



Europass Curriculum Vitae



Personal information

First name(s) / Surname(s) **David Neil BIRD**
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E-mail neil.bird@joanneum.at; nbird@woodrising.com
Nationality Dual nationality: Canadian and Great Britain
Date of birth 17 February 1958
Gender Male

Desired employment / Occupational field

Work experience

Dates August 2005 to present
Occupation or position held Research Scientist
Main activities and responsibilities

1. Research, estimation and modelling of greenhouse gas emissions from agriculture, forestry and other land-use (AFOLU)
My specific interests are the estimation of climatic impacts of carbon stock and albedo changes from land use change and management
2. Research, estimation and modelling of greenhouse gas emissions from bioenergy systems
3. Development, evaluation and modelling greenhouse gas offset projects
I specifically focus on land-use, land-use change and forestry (LULUCF), landfill gas reduction, energy efficiency, urban and employee programs. This work has an emphasis on the Clean Development Mechanism (CDM) in Africa, India, Pakistan and numerous Latin American countries. It includes the preparation and submission of project design documents to the CDM Executive Board and carbon finance documents to the World Bank BioCarbon Fund. The work requires project supervision working with multi-stakeholder groups.

Name and address of employer Joanneum Research Forschungsgesellschaft mbH
Elisabethstrasse 5; A-8010 Graz, Austria
Type of business or sector Research institute
Dates June 1996 to present
Occupation or position held Associate

- Main activities and responsibilities
1. Development, evaluation and presentation of greenhouse gas offset projects with an emphasis on LULUCF in the CDM
 2. Modelling of greenhouse gas emission reductions from offset projects
Specific emphasis on Land-use, land-use change and Forestry (LULUCF), and landfill gas reduction projects.
 3. Preparation of greenhouse gas emissions inventories for assorted Canadian companies
They were prepared for the following companies: Enbridge Gas Distribution Inc., Enbridge Gas New Brunswick Inc., Enbridge Pipelines Inc., Enbridge Pipelines (Athabasca) Inc., Enbridge Pipelines (NW) Inc., Enbridge Pipelines (Saskatchewan) Inc., Gazifère, Husky Injection Molding Systems Ltd., Government of Ontario, Town of Caledon.
 4. Assessment and evaluation of greenhouse gas emission reductions from specific project activities
 5. Climate Change strategy development
I have provided strategic papers and policy briefs for: Canadian International Development Agency, Enbridge Inc., Husky Injection Molding Systems Ltd., Government of Argentina, Sinks and Forest Sector Tables of Canada's National Climate Change Process

Name and address of employer Woodrising Consulting Inc.
91 Scott Street, Belfountain, Ontario, Canada

Type of business or sector Private consultancy

Dates December 1981 to June 1996

Occupation or position held Senior Research Geophysicist

Main activities and responsibilities Project development and implementation, supervision of junior geophysicists and summer students, seismic processing, interpretation, research, modeling and inversion

Name and address of employer Chevron Canada Resources
Calgary, Alberta, Canada

Type of business or sector Multi-national oil company

Education and training

Dates 1981

Title of qualification awarded MSc.

Principal subjects/occupational skills covered Geophysics (seismology)

Name and type of organisation providing education and training University of British Columbia

Dates 1979

Title of qualification awarded BSc.

Principal subjects/occupational skills covered Honours Solid Earth Geophysics

Name and type of organisation providing education and training McGill University

Personal skills and competences

Mother tongue(s) English

Other language(s) French, Spanish, German

Self-assessment

European level ()*

French

Spanish

German

Understanding		Speaking		Writing	
Listening	Reading	Spoken interaction	Spoken production		
C2	B2	B2	B2	B2	
C2	C2	C2	C2	B2	
B2	B1	B2	B2	A2	

(* [Common European Framework of Reference for Languages](#))

Social skills and competences	From 2000 to 2004, I was president of the Belfountain Community and Planning Organization From 2000 to 2004, I was captain of the Belfountain Mixed Doubles Tennis Team. Both these positions required cooperative and leadership skills because I was working with multiple stakeholders and personalities.
Organisational skills and competences	Good experience in project management
Computer skills and competences	<ul style="list-style-type: none">• Fully competent in PC environment including all Microsoft software (Word, Excel, Powerpoint, Access).• Developed a proprietary version of GORCAM for modelling project based LULUCF emissions• Familiarity with CENTURY, LUCS and ArcView.• Experience in UNIX environment.• Programming languages: FORTRAN, Visual BASIC
Artistic skills and competences	Music I am a reasonable classical pianist (completed to pre-university level training) I am a good singer and perform regularly as a bass / baritone in a semi-professional choir in front of audiences of more than 200 people (see www.mondo-musicale.at)
Other skills and competences	Sports – tennis, soccer, hiking, ocean kayaking and cycle touring. From 2000 to 2004 I was the treasurer of the Belfountain tennis club From 2007 to present, I was the treasurer of Mondo Musicale Graz Choir.
Driving licence	Class B (vehicles < 3500 kg)
Additional information	In 2007 I was appointed as a member of the UNFCCC Secretariat Afforestation Reforestation Working Group. In 2008, I became the Task Leader of IEA Bioenergy Task-38 References: Hannes Schwaiger, Joanneum Research, +43 316 876 1316, Hannes.schwaiger@joanneum.at Tim Adamson, Enbridge Gas Distribution Inc., +1 (416) 495-5539, tim.adamson@enbridge.com David Jobe, Belfountain Community and Planning Organization, +1 (519) 927-3434, davidjobe@sympatico.ca
Annexes	List of Publications and Presentations

Publications and Presentations

- D.N. Bird, G. Zanchi, N. Pena, P. Havlik, and D. Frieden. 2011 Analysis of the potential of sustainable forest-based bioenergy for climate change mitigation. Working Paper 59. CIFOR, Bogor, Indonesia.
(http://www.cifor.cgiar.org/publications/pdf_files/WPapers/WP59CIFOR.pdf)
- N. Pena, D.N. Bird, G. Zanchi. 2011. Improved methods for carbon accounting for bioenergy: Descriptions and evaluations. Occasional paper 64. CIFOR, Bogor, Indonesia (http://www.cifor.cgiar.org/publications/pdf_files/OccPapers/OP64.pdf)
- D.N. Bird, N. Pena, G. Zanchi and D. Frieden. 2011. Carbon Accounting Options for Bioenergy Descriptions, Evaluations and Implications. Presented at SB 34 Side Event, UNFCCC Secretariat, Bonn, June 8th 2011.
- D.N. Bird, N. Pena, G. Zanchi and D. Frieden. 2011. Alternative greenhouse gas accounting systems for bioenergy: descriptions and evaluations. In Proceedings of the 19th European Biomass Conference and Exhibition, Berlin.
- D.N. Bird, A. Cowie, A.H. Strømman and D. Frieden. 2011. The timing of greenhouse gas emissions from bioenergy systems using financial type indicators and terminology to discuss emission profiles from bioenergy. In Proceedings of the 19th European Biomass Conference and Exhibition, Berlin.
- D.N. Bird, N. Pena, H. Schwaiger and G. Zanchi. 2010. Review of existing methods for carbon accounting. Occasional Paper: 54. CIFOR, Bogor, Indonesia. ISBN 978-602-8693-27-1.
- D.N. Bird, N. Pena, H. Schwaiger, G. Zanchi and F. Johnson. 2010. Institute Analysis of RED sustainability criteria: The importance of definitions and carbon accounting methods. Presented at Biofuel Expansion in the Forest Frontier: Trends, Impacts and Implications for Governance – CIFOR Side Event at COP-16, Cancún. Mexico.
- N. Bird, F. Cherubini, N. Pena and G. Zanchi. 2010. Greenhouse gas emissions and bioenergy. In J.M. Amezcaga, G. von Maltitz and S. Boyes (editors). 2010. *Assessing the Sustainability of Bioenergy Projects in Developing Countries: A Framework for Policy Evaluation*. Newcastle University, ISBN 978-9937-8219-1-9, 179 pages.
- N. Pena, N. Bird, D. Frieden and G. Zanchi. 2010. Conquering space and time: The challenge of emissions from land use change. CIFOR Infobrief No. 27.
- V. Blujdea, D.N. Bird, G. Kapp, M. Burian, I.S. Nuta and L. Ciuvat. 2010. *Robinia pseudoacacia* stump features and elements for a methodology for degradation assessment. Mitigation and Adaptation of Strategies for Global Change. 16/4 pp. 463 – 476.
- N. Bird, G. Zanchi and N. Pena. 2010. Bioenergy and Forest Resources: What strategies provide energy and climate change mitigation. Presented at XXIII IUFRO World Congress. Seoul, Republic of Korea. August 23-28, 2010.
- G. Zanchi, N. Pena, N. Bird. 2010. The upfront carbon debt of bioenergy. Report for Birdlife International by Joanneum Research. http://www.birdlife.org/eu/pdfs/Bioenergy_Joanneum_Research.pdf
- D.N. Bird, A. Cowie, D. Frieden, L. Gustavsson, N. Pena, K. Pingoud, S. Rueter, R. Sathre, S. Soimakallio, A. Tuerk, S. Woess-Gallasch, G. Zanchi. 2010. Emissions From Bioenergy: Improved Accounting Options And New Policy Needs. In Proceedings of the 18th European Biomass Conference and Exhibition, Lyon.
- D.N. Bird, N. Pena, G. Zanchi. 2010. A Review Of Existing Methods For Carbon Accounting And Implications For The Assessment Of Emissions From Bioenergy. In Proceedings of the 18th European Biomass Conference and Exhibition, Lyon.
- D.N. Bird, G. Zanchi and N. Pena. 2010. Demand and supply of food energy from agriculture – How does bioenergy fit in? In Proceedings of the 7th International Biofuels Conference, New Delhi, India.
- K. Pingoud, A. Cowie, N. Bird, L. Gustavsson, S. Rüter, R. Sathre, S. Soimakallio, A. Türk, S. Woess-Gallasch. 2010. Bioenergy: Counting on Incentives. Letters to Science. 327, 5 March 2010.
- V. Blujdea, N. Bird and C. Robledo. 2010. Consistency and comparability of estimation and accounting of removal by sinks in afforestation/reforestation activities. Mitigation and Adaptation Strategies for Global Change. 15. pp. 1- 18.
- H.P. Schwaiger and D.N. Bird. 2010. Integration of albedo effects caused by land use change into the climate balance: should we still account in greenhouse gas units? Forest Ecology and Management. 260. 278 – 286.
- D. N. Bird. 2010. On the timing of greenhouse gas emissions. at the IEA Bioenergy Task 38 Greenhouse gas emissions from bioenergy systems: impacts of timing, issues of responsibility. Brussels, Belgium, March 8th – 10th, 2010
- D.N. Bird. 2009. Review of Existing Methods for Carbon Accounting. Project report for the EuropeAid funded project, Bioenergy, sustainability and trade-offs: Can we avoid deforestation while promoting bioenergy? (EuropeAid/ENV/2007/143936/TPS)
- D. N. Bird. 2009. On the timing of greenhouse gas emissions. Discussion paper prepared as part of the European Community Contribution Agreement EuropeAid/ENV/2007/143936/TPS Bioenergy, sustainability and trade-offs: Can we avoid deforestation while promoting bioenergy?, Joanneum Research.
- F. Cherubini, D.N. Bird, A. Cowie, G. Jungmeier, B. Schlamadinger, S. Woess-Gallasch. 2009. Energy- and greenhouse gas-based LCA of biofuel and bioenergy systems: Key issues, ranges and recommendations. Resources, Conservation and Recycling. 53. 434–447.
- D.N. Bird, F. Cherubini, A. Cowie, M. Downing, L. Gustavsson, A. Kojakovic, G. Jungmeier, K. Möllersten, K. Pingoud, S. Rueter, B. Schlamadinger, S. Soimakallio, F. Van Stappen, and S. Woess-Gallasch. 2009. IEA Bioenergy Task 38 - ten years of analysing the greenhouse gas balances of bioenergy systems. ? In Proceedings of the 17th European Biomass Conference and Exhibition, Hamburg.
- D.N. Bird, G. Zanchi. 2009. Assessment of biomass fuel use and energy trends: Part 2 – Use of Woody Biomass. Project report for the EuropeAid funded project, Re-Impact (EuropeAid/ENV/2005/114-431/TPS)
- D.N. Bird, G. Zanchi, N. Pena. 2009. Assessment of biomass fuel use and energy trends: Part 1 – Agricultural-based bioenergy. Project report for the EuropeAid funded project, Re-Impact (EuropeAid/ENV/2005/114-431/TPS)

- D.N. Bird and H. Schwaiger. 2009. Direct Land Use Change also affects surface albedo - should this be considered when estimating environmental benefits? Presented at IEA Bioenergy Task 38 Conference: Land Use Changes due to Bioenergy: Quantifying and Managing Climate Change and Other Environmental Impacts. Helsinki, Finland, March 30 – April 1, 2009
- D.N. Bird, G. Zanchi and M. Seebauer. 2009. A Small Scale Methodology for Sustainable Agricultural Land Management (SALM). Presented in UNFCCC AWG-KP & AWG-LCA Meeting: Agricultural Carbon Sequestration: Early Action Mitigation and Investing in Food Security, Bonn, Germany, April 6, 2009
- D.N. Bird and G. Zanchi. 2008. A Baseline and Monitoring Methodology for Agricultural Land Management Activities. Presented in UNFCCC Change Conference – COP 14, Poznań, Poland, 1-12 December 2008
- N. Bird. 2008. Additionality and Baselines: Is there a better way? Presented at Carbon and Communities in Tropical Woodlands - An international interdisciplinary conference. The University of Edinburgh, School of GeoSciences. June 16 – 18, 2008
- N. Bird. 2008. Quest JI-Forestry Demo Project Methodologies. Presented at SB 28 Side Event, UNFCCC Secretariat, Bonn, June 11 2008
- N. Bird, F. Cherubini, S. Woess-Gallasch, et al. 2008. Bioenergy: the Relationship with Greenhouse Gases in Agriculture and Forestry. In Proceedings of the 16th European Biomass Conference and Exhibition. Valencia, 2 – 6 June, 2008
- D.N. Bird and H. Schwaiger. 2008. Incorporating changes in albedo in estimating the climate mitigating benefits of bioenergy projects. Presented at World Bioenergy 2008, 27 May, Jönköping – Sweden.
- N. Bird. 2008. GHG Life-Cycle Analysis of Bioenergy Production: Integration of Land Use Change. Presented at International Workshop on Forest-based Bioenergy for Sustainable Development, Kunming, China. 22 May, 2008
- N. Bird. 2008. Integration of Land Use Change into Life-cycle Analysis. Presented at IEA Bioenergy Task 38 Conference: Transportation Biofuels: For greenhouse gas mitigation, energy security or other reasons ?, Salzburg, Austria
- N. Bird and R. Matthews. 2008. Emission Trading, JI Projects and Quest JI-Forestry Demo Project. Presented at 2008 QUEST Annual Science Meeting, Winchester, U.K.
- D.N. Bird, M. Kunda, , A. Mayer, B. Schlamadinger, L. Canella and M. Johnston. 2008. Incorporating changes in albedo in estimating the climate mitigation benefits of land use change projects. Submitted to Biogeosciences.
- N. Bird and R. Matthews. 2007. QUEST – DJIFor, Demonstration Joint Implementation Forestry Projects. Presented at QUEST Theme 3 Conference, Dartington Hall, U.K., 25 November 2007.
- N. Bird. 2007. RE-Impact: A new EuropeAID project to study the environmental and social impacts of bioenergy use. Presented at Task-38 Expert Consultation on Sustainable Biomass, Dubrovnik, 25 October 2007
- N. Bird. 2007. QUEST Funded Project on JI LULUCF in Russia and Romania: An Overview. Presented at LULUCF: Joint Implementation, Green Investment Schemes, and other domestic LULUCF Activities by Annex I countries Workshop, Budapest, Hungary, 21 May, 2007
- N. Bird. 2007. ENCOFOR Design DSS - a project design decision support system. Presented at SB26, Side Event, UNFCCC Secretariat, Bonn, May 14, 2007
- Bernhard Schlamadinger and David Neil Bird (eds.) 2007. Special Issue: Options for including agriculture and forestry activities in a post-2012 international climate agreement. *Environmental Science & Policy* 10 / 4. pp. 269-394.
- B. Schlamadinger, N. Bird, T. Johns, S. Brown, J. Canadell, L. Ciccarese, M. Dutschke, J. Fiedler, A. Fischlin, P. Fearnside, C. Forner, A. Freibauer, P. Frumhoff, N. Hoehne, M.U.F. Kirschbaum, A. Labat, G. Marland, A. Michaelowa, L. Montanarella, P. Moutinho, D. Murdiyarsa, N. Pena, K. Pingoud, Z. Rakonczay, E. Rametsteiner, J. Rock, M.J. Sanz, U.A. Schneider, A. Shvidenko, M. Skutsch, P. Smith, Z. Somogyi, E. Trines, M. Ward and Y. Yamagata. 2007. A synopsis of land use, land-use change and forestry (LULUCF) under the Kyoto Protocol and Marrakech Accords. *Environmental Science & Policy* 10 / 4, 271-282.
- M. Skutsch, N. Bird, E. Trines, M. Dutschke, P. Frumhoff, B.H.J. de Jong, P. van Laake, O. Maser and D. Murdiyarsa. 2007. Clearing the way for reducing emissions from tropical deforestation. *Environmental Science & Policy* 10 / 4, 322-334.
- N. Bird, B. Schlamadinger and G. Jungmeier. 2007. Bio-energy, Bio-products, and the Clean Development Mechanism: Project eligibility, opportunities and future challenges. Submitted to International J Biotechnology - Industrial biotechnology.
- B. Schlamadinger, N. Bird, C. Streck, R. O'Sullivan, and Z. Somogyi. 2007. Land use, land-use change and forestry projects under JI in theory and practice. Presented at UNFCCC Technical Workshop On Joint Implementation. Bonn.
- X. Zhang, B. Schlamadinger and N. Bird. 2006. Case Study from Asia-Pacific: Facilitating Reforestation for Guangxi Watershed Management in Pearl River Basin. Presented at International Workshop on Clean Development Mechanism (CDM) – Opportunities and Challenges for the Forest Industry Sector in Sub-Saharan Tropical Africa. Accra, Ghana.
- N. Bird. 2005. Consideration for choosing an emission target for compensated reductions. In *Tropical Deforestation and Climate Change*. P. Moutinho and S. Swartzman, ed. Amazon Institute for Environmental Research.
- D.N. Bird and B. Schlamadinger. 2005. Bio-energy, bio-products, and the CDM Project eligibility, opportunities and future challenges. Presented at Industrial Biotechnology And Biomass Utilisation: Prospects And Challenges For The Developing World. Expert Meeting. UNIDO, Vienna.
- Schlamadinger B., Bosquet B., Streck C., Noble I., Dutschke M. and Bird N. 2005. Can the EU emission trading scheme support CDM forestry? *Climate Policy*, 5, 199-208.
- Kunda M., Bird DN, Canella L, Marland G and B. Schlamadinger. 2005. Carbon management, earth surface albedo, and biomass fuels. Poster paper presented at 14th European biomass & biomass for energy, industry and climate protection conference. Paris.
- Bird D.N., M. Dutschke, L. Pedroni, B. Schlamadinger. 2004. TCERs or ICERs? – Choices of CDM-credits for afforestation and reforestation. *CDM Investment Newsletter*. 4 pp. 13-16. <http://www.climatebusiness.net/>
- Schlamadinger B., Bird D.N., Emmer I.M., Garcia J., Muys, B and Z. Somogyi. 2004. The average carbon-stock approach for small-scale CDM AR projects. *Joint Implementation Quarterly* 10 (2). p. 8. <http://jq.wiwo.nl/2-2004.pdf>

- Bird D.N. 2003. Barriers to Afforestation in Ontario. Presented at FAACS Fall Focus Sessions- Establishing New Forests to Address Kyoto, Cobourg, Ontario.
- Bird D.N. 2003. El Carbono en la Sierra Gorda, Requerimientos para Investigaciones. Presented at El Primer Foro sobre Estudios en la Sierra Gorda, San Juan de Los Duran, Querétaro, México.
- Bird D.N. 2003. Preliminary Forest Carbon Modelling of Labrador Forest Management District 19a. Presented at a Sierra Club of Canada sponsored side event at the World Forestry Congress, Quebec City.
- Bird D.N. 2003. Preliminary Forest Carbon Modelling of Labrador Forest Management District 19a. Presented at the Forest Protocol Workshop, Happy Valley - Goose Bay, Labrador.
- Bird D.N. 2002. Accounting, Monitoring and Verification Issues – A Project Perspective. Presented at Forest Carbon Management Workshop #4, Montreal, February 2002.
- Bird D.N. 2001. Enhancing Industry Involvement in Carbon Sequestration and Conservation Projects. Presented at The Latornell Conservation Symposium, Allison, November, 2001.
- Bird D.N. 2001. Managing for Uncertainty in Carbon Accounting, Presented Carbon Credit Amortization Mechanisms in the Forest Industry Workshop, Peterborough, February, 2001.
- Bird D.N. 2000. Greenhouse Gas Reductions and Credits Through Biodiversity Conservation Projects. Presented at The Latornell Conservation Symposium, Allison, October, 2000.
- Barton, P., Bird D.N. and Atwater J. 1999. Composting – an action that reduces greenhouse gas emissions? Presented at the International Composting Symposium, Halifax, September, 1999.
- Bird D.N. 1999. The New VCR Guide – A lot of hot air or a step forward, Enviroline
- Bird D.N. 1998. Items for consideration in forestry offset projects, Enviroline.
- Bird D.N. 1998. Greenhouse gas emissions avoidance through fire management – theory and proposed methodology for estimation, presented at the Effects of the Kyoto Protocol on forestry and bioenergy projects for mitigation of net carbon emissions Workshop, Rotorua, NZ., March, 1998
- Bird D.N. 1998. Problems, Solutions and Return on Investment Associated with Forestry Offset Projects, presented at The role of the Boreal Forest in Canada's climate change program Workshop, Edmonton, January 1998.
- Bird D.N. Ross N.D. and Ruiz Corzo M.I., 1998. Problems and solutions associated with an AIJ project – an example from a forest management project in central Mexico, in Reimer PWF, Smith AY, and Thabimuthu KV ed.) Greenhouse Gas Mitigation, Technologies for Activities Implemented Jointly, proceedings of Technologies for Activities Implemented Jointly 26th – 29th May 1997, Vancouver. Elsevier.
- Bird D.N. and Pedraza Muñoz R., 1997. The sensitivity of predicted carbon sequestered by a sustainable forestry management project – an example from the Sierra Gorda Queretana, Mexico, presented at the Air & Waste Management Association annual meeting, Toronto.
- Other papers of a geophysical and seismological nature