

CURRICULUM VITAE

Omar Raúl Masera Cerutti

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1. Personal Data

Date of Birth: 30 January 1961
Place of Birth: Mendoza, Argentina. Naturalizado Mexicano.
Home address: Reforma Agraria 400, Fraccionamiento el Pueblito, Casa 51, Morelia 58314, Michoacán, México. Tel 01-443-3201056.
Work address: Apartado Postal 27-3 (Xangari), CP 58089 Morelia, Michoacán, MEXICO. Teléfonos (52)(5) 6232709, FAX (52)(5) 6232719.
Email: *omasera@gmail.com*

2. Education

1981-1987 Bachelor in Physics Facultad de Ciencias Universidad Nacional Autónoma de México, México D.F.
1988-1990 M.S.C in energy and natural resource
Energy and Resources Group, University of California, Berkeley
1990-1994 Ph.D in Energy and Natural Resources
Energy and Resources Group, University of California, Berkeley.

3. Overview

Currently Dr. Masera is the full-time professor at the Centro de Investigaciones en Ecosistemas, Universidad Nacional Autónoma de México (UNAM) where he is also Director of the Bioenergy Laboratory. He is also currently the President of the Mexican Bioenergy Network (REMIO). Dr. Masera leads the “Patsari Cookstove Project” in Mexico, an interdisciplinary and international collaborative approach directed to the development and dissemination of sustainable alternatives for rural cooking in Mexico, which has obtained national and international recognition. Dr. Masera has published 5 books, more than 160 peer reviewed publications, and several research reports addressing bioenergy, the role of forests in global climate change,

future energy and forestry scenarios, sustainability of technological change in rural areas, and other topics. He has documented 930 citations to his publications. He has developed technologies for the efficient use of biomass in rural households, and studied the time and spatial dynamics of fuelwood use in rural areas and their associated local and global environmental impacts. He CO-developed the WISDOM model, a spatial explicit tool to identify biomass energy “hotspots” at different geographical scales, currently applied in case studies around the world. With a group of four research institutions of Latin America and Europe, Dr. Masera co-developed the model “CO2fix”, that allows estimating dynamically the carbon sequestration of alternative mitigation options in the forestry sector. This model is currently used in 80 countries around the world. Within the field of sustainability, Dr. Masera has developed the MESMIS framework, a participatory tool for the assessment of the sustainability implications of alternative natural resource management systems in agriculture and forestry. The MESMIS framework has been applied to more than 50 case studies from different Latin-American countries, and is being used in the graduate programs of 15 Universities within the region.

Dr. Masera has graduated a total of 20 students, and actively participates in graduate programs of Mexico and Spain. He has coordinated national and international research groups and raised research funds from 25 projects with International Funding Agencies such as the European Union, the World Bank, InterAmerican Development Bank and others, as well as Mexican Government and Private Institutions. He has given more than 150 presentations in seminars and conferences of 35 countries. He serves in the editorial board of 4 international journals in the area of energy and climate change.

Dr. Masera received the National Research Award for young scientists of the Mexican Academy of Sciences in 2000, the Nobel Peace Prize in 2007 as a member of IPCC and the Ashden Awards to Sustainable Energy in 2006. He was nominated to the International Panel on Climate Change (IPCC) in 1997 and participated in the last 6 major reports of the organization, including the coordination of chapters in three of these reports. He has been consultant to FAO, the United Nations Framework Convention for Climate Change (UNFCCC), UNDP, UNEP and the Mexican Government.

1.1 Articles in International Peer Review Journals

1. Masera, O.R. y G. Dutt, 1991. A Thermodynamic Analysis of Rural Energy Needs: A Case Study in a Mexican Village. *Energy*, 16:4, pp. 763-769. (ISI, FI: 1.17) ISSN 0360-5442 ⇒☑
2. Mendoza, Y., O.R. Masera, y P. Macias, 1991. Long-term Energy Scenarios for Mexico: Policy Options for Carbon Savings and Main Barriers. *Energy Policy* 19:10, pp. 962-969. (ISI, FI:1.901)ISSN 0301-4215 ☑⇒

3. Altieri, M.A. y O.R. Masera 1993. Sustainable Rural Development in Latin-America: Building from the Bottom-up. *Ecological Economics*, 7 pp. 93-121. (ISI, FI: 1.549) (ES: 1.2)ISSN 0921-8009 ☑⇒
4. Masera, O.R., M. R. Bellon, y G. Segura, 1995. Forest Management Options for Sequestering Carbon in Mexico. *Biomass and Bioenergy* 8 pp. 357-367. (ISI, FI: 1.779)ISSN 0961-9534 ☑⇒
5. Masera, O.R. 1995. Carbon Mitigation Scenarios for Mexican Forests: Methodological Considerations and Results. *Interciencia* 20 pp. 388-395. (ISI, FI: 0.36)ISSN 0378-1844 ☑⇒
6. Dixon, R.K., J.A. Sathaye, S.P. Meyers, O.R. Masera, A.A. Makarov, S. Toure, W. Makundi, y S. Wiel, 1996. Greenhouse Gas Mitigation Strategies: Preliminary Results from the U.S. Country Studies Program. *Ambio* 25:1 pp. 26-32. (ISI, FI: 1.14) (ES: 1.44) ISSN 0044-7447 ☑⇒
7. Masera, O.R., M.J. Ordoñez, y R. Dirzo, 1997. Carbon emissions from Mexican Forests: Current Situation and Long-term Scenarios. *Climatic Change* 35 pp. 265-295. (ISI, FI: 1.91) (ES: 1.87) ISSN 0165-0009 ☑⇒
8. Masera, O. R., M.R. Bellon, y G. Segura, 1997. Forestry Options for Sequestering Carbon in Mexico: Comparative Economic Analysis of Three Case Studies. *Critical Reviews in Environmental Science and Technology* 27 (special issue) pp. S227-S244. (ISI, FI: 2.769) (ES: 2.17) ISSN 1064-3389 ☑⇒
9. Parks, P.J., D.O. Hall, B. Kristrom, O.R. Masera, R.J. Moulton, A.J. Plantinga, J.N. Swisher y J.K. Winjum, 1997. An Economic Approach to Planting Trees for Carbon Storage. *Critical Reviews in Environmental Science and Technology* 27 (special issue) pp. S9-S21. (ISI, FI: 2.769) (ES: 2.17) ISSN 1064-3389. ☑⇒
10. Masera, O.R. y J. Navia, 1997. Fuel Switching or Multiple Cooking Fuels: Understanding Interfuel Substitution Patterns in rural Mexican Households. *Biomass and Bioenergy* 12:5 pp. 347-361. (ISI, FI:1.779) ISSN 0961-9534 ☑⇒
11. Dixon, R., J. Smith. S. Brown, O. Masera, L. Mata y I. Buksha 1999. Simulations of Forest System Response and Feedbacks to Global Change: Experiences and Results From the U.S. Country Studies Program. *Ecological Modelling* 122 pp. 289-305. (ISI, FI: 2.077) (ES: 1.18). ISSN 0304-3800 ⇒
12. Saatkamp, B.D., O. Masera, y D.M. Kammen 1999. Energy and Health Transitions in Development: Fuel Use, Stove Technology, and Morbidity in Jarácuaro, Mexico. *Energy for Sustainable Development* 4:2, pp. 7-16. *Reseñado en contraportada* ISSN 0973-0826 ☑⇒
13. Sheinbaum, C. y O.R. Masera 2000. Mitigating Carbon Emissions while Advancing National Development Priorities. The Case of Mexico. *Climatic Change* 47:3, pp. 259-282. (ISI, FI: 1.91) (ES: 1.87). ISSN 0165-0009 ☑⇒

14. Masera, O.R., B.D. Saatkamp y D.M. Kammen 2000. From Linear Fuel Switching to Multiple Cooking Strategies: A Critique and Alternative to the Energy Ladder Model for Rural Households. *World Development* 28: 12, pp. 2083-2103. (ISI, FI: 1.565) ISSN 0305-750X ☑⇒
15. Masera, O.R., 2000. Environmental Science and Policy in the Next Century: A Personal View of Future Challenges. *Environmental Science and Policy* 3, pp.59-60. (Editorial) (ISI, FI:1.415) ISSN 1462-9011 ⇒
16. Klooster, D. y O.R. Masera, 2000. Community forest management in Mexico: Making carbon sequestration a by-product of sustainable rural development. *Global Environmental Change* 10:4, pp. 259-272. (ISI, FI:3.9) (1.28). ISSN 0959-3780 ☑⇒
17. Masera, O.R., A.D. Cerón, y J. A. Ordóñez, 2001. Forestry Mitigation Options for México: Finding Synergies Between National Sustainable Development Priorities and Global Concerns. *Mitigation and Adaptation Strategies for Climate Change: Special Issue on Land Use Change and Forestry Carbon Mitigation Potential and Cost Effectiveness of Mitigations Options in Developing Countries*, 6:3-4 pp. 291-312. ISSN 1381-2386 ☑⇒
18. Sathaye, J., W.R. Makundi, K. Andrasko, R. Boer, N.H. Ravindranath, P. Sudha, S. Rao, R. Lasco, F. Pulhin, O. Masera, A. Ceron, J. Ordonez, X. Deying, X. Zhang and S. Zuomin, 2001. Carbon Mitigation Potential and Costs of Forestry Options in Brazil, China, Indonesia, Mexico, The Philippines, and Tanzania. *Mitigation and Adaptation Strategies for Climate Change: Special Issue on Land Use Change and Forestry Carbon Mitigation Potential and Cost Effectiveness of Mitigations Options in Developing Countries*, 6:3-4 pp. 185-211. ISSN 1381-2386 ☑⇒
19. Lopez-Ridaura S., O.R. Masera, and M.Astier. 2002. Evaluating the Sustainability of Complex Socio-Environmental Systems. The Mesmis Framework. *Ecological Indicators* 35: 1-14 (ISI, FI:1.576) ISSN 1470-160X☑⇒
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21. García-Oliva, F. y O.R. Masera, 2004. Assessment and Measurement Issues Related to Soil Carbon Sequestration in Land-Use, Land-Use Change, and Forestry (LULUCF) projects under the Kyoto Protocol. *Climatic Change*, 65: 347-364. (ISI, FI: 1.91) (ES: 1.87). ISSN 0165-0009 ☑⇒
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24. Masera, O.R., A. Ghilardi, R. Drigo y M. Trossero, 2006. WISDOM: a GIS-based supply demand mapping tool for woodfuel management. *Biomass and Bioenergy* 30: 618-637 (ISI, FI:1.779) ISSN 0961-9534⇨
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27. Speelman, E. S. López-Ridaura, N. Colomer, M. Astier y O.R. Masera, 2007. Ten years of sustainability evaluation using the MESMIS framework: Lessons learned from its application in 28 Latin American case studies. *International Journal of Sustainable Development & World Ecology* 14:1-17. ISSN 1350-4509 ⇨
28. Skutsch, M., N. Bird, E. Trines, M. Dutschke, P. Frumhoff, B. de Jong, P. van Laake, O. Masera, and D. Murdiyarso, 2007. Clearing the way for reducing emissions from tropical deforestation. *Environmental Science and Policy* 10: 322-334 (ISI, FI 1.415) ISSN 1462-9011⇨
29. Masera, O., R. Edwards, C. Armendáriz, V. Berrueta, M. Johnson, L. Rojas, H. Riojas-Rodríguez, 2007. Impact of “Patsari” improved cookstoves on Indoor Air Quality in Michoacan, Mexico. *Energy For Sustainable Development* 11: 45-56. ISSN 0973-0826⇨
30. Bailis, R., V. Berrueta, C. Chengappa, K. Dutta, R. Edwards, O R. Masera, D. Still, K.S. Smith. 2007. Performance testing for monitor improved biomass stove interventions: Experiences of the Household Energy and Health Project. *Energy For Sustainable Development* 11: 57-69 ISSN 0973-0826⇨
31. Smith KR, R Edwards, K. Shields, R. Bailis, K. Dutta, C Chengappa, O Masera, and V. Berrueta. 2007. Monitoring and Evaluation of Improved Biomass Cookstove Programs for Indoor Air Quality and Stove Performance: Conclusions from the Household Energy and Health Project. *Energy For Sustainable Development* 11:5-18. ISSN 0973-0826⇨

¹ La revista “*Energy for Sustainable Development*” no está indizada actualmente. Sin embargo cuenta con un proceso de arbitraje estricto, se publica regularmente desde hace 9 años y tiene una distribución muy amplia internacionalmente dentro de la investigación en energía rural. El comité editorial de la revista está formado por prestigiosos investigadores, varios de ellos reconocidos mundialmente. Por estas razones, la incluyo entre las publicaciones indizadas.

32. Brown, S., M. Hall, K. Andrasko, F. Ruiz, W. Marzoli, G. Guerrero, O. Maser, A. Dushku, B. DeJong, and J. Cornell. 2007. Baselines for Land-Use Change in the Tropics: Application to Avoided Deforestation Projects. *Mitigation and Adaptation Strategies for Climate Change* 12: 1001-1026. ISSN 1381 2386⇒
33. Zuk, Miriam, L.Rojas, S. Blanco, P. Serrano, J. Cruz, F. Angeles, G. Tzintzun, C. Armendariz, R. Edwards, M. Johnson, H. Riojas, and O.R. Maser. 2007. The impact of improved wood-burning stoves on fine particulate matter concentrations in rural Mexican homes. *Journal Of Exposure Science And Environmental Epidemiology* 17: 224-232. (ISI FI 2.88) ISSN 1559-0631⇒
34. Ghilardi, A.; G. Guerrero y O.R. Maser, 2007. Spatial analysis of residential fuelwood supply and demand patterns in Mexico using the WISDOM approach. *Biomass and Bioenergy* 31: 475-491. (ISI, FI:1.779) ISSN 0961-9534 ⇒
35. Flamenco, A, M. Martínez-Ramos y O. R. Maser, 2007. Assessing the implications of land cover change dynamics for conservation of a highly diverse rain forest. *Biological Conservation* 138: 131-145.(ISI, FI:3.296) ISSN 0006-3207 ⇒
36. Islas, J., Manzini, F., y Maser, O. 2007. A Prospective Study of Bioenergy Use in Mexico. *Energy* 32: 2306-2330. (ISI, FI: 1.17) ISSN 0360-5442⇒
37. Berrueta, V., R. Edwards, y O.R. Maser, 2008. Energy performance of woodburning cookstoves in Michoacan, Mexico. *Renewable Energy* 33 (5): 859 - 870. (ISI, FI 1.2) ISSN 0960 1481 ⇒
38. Armendariz, C., R. Edwards, M. Johnson, y O.R. Maser 2008. Reductions in personal exposures to particulate matter and carbon monoxide as a result of the installation of a Patsari improved cook stove in Michoacan Mexico. *Indoor Air* 18: 93-105. ISSN 0905-6947⇒
39. Ortiz, T. y O.R. Maser, 2008. Subsidios y estrategias de producción campesina: el caso de estudio de Casas Blancas, México 2008. *Revista Iberoamericana de Economía Ecológica* 7:61-80. ISSN 1390-2776⇒
40. Johnson, M., R. Edwards, C. Alatorre y O. Maser, 2008. In-field greenhouse gas emissions from cookstoves in rural Mexican households. *Atmospheric Environment* 42 (2008): 1206-1222. (ISI FI:2.549) ISSN 1352-2310 ⇒
41. Ordóñez, J. A. B., B. H. J. de Jong, F. García-Oliva, F. L. Aviña, J. V. Pérez, G. Guerrero, R. Martinez, and O. Maser, 2008. Carbon content in vegetation, litter, and soil under ten different land-use land-cover classes in Central Highlands of Michoacan, Mexico. *Forest Ecology and Management*. 255 (2074-2084). (ISI FI:1.579) ISSN 0378 1127 ⇒

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43. Ghilardi, A., Guerrero, G., y O. Masera, 2009. A GIS-based methodology for high lighting fuelwood supply-demand balances at the local level: a case study for central Mexico. *Biomass and Bioenergy*. 33: 957-972 (ISI, FI:2.54) ISSN 0961-9534
44. Romieu, I., H. Riojas-Rodriguez¹; A. Teresa Marrón-Mares, A. Schilmann, R. Perez-Padilla y O. Masera, 2009. Improved biomass stove intervention in rural Mexico: Impact on the respiratory health of women. *American Journal of Respiratory and Critical Care Medicine*. 180: 649-656. (ISI, FI:9.09)
45. Rob Bailis, Amanda Cowan, Victor Berrueta, Omar Masera, 2009. Arresting the Killer in the Kitchen: The Promises and Pitfalls of Commercializing Improved Cookstoves *World Development*, 37 (10) pp. 1694-1705 (ISI, FI:2.33)
46. García-Barrios, L., Y. Galván, I. Abril, O. Masera, G. Bocco y J. Vandermeer, 2009. Neotropical Forest Conservation, Agricultural Intensification, and Rural Out-migration: The Mexican Experience, **BioScience** 59:10 pp. 863-873. (ISI, FI: 4.0)
47. Johnson, M, Rufus Edwards and Omar Masera. 2010. Improved stove programs need robust methods to estimate carbon offsets. *Climatic Change*. In press
48. Johnson, M, Rufus Edwards, V. Berrueta, and Omar Masera 2010. New Approaches to Performance Testing of Improved Cookstoves. *Environmental Science & Technology*. In press.

Books

1. Masera, O.R. 1990. Crisis y mecanización de la agricultura campesina. Programa de Ciencia y Tecnología, El Colegio de México, El Colegio de México eds., Mexico. ISBN: 968-12-0445-X ☑
2. Masera, O, D. Masera y J. Navia. 1998. Dinámica y Uso de los Recursos Forestales de la Región Purépecha: El Papel de las Pequeñas Empresas Artesanales. Grupo Interdisciplinario de Tecnología Rural Apropiable (GIRA), Michoacán, México. ISBN: 968-5012-00-8 ☑
3. Masera, O.R., M. Astier y S. López. 1999. Sustentabilidad y manejo de recursos naturales: El Marco de evaluación MESMIS, Mundiprensa-GIRA-UNAM, México D.F. ISBN:968-7462-11-6 ☑
4. Masera, O., y S. López-Ridaura, 2000 (eds). Sustentabilidad y sistemas Campesinos.

Cinco Experiencias de Evaluación en el México Rural. Mundiprensa GIRA-UNAM. México, D.F. ISBN:968-7462-24-8 ☑

5. Masera, O.R. (coord.) 2005. La Bioenergía en México: Un Catalizador del Desarrollo Sustentable, Mundiprensa-CONAFOR, México, D.F. Libro Blanco de la Bioenergía en México, Red Mexicana de Bioenergía-CONAFOR. México D.F. ISBN:968-7462-42-6
6. Astier, M., Masera, O y Y Galván-Miyoshi (coord).2008. Evaluación de sustentabilidad. Un enfoque dinámico y multidimensional, Mundiprensa/SEAE/ECOSUR/CIGA/CIEco/UNAM/GIRA/Fundación instituto de agricultura ecológica y sustentable. Valencia España.ISBN: 978-84-612-5461-9

Book Chapters (selected)

1. Brown, S., O.R. Masera, J. Sathaye, K. Andrasko, P. Brown, P. Frumhoff, R. Lasco, G. Leach, P. Moura-Costa, S. Mwakifwamba, G. Phillips, P. Read, P. Sudha and R. Tipper. 2000. "Project-Based Activities" en: R. Watson, I.R. Noble, B. Bolin, N.H. Ravindranath, D. Verado, D. Dokken (Eds) Land Use, Land-Use Change, and Forestry, Cambridge University Press, New York, Capítulo 5, pp. 283-338 (Libro de Revisión del Estado del Arte del tema a nivel Mundial por el Intergovernmental Panel on Climate Change (IPCC). ISBN 0-521-80495-7 ☑◇
2. Watson, R., I. Noble, B. Bolin, N.H. Ravindranath, D. Verado, K. Andrasko, M. Apps, S. Brown, G. Farquhar, D. Goldberg, S. Hamburg, R. Houghton, P. Jarvis, T. Karjalainen, H. Khesghi, T. Krug, W. Kurz, D. Lashof, B. Lin, W. Makundi, M. Manning, G. Marland, O. R. Masera, D. Murdiyarsso, B. Murray, R. Persson, N. Sampson, J. Sathaye, R. Scholes, B. Schlamadinger, W. Sombroek, S. Prislely, J. Stone, R. Sukumar, R. Valentín. "Summary for Policy Makers" en: R. Watson, I.R. Noble, B. Bolin, N.H. Ravindranath, D. Verado, D. Dokken (Eds.) Land Use, Land-Use Change, and Forestry, Cambridge University Press, New York, pp.1-20 (Libro de Revisión del Estado del Arte del tema a nivel Mundial por el Intergovernmental Panel on Climate Change (IPCC). ISBN 0-521-80495-7 ☑◇
3. Kauppi, P., R. Sedjo, M. Apps. C. Cerri, T. Fujimori, H. Janzen, O. Krankina, W. Makundi, G. Marland, O. R. Masera, G-J. Nabuurs, W. Razali, N.H. Ravindranath. 2001. "Technological and Economic Potential of Options to Enhance, Maintain, and Manage Biological Carbon Reservoirs and Geo-engineering" en Metz, B., O. Davidson, R. Swart, J. Pan (eds.), Climate Change 2001: Mitigation (Chapter 4), IPCC Cambridge University Press, New York, pp.303-353 (Libro de Revisión del Estado del Arte del tema a nivel Mundial por el Intergovernmental Panel on Climate Change (IPCC). ISBN 0-521-01507-3 ☑◇
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(eds.) Good Practice Guidance for Land Use, Land-Use Change, and Forestry Sector, Cambridge University Press, New York -por aparecer- (Libro de Revisión del Estado del Arte del tema a nivel Mundial por el Intergovernmental Panel on Climate Change (IPCC). ISBN 4-88788-003-0◇

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6. Guerrero, G., Masera, O., M, Mas, J-F. Land Use/Land Cover Change dynamics in the Mexican Highlands: Current situation and long term scenarios. 2008. En Paegelow, M and Camacho, M (eds). *Modelling Environmental Dynamics*. Ed. Springer. Pág. 2. 57-76. ISBN: 978-3-540-68489-3◇