RESUME

OF

PAUL L.G. VLEK

PERSONAL DATA

NAME:	Paul L.G. Vlek
BIRTH DATE:	January 2l, l948
PLACE OF BIRTH:	Amsterdam, The Netherlands
CITIZENSHIP:	Dutch
MARITAL STATUS:	Married, two children
WIFE:	Melissa Ann Vlek-Gentle, RN, American
LANGUAGES:	Read, Write and Converse in Dutch, German, French and English

EDUCATION

DEGREE	SCHOOL	LOCATION	MAJOR
Ph.D. (l976)	Colorado State University	Fort Collins, Colorado	Soil Chemistry Plant Nutrition
M.S. (l972)	State Agric. University	Wageningen The Netherlands	Soil Chemistry Tropical Soils

DISSERTATION

Ph.D. "Chemistry, Mobility, and Availability of Molybdenum in Colorado Soils"

PUBLICATIONS

Over 150 scientific contributions in refereed Journals. See attached list.

EMPLOYMENT RECORD

April 1998 to present Full professor and Director, Dept. of Ecology and Natural Resources of the Center for Development Research (ZEF-Bonn) at the University of Bonn. ZEF-Bonn is a recently established (1997), federally funded inter-disciplinary research and teaching (Ph. D. level) institute concerning sustainable development issues. Member of the Faculty of Agriculture as well as the Faculty of Sciences. The Center has an annual budget of $ 6 million, 30% of which is core funding. (www.ZEF.de)

June 1990 to April 1998 Full Professor and Director, Institute of Agronomy in the Tropics, Georg-August-University, Goettingen, Germany. Tought courses in Tropical and Subtropical Agroecology and Food and Horticultural Crop Production, and led the institute with six permanent staff members and about 15 Ph.D. students employed in various collaborative projects overseas. The Institute addresses aspects of sustainable agriculture and natural resource management.

January 1997 to April 1998 Initiator and speaker (PI) of the Special Research Institute (SFB 1687) related to the "stability of the tropical rainforest margin", involving 20 coleagues from University of Göttingen and Kassel and 20 counterpart professors from the University of Bogor and Palu, Indonesia.

April 1994 to April 1995 Dean, Faculty of Agriculture, Georg-August-University. Rotational appointment. Responsible for 11 institutes and 4 experiment stations with 47 Full-Professor positions and 300 scientific and support staff members. Ultimate responsibility for research and teaching as well as administrative and financial management. The faculty also maintains a Center for Tropical Agriculture and a Center for Agriculture and the Environment. In charge of developing a strategic plan "2000+" and restructuring of the school of Agriculture and preparation of the B. Sc. /M. Sc. curriculum.

August 1986 to June 1990 Director, International Fertilizer Development Center, Africa. Established a new center for fertilizer development to serve sub-Saharan Africa with Headquarters in Togo. Responsibilities included program development, fund raising, staffing, governmental liaison, and general administration and management. The Center serves as a branch of IFDC and reached a budget of over US$ 4 million/year from 9 donors and 25 international staff members. Programs involve research, training and technical assistance covering all aspects of the fertilizer sector.

December 1983 to August 1986 Director, Agro-Economic Division. Developed and managed research programs in the areas of soil science, economics, sociology, related to fertilizers and food production. Collaborative projects were developed in Asia, Africa and Latin America, mostly with Centers of the CGIAR.The Agro-Economic Division comprised a total of 23 Ph.D. staff members, located at various CGIAR centers and at Headquarters.

August 1976 to December 1983 Research Leader, Nitrogen Program, Agro-Economic Division, IFDC. In charge of developing a new program on the behavior of fertilizer nitrogen in tropical cropping systems. Major initial efforts were directed toward identifying loss mechanisms of N-fertilizers in soil, and nitrogen uptake by rice. Programs were developed with IRRI, ICRISAT, IITA, and ICARDA. Five Ph.D. staff members were involved in the project by April 1982 with financial support from USAID, UNDP, IFAD, and DGIS.

January 1976 to August 1979 Soil Scientist, Agro-Economic Division, IFDC. Responsible for initiating a research program on nitrogen fertilizers for rice. The program involved projects in the Philippines (IRRI), Korea (IAS), and India (ICAR).

November l972 to December 1975 Graduate Research, Assistant, Colorado State University. Associated with the NSF-Rann "Molybdenum Project" of Colorado University and Colorado State University. Working on soil chemistry of molybdenum, studying the mode of fixation, rate of accumulation in soils, and availability to forage crops of molybdenum derived from molybdenum mine tailings. Thesis led to the adoption of Mo limit in surface water by EPA.

April l970 to December 1971 Graduate Research Assistant, State Agricultural University, Wageningen, The Netherlands. Associated with Acid Sulphate Soil Project financed by WOTRO (Dutch NSF). Studied the genesis of acid sulphate soils of the Bangkok Plain in Thailand with N. van Breemen.

PROFESSIONAL ACTIVITIES & HONORS

- Fellow, Soil Science Society of America (2008)
- Member Standing Panel for Monitoring and Evaluation of the Science Council of the CGIAR. (2006-)
- Chair Division A6, American Society of Agronomy (2003/2004)
- Fellow American Society of Agronomy (2004-)
- Fellow, Indian Academy of Agricultural Sciences (2003 -)
- Member Evaluation Committee Helmholtz Scientific Society, Germany (2003)
- Chair of the CGIAR External Program Review Committee (EPR) of ICRISAT (2003)
- Member of the CGIAR Review Panel for the Sub-Saharan Africa Challenge Program (2006)

- Member/treasurer Scientific Committee, International Human Dimension Program (IHDP). (2002 - 2006)
- Member National Committee on Global Change Research, Ministry of Science, Germany (2003 -)
- Member National Science Advisory Committee, Ministry of Development Cooperation, Germany (2005-)
- Member Jury of the Eiselen Foundation Price (Joseph Knoll) (2000-)
- Member Evaluation Committee of “Plant Science International”, and “Plant Research Institute” Wageningen, The Netherlands (2001/2006)
- Member of selection committee for Ph. D. scholars from Africa. German Echange Service (DAAD) (1995 – 2006).
- Member Evaluation and Selection Committee 2005 CGIAR Science Awards
- Member Advisory Board for International Agricultural Research (BEAF), Ministry of Development Cooperation, Germany (1995-2003)
- Elected member of the University Senate, Georg-August University, Goettingen, Germany (1995-1997)
- Member of the Board of Directors (Kuratorium), German Foundation for Development (DSE) (1995 - 2001)
- Board member "Centro Internacional de Agricultura Tropical" (CIAT), Cali, Colombia (1992-1998)
- Member of the International Advisory Board of the C.T. de Wit Graduate School of Production Ecology. Wageningen Agricultural University (1994-2004)
- Editor in chief of "Fertilizer Research", now: „Nutrient Cycling in Agroecosystems“ Springer Publ. (1990- present)
- Associate Editor of "Agronomy Journal", American Society of Agronomy (l98l-l986)
- Editor of Applied Botany (1991-2006)
- Editor of Basic and Applied Ecology (2000 -)
- Editor of Agronomy and, Crop Science and (1993 -)
- Consultant to the World Bank in Rwanda, Madagascar and Burundi (1986/87)
- Member evaluation committee of the Science Technology and Development (STD2) program (100 million ECU) of the European Community
- Co-recipient of the 1993 price for international university cooperation in recognition of the establishment of a collaborative masters of science program in Agro-Forestry between the University of Bogor and the University of Göttingen. Awarded by the Council of University Presidents, Germany
- Major advisor of 18 Ph.D. students that finnished at the university of Goettingen and 34 at the University of Bonn. Currently supervising 18 Ph. D. students at the University of Bonn.
- Adjunct Assistant Professor, University of Florida, Gainesville, Florida (1979-1985)
- Member of Soil Science Curriculum Committee, State Agricultural University, Wageningen, The Netherlands (1968-1972)
- Member and chairman of Graduate Student Council, Colorado State University (1973-1975)

PUBLICATIONS

1. Vlek, P.L.G., Th.J.M. Blom, J. Beek, and W.L. Lindsay. 1974. Determination of the Solubility Product of Various Iron Hydroxides and Jarosite by the Chelation Method, Soil Science Society of America Proceedings 38 (3): 429-432.

2. Vlek, P.L.G., and W.L. Lindsay. 1977. Thermodynamic Stability and Solubility of Molybdenum Minerals in Soils, Soil Sci. Soc. Am. J. 41: 42-46.

3. Vlek, P.L.G., and W.L. Lindsay. l978. Potential Use of Finely Disintegrated Iron Pyrite in Sodic and Iron-Deficient Soils, Journal of Environmental Quality 7: 111-114.

4. Lindsay, W.L., and P.L.G. Vlek. 1977. Phosphate Minerals, **In**: Minerals in Soil Environments, p. 639-670, J.B. Dixon and B.S. Weed, Eds., Soil Sci. Soc. Am., Inc., Madison, Wisconsin.

5. Vlek, P.L.G., and J.M. Stumpe. 1978. Effects of Solution Chemistry and Environmental Conditions on Ammonia Volatilization Losses from Aqueous Systems, Soil Sci. Soc. Am. J. 42: 4l6-421.

6. Vlek, P.L.G., and E.T. Craswell. l978. Effect of Nitrogen Source and Management on Ammonia Volatilization Losses from Flooded Rice Soil Systems, Soil Sci. Soc. Am. Proc. 43: 352-358.

7. Vlek, P.L.G., B.H. Byrnes, and E.T. Craswell. l980. Effect of Urea Placement on Leaching Losses of Nitrogen from Flooded Rice Soils. Plant and Soil 54: 441-449.

8. Vlek, P.L.G., C.W. Hong, and L.J. Youngdahl. l979. An Analysis of N Nutrition on Yield and Yield Components for the Improvement of Rice Fertilization in Korea. Agronomy Journal 7l: 829-833.

9. Tejeda, H.R., C.W. Hong, and P.L.G. Vlek. l980. Comparison of Modified Urea Fertilizers and Estimation of their availability Coefficient Using Quadratic Models. Soil Sci. Soc. Am. J. 44: 1256-1262.

10. Vlek, P.L.G., J.M. Stumpe, and B.H. Byrnes. 1980. Urease Activity and Inhibition in Flooded Soil Systems. Fertilizer Research 1: 191-202.

11. Vlek, P.L.G., I.R.P. Fillery, and J.R. Burford. l98l. Accession, Transformation and Loss of Nitrogen in Soils of the Arid Region. Plant and Soil 58: 133-175.

12. Bouwmeester, R.J.B., and P.L.G. Vlek. 198l. Rate Control of Ammonia Volatilization from Rice Paddies. Atmospheric Environment 15: 131-140.

13. Bouwmeester, R.J.B., and P.L.G. Vlek. 1981. Wind-Tunnel Simulation and Assessment of Ammonia Volatilization from Ponded Water. Agronomy Journal 73: 546-552.

14. Moeller, M.B., and P.L.G. Vlek. 1982. The Chemical Dynamics of Ammonia Volatilization from Aqueous Solution. Atmospheric Environment 16: 709-7l8.

15. Fillery, I.R.P., and P.L.G. Vlek. 1982. The Significance of Denitrification of Applied Nitrogen in Fallow and Cropped Rice Soils Under Different Flooding Regimes. Plant and Soil 65: 153-169.

16. Vlek, P.L.G., and E.T. Craswell. 1982. Ammonia Volatilization from Flooded Soils. Fertilizer Research 2: 227-245.

17. Vlek, P.L.G., and M.F. Carter. 1983. The Effect of Soil Environment and Fertilizer Modification on the Kinetics of Hydrolysis of Applied Urea. Soil Science 136: 56-63.

18. Osiname, O., H. van Gijn, and P.L.G. Vlek. 1983. The Effect of Nitrification Inhibitors on the Fate and Efficiency of Nitrogenous Fertilizers under Simulated Humid Tropical Conditions. Tropical Agriculture 60: 211-217.

19. Youngdahl, L.J., R. Pacheco, J.J. Street, and P.L.G. Vlek. 1982. The Kinetics of Ammonium and Nitrate Uptake by Young Rice Plants. Plant and Soil 69: 225-232.

20. El-Zahaby, E.M., S.H. Chien, N.K.Savant, P.L.G. Vlek, and A.U. Mokwunye. 1982. Effect of Pyrophosphate on Phosphate Sorption and Ammonia Volatilization by Calcareous Soils Treated with Ammonium Phosphates. Soil Sci. Soc. Am. J. 46: 733-740.

21. Craswell, E.T. and P.L.G. Vlek. 1983. Fate of Fertilizer Nitrogen in Flooded Systems, **In**: Gaseous Losses of Nitrogen from Plant Soil Systems. J. Simpson and J.R.Freney, Eds., Martinus Nijhoff Publishers. The Hague, The Netherlands.

22. Stumpe, J.M., P.L.G. Vlek, and W.L. Lindsay. 1984. Ammonia Volatilization from Urea and Urea Phosphates in Calcareous Soils. Soil Sci. Soc. Am. J. 48 (4): 921-927.

23. Bouwmeester, R.J.B., P.L.G. Vlek, and J.M. Stumpe. 1984. Effect of Environmental Factors on NH_3 Volatilization from a Urea-Fertilized Soil. Soil Sci. Soc. Am. J. 49 (2): 376-381.

24. Buresh, R.J., P.L.G. Vlek, and J.M. Stumpe. 1984. Labelled Nitrogen Fertilizer Research with urea in the Semi Tropics: I. Greenhouse Studies. Plant and Soil 80: 3-19.

25. Moraghan, J.T., T.J. Rego, R.J. Buresh, P.L.G. Vlek, J.R. Burford, S. Singh and K.L. Sahrawat. 1984. Labelled Nitrogen Fertilizer Research with Urea in the Semi-Arid Tropics: II.Field Studies on a Vertisol. Plant and Soil 80: 21-33.

26. Katyal, J.C., Bijay Singh, P.L.G. Vlek, and E.T. Craswell. 1985. Fate and Efficiency of Nitrogen Fertilizers Applied to Wetland Rice. II. Punjab, India. Fertilizer Research 6 (3): 279-290.

27. Craswell, E.T., S.K. De Datta, C.S. Weeraratne, and P.L.G. Vlek. 1985. Fate and Efficiency of Nitrogen Fertilizers Applied to Wetland Rice. I. The Philippines. Fertilizer Research 6 (1): 49-63.

28. Vlek, P.L.G., and I.R.P. Fillery. 1984. Improving Nitrogen Efficiency in Wetland Rice Soils. The Fertilizer Society Proceedings No. 230.

29. Godwin, D.C., C.A. Jones, J.T. Ritchie, P.L.G. Vlek, and L.J. Youngdahl. 1983. The Water and Nitrogen Components of the CERES Models. **In**: Minimum Data Sets for Agrotechnology Transfer. IBSNAT/ICRISAT, Hyderabad, India,.

30. Godwin, D.C., and P.L.G. Vlek. 1985. Simulation of Nitrogen Dynamics in Wheat Cropping Systems. **In**: Wheat Growth and Modeling, Editor, W. Day. NATO Advanced Research Series, pp 311-332.

31. Harmsen, K. and P.L.G. Vlek. 1985. "The Chemistry of Micronutrients in Soil". Fertilizer Research 7: 1-42.

32. Katyal, J.C., and P.L.G. Vlek. 1985. "Micronutrient Problems in Tropical Asia". Fertilizer Research 7: 69-94.

33. Leon, L.A., A.S. Lopez, and P.L.G. Vlek 1985. "Micronutrient Problems in Tropical Latin America". Fertilizer Research 7: 95-130.

34. Sillanpaa, M., and P.L.G. Vlek. 1986. Micronutrients and the Agro-Ecology of Tropical and Mediterranean Regions. Fertilizer Research 7: 131-150.

35. Fillery, I.R.P., and P.L.G. Vlek. 1986. Reappraisal of the Significance of Ammonia Volatilization as an N loss Mechanism in Flooded Rice Fields. **In**: Nitrogen Economy in Flooded Rice Soils. S.K. DeDatta and W.H. Patrick (Eds.) pp 79-99. Martinus Nijhoff Publishers, Dordrecht, The Netherlands.

36. Vlek, P.L.G., and B.H. Byrnes. 1986. The Efficacy and Loss of Fertilizer N in Lowland Rice. **In**: Nitrogen Economy in Flooded Rice Soils. S.K. DeDatta and W.H.Patrick, Jr. (Eds) pp 131-148. Martinus Nijhoff Publishers, Dordrecht, The Netherlands.

37. Singh, Bijay; J.C. Katyal, P.K. Malhotra, and P.L.G. Vlek. 1986. Path Coefficient Analysis of N Nutrition on Yield and Yield Components for Rice in a Highly Percolating Soil. Commun. in Soil Sci. Plant Anal. 17: 853-867.

38. Katyal, J.C., Bijay Singh, P.L.G. Vlek, and R.J. Buresh. 1987. Efficient N Use as Affected by Urea Application and Irrigation Sequence. Soil Sci. Soc. Am. J. 51: 366-370.

39. Carter M.F., P.L.G. Vlek, and J.T. Touchton. 1986. Agronomic Evaluation of New Ureaforms for Flooded Rice. Soil Sci. Soc. Am. J. 50: 1055-1060.

40. Katyal, J.C., Bijay Singh, and P.L.G. Vlek. 1988. Effect of Granule Size and the Placement Geometry on the Efficiency of Urea Supergranules for Wetland Rice Grown on a Permeable Soil. Fert. Res. 15: 193-201.

41. Cori, C.E. de, L.S. Holt, and P.L.G. Vlek. 1988. Destino del Nitrógeno Ureico Aplicado a un Tropaquept Arcilloso, bajo Condiciones Similadas de Arroz en Siembra Directa ("Fate of urea nitrogen applied to a clayey Tropaquept, under simulated conditions in direct seeded rice"). Turrialba 38 (4): 294-299.

42. Katyal, J.C., M.F. Carter, and P.L.G. Vlek. 1988. Nitrification Activity in Submerged Soils and Its Relation to Denitrification Loss. Biology and Fertility of Soils 7: 16-22.

43. Stumpe, J.M., P.L.G. Vlek, S.K. Mughogho, and F.Ganry. 1989. Microplot Size Requirements for Measuring Balances of Fertilizer ^{15}N Applied to Maize. Soil Sci. Soc. Am. J. 53: 797-800.

44. Buresh, R.J., P.L.G. Vlek, and K. Harmsen. 1990. "Fate of fertilizer nitrogen applied to wheat under simulated Mediterranean environmental conditions". Fertilizer Research 23: 25-36.

45. Mughogbo, S.K., C.B. Christianson, J.M. Stumpe, and P.L.G. Vlek. 1990. "Nitrogen Efficiency at three sites in Nigeria as affected by N Source and Management". Trop. Agric (Trinidad) Vol.67: 127-132 April.

46. Vlek, P.L.G. 1990. The role of fertilizers in sustaining agriculture in sub-Saharan Africa. Fertilizer Research 26: 327-339.

47. Christianson, C.B., A. Bationo, J. Henao, and P.L.G. Vlek. 1990. Fate and efficiency of N fertilizers applied to pearl millet in Niger. Plant and Soil 125: 221-231.

48. Stumpe, J.M., and P.L.G. Vlek. 1991. Acidification induced by different nitrogen sources in columns of selected tropical soils. Soil Sci. Soc. Am. J. 55: 145-151.

49. Christianson, C.B., and P.L.G. Vlek. 1991. Alleviating soil fertility constraints to food production in West Africa: Efficiency of nitrogen fertilizers applied to food crops. Fertilizer Research 29: 21-33.

50. Hong, C.W., J.C. Katyal and P.L.G. Vlek. 1992. "Losses and Utilization of Nitrogen by Sorghum as Affected by the Depth of a Swelling Clay Soil". J. Agronomy and Crop Science 168: 263-271.

51. Manske G.G.B., A.B. Lüttger, R.K. Behl, and P.L.G. Vlek, 1995. Nutrient Efficiency Based on VA Mycorrhizae (VAM) and Total Root Length of Wheat Cultivars Grown in India. Angew. Bot. 69, 108-110

52. Vlek, P.L.G., M.Y. Diakite, and H. Mueller. 1995. "The Role of Azolla in Curbing Ammonia Volatilization from Flooded Rice Systems". Fertilizer Research 42: 165-174.

53. Vlek, P.L.G. 1993. "Strategies for Sustaining Agriculture in sub-Saharan Africa: The Fertilizer Technology Issue". In: Technologies for Sustainable Agriculture in the Tropics. (Ragland, J. and R. Lal, Eds). ASA Special Publication No 56. pp 265-278. Madison, WI, USA.

54. Vlek, P.L.G. 1995. The soil and its artisans in sub-Saharan African agriculture. Geoderma 67: 165-170.

55. Vlek, P.L.G., R.F. Kühne, and M. Denich. 1997. Nutrient resources for crop procution in the tropics. Phil. Trans. R. Soc. Lond. B 352: 975-985.

56. Sanetra, C.M., O. Ito, S.M. Virmani, and P.L.G. Vlek. 1998. Remobilization of nitrogen from senescing leaves of pigeonpea (Cajanus cajan (L.) Millsp.): genotypic differences across maturity groups. J. Exp. Bot. 49 (322): 853-862.

57. Wick, B., R.F. Kühne, and P.L.G. Vlek. 1998. Soil microbiological parameters as indicators of soil quality under improved fallow management systems in south-western Nigeria. Plant and Soil 202: 97-107, 1998.

58. Gehring, Chr., M. Denich, M. Kaneshiro and P.L.G. Vlek 1999. Response of secondary vegetation in Eastern Amazonia to relaxed nutrient availability constraints. Biogeochemistry 45:223-241.

59. Kato, M.S.A ., O.R. Kato, M. Denich and P.L.G. Vlek. 1999. Fire-free alternatives to slash-and-burn for shifting cultivation in the eastern Amazon region: the role of fertilizers. Field Crops Research 62:225-237.

60. Egle, K., G. Manske, W. Roemer and P.L.G. Vlek. 1999. Improved phosphorus efficiency of three new wheat genotypes from CIMMYT in comparison with an older Mexican variety. J. Plant Nutr. Soil Sci. 162: 353-358.

61. Mandal, B., P.L.G. Vlek and L.N. Mandal. 1999. Beneficial effects of blue-green algae and Azolla, excluding supplying nitrogen, on wetland rice fields: a review. Biology & Fert. of Soils 28: 329-342.

62. Denich, M., M. Kanashiro and Paul L.G. Vlek. 2000. The potential and dynamics of carbon sequestration in traditional and modified fallow systems of the eastern Amazon region, Brazil. In: Global climate change and tropical ecosystems. R. Lal, H. Eswaran, J.M. Kimble and B. A. Stewart (Eds.) Lewis Publishers CRC press, Boca Raton, Fl. USA.

63. Bationo, A., Wani, S.P., Bielders, C.L., Vlek, P.L.G. and Mokwunye, A.U. 2000. Crop Residue and Fertilizer Management to Improve Soil Organic Carbon Content, Soil Quality and Productivity in the Desert. In: Global climate change and tropical ecosystems. R. Lal, H. Eswaran, J.M. Kimble and B. A. Stewart (Eds.) Lewis Publishers CRC press, Boca Raton, Fl.USA.

64. Sommer, R., M. Denich and P.L.G. Vlek 2000. Carbon storage and root penetration in deep soils under small-farmer land-use systems in the Eastern Amazon region, Brazil. Plant Soil 219: 231-241

65. Lange-Ness, Ricardo and Paul L.G. Vlek. 2000. Mechanism of calcium and phosphate release from Hydroxy-Apatite by mycorrhizal hyphae. Soil Sci. Soc. Amer. J. 64: 949-955

66. Gorfu, Amanuel, R.F. Kuehne, D.G. Tanner and P.L.G. Vlek. 2000. Biological nitrogen fixation in Faba bean (Vicia faba L.) in the Ethiopian highlands as affected by P fertilization and inoculation. Biol. Fert. Soil 32:1-7.

67. Manske, G.G.B., J.I. Ortiz-Monasterio, M. van Ginkel, R.M. González, S. Rajaram, E. Molina and P.L.G. Vlek. 2000. Traits associated with improved P-uptake efficiency in CYMMIT's semidwarf spring bread wheat grown on an acid Andisol in Mexico. Plant Soil 221(2): 189-204.

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69. Martius. C., H. Tiessen, and P.L.G. Vlek. 2001. The management of organic matter in tropical soils: what are the priorities? Nutrient Cycl. In Agroecosystems. 61: 1 – 6

70. Gole., T:W., M. Denich, D. Teketay and P.L.G. Vlek. 2002. Human impact on the *Coffea arabica* genepool in Ethiopia and the need for its *in situ* conservation. **In.** (Eds. Engels, Rao, Brown and Jackson). Managing plant genetic diversity. CAB International Ch 23: 237- 247.

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75. Giesen, N. van de, H. Kunstmann, G. Jung, J. Liebe, M. Andreini and P.L.G. Vlek, 2002. The GLOWA-Volta project: Integrated assessment of feedback mechanisms between climate, landuse, and hydrology. *Advances in Global Change Research*, Vol 10: 151-170

76. Park, S.J. and P.L.G. Vlek. 2002. Soil-landscape analysis as a tool for sustainable land management. Geogr. J. Korea. 36: 31-49.

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80. Gorfu, A., R.F. Kuehne, D.G. Tanner and P.L.G. Vlek. 2003. Recovery of 15N-labelled urea applied to wheat (*Triticum aestivum* L.) in the Ethiopian highlands as affected by P fertilization. J. Agronomy & Crop Science 189, 30 – 38.

81. Cissé, M and P.L.G. Vlek. 2003. Conservation of urea-N by immobilization-remobilization in a rice-Azolla intercrop. Plant Soil 250: 95 -104.

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86. Wassmann R, and P.L.G. Vlek. 2004. Mitigating greenhouse gas emissions from tropical agriculture: Scope and Research Priorities. Environment, Development and Sustainability 6(1-2): 1-9.

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