



Europass Curriculum Vitae



Personal information

First name(s) / Surname(s) **David Neil BIRD**
Address(es) Nitscha 76, A-8200 Gleisdorf, Austria
Telephone(s) Office: +43 316 876 1423 Mobile: +43 650 634 5273
Fax(es) +43 316 876 91423
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 development of methods to estimate and 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
Bioenergy systems have two components that affect greenhouse gas emissions: energy use and AFOLU. Of specific interest to me are the timing of emissions and the interaction between bioenergy demand.
3. Development, evaluation and modelling greenhouse gas offset projects
I specifically focus on AFOLU, 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.

Name and address of employer Joanneum Research Forschungsgesellschaft mbH
Leonhardstrasse 59; 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 May 2007 to present

Occupation or position held Methodological expert

Main activities and responsibilities

1. Considering draft recommendations regarding the establishment, revision or withdrawal of methodological standards, guidelines and clarifications for CDM project activities;
2. Considering draft recommendations for methodological requirements for CDM project activities;
3. Providing advice and recommendations to the Board regarding the need and priority areas for methodological guidance.

Name and address of employer UNFCCC Secretariat, CDM Executive Board
Haus Carstanjen
Martin-Luther-King-Strasse 8, 53175 Bonn, Germany

Type of business or sector International organization

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. Natural gas and oil exploration. Seismic support for natural gas and oil field development

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
 Name and type of organisation providing education and training

Honours Solid Earth Geophysics
 McGill University, Montreal, Quebec, Canada

Personal skills and competences

Mother tongue(s)
 Other language(s)
 Self-assessment
 European level (*)

English
French, Spanish, German

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

- 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. From 2007 to 2012, I was 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

- Pena, N., Frieden, D. and Bird, D. N. 2012, Accounting for Algae. *GCB Bioenergy*, 5, 243–256. doi: 10.1111/j.1757-1707.2012.01194.x
- Eleanor Milne, Henry Neufeldt, Todd Rosenstock, Mike Smalligan, Carlos Eduardo Cerri, Daniella Malin, Mark Easter, Martial Bernoux, Stephen Ogle, Felipe Casarim, Timothy Pearson, David Neil Bird, Evelyn Steglich, Madelene Ostwald, Karolien Deneuf and Keith Paustian: 2013. Methods for the quantification of GHG emissions at the landscape level for developing countries in smallholder contexts. *Environ. Res. Lett.*, 8. Available online 03 April 2013.
- Frieden, D., Pena, N. and Bird, D.N. 2012. Incentives for the use of forest biomass: A comparative analysis of Kyoto Protocol accounting pre- and post-2012, Greenhouse gas measurement and management. Accepted 07. August 2012.
- Bright RM, Cherubini F, Astrup R, Bird DN, Cowie A, Ducey MJ, Marland G, Pingoud K, Savolainen I and Strømman AH. 2012. A comment to “Large-scale bioenergy from additional harvest of forest biomass is neither sustainable nor greenhouse gas neutral”: Important insights beyond greenhouse gas accounting. *GCB Bioenergy*, 4, 617–619.
- Bird DN. 2012d. Issues relating to the timing of emissions from bioenergy systems. Presented at IEA Bioenergy Conference 2012. Nov. 13th – 15th 2012, Vienna.
- Bird DN. 2012c. Issues relating to the timing of emissions from bioenergy systems. Presented at Enlargement and Integration Workshop Scientific Basis of Biomass Sustainability in EU Energy Policy, Istanbul, May 11th 2012
- Bird DN. 2012b. LCA approach to estimate GHG emissions of bioenergy. Presented at Sustainable Biomass For Electricity Conference, Güssing, Austria, 2-4 May 2012
- Bird DN. 2012a. Emissions from Bioenergy: the effects of timing. Presented at Carbon Emissions From Bioenergy: How it impacts our climate. Brussels, March 29th 2012
- Pena, N., Frieden, D. and Bird, D. N. 2012, Accounting for Algae. *GCB Bioenergy*, 5, 243–256. doi: 10.1111/j.1757-1707.2012.01194.x
- Milne E., Neufeldt, Smalligan, Rosenstock, Bernoux, Bird, Casarim, Deneuf, Easter, Malin, Ogle, Ostwald, Paustian, Pearson, Steglich 2012. Overview Paper: Methods for the quantification of net emissions at the landscape level for developing countries in smallholder contexts. White paper for Climate Change Agriculture and Food Security (CCAFS). <http://ccafs.cgiar.org/>
- Smith, P., Davies, C. A., Ogle, S., Zanchi, G., Bellarby, J., Bird, N., Boddey, R. M., McNamara, N. P., Powlson, D., Cowie, A., van Noordwijk, M., Davis, S. C., Richter, D. D. B., Kryzanowski, L., van Wijk, M. T., Stuart, J., Kirton, A., Eggar, D., Newton-Cross, G., Adhya, T. K. and Braimoh, A. K. 2012, Towards an integrated global framework to assess the impacts of land use and management change on soil carbon: current capability and future vision. *Global Change Biology*. doi: 10.1111/j.1365-2486.2012.02689.x
- Frieden, D., Pena, P. and Bird, D.N. 2012. Incentives for the use of forest biomass: A comparative analysis of Kyoto Protocol accounting pre- and post-2012. Working paper. <http://www.smartforests.at/linked/durban%20rules%20incentives%20article%20%20freiburg%20final.pdf> Accessed 21.August 2012.
- Pena, N., Bird, N. and Tuerk, A. 2012. Baseline Options: CO2 emissions from bioenergy and other uses of biomass: A Policy Brief. <http://www.smartforests.at/linked/baseline%20options.pdf>. Accessed 21.August 2012
- Pena, N., Bird, N. and Tuerk, A. 2012. Accounting Options: CO2 emissions from bioenergy and other uses of biomass: A Policy Brief. <http://www.smartforests.at/linked/bioenergy%20accounting%20options.pdf>. Accessed 21.August 2012
- Zanchi, G., Pena, N. and Bird, N. 2011. Is woody bioenergy carbon neutral? A comparative assessment of emissions from consumption of woody bioenergy and fossil fuel. *Global Change Biology Bioenergy*. doi: 10.1111/j.1757-1707.2011.01149.x
- Seebauer, M., Tennigkeit, T., Bird, N. Zanchi, G. 2011. Carbon Accounting for Smallholder Agricultural Soil Carbon Projects. In E. Wollenberg, M.-L. Tapio-Bistrom, M. Grieg-Gran, A. Nihart. (editors). *Climate Change Mitigation and Agriculture*. Routledge. ISBN 978-1-84971-393-1
- Guariguata, M.R., Masera, O.R., Johnson, F.X., von Maltitz, G., Bird, N., Tella, P. and Martínez-Bravo, R. 2011 A review of environmental issues in the context of biofuel sustainability frameworks. Occasional Paper 69. CIFOR, Bogor, Indonesia. ISBN 978-602-8693-62-2.
- Bird, D.N., Pena, N., Zanchi, G., Frieden, D. 2011. Carbon accounting options: descriptions, evaluations and implications. Presented at *Global Platform On Climate Change, Trade & Sustainable Energy*, COP-17, CMP 7, Durban, South Africa, December 6th, 2011.
- Bird, D.N. 2011. Boreal forests in the work of IEA Bioenergy Task 38. Presented at *Internt seminar om skog og klima*, Oslo, October 20th 2011.
- Woess-Gallasch, S., Bird, N., Cowie, A. 2011. Special issue: Land use impacts of bioenergy. Selected papers from the IEA Bioenergy Task 38 meetings in Helsinki, 2009 and Brussels, 2010. *Biomass and Bioenergy*, 35, 4751-4752. DOI: 10.1016/j.biombioe.2010.12.053.
- Bird, D.N., Cowie, A., Cherubini, F., Jungmeier, G. 2011. Using a Life Cycle Assessment Approach to Estimate the Net Greenhouse Gas Emissions of Bioenergy. IEA Bioenergy:ExCo:2011:03 Available at: <http://www.ieabioenergy.com/MediaItem.aspx?id=7099>
- Woess-Gallasch, S., Bird, N., Enzinger, P., Jungmeier, G., Padinger, R., Pena, N., and Zanchi, G. 2011. Greenhouse Gas Benefits of a Biogas Plant in Austria. IEA Bioenergy Task 38 Case Study Report. Available at http://www.ieabioenergy-task38.org/projects/task38casestudies/T38_Paldu Case Study Final 2011.pdf
- Bird, D.N., Pena, N., Zanchi, G. and Frieden, D. 2011. Zero, 1, or in between: evaluation of alternative national and entity-level accounting for bioenergy. *Global Change Biology Bioenergy*. In press. DOI: 10.1111/j.1757-1707.2011.01137.x
- Berndes, G., Bird, N., and Cowie, A. 2011. Bioenergy, Land Use Change and Climate Change Mitigation. Background Technical Report. IEA Bioenergy:ExCo:2011:04. Available at: <http://www.ieabioenergy.com/LibItem.aspx?id=6927>
- Bird, D.N., Zanchi, G., Pena, N., Havlik, P., and Frieden, D. 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

- Pena, N., Bird, D.N., Zanchi, G. 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)
- Bird, D.N., Pena, N., Zanchi, G. and Frieden, D. 2011. Carbon Accounting Options for Bioenergy Descriptions, Evaluations and Implications. Presented at SB 34 Side Event, UNFCCC Secretariat, Bonn, June 8th 2011.
- Bird, D.N., Pena, N., Zanchi, G. and Frieden, D. 2011. Alternative greenhouse gas accounting systems for bioenergy: descriptions and evaluations. In Proceedings of the 19th European Biomass Conference and Exhibition, Berlin.
- Bird, D.N., Cowie, A., Strømman, A.H., and Frieden, D. 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.
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- Schwaiger, H., Pena, N., Mayer, A. and Bird, D.N. 2011 Technologies to produce liquid biofuels for transportation: an overview. Working Paper 72. CIFOR, Bogor, Indonesia. (http://www.cifor.org/publications/pdf_files/WPapers/WP72CIFOR.pdf)
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- Bird, N., Cherubini, F., Pena, N. and Zanchi, G. 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.
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- Bird, D.N., Pena, N., Zanchi, G. 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.
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- Schwaiger, H.P. and Bird, D.N. 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.
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- Cherubini, F., Bird, D.N., Cowie, A., Jungmeier, G., Schlamadinger, B., Woess-Gallasch, S. 2009. Energy- and greenhouse gas-based LCA of biofuel and bioenergy systems: Key issues, ranges and recommendations. *Resources, Conservation and Recycling*. 53. 434–447.

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- Bird, N. 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
- Bird, N. 2008. Quest JI-Forestry Demo Project Methodologies. Presented at SB 28 Side Event, UNFCCC Secretariat, Bonn, June 11 2008
- Bird, N., Cherubini, F., Woess-Gallasch, S., 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
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- Bird, N. and R. Matthews. 2008. Emission Trading, JI Projects and Quest JI-Forestry Demo Project. Presented at 2008 QUEST Annual Science Meeting, Winchester, U.K.
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- Bird D.N. 2003. Barriers to Afforestation in Ontario. Presented at FAACS Fall Focus Sessions- Establishing New Forests to Address Kyoto, Cobourg, Ontario.
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- 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.
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- 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.
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