

EXECUTIVE SUMMARY

Dr. Rodel D. Lasco has over 24 years of experience in natural resources and environmental research, conservation, education and development at the national and international level.

He is the Philippines Programme Coordinator of the World Agroforestry Centre (ICRAF) since April 2004, a center devoting to promoting “tree on farms”. Prior to that, he was the youngest full professor in the College of Forestry and Natural Resources at the University of the Philippines (Los Baños). He has a wide experience in educating future natural resources and environmental managers of the country. He has taught courses in agroforestry, environmental impact assessment, forest regeneration and rehabilitation, soil conservation, and climate change.

He is a multi-awarded and highly respected scientist with over 40 technical publications in national and international journals dealing with the various aspects of natural resources conservation and environmental management. In the last five years, he has pioneered research in the Philippines on climate change adaptation in the natural resources sector, the role of tropical forests in climate change/global warming, and the policy implications of the Kyoto Protocol. Most recently, he has spearheaded the Philippine sub-global component of the global Millennium Ecosystems Assessment which is designed to assess the role of ecosystems and their biodiversity in providing services for human well-being.

Dr. Lasco has served as consultant to national and international organizations working on climate change, natural resources and environmental conservation projects in the Philippines and other countries.

CURRICULUM VITAE

Name: **RODEL D. LASCO**

Date of Birth: December 21, 1960

Sex: Male

Place of Birth: San Pablo City

Citizenship: Filipino

Civil Status: Married

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KEY PROFESSIONAL EXPERIENCE

- Philippines Programme Coordinator. World Agroforestry Centre (ICRAF). 2004-present.
- *Professor*. Institute of Renewable Natural Resources, College of Forestry and Natural Resources, University of the Philippines at Los Baños (Faculty member from 1981 to 2004).
- *Visiting Scientist*. Center for International Forestry Research (CIFOR), Bogor, Indonesia (October to November 1999).
- *Coordinating Lead Author/Lead Author*. Intergovernmental Panel on Climate Change (IPCC). (1999-present).
- Consultant to national and international agencies.

EDUCATIONAL BACKGROUND

<i>School</i>	<i>Year</i>	<i>Degree</i>
Univ. of Guelph, Canada	1992-1993	(Post-doctorate)
U.P. at Los Banos	1987-1991	PhD Forestry (Silviculture/Env. Studies)
The Pennsylvania State University, USA	1988(Fall Term)	PhD Forest Resources (12 units)
U.P. at Los Banos	1982-1986	MS Forestry (Agroforestry)
U.P. at Los Banos	1977-81	BS Forestry
Phil. Science High School	1973-1977	-

HONOURS/SCHOLARSHIPS (Last 10 years)

- Outstanding Researcher. College of Forestry and Natural Resources, UPLB. April 2003.
- Special Achievement Award in Environmental Forestry. UPLB-CFNR Alumni Association. April 2003.
- Gawad Lagablab (Outstanding Alumnus Award) , Philippine Science High School Alumni Association. 1998.
- Outstanding Young Scientist of the Philippines Award for 1997. National Academy of Sciences.
- Outstanding Researcher Award. College of Forestry (1995)
- Guillermo Ponce Professorial Chair in Forestry (1993-94)

CONFERENCES/WORKSHOPS/SYMPOSIA ATTENDED (Last 5 years)

- Assessment of impact and adaptation to climate change (AIACC) Side Event. UNFCCC COP-9, Milan, Italy. 4 December 2003.
- Forests for poverty reduction opportunities with CDM, environmental services and biodiversity. Seoul, Korea. 27-29 August 2003.
- Assessment of impact and adaptation to climate change (AIACC) Asia Regional Workshop, Bangkok, Thailand. 24-28 March 2003.
- FAO Side Event on Forest Inventory and Climate Change at the COP-8 of the UNFCCC. New Delhi, India. October 2002.
- Workshop on Land Use Change and Forestry and the CDM. Bogor, Indonesia. September 2001.
- Open Science Conference. Amsterdam, The Netherlands. August 2001.
- Workshop on Land Use Change and the Terrestrial Carbon Cycle in Asia. Asia-Pacific Network, Kobe, Japan. 29 January 2001.
- Science-Policy Workshop on Terrestrial Carbon Assessment for Possible Carbon Trading. Bogor, Indonesia. 28-20 February 2000.
- International Workshop on Tropical Secondary Forests in Asia: Perspectives and Realities. CIFOR. Samarinda, Indonesia. April 2000.
- Workshop on Activity Data and Emission Factors. UNFCCC. Accra, Ghana. August 1999.
- 11th Global Biodiversity Forum. IUCN. 5-8 November 1998. Side Event at UNFCCC COP-4. Buenos Aires, Argentina.
- International Conference on Tropical Forests and Climate Change (TFCC '98). Manila, Philippines. 19-21 October 1998.
- GCTE-LUCC Open Science Conference. Barcelona, Spain. March 1998.

RESEARCH (Last 10 years)

- Review of Rehabilitation Projects - Lessons From the Past, Philippines, Center for International Forestry Research (CIFOR) May 2003- June 2004. Collaborates with CIFOR to assess lessons learned from previous reforestation efforts in the Philippines
- Integrating Carbon Management into the Development Strategies of Cities— Establishing a Network of Case Studies in the Asia Pacific. Asia-Pacific Network (APN), Japan. April 2003-March 2004.
- Ecosystems and People: The Philippine Sub-Global Assessment. Part of the global Millennium Ecosystems Assessment project. (October 2002-present).

Co-chair of the multi-disciplinary team of scientists and policy makers in the assessment of Philippines ecosystems and biodiversity resources as part of the global effort in support of the conventions on biodiversity, wetlands and desertification.

- An Integrated Assessment of Climate Change Impacts, Adaptation and Vulnerability in Watershed Areas and Communities in Southeast Asia. January 2002-December 2004. Funded by the Assessment of Impacts and Adaptation to Climate Change Programme. START/TWAS/UNEP, Washington, USA.

Leads multidisciplinary teams from five SE Asian countries in conducting assessment of climate change impacts and adaptation in watershed areas.

- Sustainable Development Indicators For Global Change In The Philippines: A Multi-Scale Approach. Funded by SARCS, Taiwan. April 2002-September 2003.

Principal investigator of a multidisciplinary team who developed sustainable indicators for global change at various scales.

- Carbon stocks assessment of secondary forests in the Philippines. Supported by the Institute for Global Environmental Strategies (IGES), Japan. January 2001-March 2002.
- Accounting methods for LUCF carbon mitigation projects. Collaborative research with the Center for International Forestry Research (CIFOR). December 1999-December 2000.

Analyzed the use of various accounting approaches (e.g. ton-year) for quantifying the carbon benefits of LUCF projects.

- Carbon stock assessment of forest lands in the Philippines. Collaborative research with the Impacts Centre-Southeast Asia, Bogor, Indonesia. June 1999-February 2000.

Quantified carbon stocks of various land uses in the Philippines.

- Carbon storage and sequestration of different forest landuses in the Philippines. January-December 1998.
Studied potential of secondary forest, multistorey system and alley cropping system to store and sequester carbon.
- Carbon storage and sequestration of the PNOC geothermal forest reserve, Leyte. March 1998-May 1999.
Quantified the potential of the 10,000-ha PNOC forest reserve to store and sequester the C that the power plant emits.
- Research Division Coordinator. UPLB Agroforestry Program. June 1991- December 1995.
Provided over-all guidance and direction in the research activities of the UPLB Agroforestry Program with specific thrusts on research and technology development, local learning laboratories and local action research.
- Project Leader. Methodology development for evaluating agroforestry systems. PCARRD. October 1993-1996.
Coordinated a multi-disciplinary team in developing methodologies for evaluating agroforestry systems.
- Project Leader. Multilateral Program on Development of Upland and Highland Farming Systems. Japan Society for the Promotion of Science (JSPS). 1995-97.
- Team Member. Development of a computer-based design procedure for agroforestry models. PCARRD. October 1994- September 1996.

PUBLICATIONS

Lasco, RD, SM Ogle, J Raison, LV Verchot, R Wassmann, and K Yagi. 2006. Chapter 5 Cropland. In, 2006 IPCC Guidelines for National Greenhouse Gas Inventories. Intergovernmental Panel on Climate Change (IPCC), Japan (in press).

R. D. Lasco, R. V. O. Cruz, J. M. Pulhin, and F. B. Pulhin. 2006. Tradeoff Analysis of Adaptation Strategies for Natural Resources, Water Resources, and Local Institutions in the Philippines. AIACC Working Paper No. 32 (www.aiaccproject.org).

Lasco, RD and M Cardinoza. 2006. Baseline Carbon stocks assessment and projection of future carbon benefits of a carbon sequestration project in East Timor. *Mitigation and Adaptation Strategies for Global Change (in press)*.

Roshetko, JM, **RD Lasco** and MS de los Angeles. 2006. Smallholder agroforestry systems for carbon storage. *Mitigation and Adaptation Strategies for Global Change (in press)*.

Lasco, R.D. and Pulhin, J.M. (2006) 'Environmental impacts of community-based forest management in the Philippines', *Int. J. Environment and Sustainable Development*, 5(1): 46–56.

Chokkalingam, U., AP Carandang, JM Pulhin, **RD Lasco**, RJJ Peras, and T Toma (eds). 2006. One Century Of Forest Rehabilitation In The Philippines: Approaches, Outcomes And Lessons. Bogor, Indonesia: Center for International Forestry Research (CIFOR), 2006. 132p.

Lasco RD, AP Carandang, U Chokkalingam, JM Pulhin, RA Razal, RT Acosta, MQ Natividad and RJJ Peras. 2006. Chapter IV Bottlenecks and recommended actions: Stakeholder perspectives from Regions III, VII and XI. In, Chokkalingam, U., AP Carandang, JM Pulhin, **RD Lasco**, RJJ Peras, and T Toma (eds). 2006. One Century Of Forest Rehabilitation In The Philippines: Approaches, Outcomes And Lessons. Bogor, Indonesia: Center for International Forestry Research (CIFOR), 2006. pp 107-121.

Pulhin JM, U Chokkalingam, RJJ Peras, RT Acosta, AP Carandang, MQ Natividad, **RD Lasco** and RA Razal. 2006. Chapter II Historical overview. In, Chokkalingam, U., AP Carandang, JM Pulhin, **RD Lasco**, RJJ Peras, and T Toma (eds). 2006. One Century Of Forest Rehabilitation In The Philippines: Approaches, Outcomes And Lessons. Bogor, Indonesia: Center for International Forestry Research (CIFOR), 2006. pp 6-43.

Chokkalingam U, JM Pulhin, AP Carandang, RJJ Peras, **RD Lasco** and MQ Natividad. 2006. Chapter III Outcomes and sustainability: Lessons from the ground. In, Chokkalingam, U., AP Carandang, JM Pulhin, **RD Lasco**, RJJ Peras, and T Toma (eds). 2006. One Century Of Forest Rehabilitation In The Philippines: Approaches, Outcomes And Lessons. Bogor, Indonesia: Center for International Forestry Research (CIFOR), 2006. pp42- 106.

Padilla, JE, EE Tongson, and **RD Lasco**. 2005. PES: Sustainable Financing for Conservation and Development. Proc from the National Conference-Workshop on Payments for Environmental Services: Direct Incentives for Biodiversity Conservation and Poverty Alleviation. 1-2 March 2005. WWF, ICRAF, REECS, UP-CIDS, UPLB-ENFOR, CARE. 279pp.

Santos, AC and **RD Lasco**. 2005. Microwatershed enhancement through community participation: a pilot approach to carbon finance. In, Carbon Forestry: Who Will Benefit (D. Murdiyarso and H. Herawati, eds). CIFOR. Bogor, Indonesia. Pp 149-155.

Lasco, RD, FB Pulhin, RN Banaticla, 2005. Opportunities and challenges in environmental service payments: carbon sequestration. In Padilla, JE, EE Tongson, and RD Lasco. 2005. PES: Sustainable Financing for Conservation and Development. Proc from the National Conference-Workshop on Payments for Environmental Services: Direct Incentives for Biodiversity Conservation and Poverty Alleviation. 1-2 March 2005. WWF, ICRAF, REECS, UP-CIDS, UPLB-ENFOR, CARE. Pp50-61.

Lasco, RD, FB Pulhin, RN Banaticla, 2005. Potential carbon sequestration projects in the Philippines. In In Padilla, JE, EE Tongson, and RD Lasco. 2005. PES: Sustainable Financing for Conservation and Development. Proc from the National Conference-Workshop on Payments for Environmental Services: Direct Incentives for Biodiversity

Conservation and Poverty Alleviation. 1-2 March 2005. WWF, ICRAF, REECS, UP-CIDS, UPLB-ENFOR, CARE. Pp 126-132.

Petschel-Held, G. and RD Lasco. 2005 (coordinating lead authors). Chapter 7 Drivers of Ecosystems Change. In D Capistrano, C Samper, M Lee, C Raudsepp-Hearne (eds) Ecosystems and Human Well-being: Multiscale Assessments Volume 4. Island Press: Washington.

Lasco, RD, FB Pulhin, MA Campos, and JA Goco. 2005. Climate change. In, Lasco, RD, MVO Espaldon, and MA Tapia (eds). 2005. Ecosystems and People: The Philippine Millennium Ecosystem Assessment (MA) Sub-Global Report: Main Report. Environmental Forestry Programme, University of the Philippines. Pp 167-186.

Lasco, RD, MVO Espaldon, and MA Tapia (eds). 2005. Ecosystems and People: The Philippine Millennium Ecosystem Assessment (MA) Sub-Global Report: Main Report. Environmental Forestry Programme, University of the Philippines. 233pp.

Lasco, RD, FB Pulhin, MA Campos, and JA Goco. 2005. Climate change. In, Lasco, RD, MVO Espaldon, and MA Tapia (eds). 2005. Ecosystems and People: The Philippine Millennium Ecosystem Assessment (MA) Sub-Global Report: Main Report. Environmental Forestry Programme, University of the Philippines. Pp 167-186.

Lasco, RD, MVO Espaldon, and MA Tapia. 2005. Ecosystems and People: The Philippine Millennium Ecosystem Assessment (MA) Sub-Global Report: Synthesis Report. Environmental Forestry Programme, University of the Philippines. 34pp.

Lasco, RD, FB Pulhin, JM Roshetko, and MRN Banaticla. 2004. LULUCF Climate Change Mitigation: A Primer. World Agroforestry Centre (ICRAF), Los Banos, Philippines. 73pp.

Lasco, R.D., I.Q. Guillermo, R.V.O. Cruz, N.C. Bantayan, and F.B. Pulhin. 2004. Carbon stocks assessment of a tropical secondary forest in Mt. Makiling, Philippines. *J of Tropical Forest Sci* 16:35-45.

Coordinating Lead Author (Chapter 4). 2003. Chapter 4. Good Practice Guidance for LULUCF. NGGIP, IPCC, Japan.

Lasco, R.D. and F.B. Pulhin. 2003. Philippine forest ecosystems and climate change: Carbon stocks, rate of sequestration and the Kyoto Protocol. *Annals of Tropical Research*. 25(2), 37-51.

Lasco, R.D. 2002. Forest carbon budgets in Southeast Asia following harvesting and land cover change. *Science in China* 45: 55-64.

Lasco, R.D., J.S. Lales, M.T. Arnuevo, I.Q. Guillermo, A.C. de Jesus, R. Medrano, O.F. Bajar, and C.V. Mendoza. 2002. Carbon dioxide (CO₂) storage and sequestration of land cover in the Leyte Geothermal Reservation. *Renewable Energy* 25: 307-315.

Lasco, R.D. and F.B. Pulhin. 2001. Forestry mitigation options in the Philippines: application of the COMAP model. *Mitigation and Adaptation Strategies to Global Change* 6: 313-334..

- Lasco, R.D., R.G. Visco, and J.M. Pulhin. 2001. Secondary forests in the Philippines: formation and transformation in the 20th century. *J of Tropical Forest Sci* 13: 652-670.
- Lasco, R.D., R.V.O. Cruz and F.B. Pulhin. 2001. The Kyoto Protocol: opportunities and threats to Philippine forestry. *J of Environmental Science and Management* 3: 53-63.
- Lasco, R.D., R.F. Sales, R. Estrella, S.R. Saplaco, A.S.A. Castillo, R.V.O. Cruz and F.B. Pulhin. 2001. Carbon stocks assessment of two agroforestry systems in the Makiling Forest Reserve, Philippines. *Philippine Agricultural Scientist*, 84(4):401-407.
- Lasco, R.D. and F.B. Pulhin. 2000. Forest land-use change in the Philippines and climate change mitigation. *Mitigation and Adaptation Strategies to Global Change Journal* 5: 81-97.
- R.D. Lasco (with others). 2000. "Project-based Activities" Chapter 5 in Watson, R.T., I.R. Noble, B. Bolin, N.H. Ravindranath, D.J. Verardo and D.J. Dokken (eds): 2000, *Land Use, Land-use Change, and Forestry*, Published for the Intergovernmental Panel for Climate Change, Cambridge University Press, Cambridge, pp 284-338.
- R.D. Lasco (with others). 2000. "Implications of Different Definitions and Generic Issues" Chapter 2 in Watson, R.T., I.R. Noble, B. Bolin, N.H. Ravindranath, D.J. Verardo and D.J. Dokken (eds): 2000, *Land Use, Land-use Change, and Forestry*, Published for the Intergovernmental Panel for Climate Change, Cambridge University Press, Cambridge.
- Lasco, R.D. and P.D. Suson. 1999. A *Leucaena Leucocephala* -based indigenous fallow system in central Philippines: the Naalad system. *Intl Tree Crops Journal* 10 (2): 161-174.
- Lasco, R.D. and F.B. Pulhin. 1999. Mitigating climate change through forestry options in the Philippines. In, Proc. of the International Conference on Tropical Forests and Climate Change, CFNR, UPLB, Philippines.
- Luna, A.C., K. Osumi, A.F. Gascon, R.D. Lasco, A.M. Palijon, & M.L. Castillo. 1999. The community structure of a logged-over tropical rainforest in Mt. Makiling Forest Reserve, Philippines. *J of Tropical Forest Science* 11: 446-458.
- Lasco, R.D. 1998. Management of tropical forests in the Philippines: implications to global warming. *World Resource Review* 10(3): 410-418.
- Lasco, R.D. and F.P. Pulhin. 1998. Philippine Forestry and CO₂ Sequestration: Opportunities for Mitigating Climate Change. Environmental Forestry Programme (ENFOR), CFNR, UPLB, College, Laguna, Philippines. 24 pp.
- Lasco, R.D. and F.P. Pulhin. 1998. The mountain ecosystems of the Philippines: opportunities in mitigating climate change. In, *Global Change in the Mountains*. Parthenon Press. pp.174-175.
- Carandang, W.M. and R.D. Lasco. 1998. Successful reforestation in the Philippines: technical considerations. In, *Mega Issues in Philippine Forestry: Key Policies and Programs*. Forest Development Center, UPLB, Laguna, Philippines. Pp. 49-59.

Anase, M., T. Mandang and R.D. Lasco (eds). 1996. Rehabilitation and Development of Upland and Highland Ecosystem. Tokyo University of Agriculture Press, Japan. 287pp.

Lasco, R.D., M. Okazaki, and R.P. Furoc. 1996. Alley cropping systems in the Philippines. In, Anase, Mandang and Lasco (eds). Rehabilitation and Development of Upland and Highland Ecosystem. Tokyo University of Agriculture Press. Japan. pp.137-147.

Lasco, R.D., R.P. Puroc and C.P. Javier. 1996. Learning laboratory for agroforestry. In, Anase, Mandang and Lasco (eds). Rehabilitation and Development of Upland and Highland Ecosystem. Tokyo University of Agriculture Press. Japan. pp. 148-153.

Lasco, R.D. and R.P. Furoc. 1996. Sustainable upland agriculture project in the Philippines: a multilateral project. In, Proc. of International Seminar on Development of Agribusiness and its Impact on Agricultural Production in Southeast Asia. Tokyo University of Agriculture, Japan. Nov. 11-16, 1996.

Lasco, R.D. and H.D. Lasco. 1994. Agroforestry systems in the Philippines: inventory and assessment. in, Agroforestry Project Planning and Management: a Training Manual. Los Banos: UPLB Agroforestry Program and Kapwa Upliftment Foundation Inc. pp. 45-63.

Same paper published also in the following training manuals by the same publishers:

- a) Soil and Water Conservation and Management. pp. 31-51.
- b) Agroforestry Production and Post Production System. pp. 72-92.

Lasco, R.D. 1994. Agroforestry on-farm studies in the Philippines. In, Technology Verification through On-farm Trials: A Training Manual. Los Banos: UPLB Agroforestry Program and Kapwa Upliftment Foundation Inc. pp. 126-138.

Lasco, R.D. 1994. Mechanical/engineering soil conservation measures. In, Soil and Water Conservation and Management: A Training Manual. Los Banos: UPLB Agroforestry Program and Kapwa Upliftment Foundation: 100+.

Lasco, R. D. and E.C. Malinao. 1993. Height growth and herbage production of seven MPTS used as hedgerows in an alley cropping system: an on farm experiment. *Sylvatrop, the Technical Journal for Philippine Ecosystems and Natural Resources* 3(1): 97-107. (Published 1994)

Lasco, R.D. and R.V. Dalmacio. 1993. The effect of mulch from the herbage of four agroforestry species on the yield and yield components of upland rice (*Oryza sativa* L.) and bush sitao (*Vigna sesquipedalis* Fruw.). *Pterocarpus, A Philippine Science Journal of Forestry and Forest Products* 8(2): 13-22. (Published 1994)

Visco, R.G. and R.D. Lasco. 1993. Effects of hedgerow number and pruning frequency on the yield of *Gliricidia sepium* (Jacq.)Walp. and alley cropped maize. *Pterocarpus* 8(2): 23-38. (Published 1994)

Lasco, R.D. and P.D. Suson. 1993. A *Leucaena leucocephala*-based modified fallow system in the Philippines. Proc. Third North American Agroforestry Conference. Iowa State University, Ames, Iowa. Aug. 15-18, 1993.

- Lasco, R.D. and P.D. Suson. 1993. On-farm evaluation of the Naalad indigenous agroforestry system: preliminary findings. In, Towards more effective utilization of resources for sustainable development. Proc. of the First IFS-NRCP Seminar-Workshop. 26-29 April 1993. Makati, Philippines.
- Lasco, R.D. 1992. Multipurpose trees in agroforestry. In Growing Multipurpose trees on small farms. Bangkok, Thailand: Winrock International. 18pp.
- Lasco, R.D. and R.V. Dalmacio. 1992. The effect of mulch from four agroforestry species on an acid soil in the Philippines. *Pterocarpus* 7(2): 53-68.
- Lasco, R.D. 1992. On-farm documentation of an improved fallow system in the Philippines: the Naalad system. Proc. International Symposium on the Rehabilitation of Degraded Forest Lands. Tsukuba, Japan. September 16-17, 1992.
- Lasco, R.D. 1991. The role of forests in agroforestry *Canopy Intl.* 1991.
- Lasco, R.D. 1990. MPTS in indigenous agroforestry systems. Proc. Workshop on MPTS Research in Asia. IFS-Winrock F/FRED. UPLB. Nov. 19-24, 1990.
- Lasco, R.D. and W.M. Carandang. 1989. Small-farm MPTS research in the Philippines: methods, issues, and institutions. Proc. Meeting on Orienting MPTS Research for Small Farm Use. Winrock Intl.- F/FRED Jakarta, Indonesia. Nov. 21- 24, 1989.
- Lasco, R.D. and H. D. Lasco. 1989. Agroforestry systems in the Philippines: inventory and assessment. Proc. Symposium on Agroforestry Systems and Technologies. BIOTROP, Bogor, Indonesia. Sept. 19-21, 1989.
- Lasco, R.D. 1989. Alley cropping in the Philippines: an assessment. *IESAM Bull* 9(1): 10-11.
- Lasco, R.D. 1988. Multistorey agroforestry systems in the Philippine uplands: an inventory and assessment. Phil Lumberman. Oct. 1988.
- Lasco, R.D. and E.P. Malinao. 1988. Climatic and edaphic site characterization of Pagakalinawan, Jalajala, Rizal. Learning Site Series No.4 in Social Forestry. UPLBCF.
- Lasco, R.D. and E.P. Malinao. 1988. Soil texture analysis of upland soils in Pagkalinawan, Jalajala, Rizal. Learning Site Series No.4 in Social Forestry. UPLBCF.
- Lasco, R.D. 1989. Agroforestry: old practice, new hope. *Agriscopes Magazine*. 3(3): 24-26.
- Lasco, R.D. 1987. Agroforestry systems design and development: the model principle. *Canopy Intl* 13(6)6-7.
- Lasco, R.D. 1987. A comparative study of two agroforestry systems in Pagkalinawan, Jalajala, Rizal, Occasional Paper No. 10 in Social Forestry.
- Lasco, R.D. 1986. A case study of two upland vegetable farms in Mt. Trail, Benguet (An Agroforestry Perspective). Occasional Paper No. 9 in Social Forestry. UPLBCF.

Lasco, R. D. 1986. Agroforestry and its role in social forestry. Occasional Paper No. 6 in Social Forestry. UPLBCF

Lasco, R.D., T. Rambo, N. Bassig, T. Sto. Domingo. 1982. "A case study of two kaingin farmers in the Masalukot upland community". In, Man-environment Interactions: Case Studies of the Masalukot Upland Community. PESAM, UPLB. (Also published in *PESAM Bull* 5(4):6-10).

CONSULTANCY EXPERIENCE

- CDM Specialist. Laguna Carbon Project. The World Bank. January to April 2004.

Developing energy and landuse projects for the Community Development Carbon Fund (CDCF) and the Clean Development Mechanism (CDM) of the Kyoto Protocol.
- International Team Leader. Carbon Sequestration Through The CDM For Indonesia (ADB Project). Winrock International, Indonesia. March-December 2004. Provided overall leadership to the project in developing PDDs for LULUCF projects
- Climate Change Expert. CARE International- East Timor. June and November 2003.

Developed carbon assessment protocol for the community-based carbon sequestration project. Estimated carbon sequestration potential of the project.
- Climate Change Expert. Conservation International. August 2001-November 2001.

Prepared feasibility study on establishing forestry carbon sequestration project in Isabela province.
- Agroforestry Specialist. Southern Mindanao Integrated Coastal Zone Management Project. DENR-Region 11. February 2001- present.

Provides technical assistance in agroforestry and silviculture to the project.
- Consultant. UN Framework Convention on Climate Change (UNFCCC) Secretariat. Bonn, Germany. February to March 2000.

Analyzed greenhouse gas inventories on landuse change and forestry of Annex I (developed) countries.
- Climate Change Expert/Team Leader. Determination of Carbon Storage and Sequestration of the PNOC Geothermal Reservation in Leyte, Philippines. PNOC. March 1998- June 1999.

Lead consultant in the estimation of the potential of the forest reserve to store and sequester carbon dioxide from a geothermal power plant. The study is part of the Global Environmental Facility grant to PNOC.

- Agroforestry Specialist. Mid-term evaluation of the Northern Sierra Madre Conservation Project. Royal Netherlands Embassy, Makati City. November 1998.

Together with a team of consultants, evaluated progress of the project designed to conserve the terrestrial and marine biodiversity of the northern Sierra Madre located in Isabela province. Project components include community development, biodiversity conservation and livelihood development with strong participation of LGUs and NGOs.
- Agroforestry Specialist. Final external evaluation of the SAFER project. Royal Netherlands Embassy, Makati City. August-September 1998.

Evaluated the accomplishments and outputs of a sustainable agriculture and forestry project designed to conserve the Philippine eagle in several provinces in Mindanao. The main approach of the project is rural community development through organizing and livelihood activities.
- Agroforestry Specialist. Master planning of the Caliraya-Lumot watershed. National Power Corp. (NPC). May 1998-April 1999.

As part of an inter-disciplinary team, assess farming systems in the watershed and formulates 25-year plan in consultation with LGUs and POs.
- Environmentalist. Master Development Plan of the Liguasan Marsh (Cotabato and Maguindanao). MEMSI/PLANADES. October 1997 to April 1998.

Formulated plan for the conservation of forest and watershed areas in and around the Liguasan Marsh as part of an overall plan to develop the area.
- Team Leader/Agroforestry Expert. Preparation of TOR for the Cebu Water Resources Master Plan (CIDA). REECS. January-March 1997.

Coordinated the preparation of a comprehensive terms of reference for the preparation of a master plan for water resources development in Cebu.
- Agroforestry Expert/Silviculturist. Feasibility study of OECF projects in two watersheds in Mindanao. OECF. January-March 1997.
- Environmental Standards Specialist. Forest Resources Management Project (World Bank)- Bangladesh. MADECOR. October 1995, April-June 1996.

Developed environmental standards and guidelines for forestry operations in Bangladesh.
- Environmental and forestry expert. Conducted a 10-day assessment of the most important environmental issues in Vietnam. SEARCA. July 18-28, 1995.
- Environmental Management Specialist/Forest Ecologist. Natural Resources Management Program (USAID-DENR) Monitoring and Assessment Component. Winrock Intl., Arkansas, USA. May 1992-December 1995.

Monitored and assessed the performance of the DENR in the implementation of the policy actions agreed upon. Conducted environmental assessment of policy actions. Performed policy analysis on old-growth forests, residual forest management and community forestry program.

- Environmentalist. Agricultural Policy Research and Advocacy Assistance Program (USAID). UPLB Foundation Inc. January- May 1995.

Analyzed the critical environmental concerns for the island of Mindanao and formulated strategies to address them as part of a comprehensive plan for the economic development of Mindanao.

- Vegetation specialist. Environmental impact assessment of the Mauban coal-fired power plant. BHP Engineering (Philippines). January 1995.

Identified and analyzed the impacts of the construction of a coal-fired power plant on terrestrial vegetation. Recommended mitigating measures to eliminate or minimize impacts of the project.

- Watershed management specialist. Bicol River Basin Flood Control and Irrigation Development Project. Asian Development Bank (through OI DCI). December 1991 to March 1992.

Prepared NGO-assisted and community-based watershed development plan for four pilot sites in Camarines Sur and Albay to be used as learning sites to generate lessons for a comprehensive watershed development of the Basin.

- Team Leader/Agroforestry expert. Preparation of feasibility study for rural communities bamboo plantations (DENR). SEA-BMB Consultants, Inc. January 1990 to November 1990.

Coordinated a team of biophysical and socio-economic scientists in conducting a feasibility study of establishing community-based bamboo plantations in four upland areas in the Philippines.

- Team Leader/Environmentalist. Environmental impact assessment of the UPLB-PTA Makiling Botanic Gardens Project. Phil. Tourism Authority. March 1991.

Coordinated a multidisciplinary team composed of biophysical and socio-economic scientists in the conduct of an environmental impact assessment of the development of Makiling Botanic Gardens into a tourism center.

- Consultant. Conduct of environmental impact assessment for Lagen Island, El Nido, Palawan. Ten Knots Corp. April 1990.

As part of an multidisciplinary team, conducted assessment of the impacts on forest vegetation and the watershed area of developing Lagen island into a tourist resort.

- Silviculturist/Agroforestry expert. Ganano Watershed Development Project (DENR) SEA-BMB. August 1989 - November 1989.

As silviculturist/agroforestry specialist, prepared a developmental plan for forest resources in Ganano watershed, Quirino province.

- Consultant (Nursery and plantation management). Regional Clonal Nursery Project.(RRDP/DENR). UPLB Foundation Inc. (Jan. 1989- September 1991).

Assisted in project conceptualization and implementation of nurseries, species trials and clonal orchards in seven regions throughout the Philippines. Led the production of a nursery manual from project experiences.

- Consultant (on-call). Agroforestry Technical Assistance Program to the Don Mariano Marcos Memorial State University, Technical Panel for Agricultural Education (TPAE), DECS. October 1987- 1990.

With a group of experts from the UPLB, prepared an agroforestry curriculum for DMMMSU and drafted staff development plan.

- Agroforestry expert. Agroforestry systems in the Philippine uplands. F/FARM Study. The World Bank .September to December 1987.

Prepared a paper on agroforestry systems in the Philippines for use in the F/FARM study.

- Consultant. Packaging of technical proposals entitled, "Sogod Agroforestry Project" and "Regional Clonal Nursery Project" for the RRDP(DENR), UPLB Foundation. October 1987 to August 1988.

Prepared proposals for submission to DENR.

ADMINISTRATIVE FUNCTIONS

- Philippines Programme Coordinator. World Agroforestry Centre (ICRAF). April 2004 to present.
- Director, Environmental Forestry Programme (ENFOR), College of Forestry and Natural Resources, UPLB (March 1997- March 2001)
- Associate Dean. College of Forestry and Natural Resources, UPLB (January 1996- November 1998).
- Program Development Associate. Office of the Vice-Chancellor for Planning and Development, UPLB. April 1994 to October 1999.
- Officer-in-Charge. Office of the Vice Chancellor for Planning and Development. UPLB. November 1994 to January 1995.
- Chairman. Department of Silviculture and Forest Influences Department, UPLB-CF. February 1992 to January 1995.
- Research Division Coordinator. UPLB Program for Agroforestry. June 1991- December 1995.

- Program Development Assistant, Program Development Staff, Office of the Vice-Chancellor for Planning and Development, U.P. at Los Banos, April 1987- August 1988; November 1989 to Dec. 1990.

PROFESSIONAL ASSOCIATIONS/ORGANIZATIONS

1. Member, Phi Kappa Phi Honor Society
2. Member, Philippine Forestry Research Society
3. Member, East-West Center Alumni Association
4. Member, Philippine-Japan Fellows Association
5. Member, UPLB Alumni Association