DANIEL NEPSTAD

Education/Qualifications

PhD, 1989 Forest Ecology, Yale University

MS, 1983 Plant Ecology/Botany, Michigan State University

BS, 1979 Botany, Kalamazoo College

Relevant Professional Experience

Director, Earth Innovation Institute (Formerly the IPAM International Program). (October 2010-present); Founding President of Board of IPAM.

Visiting Distinguished Scientist. Woods Hole Research Center. (2010-present

Senior Scientist. Woods Hole Research Center. (1999 – 2008, 2009 – 2010)

Chief Program Officer, Environmental Conservation Program, Gordon and Betty Moore Foundation. (July 2008 – July 2009)

Visiting Professor. Universidade Estadual de Mato Grosso, Nova Xavantina. (2007-present)

Lecturer. Yale University, School of Forestry & Environmental Studies. (2000-2005)

Leadership and Advisory Roles Relevant to the Proposal

Governors Climate and Forest Taskforce Fund, Board of Directors (2012-present)

California Air and Resources Board Working Group on REDD. Designing REDD architecture linking CA AB32 (cap-and-trade) with Acre and Chiapas REDD programs. (Jan 2011-present)

Acre State Government, REDD Program. Science and Technical Advisory Committee (2010-present)

Intergovernmental Panel on Climate Change. Lead Author, Working Group 2, Chapter 4 (Terrestrial and Inland Water Systems), AR5 (2010-)

World Bank. External Advisory Group. Forest Sector. (2010 to present)

Responsible Soy Roundtable (RTRS). Founding Board Member (2006-2007)

RTRS. Elected to international criteria development group (2007-2008)

Aliança da Terra (Land Alliance), Co-Founder (conservation NGO comprised of cattle ranchers and soy farmers)

Forest Trends, Board of Directors (2010 to present)

Pew Scholar Award in Conservation and Environment (1994 – 1997)

Languages

English (native speaker), Portuguese (advanced high reading, writing, speaking), Spanish (intermediate reading, speaking)

Key Publications (128 peer review papers and books published)

- Nepstad, D. C., W. Boyd, C. M. Stickler, T. Bezerra, and A. Azevedo. 2013. Responding to climate change and the global land crisis: REDD+, market transformation, and low emissions rural development. *Philosophical Transactions of the Royal Society*.
- Nepstad, D. C., D. G. McGrath, and B. Soares. 2012. Systemic Conservation, REDD, and the Future of the Amazon Basin. *Conservation Biology* 25:1113-1116.
- Nepstad, D. C., P. Moutinho, W. Boyd, A. Azevedo, T. Bezerra, B. Smid, M. C. C. Stabile, C. Stickler, and O. Stella. 2012. *Re-framing REDD+: Unlocking jurisdictional REDD+ as a policy framework for low-emission rural development: research results and recommendations for governments*. IPAM-IP, San Francisco.
- Nepstad, D. C., W. Boyd, A. Azevedo, T. Bezerra, B. Smid, R. M. Vidal, and K. Schwalbe. 2012. Overview of State-based Programs to Reduce Emissions from Deforestation and Degradation (REDD) as part of the Governors' Climate and Forest Task Force. EPRI, Palo Alto, CA.
- Soares-Filho, B., R. Silvestrini, D. Nepstad, P. Brando, H. Rodrigues, A. Alencar, M. Coe, C. Locks, L. Lima, L. Hissa, and C. Stickler. 2012. Forest fragmentation, climate change and

- understory fire regimes on the Amazonian landscapes of the Xingu headwaters. *Landscape Ecology* 27:585-598.
- Stickler, C. M., T. P. R. Bezerra, and D. C. Nepstad. 2012. *Global rules for sustainable farming*. IPAM and the Roundtable for REDD (RT-REDD) Consortium.
- Stickler, C., D. C. Nepstad, M. C. C. Stabile, A. Azevedo, and T. Johns. 2012. Slowing Climate Change through Better Farming. Instituto de Pesquisa da Amazonia, Brasilia.
- Balch, J. K., D. C. Nepstad, L. M. Curran, P. M. Brando, O. Portela, P. Guilherme, J. D. Reuning-Scherer, and O. de Carvalho Jr. 2011. Size, species, and fire behavior predict tree and liana mortality from experimental burns in the Brazilian Amazon. *Forest Ecology and Management*, 261:68-77.
- Brando, P. M., S. J. Goetz, A. Baccini, D. C. Nepstad, P. S. A. Beck, and M. C. Christman. 2011. Seasonal and interannual variability of climate and vegetation indices across the Amazon. *Proceedings of the National Academy of Sciences of the United States of America* 107:14685-14690.
- Lewis, S. L., P. M. Brando, O. L. Phillips, G. M. F. van der Heijden, and D. Nepstad. 2011. The 2010 Amazon Drought. *Science*, 331:554-554.
- Nepstad, D. C. 2011. Recognizing and Managing the Tropical Agricultural Revolution in Latin America and the Caribbean, *Technical Notes*, pp. 16. Inter-American Development Bank.
- Nepstad, D. C., D. G. McGrath, and B. Soares-Filho. 2011. Systemic Conservation, REDD, and the Future of the Amazon Basin. *Conservation Biology* 25:1113-1116.
- Silvestrini, R., B. Soares-Filho, D. Nepstad, M. Coe, H. Rodrigues, and R. Assuncao. 2011. Simulating fire regimes in the Amazon in response to climate change and deforestation. *Ecological Applications* 21:1573-1590.
- Soares-Filho, B. S., P. Moutinho, D. Nepstad, et al. 2010. Role of Brazilian Amazon protected areas in climate mitigation. *Proceedings of the National Academy of Science*, www.pnas.org/cgi/doi/10.1073/pnas.0913048107
- Balch, J., D. Nepstad, P. Brando, A. Alencar. 2010. Comment on "The Incidence of Amazon Fire with Implications for REDD". *Science* 330:1627.
- Merry, F., B. Soares-Filho, D. Nepstad, G. Amacher, and H. Rodrigues. 2009. Balancing conservation and economic stability: the future of the Amazon timber industry. Environmental Management DOI DOI 10.1007/s00267-009-9337-1
- Brando, P., D. Nepstad, E. Davidson, D. Ray, S. Trumbore, P. Camargo, P. Moutinho. 2008. Drought effects on litterfall, stemwood production, and belowground carbon cycling in an Amazon forest: results of a throughfall reduction experiment. *Philosophical Transactions of the Royal Society B* 363:1839-1848.
- Nepstad, D., B. Soares-Filho, F. Merry, A. Lima, P. Moutinho, J. Carter, M. Bowman, A. Cattaneo, H. Rodrigues, S. Schwartzman, D. McGrath, C. Stickler, et al. 2009. The end of deforestation in the Brazilian Amazon. *Science* 326: 1350-1351.
- Stickler, C.M., D.C. Nepstad, M.T. Coe, D.G. McGrath, H.O. Rodrigues, W.S. Walker, B.S. Soares-Filho, and E.A. Davidson. 2009. The potential ecological costs and cobenefits of REDD: a critical review and case study from the Amazon region. *Global Change Biology* 15:2803–2824
- Balch, J., D. Nepstad, P. M. Brando, L. M. Curran, O. Portela, O Carvalho, Jr., P. Lefebvre. 2008. Negative fire feedback in a transitional forest of southeastern Amazonia. *Global Change Biology* 14, 1–12, doi: 10.1111/j.1365-2486.2008.01655.x
- Nepstad, D.C., C.M. Stickler, B. Soares-Filho, and F. Merry. 2008. Interactions among Amazon land use, forests and climate: prospects for a near-term forest tipping point. *Philosophical Transactions of the Royal Society B*. doi:10.1098/rstb.2007.0036
- Nepstad, D., C. Stickler. 2008. Managing the tropical agriculture revolution. *Journal of Sustainable Forestry* 27 (1-2): 43-56.
- Nepstad, D. C., O. Carvalho, Jr., J. Carter, A. Moita, V. Neu, G. Cardinot. *Manejo e recuperação de mata ciliar nas regiões florestais da Amazônia.* 2007. (Management and recuperation

- of riparian zone forests of Amazon forest regions). Instituto de Pesquisa Ambiental da Amazonia, Belém, Brazil. 68 pages
- Gullison, R. E., P.C. Frummhoff, J. G. Canadell, C. B. Fields, D. C. Nepstad, et al. 2007. Tropical forests and climate policy. *Science* (Policy Forum) Pages 1-3/10.1126science1136163
- Lima, E., F. Merry, D. Nepstad, G. Amacher, C. Azevedo-Ramos, P. Lefebvre, F. Resque Jr. 2006. Searching for sustainability: forest policies, smallholders, and the Trans-Amazon highway. *Environment* 48(1): 26-38.
- Nepstad, D., S. Schwartzman, B. Bamberger, M. Santilli, P. Schlesinger, P. Lefebvre, A. Alencar, D. Ray, E. Prinz, A. Rolla. 2006. Inhibition of Amazon deforestation and fire by parks and indigenous reserves. *Conservation Biology* Vol. 20(1): 65-73.
- Nepstad, D., C. Stickler, O. Almeida. 2006. Globalization of the Amazon beef and soy industries: opportunities for conservation. *Conservation Biology* 20(6): 1595-1603.
- Soares-Filho, B., D. Nepstad, L. Curran, G. Cerqueira, R. Garcia, C. Ramos, E. Voll, A. McDonald, P. Lefebvre, P. Schlesinger. 2006. Modeling Amazon conservation. *Nature* 440: 520-523.
- Nepstad, D., C. Azevedo-Ramos, A.C. Barros, D. McGrath, C. Pereira, F. Merry. 2005. Managing the Amazon timber industry. *Conservation Biology* 18(2): 1-3.
- Santilli, M., P. Moutinho, S. Schwartzman, D. Nepstad, L. Curran, C. Nobre. 2005. Tropical deforestation and the Kyoto Protocol: an editorial essay. *Climate Change* 71: 267-276. (Presents "Compensated Reduction", precursor to REDD)
- Nepstad, D., D. McGrath, A. C. Barros, A. Alencar, M. Santilli, M. C. Vera. 2002. Frontier governance in Amazonia. *Science* 295:629-630.
- Nepstad, D., G. Carvalho, A. C. Barros, A. Alencar, J. P. Capobianco, J. Bishop, P. Moutinho, P. Lefebvre, U. L. Silva Jr. 2001. Road paving, fire regime feedbacks, and the future of Amazon forests. *Forest Ecology & Management*.154: 395-407.