lakes as Sensors of Environmental and Climatic Changes', Zaragoza, Spain
- 1995 Ph.D. Examiner, University of Helsinki
- 1995 Ph.D. Examiner, University of Cape Town
- 1995 Member, Organising Committee, European Science Foundation Research Conference, The Establishment of Plant and Animal Communities in Europe since the Last Glaciation
- 1996 Leader, Doctoral Committee, University of Bergen
- 1996 Ph.D. Examiner, University of Malaga, Spain
- 1996 Leader, Evaluation Committee, Førsteamanuensis in Systematic Botany University of Bergen
- 1996 Leader, Doctoral Committee, University of Bergen
- 1997-1999 Editorial Board, *Ecography*
- 1998 Member and Guest Lecturer, Scientific Panel, EC Environment and Climate Research Programme Advanced Study Course on Holocene Climate Reconstruction, London
- 1998 Leader, Alpine Garden Society Expedition to Wyoming and Montana Rocky Mountains
- 1998 Leader, Doctoral Committee, University of Bergen
- 1998-2002 Member, Executive Committee, NFR NORPAST project, Past Climates of the Norwegian Region.
- 1999 Ph.D. Examiner, James Cook University, Australia
- 1999 Ph.D. Opponent, University of Umeå
- 1999-2015 Member, Advisory Board, *Perspectives in Plant Ecology, Evolution and Systematics*
- 2000 Ph.D. Examiner, University of Joensuu, Finland
- 2000 Leader, Alpine Garden Society Expedition to Colorado Rocky Mountains, USA
- 2000-2006 Co-ordinator, NFR SUP NORPEC project, Norwegian palaeoenvironments and climates as reconstructed from lake sediments.
- 2000- Member, Advisory Board, *Developments in Paleoenvironmental Research*, Kluwer Academic Publishers and Springer
- 2001 Ph.D. Examiner, University of Aberdeen
- 2001 E.B. Anderson Memorial Lecture, Alpine Garden Society, UK
- 2001-2004 Co-ordinator of EU Marie Curie Training Site QPALCLIM (Quantitative palaeoclimate reconstructions from lake sediments)
- 2001-2004 Co-ordinator of EU Marie Curie Training Site QPALEN (Quantitative palaeoecology and ecology in northern and arctic areas).
- 2002 Dr. Habilitation Examiner, University of Innsbruck
- 2002 Co-organiser, 22nd Geobotanical Excursion to western Norway, University of Bern
- 2003- Editorial Board, *Ecology, Biodiversity and Conservation Series*, Cambridge University Press
- 2003- Member, Editorial Advisory Board, *The Holocene*
- 2004 Leader, Alpine Garden Society Expedition to the mountains of Oregon and northern California
- 2004 Dr. Scient. Faculty Opponent, University of Trondheim
- 2004 Molly Sanderson Memorial Lecture, Alpine Garden Society, UK
- 2004-2007 Leader, Ecological & Environmental Change Research Group, Department of Biology, University of Bergen
- 2004-2016 Editorial Board, *Acta Palaeobotanica*
- 2005 Dr. Habilitation examiner, University of Bern

- 2005 Member, Evaluation Committee, Professor in Macroecology, University of Copenhagen
- 2005 Leader, Alpine Garden Society Expedition to Tibet
- 2005 Leader, Alpine Garden Society Expedition to northern Patagonia
- 2007-2009 Member, Steering Committee, NordForsk Nordic Network of Palaeoclimatology (NEPAL)
- 2007-2010 Member, International Advisory Board, Darwin Center for Biogeology, The Netherlands
- 2007- Editorial Board, *Plant Ecology and Diversity*
- 2008 Member, Evaluation Committee, Professor II in Biogeography, University of Copenhagen
- 2008 D.Phil. Examiner, University of Oxford
- 2008 Co-organiser, NorForsk workshop on Quantitative Methods in Palaeoecology and Palaeoclimatology, Espeyrend
- 2008 D.Sc. Special External Examiner, University of Ireland
- 2008-2010 Deputy Leader, Ecological & Environmental Change Research Group, Department of Biology, University of Bergen
- 2009 Co-organiser, NorForsk workshop on Biotic Responses to Environmental Change – from Genes to Biomes, Milde
- 2009 Dr. Philos. Opponent, University of Oslo
- 2009 Member, Scottish Government Visiting Group, Royal Botanic Garden Edinburgh
- 2009-2011 Member, Advisory Board NFR, Towards a new framework for the management of cultural and natural heritage in upland Landscape Conservation Areas (LCA) in Norway
- 2010 D.Phil. Examiner, University of Oxford
- 2012 Co-organiser, 26th Geobotanical Excursion to southern Norway, University of Bern
- 2012 Working Group Leader, Palaeo50 Workshop on the Priority Research Questions in Palaeoecology, University of Oxford
- 2013- Member, Editorial Advisory Board, *The Anthropocene Review*
- 2013 Member, Evaluation Committee, Professor in Historical Biogeography, University of Copenhagen
- 2013 Ph.D. Examiner, University of Rome
- 2013 Tage Nilsson Memorial Lecturer, University of Lund
- 2013- Member, Reviewer Editorial Board, *Frontiers in Paleoecology*
- 2014 Ph.D. Examiner, University of Greifswald
- 2014- External Advisory Board, Institut Botànic de Barcelona, Consejo Superior de Investigaciones Científicas
- 2015-2016 External Senior Advisor and Reviewer, EU *European Atlas of Forest Tree Species*
- 2015-2016 Member, Organising Committee, Centenary (1916-2016) of pollen analysis and the legacy of Lennart von Post. The Royal Swedish Academy of Sciences
- 2017 Ph.D. Examiner, University of Bern
- 2017 Co-organiser, Long-term Ecology and Future Planet Earth, symposium in honour of Kathy J Willis, University of Bergen
- 2017- External Advisory Board, Czech Science Foundation
- 2018 Ph.D. Examiner, University of Bern
- 2018- Advisor, Italian Ministry of Education, Universities and Research

OTHER PROFESSIONAL ACTIVITIES

Manuscript reviews for the following journals:

<i>Acta Botanica Fennica</i>	<i>Annals of Botany</i>
<i>Acta Forestalia Fennica</i>	<i>Applied Vegetation Science</i>
<i>Acta Palaeobotanica</i>	<i>Aquatic Sciences</i>
<i>Ambio</i>	<i>Arabian Journal of Geosciences</i>
<i>American Chemical Society</i>	<i>Arctic, Antarctic and Alpine Research</i>
<i>American Naturalist</i>	<i>Arctic Fungal Diversity</i>
<i>Annales Botanici Fennici</i>	<i>Arctok</i>
<i>Annales Zoologici Fennici</i>	<i>Biodiversity and Conservation</i>

Biodiversity Letters
Biogeosciences
Biological Conservation
Biological Journal of the Linnean Society
Biological Reviews
Biology and Environment
Biometrics
Boreas
Botanical Journal of Scotland
Botanical Journal of the Linnean Society
British Birds
Canadian Journal of Fisheries and Aquatic Sciences
Chemometrics and Intelligent Laboratory Systems
Climate Change
Climate Dynamics
Climate of the Past
Climate Research
Conservation Biology
Cryptogamica Helvetica
Current Biology
Diatom Research
Dissertationes Botanicae
Diversity and Distributions
Earth and Planetary Science Letters
Ecography
Ecological Indicators
Ecological Modelling
Ecology
Environmental Conservation
Environmental Monitoring and Assessment
Environmental Science and Technology
Evolution and Systematics
Folia Geobotanica
Forest Ecology and Management
Freshwater Biology
Frontiers in Earth Science
Frontiers in Paleoecology
Functional Ecology
Fundamental and Applied Limnology
Genes
Geochronometria
Geografiska Annaler
Géographie Physique et Quaternaire
Geology
Geophysical Research Letters
Global and Planetary Change
Global Biogeochemical Cycles
Global Change Biology
Global Ecology and Biogeography Letters
Grana
Holarctic Ecology
Hydrobiologia
Ibis
Interciencia (Venezuela)
International Journal of Biodiversity Science, Ecosystem Services & Management
Journal of Applied Ecology
Journal of Biogeography
Journal of Bryology
Journal of Ecology
Journal of Geophysical Research – Atmosphere
Journal of Glaciology
Journal of Heredity
Journal of Mountain Science
Journal of Paleolimnology
Journal of Phycology
Journal of the Geological Society of London
Journal of the North American Benthological Society
Journal of the Royal Statistical Society
Journal of Vegetation Science
Le Naturaliste Canadien
Limnology and Oceanography
Lindbergia
Mededelingen Rijks Geologische Dienst
Methods in Ecology and Evolution
Nature
Nature Communications
Nature Geoscience
Nature Plants
New Phytologist
Nordic Journal of Botany
Norsk Geologisk Tidsskrift
Norwegian Journal of Geography
Oecologia Montana
Oikos
Opera Botanica
Palaeogeography, Palaeoclimatology, Palaeoecology
Palynology
Perspectives in Plant Ecology, Evolution and Systematics
Philosophical Transactions of Royal Society of London B Biological Sciences
Phytochemistry
Phytotaxonomica
Plant Ecology (previously Vegetatio)
Plant Ecology and Diversity
PLoS One
Polar Biology
Polar Research
Preslia
Proceedings of the National Academy of Sciences USA
Proceedings of the Royal Society B Biological Sciences
Progress in Physical Geography
Quaternary International
Quaternary Newsletter
Quaternary Research
Quaternary Science Reviews
Review of Palaeobotany and Palynology
Scandinavian Journal of Forest Research
Science
Scientific Reports

Sommerfeltia
South African Journal of Botany
Stratigraphy
Systematic Biology
Terra Nova

The Holocene
Transactions of the British Bryological Society
Trends in Ecology and Evolution
Vegetation History and Archaeobotany
Water, Air and Soil Pollution

Book manuscript reviews for the following publishing houses:

Princeton University Press, Chapman and Hall, Cambridge University Press, Allen and Unwin, Elsevier, Blackwell Scientific Publications, John Wiley, Kluwer Academic Publications, Springer, Wiley-Blackwell

SCIENTIFIC SOCIETIES

- (a) Elected Fellow Cambridge Philosophical Society
Foreign Member, Norske Videnskaps-Akademi (Norwegian Academy of Sciences and Letters)
Botanical Society of Scotland (Honorary Fellow)
Foreign Member, The Royal Swedish Academy of Sciences
Corresponding Fellow, Royal Society of Edinburgh
- (b) Member
British Ecological Society (Life Member)
Ecological Society of America
Botanical Society of Britain and Ireland
Freshwater Biological Association (Life Member)
British Bryological Society (Life Member)
Quaternary Research Association
Norwegian Botanical Society
Alpine Garden Society
International Biogeography Society

RESEARCH ACTIVITIES AND INTERESTS

Quaternary pollen analysis, palaeoecology, and palaeolimnology

- Late-Quaternary vegetational and environmental history of northern England, Scotland, Minnesota, Norway, Sweden, Switzerland, and the Yukon.
- Interglacial vegetational history of Scotland.
- Theory of palaeoecology.
- Recent lake acidification and heavy metal pollution in Norway.
- Recent environmental history of Spitsbergen.
- Palynological theory and practical techniques.
- Pollen mapping in Europe, Norden, and British Isles.
- Mechanisms of environmental change at different spatial and temporal scales.
- Quantitative reconstruction of past environments from palaeoecological data.
- Ecological dynamics over long time periods.

Quantitative palaeoecology

- Numerical methods for the handling and analysis of Quaternary pollen-stratigraphical and other palaeoecological data and of modern surface samples.
- Numerical methods for the quantitative reconstruction of past environmental variables from palaeoecological data.
- Use of randomisation tests and computer-intensive techniques in testing palaeoecological hypotheses.

Community plant ecology and floristics

- Phytosociology and dynamics of vegetation in western Scotland and Norway.
- Community-environmental relationships in Norway.
- Nature conservation evaluation.
- Quantitative methods in community ecology, in environmental monitoring, in conservation evaluation, and in biodiversity research.
- Impacts of climate change on ecological systems.
- Comparative floristics of alpine areas globally.

Plant Geography

- Numerical approaches for the analysis of plant geographical data from Europe, USA, British Isles, and Norden.
- Neutral-models in biogeography.
- Spatial data analysis.
- Plant-climate relationships and modelling in relation to future climatic change.
- Impacts of climate change on ecological systems.

Bryology

- Ecology and distribution of western oceanic bryophytes in the British Isles and western Norway.
- Bryophyte flora of the Isle of Skye.
- Statistical modelling of bryophyte-environment relationships.

PUBLICATIONS All are refereed publications except for those marked as (UR).

1a. Books and Edited Volumes

1. 1973 Birks, H.J.B. *Past and Present Vegetation of the Isle of Skye - a Palaeoecological Study*. Cambridge University Press, 415 pp.
2. 1973 Birks, H.J.B. & West, R.G. (eds.) *Quaternary Plant Ecology*. Proceedings of the 14th Symposium of the British Ecological Society. Blackwell Scientific Publications, 326 pp.
3. 1980 Birks, H.J.B. & Birks, H.H. *Quaternary Palaeoecology*. Edward Arnold, 289 pp.
4. 1980 Murray, C.W. & Birks, H.J.B. *The Botanist in Skye: a vascular plant flora of the Isle of Skye*, Botanical Society of the British Isles, 67 pp.
5. 1983 Huntley, B. & Birks, H.J.B. *An Atlas of Past and Present Pollen Maps for Europe: 0-13000 years ago*. Cambridge University Press, 667 pp.
6. 1985 Birks, H.J.B. & Gordon, A.D. *Numerical Methods in Quaternary Pollen Analysis*. Academic Press, 317 pp. (translated into Chinese by Shen Caiming and published by Nanjing University Press, China, 239 pp).
7. 1988 Birks, H.H., Birks, H.J.B., Kaland, P.E. & Moe, D. (eds.) *The Cultural Landscape Past, Present and Future*. Cambridge University Press, Cambridge, 521 pp.
8. 1991 Rodwell, J.S. (ed.), Pigott, C.D., Ratcliffe, D.A., Malloch, A.J.C., Birks, H.J.B., Proctor, M.C.F., Shimwell, D.W., Huntley, J.P., Radford, E., Wigginton, M.J. & Wilkins, P. *British Plant Communities I. Woodlands and Scrub*. Cambridge University Press, Cambridge, 395 pp.
9. 1991 Rodwell, J.S. (ed.), Pigott, C.D., Ratcliffe, D.A., Malloch, A.J.C., Birks, H.J.B., Proctor, M.C.F., Shimwell, D.W., Huntley, J.P., Radford, E., Wigginton, M.J. & Wilkins, P. *British Plant Communities 2. Mires and Heaths*. Cambridge University Press, Cambridge, 628 pp.
10. 1992 Rodwell, J.S. (ed.), Pigott, C.D., Ratcliffe, D.A., Malloch, A.J.C., Birks, H.J.B., Proctor, M.C.F., Shimwell, D.W., Huntley, J.P., Radford, E., Wigginton, M.J. & Wilkins, P. *British Plant Communities 3. Grasslands and Montane Communities*. Cambridge University Press, Cambridge, 552 pp.
11. 1995 Rodwell, J.S. (ed.), Pigott, C.D., Ratcliffe, D.A., Malloch, A.J.C., Birks, H.J.B., Proctor, M.C.F., Shimwell, D.W., Huntley, J.P., Radford, E., Wigginton, M.J. & Wilkins, P. *British Plant Communities 4. Aquatic Communities, Swamps and Tall-Herb Fens*. Cambridge University Press, Cambridge, 283 pp.
12. 1996 Berglund, B.E., Birks, H.J.B., Ralska-Jasiewiczowa, M. & Wright, H.E. (eds.) *Palaeoecological Events During the Last 15000 Years: Regional Syntheses of Palaeoecological Studies of Lakes and Mires*. J. Wiley & Sons, Chichester, 764 pp.
13. 2000 Rodwell, J.S. (ed.), Pigott, C.D., Ratcliffe, D.A., Malloch, A.J.C., Birks, H.J.B., Proctor, M.C.F., Shimwell, D.W., Huntley, J.P., Radford, E., Wigginton, M.J. & Wilkins, P. *British Plant Communities 5. Maritime Communities and Vegetation of Open Habitats*. Cambridge University Press, Cambridge, 512 pp.
14. 2001 Smol, J.P., Birks, H.J.B. & Last, W.M. (eds.) *Tracking Environmental Change using Lake Sediments. Volume 3: Terrestrial, Algal, and Siliceous Indicators*. Kluwer Academic Publishers, Dordrecht, 371 pp.

15. 2001 Smol, J.P., Birks, H.J.B. & Last, W.M. (eds.) *Tracking Environmental Change using Lake Sediments. Volume 4: Zoological Indicators*. Kluwer Academic Publishers, Dordrecht, 217 pp.
16. 2003 Lotter, A.F. & Birks, H.J.B. (eds.) The Holocene palaeolimnology of Sägistalsee and its environmental history. *Journal of Paleolimnology* **30(3)**, 82 pp.
17. 2003 Mackay, A., Battarbee, R.W., Birks, H.J.B. & Oldfield, F. (eds.) *Global Change in the Holocene*. Arnold, London, 528 pp.
18. 2004 Averis, A.M., Averis, A.B.G., Birks, H.J.B., Horsfield, D., Thompson, D.B.A. & Yeo, M.J.M. *An Illustrated Guide to British Upland Vegetation*. Joint Nature Conservation Committee, Peterborough, 454 pp.
19. 2004 Birks, H.J.B., Jones, V.J. & Rose, N.L. (eds.) Recent environmental change on Svalbard. *Journal of Paleolimnology* **31(4)**, 143 pp.
20. 2005 Murray, C.W. & Birks, H.J.B. *The Botanist in Skye and Adjacent Islands*. University College London, 136 pp.
21. 2008 Battarbee, R.W., Birks, H.J.B. & Dearing, J.A. (eds.) Special Issue in Honour of Professor Frank Oldfield. *The Holocene* **18**, 201 pp.
22. 2012 Birks, H.J.B., Lotter, A.F., Juggins, S. & Smol, J.P. (eds.) *Tracking Environmental Change Using Lake Sediments. Volume 5: Data Handling and Numerical Techniques*. Springer, Dordrecht, 745 pp.
23. 2015 Gentili, R., Badola, H.K. & Birks, H.J.B. (eds.) Alpine biodiversity and refugia in a changing climate. *Biodiversity* **16**, 193-303.
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165. 2018 Bhatta, K.P., Birks, H.J.B., Grytnes, J.-A. & Vetaas, O.R. Weighted average regression and environmental calibration as a tool for quantifying climate-driven changes in vegetation. *Journal of Plant Ecology* doi: 10.1093/jpe/rty039
166. 2018 Birks, H.J.B. Expedition botany/Hobby botany. In: *Curious About Nature: A Passion for Fieldwork* (eds. T. Burt & D.B.A. Thompson). Cambridge University Press, Cambridge, in press.
167. 2018 Birks, H.J.B. Michael Charles Faraday Proctor 1929–2017. *Bulletin of the British Ecological Society* **49**, 58-59.
168. 2018 Birks, H.J.B. & Birks, H.H. Michael Proctor (1929-2017). *BSBI News* **138**, 66-70.
169. 2018 Graae, B.J., Vandvik, V. & 18 co-authors including Birks, H.J.B. Stay-or-go – how topographic heterogeneity moderates population and community responses to climate change. *Perspectives in Plant Ecology, Evolution, and Systematics* **30**, 41-50.
170. 2018 Thorne, M., Thorne, D., La Duo, Lhag Chong, Grytnes, J.-A., Grytnes, J., Birks, H.H. & Birks, H.J.B. *Meconopsis torquata* in the mountains near Lhasa, Tibet Autonomous Region. *The Rock Garden* **140**, 82-89.

4. Other Topics

1. 1992 Birks, H.J.B. & Austin, H.A. An annotated bibliography of canonical correspondence analysis and related constrained ordination methods 1986-1991. *Botanical Institute, University of Bergen*, 29 pp. (UR)
2. 1994 Birks, H.J.B., Peglar, S.M. & Austin, H.A. An annotated bibliography of canonical correspondence analysis and related constrained ordination methods, 1986-1993. *Botanical Institute, University of Bergen*, 58 pp. (UR)
3. 1998 Birks, H.J.B., Indrevær, N.E. & Rygh, C. An annotated bibliography of canonical correspondence analysis and related constrained ordination methods 1994-1996. *Botanical Institute, University of Bergen*, 61 pp. (UR)
4. 2008 Birks, H.J.B. Ronald Gray (1920-2008). *Lobster* 56, 16.
5. 2012 Felde, V.A., Birks, H.J.B., Peglar, S.M. & Bjune, A.E. Vascular plant and their pollen- or spore-types in Norway. <http://www.uib.no/en/rg/EECRG/55321/vascular-plants-and-their-pollen-or-spore-type-norway> (UR)
6. 2012 Gjengedal, K., Birks, H.H. & Birks, H.J.B. Blomane på verdens tak. *Hubro* 2012(2): 42-45. (UR)
7. 2014 Birks, H.J.B. En verden av pollen og tall i 2°C vann og klima. *Norsk Klimastiftelse*, 2, 21. (UR)
8. 2014 Birks, H.J.B., Birks, H.H. & Birks, C.J.A. In Memoriam – Christopher Hogwood 10 September 1941–24 September 2014. *Early Music Review* 163, 27-28.
9. 2014 Helvik, I., Orbán, I., Aronsson, M & Birks, H.J.B. Climate 'indicator values' for the native Nordic flora. <http://www.uib.no/en/rg/EECRG/78893/nordic-plant-attributes> (UR)
10. 2015 Thompson, D.B.A. & Birks, H.J.B. Dick Balharry Obituary. *The Guardian* 5 May 2015.

5. E-book Chapters

From *Sedimental Journeys – The Life and Legacy of Herb Wright*.
<http://www.eecrg.uib.no/SedimentalJourneys.htm>

1. 2016 Birks, H.J.B. The Klutlan Glacier Expedition 1971.
2. 2016 Birks, H.J.B. Herbert E. Wright, Jr – a biography.
3. 2016 Birks, H.J.B. & Birks, H.H. Contributions of Herbert E. Wright Jr to Science and Technology.
4. 2016 Jenks, C.R. & Birks, H.J.B. Publications of Herbert E Wright.
5. 2017 Birks, H.J.B. European palaeoecological pioneers in Minnesota 1958–1968.
6. 2017 Birks, H.J.B. Adventures on Bermuda and in Florida with Herb Wright and Bill Watts.

6. Book Reviews

I have published book reviews in the following journals:

Anthropocene Review

Boreas

Chemical Geology

Earth Science Reviews

Journal of Applied Ecology

Journal of Biogeography

Journal of Bryology

Journal of Ecology

Journal of Paleolimnology

Nature

Naturen

New Phytologist

*Palaeogeography, Palaeoclimatology,
Palaeoecology*

Plant Talk

Plantsman

Quarterly Bulletin of the Alpine Garden Society

Quarterly Review of Biology

Review of Palaeobotany and Palynology

The Alpine Gardener

The Holocene

Transactions of the British Bryological Society

Watsonia

PRESENTATIONS AT MEETINGS AND SYMPOSIA 2010-2018

2018

December Invited lecture, Norwegian Botanical Society, Bergen
October Invited lectures (3), Charles University, Prague
September Invited lecture, Kunsthall, Bergen
April Invited lecture, VOLT and Bergen Kommune, Bergen Bibliotek

2017

December Invited lecture, Norwegian Botanical Society, Bergen
October Invited lecture, University College London
September Invited lecture, Humans on Planet Earth (HOPE), University of Bergen
May Invited lecture, Long-term Ecology and Future Planet Earth, University of Bergen

2016

December Invited lecture, Norwegian Botanical Society, Bergen
November Invited lecture, Lennart von Post 100-year Symposium, The Royal Swedish Academy of Sciences, Stockholm
June Project lectures (2), IGNEX workshop, Bergen
May Invited lectures (3), Department of Biology, NTNU, Trondheim
April Invited lecture, Department of Geography, Bergen
February Invited lecture, Bjerknes Centre for Climate Research, Bergen

2015

December Invited lecture, Norwegian Botanical Society, Bergen
October Invited lecture, University College London
September Invited lectures (2), Royal Swedish Academy of Sciences, Stockholm
September Invited lecture, Bjerknes Centre for Climate Research, Bergen
August Invited address (2), International Paleolimnology Association Symposium, Lanzhou
August Invited lecture, Lanzhou University
June Invited lecture, Svante Björck Symposium, Lund
May Invited lecture, Scotland's Big Nature Festival, Musselburgh
March Invited lecture, At the Frontiers of Palaeoecology Symposium, University of Bergen

2014

December Invited lecture, Norwegian Botanical Society, Bergen
November Invited lecture, Roger J Flower Symposium, University College London
October Invited lecture, University College London
October Invited lecture, NFR KlimaForsk Programme, Bergen
September Invited lecture, Bjerknes Centre for Climate Research, Bergen
April Invited lecture, Hilary H. Birks Symposium, University of Bergen
February Invited lecture, Research Himalaya, Bergen
January Invited lecture, Palaeoecology: The Past as the Key to the Future, University of Amsterdam

2013

December Invited lecture, Norwegian Botanical Society, Bergen
March Invited lectures (2), Tage Nilsson Memorial Lectures, Lund
March Invited lecture, Norwegian Ecological Society, Trondheim

2012

December Invited lecture, Norwegian Botanical Society, Bergen
November Invited lecture, University College London
November Invited lecture, Centre for Climate Dynamics, Bergen
November Invited lecture, Botanical Society of the British Isles, Cambridge
September Invited lecture, Alpine Garden Society, Leeds
September Invited lecture, Bjerknes Centre 10th Anniversary Conference, Bergen
August Invited lecture, Ann Magurran Biodiversity Seminar, University of Bergen
August Invited lectures (2), International Palaeolimnology Association Symposium, Glasgow

May Invited lecture, R Battarbee Lecture Series, University College London
April Invited lecture, Peter Emil Kaland Symposium, University of Bergen
April Invited lecture, NordForsk BioCold Workshop, Vilnius

2011

November Invited lecture, Centre of Biodiversity, Georg-August University, Göttingen
October Invited lecture, Centre of Scientific Theory & Philosophy, University of Bergen
September Invited lectures (2), People and Nature in Mountains, Trondheim
September Invited lecture, University of Bergen
September Invited lectures (4), NordForsk PhD course, Abisko
July Invited lecture, International Quaternary Association, Bern
May Invited lecture, ESF Tilia Workshop, Liverpool
March Invited lecture, Classifynder Workshop, Palmerston North, New Zealand
February Invited lecture, Stay or Go NORFA Workshop, Trondheim
February Invited lecture, Integrating Ice Core, Marine and Terrestrial Records: Towards High-Precision Chronologies workshop, Potsdam

2010

October Invited lectures (6), PAGES meeting on Quaternary Palaeoclimatology, Valdivia, Chile
October Invited lecture, Royal Botanic Garden, Kew
October Invited lecture, Centre of Scientific Theory and Philosophy, University of Bergen
September Invited lecture, Dynamic Landscapes and Conservation and Management (DYLAN), Trondheim
August Invited lecture, 13th Nordic Tropical Botany Meeting, University of Bergen
January Invited lecture, University of Stirling

MAJOR RESEARCH GRANTS

2018-2022 European Research Council Advanced Grant “Humans on Planet Earth – Long-term impacts on biosphere dynamics” (HOPE)
2016-2019 NFR (Norway) “Interglacials and glacials as natural experiments in biodiversity dynamics” (IGNEX)
2016-2018 VISTA (Norway) “Interglacials and glacials as natural experiments in ecosystem assembly and restoration” (IGNEX-eco)
2014-2016 NFR (Norway) “No-analogue climates and ecological responses in the past and future” (NoAClim)
2013-2016 NFR (Norway) “Developing a method to measure UV-B flux through time using aromatic compounds contained in fossil pollen and leaf cuticles” (PARASOL) (with V. Vandvik and K.J. Willis)
2013-2015 NFR (Norway) “Quantifying the drivers of palaeoecological change” (PalaeoDrivers) (with R.J. Telford)
2011-2014 NFR (Norway) “Terrestrial biodiversity through time – novel methods and their applications” (with A.E. Bjune)
2010-2014 NFR (Norway) “Research infrastructure for high-precision palaeoecological analyses”
2009-2011 NFR (Norway) “Towards a new framework for the management of cultural and natural heritage in upland Landscape Conservation Areas (LCA) in Norway” (with G. Austrheim et al.)
2009-2010 Meltzer Fund “Patterns of endemic diversity along altitudinal gradients” (with J.-A. Grytnes)
2008-2010 NFR (Norway) “Palaeoecological reconstructions of marine soft-bottom ecological status and in situ reference conditions: calibrating benthic foraminifera with macrofauna and hydrogeographic data” (with E. Alve et al.)
2008-2010 NFR (Norway) “Driving forces in vegetation dynamics and their consequences for ecosystem services” (with J.-A. Grytnes)
2007-2011 NFR (Norway) “Arctic records of past climate change – dynamics, feedback and processes” (with C.A. Dahl et al.)
2007-2009 NERC (UK), Scottish Natural Heritage, and Aberdeen University “Fifty years of upland environmental change: lessons for today” (with S. Woodin, D.B.A. Thompson, and L. Ross)

- 2007-2009 Scottish Natural Heritage and British Bryological Society "Long-term monitoring of snow-bed vegetation in the Scottish Highlands" (with G.P. Rothero and D.G. Long)
- 2003-2008 NFR (Norway) "Land-use and ecosystem function in Norwegian forest landscapes (with M. Ohlson and 5 others)
- 2003-2006 NFR (Norway) "Climate effects on dynamic biodiversity - compositional and functional changes in biodiversity in time and space (with E. Heegaard)
- 2002-2005 NFR (Norway) "Past climates of the Norwegian Region" (NORPAST-2) (with M. Hald, E. Larsen, A. Nesje et al.)
- 2001-2004 European Commission Marie Curie Training Site "Quantitative palaeoecology and ecology in northern and arctic areas" (QPALEN)
- 2001-2004 European Commission Marie Curie Training Site "Quantitative palaeoclimatic reconstructions from lake sediments" (QPALCLIM)
- 2000-2005 NFR (Norway) Strategic University Programme "Norwegian palaeoenvironments and climates (NORPEC) as reconstructed from lake sediments" (with A. Nesje and 6 others)
- 1999-2003 VISTA (Statoil & Norwegian Academy of Sciences and Letters) "Plant macrofossils as a terrestrial climate archive for the last 13000 years in Norway" (with H.H. Birks and W. Eide)
- 1999-2003 Nordic Council of Ministers, Nordic Arctic Research Programme, "Pollution and rapid climatic changes in the Arctic as recorded by lake sedimentary archives" (POLARCLIM) (with R. Hall, A. Nesje, A. Korhola et al.)
- 1999-2002 NFR (Norway) "Past climates of the Norwegian Region" (NORPAST) (with E. Larsen, M. Hald, et al.)
- 1999-2001 NFR (Norway) "Plant species distributions, diversity and altitude - climate change, recruitment limitation and the mass effect" (with J.-A. Grytnes)
- 1998-2001 EC Environment and Climate "European Diatom Database (E.D.D.I.). An information system for palaeoenvironmental reconstruction" (with R.W. Battarbee, H. Bennion, et al.)
- 1998-2001 NFR (Norway) "Lake acidity and environmental interactions in low-alpine lakes in southern Norway" (with A. Furnes)
- 1998-2001 EC Environment and Climate "Climate History as recorded by ecologically sensitive arctic and alpine lakes in Europe during the last 10,000 years: a multi-proxy approach" (CHILL-10000) (with A. Korhola and 9 others)
- 1998-1999 L. Meltzers Høyskolefond (Norway) "The response of stomata and carbon isotopes of trees to raised CO₂ in the CLIMEX experiment" (with H.H. Birks)
- 1996-2002 National Science Foundation (Switzerland) "Forest dynamics under constantly changing climates. Data and models to quantify medium- to long-term changes in ecosystems" (with B. Ammann)
- 1996-2001 NFR (Norway) "Consequences of land-use changes on the flora and vegetation of summer farms in western Norway" (with V. Vandvik)
- 1996-1999 NFR (Norway) "Holocene climatic history and ecological impacts in Setesdal, southern Norway: a quantitative pollen-analytical study"
- 1996-1999 EC Environment and Climate "Biodiversity of microorganisms in aquatic systems" (BIOMASS) (with 15 others)
- 1996-1999 EC Environment and Climate "Measuring and modelling the dynamic response of remote mountain lake ecosystems to environmental changes: a programme of Mountain Lake Research" (MOLAR) (with 21 others)
- 1996-1997 Nordic Environmental Research Programme, Climate Change Research "Climate history as recorded by ecologically sensitive arctic and alpine lakes in Norden during the last 10,000 years" (NORD-CHILL) (with A. Korhola, I. Renberg and N.J. Anderson)
- 1995-2000 NFR (Norway) "Norwegian ferns as ecological indicators" (with H. Mütter)
- 1995-1998 NFR (Norway) "Lake sediment records of recent atmospheric pollution and environmental change on Spitsbergen"
- 1994-1997 NFR (Norway) "Towards an explanation of rarity in the Norwegian Flora"
- 1994-1997 NFR (Norway) "Possible effects of global warming on reproduction in alpine plant populations - International Tundra Experiment"

- 1994-1996 National Science Foundation (Switzerland) "Quantitative approaches to long-term vegetation dynamics in the Swiss Alps" (with B. Ammann)
- 1993-1996 NFR (Norway) "Spatial and temporal patterns of Holocene climatic changes in Norway"
- 1993-1996 National Science Foundation (Switzerland) "Lake sediments as proxy-archives for the reconstruction of environmental dynamics in space and time: calibration" (with A.F. Lotter)
- 1993-1994 EEC STEP Programme "Acidification of mountain lakes: Palaeolimnology and ecology, remote mountain lakes as indicators of air pollution and climate change" (ALPE-2) (with 15)
- 1992-1995 NFR (Sweden) "Holocene environmental changes in southern Sweden 10000–0 B.P. - reconstruction and quantification of landscape, vegetation and land-use types in time and space" (with M.-J. Gaillard *et al.*)
- 1991-1993 National Science Foundation (Switzerland) "Quantitative approaches to long-term vegetation dynamics and environmental history in Switzerland" (with B. Ammann)
- 1991-1992 EEC STEP programme "Acidification of remote mountain lakes" (AL:PE) (with 22 others)
- 1990-1992 NAVF (Norway) "Predicting impacts of future climatic change on terrestrial Norwegian biota"
- 1989-1992 NAVF (Norway) "Quantitative plant geography of Norden"
- 1989-1991 NAVF (Norway) "Modern diatom and chrysophyte calibration functions and heavy metal accumulation rates in Norwegian lakes"
- 1988-1991 NFR (Sweden) "Pollen/vegetation/land-use - a methodological study for the interpretation of past cultural landscape changes" (with B.E. Berglund, M.-J. Gaillard, U. Emanuelsson)
- 1988-1990 NATO "Long-term dynamics of selected plant taxa and communities" (with J.C. Ritchie and K.D. Bennett)
- 1986-1988 Surface Water Acidification Programme "Palaeoecological tests on recent lake acidification in western Norway: a comparison of lake catchment types" (with P.E. Kaland)
- 1981-1982 Royal Society of London (UK) "Late Quaternary vegetational and climatic history of Morocco" (with H.F. Lamb)
- 1980-1982 IBM (UK) "Computer methods in Quaternary pollen analysis"
- 1977-1980 NERC (UK) "Pollen, vegetation and climatic maps for Europe 0–12000 years ago"
- 1976-1980 EEC "Climatic and vegetational history of western and central Europe 0–14000 years ago" (with W.A. Watts and C.R. Janssen)
- 1976-1979 Nature Conservancy Council (UK) "National Vegetation Classification for East Anglia and South-East England"
- 1975-1977 NERC (UK) "Vegetational history of Western Scotland"
- 1975-1976 Royal Society of London (UK) "Computer aids in Quaternary pollen analysis"

TEACHING

Undergraduate and graduate student courses

1. University of Cambridge

Quaternary Palaeoecology (Part II)
 History of British Flora (Part II)
 Plant Communities (Part II)
 British Vegetation (Part II)

Theoretical Ecology (Part II)
 Multivariate Data Analysis (Part II)
 Phytogeography and Palaeoecology (Part IB)
 Man's Quaternary Environment (Part IB)

2. University of Bergen

Organismal Biology II (BIO102)
 General Botany (B106, BIO112)
 Plant Systematics (B130)
 Plant Ecology (BB200, BB201)
 Ecology (BIO201)
 Field Course in Quantitative and Plant Ecology (B231)
 General Plant Geography (B239)
 Quantitative Ecology (B240)

Techniques in Quantitative Data Analysis (B241)
 Quaternary Palaeoecology (BIO250)
 Research Projects in Ecology, Evolution and Biodiversity (BIO299)
 Numerical Analysis of Ecological and Palaeoecological Data (BB300)
 Research Project Design and Hypothesis Testing (BB300, BIO300)

Topics in Ecology, Evolution, and Biodiversity (BIO301)
Ordination and Gradient Analysis (BIO303)
Graduate Field Course in Ecology and Systematics (B330)

Topics in Quantitative Ecology (B340)
Ecological Modelling (B341)
Multivariate Data Analysis (B342)
Pollen Analysis (BIO350)
Quantitative Palaeoecology (BIO351)

Research courses

1. **University of Lund** Numerical Methods in Quaternary Pollen Analysis
Multivariate Data Analysis in Biology and Geology
2. **University of Bergen** Multivariate Data Analysis in Biology and Geology
3. **University of Umeå** Multivariate Data Analysis for Ecologists
4. **University of Bern** Multivariate Data Analysis in Ecology and Palaeoecology
5. **State University of Utrecht** Multivariate Data Analysis for Palynologists
6. **University College London** Numerical Methods in Palaeolimnology
Numerical Analysis of Biological and Environmental Data
Introduction to Pollen Analysis
Advanced Pollen Analysis
Pollen Analysis
7. **University of Alaska, Fairbanks** Numerical Analysis of Biological and Environmental Data
8. **University of Innsbruck, Austria** Numerical Analysis of Biological and Environmental Data
9. **University of Bergen** Tree-line and alpine ecology with particular reference to the Sino-Himalayan region
10. **PAGES, Valdivia, Chile** Numerical Methods in Palaeoecology

DOCTORAL THESIS SUPERVISION

University of Cambridge

- 1974 L. Rymer. The palaeoecology and historical ecology of the parish of North Knapdale, Argyllshire.
- 1976 P.W. Beales. Palaeolimnological studies of a Shropshire mere.
- 1976 I.C. Prentice. Studies on modern pollen spectra.
- 1976 B. Huntley. The past and present vegetation of the Morrone Birkwoods and Caenlochan National Nature Reserves.
- 1976 P. Adam. Plant sociology and habitat factors in British saltmarshes. (Co-supervisor)
- 1976 W. Williams. The Flandrian vegetational history of the Isle of Skye and the Morar Peninsula.
- 1978 R.H.W. Bradshaw. Modern pollen representation factors and recent woodland history in S.E. England.
- 1980 M.E. Edwards. Ecology and historical ecology of oakwoods in North Wales.
- 1982 H.F. Lamb. The Quaternary vegetation history of the forest-tundra ecotone in Labrador.
- 1982 K.D. Bennett. Tree population history in the Flandrian of East Anglia.
- 1982 P.D. Kerslake. Vegetational history of wooded islands in Scottish lochs.

University of Bergen

- 1992 Aa. Paus. Late Weichselian vegetation, climate, and floral migration in Rogaland, southwestern Norway; pollen analytical evidence from four late-glacial basins.
- 1992 S.M. Peglar. The development of the cultural landscape of East Anglia, U.K.
- 1992 O.R. Vetaas. The interaction between biotic and abiotic factors controlling temporal and spatial dynamics of arid vegetation in Erkowit, north-eastern Sudan.
- 1995 Ø. Totland. Community pollination and reproductive ecology of *Ranunculus acris* in an alpine area of south-west Norway.
- 1995 A. Odland. The ecology and life history of *Thelypteris limbosperma*, *Athyrium distentifolium* and *Matteuccia struthiopteris* in western Norway.

- 1996 M. Sætersdal. Studies in conservation biology: Potential consequences of climate change on biodiversity and possible methods for saving biodiversity.
- 1998 K.L. Hjelle. Relationships between modern pollen deposition and the vegetation in mown and grazed communities in western Norway and their application to the interpretation of past cultural activity. (Co-supervisor)
- 1999 J. Larsen. The detection of environmental change in lakes and rivers of western Norway using biological and chemical data.
- 2001 E. Heegaard. Species - environmental relationships: an understanding of nature and a tool for predicting species distributions.
- 2001 P.A. Aarrestad. An ecological investigation of broad-leaved deciduous forests in Hordaland County, western Norway.
- 2002 V. Vandvik. Pattern and process in Norwegian upland grasslands: an integrated ecological approach.
- 2002 J.-A. Grytnes. Patterns of vascular plant species richness at a range of spatial scales.
- 2004 W. Eide. Plant macrofossils as a terrestrial climate archive for the last 11000 years in south and central Norway. (Co-supervisor)
- 2004 G. Velle. A palaeolimnological study of chironomids (Insecta: Diptera) with special reference to Holocene climate. (Co-supervisor)
- 2004 A.E. Bjune. Holocene vegetational and climatic history at or near tree-line in contrasting areas of Norway inferred from pollen and plant macrofossils in lake sediments.
- 2004 Å. Myklestad. Effects of land-use changes on species richness and composition of traditional meadows.
- 2008 La Duo. Studies in the ecology and palaeoecology of the Lhasa Valley, Tibet Autonomous Region, China. (Co-supervisor)
- 2009 I.E. Måren. Effects of management of heathland vegetation in western Norway. (Co-supervisor)
- 2010 M.P. Heggen. Oribatid mites in palaeoecological investigations. (Co-supervisor)
- 2011 J. Kapfer. Last-century vegetational changes in northern Europe – characterisation, causes, and consequences. (Co-supervisor)
- 2011 A. de la Riva Caballero. Oribatid mites in a changing world. (Co-supervisor)
- 2015 V.A. Felde. Quantifying modern pollen–vegetation–diversity relationships: an assessment of methods to reconstruct past terrestrial biodiversity. (Co-supervisor)
- 2017 M. Jokerud. Plastic response in *Pinus* spp., determining the temporal window of response and species-level variation of UV-B absorbing compounds to short-term variation in UV-B radiation. (Co-supervisor)

University of Aberdeen

- 2011 L.C. Ross. Fifty years of vegetation and environmental change in the Scottish Highlands: pattern, processes and lessons for today. (Co-supervisor)

CAND. SCIENT. & M.Sc. SUPERVISION from 1992 University of Bergen (grade 1.0 is higher than 2.0)

- 1992 B. Jonsgard. Quantitative studies on saxicolous bryophyte-environment relationships in western Norway (1.2)
- 1992 E. Hjertholm. The autecology of four species of *Sedum* along a west-east climatic gradient, Sognefjorden, western Norway (1.3)
- 1992 Y. Blomberg. Effects of species number in a plant ecological data set on the results of canonical correspondence analysis and Studies of vegetation cover along the Khor-gradient in the Sinkat district, The Sudan (1.5)
- 1994 H. Mütter. The comparative ecology of three species of *Polystichum* in Hordaland, western Norway (1.2)
- 1994 H. Nordby. Quantitative studies on alpine mire communities and their environment relationships at Finse, south-western Norway (1.8)
- 1995 V. Vandvik. Mountain summer farms in Røldal, western Norway - vegetation, soils, and ecology (1.3)

- 1996 E. Heegaard. Niche relationships of *Andreaea* in western Norway: a quantitative analysis (1.0)
- 1996 J.-A. Grytnes. Species relationships to biomass, soil, and environmental heterogeneity at a fine scale in different alpine communities on the Hardangervidda, western Norway (1.1)
- 1997 W. Eide. Modelling of reproductive success in alpine populations of *Geranium sylvaticum* (1.3)
- 1998 J. Esaete. Willow canopies and species performance in a low-alpine region of Norway (1.7)
- 1999 M. Fuglseth. Fine-scale variation in primary succession on recently deglaciated terrain, Bødalen, southern Norway (2.0)
- 2000 A. Wyspianska. Ecology of aquatic bryophytes in lowland streams in Hordaland, western Norway (1.7)
- 2000 K. Klanderud. Recent changes in the altitudinal distribution of vascular plants in Jotunheimen, central south Norway (1.2)
- 2001 M.H. Noddeland. Comparative ecology of *Asplenium* species in southern Norway (1.7)
- 2002 J. Grétarsdóttir. Long term effects of reclamation treatments on plant succession at two localities in Iceland (1.8) (Co-supervisor)
- 2002 T. Tsering. Studies on the pollination of *Incarvillea younghusbandii* and general plant phenology in alpine meadows at Gambala Mountain, Tibetan Plateau (1.3) (Co-supervisor)
- 2002 L. Duoje. The ecology and development of Lhalu Dhamra, a marshland in Lhasa, Tibet (1.3) (Co-supervisor)
- 2006 S. Paudel. Species composition and richness: the effect of aspect in an arid Trans-Himalayan landscape, Nepal (B) (Co-supervisor)
- 2006 L. Chong. Studies of alpine vegetation and vascular plant species richness along an altitudinal gradient in the Gyama valley, central Tibet (A) (Co-supervisor)
- 2006 K.B. Shrestha. Species richness across the forest-line ecotone in an arid trans-Himalayan landscape of Nepal (B) (Co-supervisor)
- 2006 F. Høistad. Recent changes in the vegetation of Rondane (A) (Co-supervisor)
- 2006 H. Nilssen. The effects of island biogeography, local environment, and human disturbance on patterns of α - and β -diversity in an archipelago landscape (B) (Co-supervisor)
- 2008 K.P. Acharya. Orchid species richness along a Himalayan elevation gradient (A) (Co-supervisor)
- 2009 K. Kongshavn. Past climates of the Arctic: a chironomid-based reconstruction of an Arctic lake on western Spitsbergen (A) (Co-supervisor)
- 2009 D.P. Rijal. Species richness and elevation: searching for patterns at a local scale (Langtang National Park, central Nepal). NOMA student from Tribhuvan University, Kathmandu (A) (Co-supervisor)
- 2010 K. Fadnes. Climate history of the Arctic: temperature reconstruction of an arctic lake on Spitsbergen based on Chironomids (C) (Co-supervisor)
- 2010 I. Helvik. The *Fagus sylvatica* (beech) forests in the Larvik region, south-east Norway – their origin and history (B) (Co-supervisor)

POST-DOCTORAL FELLOWS AND OTHER RESEARCH VISITORS

Cambridge

- 1972-1973 C.T. Shay (University of Manitoba)
- 1973-1974 M. Saarnisto (University of Helsinki)
- 1974-1975 R.W. Mathewes (Simon Fraser University)
- 1976-1977 B.J. Madsen (University of Michigan)
- 1977-1978 T. Webb (Brown University)
- 1978 T.G. Hunt (Colby College, Maine)
- 1981-1982 E.C. Grimm (University of Minnesota)

Bergen

- 1986-1991 J.F. Boyle (University of Liverpool)
- 1990 B.F. Cumming (Queen's University, Ontario)
- 1990-1991 S. Juggins (University College London)

1994-1995 A. Gazda (University of Krakow)
 1996 E. Mäkelä (University of Helsinki)
 1996 J. Truu (University of Tartu)
 1996 J. Olivero (University of Malaga)
 1997 R. Heikkinen (University of Helsinki)
 1998 M. Kilian (University of Amsterdam)
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 2002 M. Grauert (University of Copenhagen)
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 2002 D. Antoniadou (University of Toronto)
 2002 O. Heiri (University of Bern)
 2003 R. Wania (University of Vienna)
 2003 S. Musazzi (Istituto Idrobiologica Pallanza)
 2003 S. Adler (University of Rostock)
 2003-2006 R.J. Telford (University of Newcastle)
 2003-2004 M. Theurkauf (University of Greifswald)
 2003-2004 R. Zech (University of Bayreuth and University of Bern)
 2004 J. Hooker (University of Oxford and Natural History Museum)
 2004 U. Herzschuh (Free University of Berlin)
 2004 T.A. Davidson (University College London)
 2004 B. Perren (University of Toronto)
 2004 G. Kattell (University College London)
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 2005 I. Sostizzo (University of Padua)
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 2005 J. Tyler (University College London)
 2005-2006 M. Crenshaw (University of Waterloo, Canada)
 2006 O. Grau (University of Barcelona)
 2007 W. Hobbs (University of Alberta)
 2007 G. Madgwick (University College London)
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 2013-2016 A.W.R. Seddon (University of Oxford)
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 2014 M. Obremska (Polish Academy of Sciences, Warsaw)
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