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EDUCATION

1999-2004 Harvard University, Cambridge (MA)
Ph.D. in Earth and Planetary Sciences

1996-1998 University of Victoria, Victoria (British Columbia)
M.Sc. in Earth and Ocean Sciences

1993-1996 McGill University, Montréal (Québec)
B.Sc. in Physical Geography and Environmental Sciences

RESEARCH INTERESTS

Development and application of geochemical methods for the study of the terrestrial tropics through the measurement of stable / radiogenic isotopes and trace elements. Research questions include (i) How sensitive are the tropics to changes in climate? (ii) How old are tropical trees and how fast do they grow? (iii) On what timescales do terrestrial and marine carbon reservoirs communicate? (iv) Where to next? Recognizing where current modeling and paleoclimate reconstructions converge and diverge.

PROFESSIONAL EXPERIENCE

2006- Associate Research Scholar, Princeton University
2004-2006 NOSAMS Postdoc Scholar, Woods Hole Oceanographic Institution
2001 Teaching Fellow *Environmental Geochemistry*, Harvard University
2000 Teaching Fellow *Introduction to the Atmosphere*, Harvard University
2000 Teaching Fellow *Earth History*, Harvard University
1996 Research Assistant, Institute of Ocean Sciences, Sidney
1995 Advanced GIS and Computer lab manager, McGill University

HONORS

2006- Hess Research Fellowship
2004-2006 NOSAMS Postdoctoral Scholarship
2002-2004 Teresa Heinz Environmental Scholars Award
2002-2004 FCAR Scholarship
2001 Fisheries and Oceans Canada (DFO) Supplement
2000-2002 NSERC Scholarship
CMOS Weather Research House Supplemental Scholarship (declined)
1999 NSERC Scholarship (declined)
1998 Lieutenant Governor's Silver Medal for best Master's thesis - Univ. of Victoria
1996-1998 FCAR Scholarship

Poussart, P.M., and Tierney, J. On the use of benchtop scanning μm -XRF for elemental studies of tropical trees. (*In prep.*)

Poussart, P.M., Schrag, D.P. and Tierney, J. Tracking El Niño from roots to shoots: Seasonally resolved $\delta^{18}\text{O}$ and Ca records from a *Laguncularia racemosa* Galapagos mangrove (*In prep.*)

Poussart, P.M., Tierney, J., Chambers, J.Q. A dendrochemical survey of ringless tree species from Manaus, Brazil. (*In prep.*)

Poussart, P.M., Lara, A. and Schrag, D.P. Paleo-isotope dendroclimatology: 200 year oxygen isotope records of *Fitzroya cupressoides* from central Chile (*In prep.*)

Poussart, P.M., Myneni, S.C.B. and Lanzirrotti, A. Tropical dendrochemistry: A novel approach to estimate age and growth from ringless trees. *Geophysical Research Letters*, 33, L17711, , doi:10.1029/2006GL026929. Reviewed in **News@nature** (<http://www.nature.com/news/2006/060911/full/060911-15.html>)

Poussart, P.F. and Schrag, D.P.. 2005 Seasonally-resolved stable isotope chronologies from northern Thailand deciduous trees. *Earth and Planetary Science Letters*, 235, 752-765

Poussart, P.F., Evans, M.N., Schrag, D.P.. 2004. Resolving seasonality in tropical trees: Multi-decade, high-resolution oxygen and carbon isotope records from Indonesia and Thailand. *Earth and Planetary Science Letters*. 218, 301-316

Poussart, P.F., 2000. El Niño: Signal du réchauffement planétaire?, *Vertigo, Lettre de l'étranger*, 1(2)

Poussart, P.F., A.J. Weaver and C.R. Barnes, 1999: Late Ordovician glaciation under high atmospheric CO_2 : A coupled model analysis. *Paleoceanography*, 14(4), 542-558

SELECTED ABSTRACTS AND CONFERENCES

Poussart, P.M. 2006. On the development of dendro-geochemical techniques for the study of the terrestrial tropics. (invited talk) Seventh International Conference on Dendrochronology, Beijing, China

Poussart, P.M., Myneni, S.C.B., 2005. Tropical dendrochemistry: A novel approach for reconstructing seasonally-resolved growth rates from ringless tropical trees (talk). AGU Fall Meeting

Poussart, P.F., Drenzek, N.J., Lima, A.L. Eglinton, T.I., Reddy, C.M. and Hughen, K.A., 2005. The continental residence time of terrestrial biomarkers as determined by molecular level radiocarbon analysis. A case study from the Pettaquamscutt river basin (USA) (talk). *Book of Abstracts* Eds. F.J. Gonzalez-Vila, J.A. Gonzales-Perez and G. Almendros. Vol. 1. pp. 181-182, IMOG, Seville, Spain

Poussart, P.F., Schrag, D.P., Buckley, B.M. , 2003. Applications of tropical isotope dendroclimatology in Thailand (talk). AGU Fall Meeting

Poussart, P.F., 2003. Un milligramme de bois des tropiques: Analyse isotopique et reflet du detail de la dynamique climatique (invited talk). GEOTOP, Montreal

Poussart, P.F., Schrag, D.P., Evans, M.N., D'Arrigo, R.D., 2002. High resolution cellulose oxygen isotope records from Indonesian trees (talk). In: *EOS, Transactions, AGU*. Vol. 83(47) Fall Meet. Suppl. p. F888

Poussart, P.F., Weaver, A.J., Barnes, C.R., 2000. Late Ordovician glaciation (~ 440 Ma) and high atmospheric CO_2 : Modelling experiments of a paradox (poster). In: *ICP VI, Abstracts*, p188

AGU, EAOG, AAAS, AWIS.

Reviewer of Climate Dynamics, Environmental Forensics, Journal of Climate, Palaeo3, SB&F

REFERENCES

Noel Michele Holbrook, *Terrestrial ecosystems*

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