

Stefanie Engel (née Kirchhoff)¹

Alexander-von-Humboldt Professor of Environmental Economics, Institute for Environmental Systems Research, University of Osnabrueck, Email: stefanie.engel@uni-osnabrueck.de

PUBLICATIONS (Student names underlined when articles result from theses supervised by S. Engel)

a) Monographs/ Edited volumes

Palmer, C., and S. Engel 2009. *Avoided Deforestation: Prospects for Mitigating Climate Change*. Routledge Explorations in Environmental Economics, Routledge, Oxford.

Engel, S., 2004. "Designing institutions for sustainable resource management and environmental protection." Habilitation thesis. Faculty of Agriculture, University of Bonn.

b) Special issues of international refereed journals

Wunder, S., Engel, S., and S. Pagiola, S. (eds.). 2008. "Designing Payments for Environmental Services in Developing and Developed Countries". Special Issue. *Ecological Economics* 65.

Matzdorf, B., Sattler, C., and S. Engel (eds.). December 2013. "Payments for Ecosystem Services and Their Institutional Dimensions: Institutional frameworks and governance structures of PES schemes". Special Issue. *Forest Policy and Economics* 37.

<http://www.sciencedirect.com/science/journal/13899341/37>

c) Refereed journals and book chapters

Kirchhoff, S.; B.G. Colby, and J.T. LaFrance. 1997. "Evaluating the performance of Benefit Transfer: An empirical inquiry". *Journal of Environmental Economics and Management* 33: 75-93.

Kirchhoff, S. 2000. "Green Business and Blue Angels: A Model of Voluntary Overcompliance with Asymmetric Information". *Environmental and Resource Economics* 15(4): 403-20.

Asante, F., Berger, T., Engel, S., and M. Iskandarani. 2002. „Water security in the Ghanaian Volta Basin: Patterns, determinants, and consequences". *Quarterly Journal of International Agriculture* 41(1/2) (Special Issue on Agricultural water management and land use in relation to future water supply): 145-167.

Edig, A. van, Engel, S., and W. Laube. 2002. "Ghana's water institutions in the process of reforms: From the international to the local level." In *Reforming Institutions for Sustainable Water Management*. Neubert, S., Scheumann, W., and A. van Edig (eds.). German Development Institute (DIE), Bonn, Germany.

Engel, S. "Meta-Analysis vs. Benefit Function Transfer as Policy-Making Tools: A Comparison". 2002. In *Comparative Environmental Economic Assessment*. Raymond J.G.M. Florax, Peter Nijkamp, Ken Willis (eds.). Edward Elgar.

Sawhney, P., and S. Engel. 2003. "Forest resource use by people in Protected Areas and its implications for biodiversity conservation: The case of Bandhavgarh National Park in India". In *Land use, nature conservation and the stability of rainforest margins in Southeast Asia*. Gerold, G., Fremerey, M., Guhardja E. (eds.). Springer, Berlin.

Engel, S., and U. Grote. 2004. "Trade liberalization and environmental standards in the agricultural sector: Is there a race to the bottom for environmentalist reasons?" *Quarterly Journal of International Agriculture* 2/04: 89-110.

Engel, S. 2004. "Achieving Environmental Goals in a World of Trade and Hidden Action: The Role of Trade Policies and Eco-Labeling". *Journal of Environmental Economics and Management* 48(3): 1122-1145.

Engel, S. 2005. "Endogenitäten im partizipativen Ressourcenmanagement: Politökonomische Aspekte des Bewässerungsmanagements in Ghana." (Endogeneities in participative resource management: political economy aspects of irrigation management in Ghana.) *Schriften des Vereins für Socialpolitik (Journal of the German Economics Association) Vol. 303, Zur Bewertung der Entwicklungszusammenarbeit (On the Evaluation of Development Cooperation)*. Duncker und Humblot GmbH, Berlin. Pp. 99-126.

¹ Please note that Stefanie Engel published under her maiden name, Stefanie Kirchhoff, until February 2002.

- Engel, S., López, R., und C. Palmer. 2006. "Community-industry contracting over natural resource use in a context of weak property rights: The case of Indonesia". *Environmental and Resource Economics* 33(1): 73-98.
- Korf, B., and S. Engel. 2006. "On the Incentives of Violence: Greed and Pride in Sri Lanka's Civil War." *South Asian Economic Journal* 7 (1), 117-129.
- Engel, S. 2006. "Overcompliance, Labeling, and Lobbying: The Case of Credence Goods". *Environmental Modelling & Assessment* 11(2):115-130.
- Bulte, E., und S. Engel. 2006. "Conservation of Tropical Forests: Addressing Market Failure." In *Sustainable Development: New Options and Policies*. López, R., Stiglitz, J., and M. Toman (Eds.). Oxford University Press, New York.
- Engel, S., and C. Palmer. 2006. „Who owns the right? The determinants of community benefits from logging in Indonesia." *Forest Policy and Economics* 8(4): 434-446.
- Behera, B., and S. Engel. 2006. "The four levels of institutional analysis of the evolution of Joint Forest Management in India: A New Institutional Economics approach." *Forest Policy and Economics* 8(4): 350-362.
- Engel, S., Iskandarani, M., and M.d.P. Useche. 2006. "Household Water Security in the Ghanaian Volta Basin: Why do people still not use improved water sources?" *International Journal of River Basin Management* 5(2): 1-6.
- Wünscher, T., Engel, S., and S. Wunder. 2006. "Payments for Environmental Services in Costa Rica: Increasing Efficiency through Spatial Differentiation". *Quarterly Journal of International Agriculture* 45(4): 319-37.
- Engel, S., and A.M. Ibañez. 2007. "Displacement due to Violence in Colombia: Determinants and Effects at the Household Level." *Economic Development and Cultural Change* 55(2): 335-365.
- Palmer, C., and S. Engel. 2007. "For better or for worse? Local impacts from the decentralization of Indonesia's forest sector." *World Development* 35(12): 2131-2149.
- Engel, S., and C. Palmer. 2007. "The role of decentralization in integrating cross-sectoral demands on forests". In: *Cross-sectoral Policy Development in Forestry*. Y. C. Dubé and F. Schmithüsen (eds.). CABI/Oxford University Press, pp. 14-23.
- Behera, B., and S. Engel. 2007. "How participatory are Joint Forest Management institutions in Andhra Pradesh, India?" In *Institutions and Development: Failed Expectations and Renewed Hopes*. N. Dinello and V. Popov (eds.). Edward Elgar.
- Engel, S., Wünsch, T., and S. Wunder. 2007. "Increasing the Efficiency of Conservation Spending: The case of Payments for Environmental Services in Costa Rica". In: C.B. Schmitt, T. Pistorius and G. Winkel (eds.) . *A Global Network of Forest Protected Areas under the CBD: Opportunities and Challenges*. Freiburg Schriften zur Forst- und Umweltpolitik 16. Verlag Kessel: Remagen.
- Engel, S., and M. Zimmermann. 2007. "Environmental institutions in Germany: Leader or laggard?" In *Environmental Governance and Decentralization: Country Studies*. Breton, A., Brusio, G., Dalmazzone, S., Garrone, G. (Eds.). Cheltenham: Elgar.
- Engel, S. 2007. "Overcompliance, Labeling and Lobbying: The Case of Credence Goods". In *Labelling Strategies in Environmental Policy*. M.F. Teisl (Ed.). Ashgate Publishing. Pp. 139-154. The 'International Library of Environmental Economics and Policy' Series (edited by Tom Tietenberg).
- Engel, S., and C. Palmer. 2008. "Payments for Environmental Services as an Alternative to Logging under Weak Property rights: The Case of Indonesia". *Ecological Economics* 65:799-809. (Featured in *European Commission DG Environment News Alert Service*. <http://ec.europa.eu/environment/integration/research/newsalert/pdf/5si6.pdf>)
- Wünsch, T., Engel, S., and S. Wunder. 2008. "Spatial Targeting of Payments for Environmental Services: A Tool for Boosting Conservation Benefits." *Ecological Economics* 65:822-833.
- Engel, S., Pagiola, S., and S. Wunder. 2008. "Designing Payments for Environmental Services in Theory and Practice – An Overview of the Issues." *Ecological Economics* 65:663-674. On Science Direct's List of Hottest Articles in Economics, Econometrics and Finance.
- Wunder, S., Engel, S., and S. Pagiola. 2008. "Taking Stock: A comparative analysis of Payments for Environmental Services Programs in Developed and Developing Countries". *Ecological Economics* 65:834-852.
- Engel, S., and R. López. 2008. "Exploiting Common Resources with Capital-Intensive Technologies: The Role of External Forces". *Environment and Development Economics* 13(5):565-589.

- Engel, S., and C. Palmer. 2009. "Designing Payments for Environmental Services with Weak Property Rights and External Interests." In: Lipper, L., Sakuyama, T., Stringer, R., and D. Zilberman (eds.), *Payments for Environmental Services in Agricultural Landscapes: Economic Policies and Poverty Reduction in Developing Countries*, Food and Agriculture Organization of the United Nations (FAO) and Springer Press.
- Palmer, C., and S. Engel. 2009. "Introduction: reducing CO2 emissions through avoided deforestation?" In: *Avoided Deforestation: Prospects for Mitigating Climate Change*. Palmer, C., and S. Engel (eds.). Routledge Explorations in Environmental Economics, Routledge, Oxford.
- Engel, S., Wünscher, T., and S. Wunder. 2009. "Increasing the efficiency of forest conservation: the case of payments for environmental services in Costa Rica." In: *Avoided Deforestation: Prospects for Mitigating Climate Change*. Palmer, C., and S. Engel (eds.). Routledge Explorations in Environmental Economics, Routledge, Oxford.
- Engel, S., and C. Palmer. 2009. "Prospects for mitigating climate change through avoided deforestation: conclusions and outlook." In: *Avoided Deforestation: Prospects for Mitigating Climate Change*. Palmer, C., and S. Engel (eds.). Routledge Explorations in Environmental Economics, Routledge, Oxford.
- Engel, S., C. Palmer, and M. Berg. 2009. "Market-based solutions to reduce emissions from deforestation and degradation (REDD) ", In A. Calvillo (ed.), *Environmental Alpha: Institutional Investors and Climate Change*. John Wiley and Sons.
- Zabel, A., and S. Engel. 2010. "Performance payments: A new strategy to conserve large carnivores in the tropics?" *Ecological Economics* 70(2010):405-412.
- Rustagi, D., Engel, S., Kosfeld, M. 2010. "Conditional Cooperation and Costly Monitoring Explain Success in Forest Commons Management." *Science* 330: 961-965.
- Engel, S., Hobi, S., and A. Zabel. 2010. "Ensuring REDD plays its part in any post-2012 agreement: which issues remain to be resolved?" *Carbon Management* 1(2):261-69.
- Zabel, A., Pittel, K., Bostedt, G., and S. Engel. 2011. "Comparing Conventional and New Policy Approaches for Carnivore Conservation – Theoretical Results and Application to Tiger Conservation." *Environmental and Resource Economics* 48:287-301.
- Engel, S., Hobi, S., and A. Zabel. 2011. "Neue Entwicklungen und offene Fragen zu REDD+ (New developments and open questions regarding REDD+)". *Schweizerische Zeitschrift für Forstwesen* 162(4):117-123.
- Engel, S., and C. Palmer. 2011. "Complexities of decentralization in a globalizing world." *Environmental and Resource Economics* 50:157–174. Featured as publication of special interest to the progress in the Environmental Sciences field in the Environment Progress series.
- Andrade de Sa, S., Palmer, C., and S. Engel. 2012. "Ethanol production, food and forests." *Environmental and Resource Economics* 51(1), 1-21.
- Wünscher, T., and S. Engel. 2012. "International Payments for Biodiversity Services: Review and Evaluation of Conservation Targeting Approaches". *Biological Conservation* 152 (2012) 222–230.
- Cavalcanti, C., Engel, S., Leibbrandt, A. 2013. "Social integration, participation, and community resource management". *Journal of Environmental Economics and Management* 65(2): 262-276.
- Engel, S., Palmer, C., and A. Pfaff. 2013. "On the endogeneity of resource co-management: theory and evidence from Indonesia." *Land Economics* 89(2): 308-329.
- Matzdorf, B., Sattler, C., and S. Engel. December 2013. "Institutional Frameworks and Governance Structures of PES schemes". *Forest Policy and Economics* 37: 57-64. <http://dx.doi.org/10.1016/j.forpol.2013.10.002>
- Engel, S., and M. Schäfer. 2013. "Ecosystem Services - A useful concept for addressing water challenges?" *Current Opinion in Environmental Sustainability* 5:696–707.
- Zabel, A., Bostedt, G., Engel, S. 2014. "Performance Payments for Groups: The Case of Carnivore Conservation in Northern Sweden." *Environmental and Resource Economics* 59(4): 613-631.
- Wünscher, T., and S. Engel, with contributions from K. Karousakis. 2014. "Cost-effective targeting for IPES." In *Global Biodiversity Finance: The Case for International Payments for Ecosystem Services*. Bishop, J., Hill, C., (eds.). Edward Elgar, UK.
- Engel, S. "Payments for environmental services". 2015. In *Essential Concepts of Global Environmental Governance*, J. F. Morin and A. Orsini (eds.). Routledge.
- Engel, S., Palmer, C., Taschini, L., Urech, S. (in press) "Conservation Payments under Uncertainty when Nonuse Benefits have Market Value". *Land Economics*.

"Payments for environmental services as a mechanism to promote biodiversity conservation in a Green Economy: Potentials and limitations". Forthcoming in *Biodiversity and the Green Economy*. A. Gasparatos, K. Willis, Biodiversity Institute, Oxford University (eds.). Routledge or Oxford University Press.

d) Submitted/In Review Process

Veronesi, M., Schlöndorn, T., Zabel, A., Engel, S. "Designing REDD+ schemes when forest users are not forest landowners: Evidence from a survey based experiment in Kenya." Submitted to *Ecological Economics*.

He, P., Veronesi, M., Engel, S. "The Role of Risk, Ambiguity, and Time Preferences in the Participation in Renewable Energy PES Programs: Experimental Evidence from China". Submitted to *Journal of Economic Behavior and Organization*.

e) Publications in Discussion Paper Series (reviewed)

Kirchhoff, S. 1998. "Achieving Environmental Goals in a World of Trade and Hidden Action: The Role of Trade Policies and Eco-Labeling". University of Maryland Working Paper No. 98-26.

Kirchhoff, S. 1998. "Overcompliance, Labeling, and Lobbying: The Case of Credence Goods". University of Maryland Working Paper No. 98-25.

Kirchhoff, S., and A.M. Ibañez. 2001. "Displacement due to Violence in Colombia: Determinants and Effects at the Household Level." ZEF-Discussion Papers on Development Policy 41, October 2001. Center for Development Research (ZEF), Bonn.

Grote, U. and S. Kirchhoff. 2001. "Environmental and Food Safety Standards in the Context of Trade Liberalization: Issues and Options." ZEF-Discussion Papers on Development Policy 39, June 2001.

Damodaran, A., and S. Engel. 2003. "Joint Forest Management in India: Assessment of Performance and Evaluation of Impacts." ZEF-Discussion Papers on Development Policy 77.

Engel, S., and R. López. 2004. "Exploiting Common Resources with Capital-Intensive Technologies: The Role of External Forces". ZEF-Discussion Papers on Development Policy 90, November 2004.

Engel, S., Iskandarani, M., and M.d.P. Useche. 2005. "Improved water supply in the Ghanaian Volta Basin: Who uses it and who participates in community decision making." EPT Discussion Paper No. 129. International Food Policy Research Institute (IFPRI), Washington, DC.
<http://www.ifpri.org/divs/eptd/dp/papers/eptdp129.pdf>

Behera, B., and S. Engel. 2006. "Who forms local institutions? Levels of household participation in India's Joint Forest Management program". ZEF-Discussion Papers on Development Policy 103, February 2006.

Grote, U., Engel, E., and B. Schraven. 2006. "Migration due to the tsunami in Sri Lanka - Analyzing vulnerability and migration at the household level". ZEF-Discussion Papers on Development Policy 105.

Engel, S., and C. Palmer. 2008. "Painting the forest REDD"? Prospects for mitigating climate change through reducing emissions from deforestation and degradation. IED Working Paper No. 3, Institute for Environmental Decisions, ETH Zürich.

Zabel, A., Pittel, K., Bostedt, G., and Engel, S. 2009. "Comparing Conventional and New Policy Approaches for Carnivore Conservation – Theoretical Results and Application to Tiger Conservation." IED Working Paper No. 6, Institute for Environmental Decisions, ETH Zürich.

Engel, S., and C. Palmer. 2009. "The complexities of decentralization in a globalizing world." IED Working Paper No. 8, Institute for Environmental Decisions, ETH Zürich.

Andrade de Sa, S., Palmer, C., and S. Engel. 2010. "Ethanol production, food and forests." Environmental Economy and Policy Research Discussion Paper No. 48.2010. University of Cambridge, Department of Land Economy.
<http://www.landecon.cam.ac.uk/research/eeprg/papers.htm>

Engel, S., Palmer, C., and Pfaff, A. 2010. "Participatory Protection in Theory and Application: Paper Tigers, Fences & Fines, or Negotiated Co-Management?." Working Paper EE 10-02, Duke Environmental Economics Working Paper Series, Duke University.

Zabel, A., Bostedt, G., Engel, S. 2010. "Outcomes and Determinants of Success of a Performance Payment Scheme for Carnivore Conservation". CERE Working Papers No 2010:7, Center for Environmental and Resource Economics. Available at <http://swopec.hhs.se/>

Engel, S., Palmer, C., Taschini, L., Urech, S. February 2012. "Conservation payments when nonuse benefits have market value". Centre for Climate Change Economics and Policy Working Paper No. 82 and Grantham Research Institute on Climate Change and the Environment Working Paper No. 72,

London School of Economics and Political Science, London, UK. SSRN Top Ten Download List for All Time Hits of Journal of SRPN (Land Use).
http://papers.ssrn.com/sol3/papers.cfm?abstract_id=1973449

Veronesi, M., Schlöndorn, T., Zabel, A., Engel, S. 2012. "Designing REDD+ schemes to address permanence concerns: Empirical evidence from Kenya". Working Paper Series Department of Economics University of Verona, No. 15, April 2012.
http://papers.ssrn.com/sol3/papers.cfm?abstract_id=2046931

f) Working papers/Conference Papers/Newsletters (selection only)

- Erazo, J. A.; Ibáñez, A. M.; Kirchhoff, S.; Galán, A.. 1999. "Diversas Causas y Costos del Desplazamiento: Quién los compensa?"; Departamento Nacional de Planeación, *Revista Planeación y Desarrollo*, XXX (3). Bogotá, Colombia.
- Engel, S. July 2002. "What role can local communities play in natural resource management?" *ZEF News*, No.10. ZEF, Bonn.
- Sawhney, P. and S. Engel. April 2003. "Resource Use and Conservation: Harmonious Co-existence?" *ZEF News*, No.12. ZEF, Bonn.
- El-Mikawy, N., Engel, S., Fuest, V., Grote, U., Hedden-Dunkhorst, B., Mburu, J., Micevska, M., and A. Schoeller-Schletter. October 2003. "Institutions Matter." *ZEF News*, No.13. ZEF, Bonn.
- Debiel, T., Engel, S., Evers, H.-D., Froberg, K., Ihne, H., Schetter, C., and P. Vlek. 2004. „Governance Matters.“ Lead Article, *ZEF Annual Report 2003/2004*. Center for Development Research (ZEF), Bonn.
- Engel, S., and Palmer, C. 2003. "Can decentralization benefit people and forests? – Evidence from Indonesia." *ZEF News*, No. 14. ZEF, Bonn.
- Engel, S. 2007. "Payments for environmental services – Potentials and caveats". IED Newsletter. Institute for Environmental Decisions, ETH Zürich.
- Engel, S. 2008. "Zahlungen für Umweltleistungen – Potentiale und Grenzen". *Böll.Thema*. Available at <http://www.boell.de/oekologie/klima/klima-energie-1893.html>
- Wünscher, T., Engel, S., and S. Wunder. 2008. „Payments for Environmental Services – a Report from Costa Rica". *ZEF News* 20, May 2008. Center for Development Research, Bonn.
- Köllner, T., and S. Engel. 2008. Compensation for ecosystem services and biodiversity in a global context." *NSC newsletter*. Zürich: North South Center, ETH Zürich.
- Köllner, T., and S. Engel. 2008. „Globale Kompensationsfonds für Dienstleistungen von Ökosystemen“. *Die Volkswirtschaft* 7/8-2008.
- Engel, S., and A.M.Ibanez. 2008. "Quiénes son víctimas de los grupos armados? Quiénes se desplazan?" in *El desplazamiento forzoso en Colombia: Un camino sin retorno hacia la pobreza*, Editorial Uniandes, Bogotá, Colombia.
- Andrade S., Palmer, C., and S. Engel. 2009. "Effects of bioethanol production in Brazil." *ESC-News*. Newsletter of the Energy Science Center at ETH Zurich No. 6.
- Wünscher, T., Engel, S., Wunder, S. 2010. "Determinants of Participation in Payments for Ecosystem Service Schemes". Working Paper accepted for presentation at the Annual Conference of the International Society of Ecological Economics (ISEE), August 22-25, 2010, Oldenburg and Bremen, Germany.
- Wünscher, T., Engel, S., Wunder, S. 2010. "Practical approaches to estimate opportunity costs of ecosystem service provision". Working Paper accepted for presentation at the Annual Conference of the International Society of Ecological Economics (ISEE), August 22-25, 2010, Oldenburg and Bremen, Germany.
- Cavalcanti, C., Engel, S., Leibbrandt, A. 2010. "Social integration, participation, and community resource management". Working Paper submitted to the 2010 World Congress of Environmental and Resource Economists, Montreal, Canada, June 2010.
- Engel, S., Palmer, C., Saizaki, R., Taschini, L., Urech, S. 2010. "Are forests real options to mitigate climate change?" Working Paper accepted for presentation at the conference 'Environmental Decisions: Risks and Uncertainties', April 26-29, Ascona, Switzerland.
- Engel, S. 2010. "Rolle der Wälder in Klimaverhandlungen. Contribution to ETH Klimablog 4.11.2010
- Engel, S. 2011, 2012. Various contributions to ETH climate blog.
- Engel, S. 2011. Gemeingut Wald – Erfolge in der Forstwirtschaft durch bedingte Kooperation und Monitoring , *Schweizerische Zeitschrift für Forstwesen*, Juni 2011.
- Silber, T., R. Dommain, A. Fischlin, S. Engel. 2011. "REDD+-based conservation and rehabilitation of peatlands in Indonesia: Is it attractive to the private sector?". Working Paper, ETH Zurich.

- Veronesi, M., Schlöndorn, T., Zabel, A., Engel, S. 2012. "Ecocharcoal Policies for Permanence in REDD". Policy Brief, Professorship of Environmental Policy and Economics, ETH Zurich.
- Rustagi, D., Engel, S., Kosfeld, M. 2012. "Behavioral Approach to Participatory Forest Management". Policy Brief, Professorship of Environmental Policy and Economics, ETH Zurich.
- Silber, T., Dommain, R., Fischlin, A., Engel, S. 2013. "REDD+-based conservation and rehabilitation of peatlands in Indonesia: Is it attractive to the private sector?" Working paper, Professorship of Environmental Policy and Economics, ETH Zurich.
- Reutemann, T., Engel, S., Pareja, E. 2014. "How (not) to pay – The impact of conditionality on the cost-effectiveness of payments for avoided deforestation." Working paper, Professorship of Environmental Policy and Economics, ETH Zurich.
- Reutemann, T., Engel, S. 2014. "Return per hectare or per dollar? Opportunity costs of conservation under capital constraints and intensification potential." Working paper, Professorship of Environmental Policy and Economics, ETH Zurich.