

# **CURRICULUM VITA: DAVID W. NORMAN**

## **PERSONAL**

Born: January 5, 1939  
Place: Eastbourne, Sussex, England  
Nationality: UK -- Permanent resident USA (Green Card Holder)  
Rest of family US or dual US/UK citizens  
Present Address: Private:  
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## **EDUCATION**

Universities: Oregon State University, Corvallis, Oregon, U.S.A. 1962-65  
M.S. August 1963  
Ph.D. September 1965  
Ontario Agricultural College, Toronto University, Ontario, Canada, 1961-62  
Wye College, University of London, England, 1958-61,  
B.Sc. June 1961  
NDA July 1961  
Secondary Grammar School: Lewes, Sussex, England  
Advanced Level G.C.E. (3 subjects), July 1957  
Ordinary Level, G.C.E. (7 subjects), July 1955  
Primary School: Chailey, Sussex, England

## **EMPLOYMENT**

Sept. 2007-Present  
Professor Emeritus, Kansas State University

Dec. 1990-Aug. 2007  
Continuation of appointment as Professor, Kansas State University

*At Kansas State University duties consisted of both teaching (International Agricultural Development, Production Economics, Global Agricultural Economy: Hunger and Poverty and Farming Systems Approach to Agricultural Development) and research/development (Farmer Based Research, Sustainable Agriculture, Farming Systems Research and Extension). Domestic research concentrated on investigating the potential for greater incorporation of farmers into the research process, and on the development of indicators of sustainability that can be used by farmers. Also was Major Professor to a large number of students at both the MS and PhD levels from many countries. Actual involvement overseas continued, particularly in an advisory capacity, in many countries, particularly in Africa and Asia including the South Pacific. Many of these activities, in addition to invited presentations at meetings/symposia/workshops, and running training courses, consisted of designing and evaluating research projects and programs which*

are donor funded either in conjunction with national programs or through international organizations or agricultural research centers. Agencies funding these types of assignments included governments (e.g., Netherlands, British, USAID), foundations (e.g., Ford and Rockefeller), and international agencies (e.g., FAO, UNDP, World Bank, and the CGIAR system). Most of the assignments involved consultancy fees which accrued to Kansas State University. Have been to about 80 countries, often on short-term assignments.

1982-1990 Chief of Party, Agricultural Technology Improvement Project, Sebele, Botswana (MIAC/USAID Contract with Kansas State University as Lead Institution).

*This project, located in the Department of Agricultural Research, Ministry of Agriculture, was completed in September 1990. It was a \$12,900,000 (including a 25% Botswana contribution) eight year project involving implementation of a farming systems research program in two areas of eastern Botswana. Substantial long, short, and in-service training was involved, with the aim of eventually institutionalizing farming systems research in Botswana. Towards the end of the project the Government of Botswana made a decision to institutionalize farming systems research within the country. A team of seven long-term US technicians were involved representing agronomic, animal science and agricultural economic disciplines, and also agricultural extension. Also the project provided local support costs for three US technicians funded under two CRSPs (INTSORMIL and Bean/Cowpea). Linkage activities have continued since the end of the project.*

1976-1982 Kansas State University, Manhattan, Kansas, U.S.A. (Promoted from Associate Professor to Professor in 1978)

*During this period when was resident at Kansas State University itself, taught in the area of International Agricultural Development and supervised a number of graduate students. Also had a leadership position in implementing a Strengthening Grant with the emphasis on Farming Systems Research and the initiation of the Annual Farming Systems Symposia which later evolved into the International Association for Farming Systems Research and Extension (AFSRE, now called the International Farming Systems Association (IFSA). The Ford Foundation gave a grant to write a book on Nigeria, and work involved traveling extensively in Asia, Latin America and Africa on consultancies, attending workshops and seminars, etc. Any consultancy fees were fed back to supporting research at Kansas State University. Agencies for which work was done included CGIAR institutions, IDRC, USAID, World Bank, Michigan State University-USAID contracts, and others.*

1965-1976 Ahmadu Bello University, Zaria, Nigeria:

*The Rural Economy Research Unit was set up in 1965 with a \$300,000 Ford Foundation grant to initiate socio-economic research in the Institute of Agricultural Research, Ahmadu Bello University. Work involved surveys and trials on farmers' fields, sometimes in cooperation with technical scientists in the institute. Later the approaches used evolved into what eventually became known as Farming Systems Research and Extension (FSRE). The Faculty of Agriculture in the university was organized in a similar way to a Land Grant Institution in the USA. Thus, the Department of Agricultural Economics and Rural Sociology had both teaching and research responsibilities. During the 11 year association with Ahmadu Bello University, the university grew from 800 to 10,000 students, and degree-level staff in the department from three, all expatriates, to about 25, most of whom were Nigerian -- many of MS level and some of Ph.D. level. Many of the Nigerian staff were trained at the graduate level with either USAID funds or*

*with funds under the Ford Foundation grant. Also during that period a B.Sc degree in Agriculture, initially offered in 1963, evolved to a more specialized degree with a number of options including Agricultural Economics and Rural Sociology. Also, towards the end of the period an MSc degree in Agricultural Economics and Rural Sociology was implemented in collaboration with the University of Ibadan. During the association with Ahmadu Bello University was funded at different times by the Nigerian and British Governments, Ford Foundation and under the Kansas State University contract. Also, during that period had substantial responsibilities in designing, guiding and implementing research and teaching programs in a rapidly growing department. Administration tasks were also a major responsibility since was acting/substantive head of the department for eight years.*

Period	Ahmadu Bello University	Kansas State University (KSU/USAID Contract)
1973-76	Professor, and Head, Department of Agricultural Economics and Rural Sociology	Associate Professor
1971-72	Reader, Head of the Rural Economy Research Unit, and Acting Head, Department of Agricultural Economics and Rural Sociology	Associate Professor
1968-70	Senior Lecturer, Head of Rural Economy Research Unit, and Acting Head, Department of Agricultural Economics and Rural Sociology	Assistant Professor
1965-68	Research Fellow, Rural Economy Research Unit	No connection

- 1962-1963      Research Assistant, Oregon State University, Corvallis, Oregon, U.S.A.
- 1961-1962      Teaching Assistant, Ontario Agricultural College, Guelph (i.e., University of Toronto), Canada.
- 1960 (Sum)      Wye College, University of London Expedition to High Atlas Mountains in Morocco.
- 1959 (Sum)      Farm Laborer, Tyrol, Austria.
- 1957-1958      Farm Laborer, Firle, Sussex, England.

## **HONORS/RECOGNITION**

- 2012-13      Inducted as a Super Professor, Faculty Row.
- 2010          Inducted as a Distinguished Fellow of the African Association of Agricultural Economics.
- 2007          Appointed Adjunct Professor of Agricultural Economics, Gansu Agricultural University, China.  
                  Received the Kansas State University Gamma Sigma Delta Distinguished Graduate Faculty Award.
- 2005-06      Commerce Bank Presidential Award for Distinguished Service to Minority Students Faculty/Staff Finalist.

2004	Received the 2004 Commerce Bank/Kansas State University Distinguished Graduate Faculty Award.
2003	Received first Kansas State University International Education Award.
2002	Received a Special Award by the International Farming Systems Association (IFSA) for "Outstanding scientific contributions, dedication and commitment to farmers and communities worldwide".
2000 (Spring)	Received the Faculty of the Semester Award, Faculty of Agriculture, KSU.
1999 and 2000	Nominated for the World Food Prize.
1997	Fellow, Royal Society of Arts (FRSA), UK.
1994	Best Speaker, Session 3, Conference for Developing Areas, Olifantsfontein, South Africa, 1st-3rd March.
1993	Sigma Xi.
1992-93	Board Member of the Association of Farming Systems Research and Extension.
1992-93	President, Association of Farming Systems Research and Extension (AFSR/E – now IFSA).
1991-92	President Elect, Association of Farming Systems Research and Extension (AFSR/E).
1990	Ranking by citation counts of agricultural economics faculty in USA academia, 1966-1988. Ranked 15th out of 776 US-based agricultural economists. [Study done by G.L. Gregory and D.W. Adams, Ohio State University. Has not been updated since then].
1980-81	MASUA Honor Lecturer.
1965	Phi Kappa Phi.

## ***TEACHING AND STUDENTS***

At Kansas State University have taught courses at the undergraduate and graduate level on "Global Agricultural Economy, Hunger and Poverty", "International Agricultural Development", "Farming Systems Approach to Sustainable Development" and "Production Economics".

Excluding the 20 years in Africa, have been major professor for MS and PhD students from many countries (e.g., Costa Rica, Botswana, India, Kenya, Senegal, Uganda, Tanzania, Uzbekistan, USA, etc.). Unfortunately records have not been but the number is likely to be at least 50. Also have served on many thesis and dissertation committees of other MS and PhD students – estimate probably another 100.

## ***COMMITTEES AND BOARDS***

Served on many committees, in and outside the university, relating to professional and administrative matters. With reference to the latter these have usually been associated in some way with the international dimension. Also served as Adviser to the African Student Union at Kansas State University for a number of years (about 12).

## **LIST OF PUBLICATIONS**

List includes by year:

Section A: Papers published.

Section B: Project and consultancy papers.

Section C: Unpublished conference, workshop papers, reports including trip reports, and drafts, Etc.

### **A. PAPERS PUBLISHED**

#### YEAR: 1964

1. (With Korzan, G.E. and J.A. Edwards). "Economic analysis of beef cattle prices in the United States and Oregon". *Agricultural Experiment Station Bulletin* No. 194. Corvallis: Oregon State University. 23 p.

#### YEAR: 1967

2. "Preliminary observations of demographic characteristics, size of holding and mode of tenure relationships in Hanwa village, Zaria Province". *Bulletin of Rural Economics and Sociology*, 2(2):99-113.
3. "Land and Labour relationships in three Zaria villages". *Samaru Agricultural Newsletter*, 9:3 (June, 1967). pp. 28-35.
4. "An economic study of three Zaria Province villages. Part I. Land and labour relationships". *Samaru Miscellaneous Paper* No. 19. Zaria: Ahmadu Bello University, Nigeria. 84 p.
5. "An economic study of three Zaria Province villages. Part 3. Maps". *Samaru Miscellaneous Paper* No. 23. Zaria: Ahmadu Bello University, Nigeria.
6. (With E. M. Castle). "Geography and agricultural income; an additional hypothesis". *Journal of Farm Economics*, 49(3): 571-583.
7. (With other RERU members). "Proceedings of a seminar on methods and problems of data collection and use for rural economic and social research". *Samaru Miscellaneous Paper* No. 16. Zaria: Ahmadu Bello University. 37 p.

#### YEAR: 1968

8. "Influence of location and land and labour relationships in three Zaria villages". Paper read at 1968 Nigerian Agricultural Conference. Abstract published in the *Proceedings of the Agricultural Society of Nigeria*. 45 p.
9. "Why practice intercropping?" *Samaru Agricultural Newsletter*, 10(4):107-116.

#### YEAR: 1969

10. "Labour inputs of farmers: a case study of the Zaria Province of the North Central State of Nigeria". *The Nigerian Journal of Economic and Social Studies*, 11(1):1-14. Also produced as *Samaru Research Bulletin* No. 116.

YEAR: 1970

11. "How hard do Nigerian farmers work?" *Samaru Agricultural Newsletter*, 10:1 (April, 1968). p. 18-27. Reprinted in *Agriculture*, 1(9):176-179.
12. "Comment on mixed farming". (In IAR (ed.), *Livestock Development in the Dry and Intermediate Savanna Zones*, Zaria, Ahmadu Bello University, 202 p.). pp. 42-48.
13. "Rural economy with specific reference to agriculture". (In M.J. Mortimore (ed.), *Zaria and its Region: a West African Savanna City and its Environs*, *Department of Geography Occasional Paper No. 4*, Zaria, ABU, 191 p.). pp. 139-148. Also produced as *Samaru Research Bulletin No. 178*.
14. (With Buntjer, B.J. and A. D. Goddard). "Intercropping observation plots at the farmers' level". *Samaru Agricultural Newsletter*, 12(6):97-101.

YEAR: 1971

15. (With Goddard, A.D. and J.C. Fine). "A socio-economic study of three villages in the Sokoto close-settled zone. Part I. Land and people". *Samaru Miscellaneous Paper No. 34*. Zaria: Ahmadu Bello University, Nigeria.
16. (With Goddard, A.D. and J.C. Fine). "A socio-economic study of three villages in the Sokoto close-settled zone. Part 2. Maps". *Samaru Miscellaneous Paper No. 35*. Zaria: Ahmadu Bello University, Nigeria.
17. "Economic and non-economic variables in village surveys". *Rural Africana*, 8 (Spring 1969). pp. 18-24. Reprinted in the *Samaru Agricultural Newsletter*, 13(3):61-64.
18. "Comment on agricultural and rural development". (Published in Ayida, A.A. and H.M.A. Onitiri (eds.), *Reconstruction and Development in Nigeria*, Ibadan, Oxford University Press, 768 p.). pp. 165-169.

YEAR: 1972

19. "The Rural Economy Research Unit, Ahmadu Bello University", *Savanna*, 1(1):114-115.
20. "An economic study of three Zaria Province villages. Part 2. Input-output study. Volume I. Text". *Samaru Miscellaneous Paper No. 37*. Zaria: Ahmadu Bello University. 177 p.
21. "An economic study of three Zaria Province villages. Part 2. Volume II. Basic data and survey forms". *Samaru Miscellaneous Paper No. 38*. Zaria: Ahmadu Bello University. 141 p.
22. (With other RERU Members). "Farm income levels in the northern states of Nigeria". Information requested by the Salaries and Wages Review Commission of 1970. *Samaru Miscellaneous Paper No. 35*. Zaria: Ahmadu Bello University. 17 p.

YEAR: 1973

23. "Initiating change in a traditional agriculture". Invited paper read at 1970 Nigerian Agricultural Society Conference. *Proceedings of the Agricultural Society of Nigeria*, 7:6-14. Also in French and English in *Agricultural Economics Bulletin for Africa*, 13:31-52. Also in Wilmot, P.E. (ed.), *Sociology in Africa Vol. II*, Zaria: Department of Sociology, ABU. pp. 174-187. Also published as *Samaru Research Bulletin No. 174*.
24. "Economic analysis of agricultural production and labour utilisation among the Hausa in the north of Nigeria". *African Rural Employment Paper No. 4*. East Lansing: Michigan State University. 48 p. Also produced as *Samaru Research Bulletin No. 191*.
25. "Methodology and problems of farm management investigation: the experiences of RERU in northern Nigeria". *African Rural Employment Paper No. 8*. East Lansing: Michigan State University. 47 p. Also produced as *Samaru Research Bulletin No. 195*.
26. "Crop mixtures under indigenous conditions in the northern part of Nigeria". (Published in L.M. Ofori (ed.), *Factors of Agricultural Growth in West Africa*, Legon, Legon, ISSER,

- University of Ghana and printed by Presbyterian Press, Accra, 291 p.). pp. 130-144. Also produced as *Samaru Research Bulletin* No. 205.
27. "Modern technology: its relationship to risk, managerial ability and level of extension input". *Samaru Agricultural Newsletter*, 15(1):11-19.
  28. "Interdisciplinary research on rural development: the RERU experience". *OLC Paper* No. 4. Washington: Overseas Liaison Committee, American Council on Education. 46 p. Also produced as *Samaru Research Bulletin* No. 225.
  29. (With O. Ogunfowora). "An optimisation model for evaluating the stability of sole cropping and intercropping systems under changing resource and technological levels". *Bulletin of Rural Economics and Sociology*, 8:1. Also produced as *Samaru Research Bulletin* No. 217.
  30. (With O. Ogunfowora). "Farm-firm normative fertilizer demand response in the North Central State of Nigeria". *Journal of Agricultural Economics*, 24(2):301-311. Also produced as *Samaru Research Bulletin* No. 203.
  31. (With E.B. Simmons). "Determination of relevant research priorities for farm development in West Africa". (Published in I.M. Ofori (ed.), *Factors of Agricultural Growth in West Africa*, Legon, Legon, ISSER, University of Ghana and printed by Presbyterian Press, Accra, 291 p.). pp. 42-48. Also produced as *Samaru Research Bulletin* No. 204.

YEAR: 1974

32. "The rationalisation of a crop mixture strategy adopted by farmers under indigenous conditions: the example of northern Nigeria". *Journal of Development Studies*, 11(1):3-21. Also produced as *Samaru Research Bulletin* No. 232.
33. (With Hayward J.A. and H.R. Hallam). "An assessment of the cotton growing recommendations as applied by Nigerian farmers". *Cotton Growing Review*, 51(4):266-280. Also published as *Samaru Research Bulletin* No. 230.

YEAR: 1975

34. (With E.F.I. Baker). "Cropping systems in northern Nigeria". (Published in IRRI (ed.) *Proceedings of the Cropping Systems Workshop*, Los Banos, International Rice Research Institute, 18<sup>th</sup> -20<sup>th</sup> March, 396 p.). pp. 334-361.
35. (With Hayward J.A. and H.R. Hallam). "Factors affecting cotton yields obtained by Nigerian farmers". *Cotton Growing Review*, 52(1):30-37. Also published as *Samaru Research Bulletin* No. 231.
36. (With Goddard, A.D. and M.J. Mortimore). "Some social and economic implications of population growth in rural Hausaland". (In Caldwell, J.C., Addo, N.O., Gaisie, S.K., Igun, A. and P.O. Olusanya (eds.) *Population Growth and Socio-Economic Change in West Africa*. New York, Columbia University Press, 763 p). pp. 321-339. Also in French edition of the same book.

YEAR: 1976

37. "The organisational consequences of social and economic constraints and policies in dry-land areas". (In Hunter, G., Bunting, A.H. and A. Bottrall (eds.) *Policy and Practice in Rural Development*, London, Croom Helm, 520 p.). p. 168-186. Also *Discussion Paper* No. 214. Nairobi: Institute for Development Studies, University of Nairobi. 19 p.
38. (With Beeden, P., Kroeker, W.J. Pryor, D.H. Hays, H.M. and B. Huizinga). "The feasibility of improved sole crop maize production technology for the small-scale farmer in the Northern Guinea Savanna Zone of Nigeria". *Samaru Miscellaneous Paper* No. 59. Zaria: Ahmadu Bello University. 38 p.
39. (With Beeden, P., Kroeker, W.J. Pryor, D. H., Huizinga, B. and H. M. Hays). "The feasibility of improved sole crop sorghum production technology for the small-scale farmer in the

- Northern Guinea Savanna Zone of Nigeria". *Samaru Miscellaneous Paper* No. 60. Zaria: Ahmadu Bello University. 35 p.
40. (With Beeden, P., Pryor, D. H. Kroeker, W.J. Hays, H.M., and B. Huizinga). "The feasibility of improved sole crop cotton technology for the small-scale farmer in the Northern Guinea Savanna Zone of Nigeria". *Samaru Miscellaneous Paper* No. 61. Zaria: Ahmadu Bello University. 51 p.
  41. (With Fine, J.C. Goddard, A.D., Pryor, D.H., and W.J. Kroeker). "A socio-economic survey of three villages in the Sokoto close-settled zone. Part 3. Input-output study. Volume I. Text". *Samaru Miscellaneous Paper* No. 64. Zaria: Ahmadu Bello University. 204 p.
  42. (With Fine, J.C., Goddard, A.D., Krocker, W.J. and D.H. Pryor). "A socio-economic survey of three villages in the Sokoto close-settled zone. Part 3. Input-output study. Volume II. Basic data". *Samaru Miscellaneous Paper* No. 65. Zaria: Ahmadu University. 98 p.
  43. (With M.S. Krishnaswamy). "The adoption of improved technology by the small farmer". (In Ensminger, D. and Y.N. Arjuna (eds.), *Food Enough or Starvation for Millions*, Delhi, Tata McGraw-Hill. 562 p). pp. 417-438.
  44. "Developing mixed cropping systems relevant to the farmers' environment". (In Monyo, J.H. A.D.R. Ker and M. Campbell (eds.), *Intercropping in Semi-Arid Areas*, Ottawa, IDRC. 72 p.). p. 52-58.
  45. "Summary and conclusions". (In Monyo, J.H., A.D.R. Ker and M. Campbell (eds.), *Intercropping in Semi-Arid Areas*, Ottawa, IDRC. 72 p.). p. 59.
  46. (With Beeden, P., and J.A. Hayward). "A comparative evaluation of ultra-low volume insecticide application on cotton farms in the North Central State of Nigeria". *Nigerian Journal of Plant Protection*, 2:23-29.
  47. (With others on editorial committee of B. Kearn). *Field Data Collection on the Social Sciences: Experiences in Africa and the Middle East*. New York: ADC. 200 p.

YEAR: 1977

48. "Economic rationality of traditional Hausa dryland farmers in the North of Nigeria". (In Stevens, R.D. (ed.), *Tradition and Dynamics in Small-Farm Agriculture*, Ames, Iowa State University Press, 266 p.). pp. 63-91.
49. "The rationalisation of intercropping". *African Environment*, 2, 3:97-109.
50. "Comments on the farm level constraints study at CIP". (In CIP (ed.), *Social Science Research and Training*, Lima, International Potato Center, Peru, 168 p.). pp. 122-130.
51. (With R.W. Palmer-Jones). "Economic methodology for assessing cropping systems". (In IRRI (ed.), *Cropping Systems Research and Development for the Asian Rice Farmer*, Los Banos, IRRI, Philippines, 454 p.). pp. 241-260.

YEAR: 1978

52. "Thoughts on village studies in northern Nigeria and Africa". (In Dasgupta, B. (ed.), *Village Studies in the Third World*, Delhi, Hindustan Publishing Corporation, 277 p.). pp. 81-95.
53. "Farming systems and problems of improving them". (In Kowal, J.M. and A.H. Kassam, *Agricultural Ecology of the West African Savanna*, Oxford, Clarendon Press, 403 p.). pp. 318-347.
54. (Book Review). "Traditional African Farming Systems in Eastern Nigeria by J. Lagemann", Munich and New York, Weltforum and Humanities Press, 1977, 250 p. In *African Economic History*, 6 (Fall). pp. 186-188.
55. "Farming systems research to improve the livelihood of small farmers". *Agricultural Economics*, 60(5):813-818. (KAES Contribution number 79-13-A).

YEAR: 1979

56. (With H. M. Hays). "Developing a suitable technology for small farmers". *Modern Government/National Development*, (April, 1979). pp. 67-75. Also published in Spanish. (KAES Contribution number 79-153-T).
57. "The farming system approach: relevancy for small farmers". (In Karasapan, A.S. (ed.), *Increasing the Productivity of Small Farms*, Lahore, CENTO, 312 p.). pp. 133-152.
58. "Moderator's report and recommendations". (In Karasapan, S.A. (ed.), *Increasing the Productivity of Small Farms*, Lahore, CENTO, 312 p.). pp. 303-307.
59. (With D.H. Pryor and C.J. Gibbs). "Technical change and the small farmer in Hausaland, northern Nigeria". *African Rural Economy Paper* No. 21. East Lansing: Michigan State University. 127 p. Also published in French. (KAES Contribution number 79-112-B).

YEAR: 1980

60. "The farming systems approach: relevancy for the small farmer". *MSU Rural Development Paper* No. 5. East Lansing: Michigan State University. 26 p. Also in French and Spanish.
61. (With E.H. Gilbert and F.E. Winch). "Farming systems research: a critical appraisal". *MSU Rural Development Paper* No. 6. East Lansing: Michigan State University. Also in French. 136 p. (KAES Contribution number 80-401-A).
62. (With M. Newman and I. Ouedraogo). "Farm level studies in the semi-arid tropics of West Africa". (In ICRISAT (ed.), *International Workshop on Socio-Economic Constraints to Development of Semi-Arid Tropical Agriculture*, Hyderabad, ICRISAT, 435 p.). pp. 241-263.
63. (With E.H. Gilbert). (Book Review). "Agricultural Change in Tropical Africa" by K. Anthony, B. Johnson, W. Jones and V. Uchendu, Ithaca, Cornell University Press, 326 pages. (In *African Economic History*, 6 (Fall):126-129).

YEAR: 1981

64. "Micro-level accomplishments and challenges for the less developed world: discussion of M. Collinson's paper". (In IAAE (ed.), *Rural Change: the Challenge for Agricultural Economists*. Oxford Institute of Agricultural Economics, Gower, 738 p.). pp. 53-56.
65. (With E.H. Gilbert). "A general overview of farming systems research". (In Shaner, W.W. Philipp, P.F. and W.R. Schmehl (ed.), *Readings in Farming Systems Research and Development*. Tuscon, Consortium for International Development, 187 p). pp. 18-34.
66. (With E.H. Gilbert). "Farming system research programs in West Africa: some general characteristics and possible roles for U.S. Universities". (In B.G. Schoepf (ed.), *The Role of U.S. Universities in International Rural and Agricultural Development*. Tuskegee, Center for Rural Development, Tuskegee Institute). pp. 125-132.
67. "Agriculture: progress or catastrophe in Africa?" *Africa Report*, 26(4):4-8.
68. (With I. Ouedraogo and M. Newman). "Farm and village production systems in the semi-arid tropics of West Africa: an interpretive review of research". *Research Bulletin* No. 4, Volume 1. Patancheru, A.P., India: ICRISAT. 94p. (KAES Contribution number 81-166R).
69. "Farming systems research reviewed". (In IAPM (ed.). *Proceedings of the Farming Systems Workshop, 16th - 18th March, 1981*, Los Banos, Laguna, Philippines, PCARR, 68p.). pp. 25-34.
70. "Panel discussion and working group report". (In IAPM (ed.). *Proceedings of the Farming Systems Workshop, 16th - 18th March, 1981*, Los Banos, Laguna, Philippines, PCARR, 68p.). pp. 46-55.

YEAR: 1982

71. (With E. Simmons and H. Hays). *Farming Systems in the Nigerian Savanna: Research and Strategies for Development*. Boulder, Westview Press, 275p. (KAES Contribution number 82-349-B).
72. (With H. Binswanger). "Socioeconomic considerations in sorghum based farming systems". (In ICRISAT (ed.), *Sorghum in the Eighties*, Volume 2, Hyderabad, ICRISAT, 783p.). p. 633-646.
73. (With M. Newman and I. Ouedrago). "The farmer in the semi-arid tropics of West Africa: a partially annotated bibliography". *Research Bulletin* No. 4, Volume 2. Patancheru, A.P., India: ICRISAT. 122p. (KAES Contribution number 81-166R).
74. "Discussant and wrap-up remarks". (In Sheppard, W.J. (ed.). *Proceedings of KSU's 1981 Farming Systems Research Symposium. Farming Systems in a Changing World: Prospects for the Eighties, Farming Systems Research Paper No. 2*, Manhattan, Kansas State University, 180p.). pp. 59-62, 165-166.
75. (With N.B. Mijindadi). "Determinants of technical efficiency of traditional farms in the Zaria area of Northern Nigeria". *Nigerian Journal of Agricultural Economics*, 1(1):41-53.

YEAR: 1983

76. (With D. Baker, E. Modiakgotla, J. Siebert and M. Tjirongo). "Helping the limited resource farmer through the farming systems approach to research". *Culture and Agriculture*, 19:1-8.
77. "The farming systems approach to research". (In Flora, C.B.(ed.). *Proceedings of Kansas State University's 1982 Farming Systems Research Symposium. Farming Systems in the Field. Farming Systems Research Paper No. 5*, Manhattan, Kansas State University, 311p.). pp. 7-19.

YEAR: 1984

78. (With D.C. Baker and J. Siebert). "The challenge of developing agriculture in the 400 - 600 mm rainfall zone in the SADCC countries". *Zimbabwe Agricultural Journal*, 81(6):205-214.
79. (With N.B. Mijindadi). "Efficiency differentials in the traditional agriculture of Northern Nigeria". *Agricultural Systems*, 14(4):213-228.

YEAR: 1985

80. "Some problems in the implementation of agricultural research projects with a farming systems perspective". *FSSP Networking Paper* No. 3. Gainesville: University of Florida.
81. "The limited resource farmer and Africa's food production crisis". (In IFDC (ed.), *Fertilizer Efficiency Research and Technology Transfer Workshop for Africa South of the Sahara*, Muscle Shoals, Alabama, IFDC, 474p.). pp. 23-67.

YEAR: 1986

82. (With M. Collinson). "Farming systems research in theory and practice". (In J. Remenyi (ed.), *Agricultural Systems Research for Developing Countries, ACIAR Proceedings* No. 11. Canberra, Australian Council for International Agricultural Research, 190p.). pp. 16-30.
83. (With D.C. Baker). "FSR credibility and experiences in Botswana". (In J. Mook (ed.), *Understanding Africa's Rural Households and Farming Systems*, Boulder, Westview Press, 1986, 234p.). pp. 36-57.
84. (With D. Baker). "Farming systems research and extension in harsh environments: development of a farmer cooperator approach in Botswana". (In C. Flora and M. Tomecek (eds.),

*Selected Proceedings of KSU's 1985 Farming Systems Research Symposium. Farming Systems Research and Extension: Management and Methodology, Farming Systems Research Paper No. 11, Manhattan, Kansas State University.* pp. 535-555.

85. (With Y. Merafe, and D. Baker). "Socio-economic constraints to farm equipment innovations in Botswana". (In ILO (eds.), *Initiatives for Farm Equipment Programmes in Botswana: Improving Coordination*. Geneva, Switzerland, ILO.). pp. 41-49.
86. (With S. Miller and T. Farrington). "Selecting a microcomputer system for farming systems research: a framework for decision making". (In CIMMYT (ed.), *Report of a Networkshop on the Role of Socio-Economists and Microcomputers in FSR*, Mbabane, Swaziland, Nairobi, CIMMYT). pp. 51-54.

YEAR: 1987.

87. (With D.C. Baker and J.D. Siebert). "The challenge of developing agriculture in the 400-600 mm rainfall zone within the SADCC countries". (In Boyle, P.J. (ed.), *Agronomic Adjustment to Environment of the 400-600 mm Rainfall Zone of Southern Africa, SACCAR Workshop Series No.1*, Gaborone, SACCAR). pp. 17-36.

YEAR: 1988

88. (With D.C. Baker). "A framework for assessing farming system activities in national settings in West Africa: with Special Reference to Senegal, Nigeria, and Mali". (In Abalu, G.O.I. et al (eds.), *Farming Systems Research in West Africa, Proceedings of the West African Farming Systems Research Network Workshop, Dakar, Senegal, 10-14 March*). pp. 62-87.
89. (With Baker, D., Heinrich, G., and F. Worman). "Technology development and farmer groups: experience from Botswana". *Experimental Agriculture*, 24(3):321-331.
90. (With Others). *Impact Assessment of the Accelerated Rainfall Arable Production (ARAP) and Drought Relief (DR) Programmes: Executive Summary*. Gaborone: DAR and DAFS.
91. (With Worman, F., and Y. Merafe). "Increasing farmer participation in FSR/E: the ATIP experience with farmer testing groups". (In Ly, T., and F. Balina (eds.), *Philippine Upland Research and Extension Training Workshop, Proceedings of Workshop, 19<sup>th</sup>-24<sup>th</sup> June, Visca, Baybay, Leyte, Visca, Farming Systems Development Project, Eastern Visayas*).
92. (Book Review). "Agricultural mechanization and the evolution of farming systems in Sub-Saharan Africa" by Pingali, P., Y. Bigot and H. Binswanger, Baltimore, John Hopkins University Press, 216 p. (In *American Journal of Agricultural Economics*, May:498-499).
93. (With H. Sigwele and D. Baker). "Reflections on two decades of research on sorghum-based farming systems in Northern Nigeria and Botswana". (In Rukuni, M., and R. Bernsten (eds.), *Southern Africa: Food Security Policy Options*, Harare, Zimbabwe, UZ/MSU Food Security Research Project, Department of Agricultural Economics and Extension, University of Zimbabwe). pp. 235-254.

YEAR: 1989

94. "Communication and information systems in farming systems work: an Overview of the Past and Present". Plenary paper. (In University of Arkansas (eds.), *Proceedings of Farming Systems Research Symposium 1987: How Systems Work, Farming Systems Research Paper No. 15*, Fayetteville, University of Arkansas and Winrock International Institute for International Development). pp. 287-303.
95. (With D. Baker, G. Heinrich, S. Masikara, and F. Worman). "Farmer groups for technology development: experiences from Botswana". (In Chambers, R., A. Pacey, and L.A. Thrupp (eds.), *Farmer First: Farmer Innovation and Agricultural Research*, London: Intermediate Technology Publications Ltd.). pp. 136-145.

96. (With D. Baker). "The farming systems research and extension approach to small farmer development". (In Altieri, M., and S. Hecht (eds.), *Agroecology and Small Farm Development*, Boca Raton, Florida, CRC Press). pp. 91-104.
97. "Accountability: a dilemma in farming systems research". *Culture and Agriculture*, 38(Spring/Summer):2-8.
98. (With M. Manthe, F. Worman and L. Modidi). "Bean baseline survey". *ATIP Working Paper Number 24*, Gaborone, Botswana, ATIP, DAR.

YEAR: 1990

99. Norman, D., and J. Siebert. "DBase III Plus programmes for estimating plant populations and yields from plot quadrat data". *ATIP Working Paper Number 33*. Gaborone, Botswana: ATIP, DAR.
100. (With F. Worman and J. Ware-Snyder (eds.)). "Farming systems research handbook for Botswana". *ATIP Research Paper Number 3*. Gaborone, Botswana: ATIP, DAR. 306 pages.
101. (With F. Worman and J. Ware-Snyder (eds.)). "Farming systems research handbook for Botswana. Annex volume: examples of forms and surveys". *ATIP Research Paper Number 4*. Gaborone, Botswana: ATIP, DAR. 149 pages.
102. (With E. Modiakgotla). "Ensuring farmer input into the research process within an institutional setting: the case of semi-arid Botswana". *Agricultural Administration Network Paper No. 16*. London: ODI.
103. (With G. Heinrich, J. Siebert, E. Modiakgotla, and J. Ware-Snyder (eds.)). "Technical summary of ATIP's activities, 1982-90: research results". *ATIP Research Paper Number 5*. Gaborone, Botswana: ATIP, DAR. 200 pages.
104. (With G. Heinrich, J. Siebert, E. Modiakgotla, and J. Ware-Snyder (eds.)). "Technical summary of ATIP's activities, 1982-90: promising guidelines". *ATIP Research Paper Number 6*. Gaborone, Botswana: ATIP, DAR. 45 pages.
105. (With G. Ramolemana). "Technical summary of ATIP's activities, 1982-90: Research-Extension Liaison Office". *ATIP Research Paper Number 7*. Gaborone, Botswana: ATIP, DAR. 30 pages.
106. (With M. Sechele, K. Dira, E. Makhwaje and C. Patrick). "Row planter condition survey". *ATIP Working Paper Number 38*. Gaborone, Botswana: ATIP, DAR. 30 pages.

YEAR: 1991

107. (With F. Worman and G. Heinrich). "Organizational considerations in implementing FSR in a harsh environment: increasing farmer involvement in Botswana". *Journal for Farming Systems and Extension*, 2(3):119-137. (KAES Contribution Number 92-144-J).
108. "Farming systems research in a declining donor environment". (In CIMMYT (ed.), *Workshop for Research-Extension Administrators from East and Southern Africa*, Nairobi, CIMMYT). Also available as *Department of Agricultural Economics Staff Paper No. 92-2*. (KAES Contribution Number 92-30-D).

YEAR: 1992

109. "Household economics and community dynamics". (In Valdivia, C. (ed.), *Sustainable Crop-Livestock Systems for the Bolivian Highlands*, Columbia, University of Missouri, 1992). pp. 39-70 (KAES Contribution Number 92-44-A).
110. "Soil conservation: using farming systems development as an aid". Produced at the request of FAO, Rome, Italy. *Department of Agricultural Economics, Staff Paper No. 92-13*. (KAES Contribution Number 92-143-B).
111. (With F. Worman and J. Ware-Snyder (eds.)). "Farming systems research handbook for Botswana". *ATIP Research Paper Number 3*. Gaborone, Botswana: DAR, MOA. 313

pages. (Slightly Revised Edition published by FAO/SIDA Farming Systems Programme). (KAES Contribution Number 92-182-B).

YEAR: 1993

112. "Farming systems research: past, present and future". Invited Public Lecture, Swedish University of Agricultural Sciences, Uppsala, Sweden, November. *Department of Agricultural Economics, Staff Paper* No. 93-6. (KAES Contribution Number 93-207-D).
113. (With H. Sigwele). "Rural development in Botswana: a case study". Invited for Session 308: Agriculture, Food, Environment and Rural Development. The Salzburg Seminar, Salzburg, Austria, November. *Department of Agricultural Economics Staff Paper* No. 94-4 (KAES Contribution Number 94-125-D).
114. "Impacts of on-farm research on extension and other promotional activities". Invited paper for CIMMYT sponsored workshop. (In Heisey, P. and S. Waddington, (eds), Impacts of On-Farm Research: Proceedings of a Workshop on Impacts of On-Farm Research in Eastern and Southern Africa). *CIMMYT Eastern and Southern Africa On-Farm Research Network Report* No. 24. Harare, Zimbabwe: CIMMYT). pp. 134-147. (KAES Contribution Number 93-11-A).
115. "Concluding remarks on impacts of on-farm research". Invited for CIMMYT sponsored workshop. (In Heisey, P. and S. Waddington, (eds), Impacts of On-Farm Research: Proceedings of a Workshop on Impacts of On-Farm Research in Eastern and Southern Africa. *CIMMYT Eastern and Southern Africa On-Farm Research Network Report* No. 24. Harare, Zimbabwe: CIMMYT). pp. 467-469. (KAES Contribution Number 93-12-A).

YEAR: 1994

116. (With T. Frankenberger and P. Hildebrand). "Agricultural research in developed countries: past, present and future of farming systems research and extension". *Journal of Production Agriculture*, 7(1):124-131. (KAES Contribution Number 93-282-J).
117. (K. Friedrich, B. Gohl and L. Singogo). *Farming Systems Development (FSD): A Participatory Approach to Helping Small-Scale Farmers*. Rome: FAO-Sweden Farming Systems Programme in Eastern and Southern Africa, Food and Agricultural Organization of the United Nations). 46 pages. (KAES Contribution Number 94-85-B).
118. (With M. Douglas). "Farming systems development and soil conservation". *Farming Systems Management Series* Number 7. Rome: AGSP, Food and Agricultural Organization of the United Nations). 173 pages. (KAES Contribution Number 94-234-B). Also in French (Number 128) and in Spanish (Number 135).
119. (With C. Francis and G. Heinrich). "Providing relevant training for African agronomists". *Journal of Sustainable Agriculture* 4(3):79-90. (KAES Contribution Number 93-440-J).
120. "The research-research interface". (In Meindersma, J.D., (ed), *Setting Research Priorities*. Amsterdam, Netherlands, The Royal Tropical Institute (KIT)). pp. 32-46. (Revised version of KAES Contribution Number 92-301-A).
121. (With J. Siebert, E. Modiakgotla and F. Worman). *The Farming Systems Research Approach: A Primer for Eastern and Southern Africa*. Capetown, South Africa: FAO/SIDA Farming Systems Programme, Gaborone, Botswana. 147 pages. (KAES Contribution Number 94-546-B).
122. (With S. Freyenberger, S., L. Bloomquist, D. Regehr and B. Schurle). "On-farm research in Kansas, 1993: farmers' opinion survey". *Report of Progress* No. 270. Manhattan: KAES, Kansas State University. (KAES Contribution Number 95-225-S). (Also appears in Francis, C., R. Janke, V. Munday, J. King (eds), *Alternative Approaches to On-farm Research and Technology Exchange*, Lincoln, Nebraska, Center for Sustainable Agriculture, University of Nebraska-Lincoln, pp. 69-80).

123. (With N. Mollel, M. Mangheni and P. Paradza). "The future of agricultural extension in South Africa: lessons from within and outside the African continent". *South African Journal of Agricultural Extension*. 23:1-20. (KAES Contribution Number 94-483-J).
124. (With N. Mollel, M. Mangheni and P. Paradza). "Experiences of some African countries with the unification of their Extension Services since independence: lessons for South Africa". Invited paper for conference on Extension Services in the Nineties, Olifantsfontein, South Africa, 1st-3rd March. (In South African Society for Agricultural Extension (ed), *Proceedings of Third Extension Conference for Developing Areas*, Halfway House, South Africa, South African Society for Agricultural Extension). pp 106-147. (KAES Contribution Number 94-394-A).

YEAR: 1995

125. (Rapporteur). "Methodological issues: Working Group 7". (In Ruiz, M.E., C. Sere, and H.L. Pun (eds), *Animal Production Systems Global Workshop*, San Jose, Costa Rica, Inter-American Institute for Cooperation on Agriculture). pp. 469-479.
126. (Keynote Address). "The farming systems perspective: the key to building sustainable agriculture in Southern Africa". (In FSR-E Southern Africa (ed.), *The Proceedings of the Southern African Association for Farming Systems Research-Extension Conference*, Ezulweni, Swaziland, FSR-E, Southern Africa). pp. 4-23. (KAES Contribution Number 93-507-A).
127. (With F. Worman, J. Siebert, and E. Modiakgotla). "The farming systems approach to development and appropriate technology generation". *Farming Systems Management Series* No. 10. Rome: AGSP, Food and Agricultural Organization of the United Nations. 256 pages. (KAES Contribution Number 95-351-B). Also in French, Spanish (Number 133) and Arabic (Number 184). Also complete document on FAO web page: <http://www.fao.org/inpho/isma?m=library&txt=Norman&i=INPhO&p=SimpleSearchFrame&lang=en&op=or&n=1>
128. (With M. Douglas). "Developpement des systems agricoles et conservation des sols". *Farming Systems Management Series* No. 7. Rome: AGSP, Food and Agricultural Organization of the United Nations. 191 pages.
129. (With M. Umar, M. Tofinga and H. Bammann). *An Introduction to The Farming Systems Approach to Development For The South Pacific*. Apia, Western Samoa: Institute for Research, Extension, and Training in Agriculture, University of the South Pacific and AGSP, Food and Agricultural Organization of the United Nations. 119 pages. (KAES Contribution Number 96-145-B).
130. (With J.C. Pearson and J. Dixon). "Sustainable dryland cropping in relation to soil productivity". *FAO Soils Bulletin*. No. 72. Rome: Food and Agricultural Organization of the United Nations. 146 pages. (KAES Contribution Number 93-508-B).

YEAR 1996

131. (With S. Tubene). "Institutional dimensions of development research". (In CIRAD (ed), *Systems-Oriented Research in Agriculture and Rural Development Proceedings: Lectures and Debates at the Thirteenth International Symposium on Systems-Oriented Research in Agriculture and Rural Development, 21st-25th November, 1994, Montpellier, France, Montpellier, France, CIRAD*). pp 196-210. (KAES Contribution Number 95-163-A).
132. (With A. Kaliba and A. Featherstone). "Factors influencing the adoption of improved cattle raising under the stall feeding management system in semi-arid Central Tanzania and implications for developing a sustainable livestock based production system in the area". (In ASFRE (ed.), *Symposium Proceedings of the 14th International Symposium on Sustainable Farming System Contributed Papers, 11th-16th November, 1996, Colombo, Sri Lanka*, Colombo, Ministry of Agriculture, Lands and Forestry, Asian Farming Systems Association, and Association for Farming Systems Research and Extension). pp. F9/1-F9/14.

133. (With F. Worman, J. Siebert, and E. Modiakgotla). "En efoque de sistemas agropecuarios para el desarrollo y la generacion de tecnologia apropiada". *Farming Systems Management Series* No. 10. Rome: AGSP, Food and Agricultural Organization of the United Nations. 256 pages. (KAES Contribution Number 95-351-B).
134. (With N. Wawire and M. Langemeier). "Rainfed rice production in Western Kenya: productivity and profitability". *Department of Agricultural Economics Research Report* No. 22. Manhattan: Department of Agricultural Economics, Kansas State University. (KAES Contribution Number 96-545-D).
135. (With M. Douglas). "Desarrollo de Sistemas Agricolas y Conservacion del Suelo". *Farming Systems Management Series* No. 7. Rome: AGSP, Food and Agricultural Organization of the United Nations. 220 pages.
136. (With F. Worman). "Farming systems research lessons learned for technology development in semi-arid areas". *Transactions, Missouri Academy of Science*, 30:28-36.
137. (With M. Umar, M. Tofinga and H. Bammann (eds)). "The farming systems approach to sustainable agriculture development in the South Pacific". *Proceedings of an FAO/IRETA Sponsored Workshop, 5th-8th August, 1996, University of the South Pacific, Suva, Fiji*. Apia, Western Samoa: Institute for Research, Extension, and Training in Agriculture, University of the South Pacific and AGSP. 101 pages.
138. "Farming systems approach to development: principles and challenges for development". (In Norman, D., M. Umar, M. Tofinga and H. Bammann (eds), "The farming systems approach to sustainable agriculture development in the South Pacific". *Proceedings of an FAO/IRETA Sponsored Workshop, 5th-8th August, 1996, University of the South Pacific, Suva, Fiji*. Apia, Western Samoa: Institute for Research, Extension, and Training in Agriculture, University of the South Pacific and AGSP). pp. 11-18. (KAES Contribution Number 97-74-A).

YEAR: 1997

139. (With E. Nkonya and T. Schroeder). "Factors affecting adoption of improved maize seed and fertilizer in Northern Tanzania". *Journal of Agricultural Economics* 48(1):1-12. (KAES Contribution Number 97-156-J).
140. (With S. Freyenberger and B. Schurle). "County Extension Agents and on-farm research: results of a Kansas survey". *Journal of Extension* 35(5 October). (Electronic Journal. Site: <http://www.joe.org/joe/1997october/a4.html>). (KAES Contribution Number 97-99-J).
141. (With S. Freyenberger, R. Janke, B. Schurle, and H. Kok). "Defining and implementing sustainable agriculture". *Kansas Sustainable Agriculture Series* No. 1. Manhattan: Kansas Agricultural Experiment Station. (Electronic version. Site: <http://www.kansassustainableag.org/Library/ksas1.htm>). Also in hard copy version. (KAES Contribution Number 97-408-D).
142. (With R. Janke and S. Freyenberger). "Indicators of sustainability in whole farm planning: literature review". *Kansas Sustainable Agriculture Series* No. 2. Manhattan: Kansas Agricultural Experiment Station. (Electronic version. Site: <http://www.kansassustainableag.org/Library/ksas2.htm>). Also in hard copy version. (KAES Contribution Number 97-482-D).
143. (With J. Jost and S. Freyenberger). "Enhancing sustainable agriculture through farmer groups: the experience of the Kansas Heartland Network". *Kansas Sustainable Agriculture Series* No.4. Manhattan: Kansas Agricultural Experiment Station. (Electronic version. Site: <http://www.kansassustainableag.org/Library/S.htm#sustainableagriculture>). Also in hard copy version. (KAES Contribution Number 97-160-D).
144. (With S. Freyenberger and B. Schurle). "Kansas County Extension Agents and attitudes about on-farm research (work): results of a survey". *Kansas Sustainable Agriculture Series* No. 5. Manhattan: Kansas Agricultural Experiment Station. (Electronic version. Site: <http://www.kansassustainableag.org/Library/ksas5.htm>). Also in hard copy version. (KAES Contribution Number 97-195-D).

145. (With B. Goodwin, B. Schurle, S. Freyenberger, L. Bloomquist, and D. Regehr). "Determinants of Kansan farmers' participation in on-farm research". *Journal of Agricultural and Applied Economics*, 29(2):385-396. (KAES Contribution Number 96-149-J).
146. (With A. Kaliba and A. Featherstone). "Stall feeding cattle management for improved cattle in semi-arid Central Tanzania: factors influencing adoption". *Agricultural Economics*, 17(2/3):133-146. (KAES Contribution Number 97-375-J).
147. (With M. Umar). "The farming systems approach to development in the South Pacific: value, principles and challenges". *Journal of South Pacific Agriculture*, 4(1/2):28-40. (KAES Contribution Number 98-455-J).

#### YEAR 1998

148. (With S. Sall and A. Featherstone). "Adaptability of improved rice varieties in Senegal". *Agricultural Systems*, 57(1):101-114. (KAES Contribution Number 98-117-J).
149. "Transfer and diffusion of agricultural technology: lessons for the South Pacific". Invited keynote address for a workshop. (In Rogers, S. and P. Thorpe (eds.), *Diffusion and Transfer of Agricultural Technologies in the Pacific. Reports and Papers From the Third Annual Meeting of Cooperators, Vava'u, Kingdom of Tonga*, Suva, Fiji, Pacific Regional Agricultural Programme (PRAP)). pp. 1-10.
150. "Defining recommendation domains". Invited contribution for a workshop. (In Rogers, S. and P. Thorpe (eds.), *Diffusion and Transfer of Agricultural Technologies in the Pacific. Reports and Papers from the Third Annual Meeting of Cooperators, Vava'u, Kingdom of Tonga*, Suva, Fiji, Pacific Regional Agricultural Programme (PRAP)). pp. 109-113.
151. (With S. Sall and A. Featherstone). "Using quasi-arbitrary ordinal weights to quantify farmers' perceptions of rice varieties in Casamance, Senegal. (In AFSRE (ed.), *Rural Livelihoods, Empowerment, and the Environment. Proceedings of the 15<sup>th</sup> AFSRE Symposium, Volume 2*, Pretoria, South Africa, Association for Farming Systems Research and Extension). pp. 1235-1242.
152. (With E.M. Nkonya, P.M. Ndakidemi and C.S. Mushi). Adoption and environmental impact of an improved bean variety in Northern Tanzania. (In AFSRE (ed.), *Rural Livelihoods, Empowerment, and the Environment. Proceedings of the 15<sup>th</sup> AFSRE Symposium, Volume 1*, Pretoria, South Africa, Association for Farming Systems Research and Extension). pp. 224-233. (KAES Contribution Number 98-431-J).
153. (With L. Bloomquist, S. Freyenberger, D. Regehr, B. Schurle, and R. Janke). "Farmers' attitudes about on-farm research: results of a Kansas survey". *Journal of Natural Resources and Life Sciences Education*, 27:1-7. (KAES Contribution Number 96-72-J).
154. (With A. Kaliba and A. Featherstone). "Profitability of milk production using improved stall-fed cattle in semi-arid Tanzania". *Journal of Agricultural Economics and Development*, 2:3-12. (KAES Contribution Number 98-8-J).
155. (With H.B. Gurung). "Summary of Forum 2: sustainability indicators". (In Ranaweera, H. Gunasena., and Y. Senanayake (eds.), *Changing Agricultural Opportunities: The Role of Farming Systems Approaches. Proceedings of the 14<sup>th</sup> International Symposium on Sustainable Farming Systems, Colombo, Sri Lanka, 11<sup>th</sup> - 16<sup>th</sup> November*, Colombo, Asian Farming Systems Association). pp. 263-267.
156. (With E. Gilbert and S. Weise). "Summary of Forum 9: participatory methods". (In Ranaweera, H. Gunasena., and Y. Senanayake (eds.), *Changing Agricultural Opportunities: The Role of Farming Systems Approaches. Proceedings of the 14<sup>th</sup> International Symposium on Sustainable Farming Systems, Colombo, Sri Lanka, 11<sup>th</sup> - 16<sup>th</sup> November*, Colombo, Asian Farming Systems Association). pp. 459-562.

#### YEAR 1999

157. (With M. Abaru and A. Featherstone). "Credit to low-income women in Uganda". (In G. Peters and J. von Braun (eds.), *Food Security, Diversification and Resource Management:*

- Refocusing the Role of Agriculture? Proceedings of the 23<sup>rd</sup> International Conference of Agricultural Economists, Sacramento, 10<sup>th</sup> - 16<sup>th</sup> August, Aldershot, Ashgate). Poster session. pp. 651-652.*
158. (With S. Sall, C. Guvele and A. Featherstone). "Efficiency measures, farming systems research and extension activities in Southern Senegal and the Sudan Gezira". (In G. Peters and J. von Braun (eds.), *Food Security, Diversification and Resource Management: Refocusing the Role of Agriculture? Proceedings of the 23<sup>rd</sup> International Conference of Agricultural Economists, Sacramento, 10<sup>th</sup> - 16<sup>th</sup> August, Aldershot, Ashgate). Poster session. pp. 650-651.*
  159. (With S. Sall and A. Featherstone). "Farmer preferences and the adoption of improved rice varieties in the Casamance, Senegal". (In G. Peters and J. von Braun (eds.), *Food Security, Diversification and Resource Management: Refocusing the Role of Agriculture? Proceedings of the 23<sup>rd</sup> International Conference of Agricultural Economists, Sacramento, 10<sup>th</sup> - 16<sup>th</sup> August, Aldershot, Ashgate). Poster session. p. 650.*
  160. "Chapter 3: Overview of working group conclusions". (In J. Sutherland and P. Mundy (eds.), *Towards Increased Use of Demand Driven Technology. Syntheses of Themes and Group Discussions from the KARI/DFID NARP II Project End of Project Conference, Nairobi, Kenya, 23<sup>rd</sup> - 26<sup>th</sup> March, Nairobi, Kenya Agricultural Research Institute and Department for International Development). pp. 7-11.*
  161. "Chapter 5: Synthesis of Theme 1 – Use of participatory approaches in agricultural research". (In J. Sutherland and P. Mundy (eds.), *Towards Increased Use of Demand Driven Technology. Syntheses of Themes and Group Discussions from the KARI/DFID NARP II Project End of Project Conference, Nairobi, Kenya, 23<sup>rd</sup> - 26<sup>th</sup> March, Nairobi, Kenya Agricultural Research Institute and Department for International Development). pp. 17-27.*
  162. "Chapter 6: Synthesis of Theme 2 – Risk reduction and improved household security in mixed farming". (In J. Sutherland and P. Mundy (eds.), *Towards Increased Use of Demand Driven Technology. Syntheses of Themes and Group Discussions from the KARI/DFID NARP II Project End of Project Conference, Nairobi, Kenya, 23<sup>rd</sup> - 26<sup>th</sup> March, Nairobi, Kenya Agricultural Research Institute and Department for International Development). pp. 31-42.*
  163. ((With R. Janke, M. Claassen, W. Heer, J. Jost, S. Freyenberger). "Winter annual cover crops in a wheat-grain sorghum rotation: on-farm and on-station research, 1995/97". *Kansas Sustainable Agriculture Series*, No. 6. Manhattan: Kansas Agricultural Experiment Station. (Electronic version. Site: <http://www.oznet.ksu.edu /sustainableag>). Also in hard copy version. (KAES Contribution Number 99-389-D).

#### YEAR 2000

164. "The farming systems approach: a personal evolution". (In M. Collinson (ed.), *A History of Farming Systems Research*, Wallingford, CABI Publishing). pp. 30-33. (KAES Contribution Number 96-389-B).
165. "Farm management and the farming systems approach". (In M. Collinson (ed.), *A History of Farming Systems Research*, Wallingford, CABI Publishing). pp. 293-98. (KAES Contribution Number 96-388-B).
166. (With L. Bloomquist, R. Janke, S. Freyenberger, J. Jost, and B. Schurle). "The meaning of sustainable agriculture: reflections of a few Kansas practitioners". *American Journal of Alternative Agriculture*, 15(3):129-136. (KAES Contribution Number 96-424-J).
167. (With P. Matlon). "Systems research and technical change". (In E. Crawford and J. P. Collin (eds.), *Research on Agricultural Systems: Accomplishments, Perspectives and Methods*, Huntington, Nova Science Publishers). pp. 19-47. (KAES Contribution Number 98-433-B).
168. (With P. Lall and A. Featherstone). "Productive efficiency and growth policies for the Caribbean". *Applied Economics*, 32:1484-1493 (KAES Contribution Number 98-352-J).

169. (With S. Tubene, and A. Featherstone). "Efficiency and productivity measures of low income countries: implications for development". *Department of Agricultural Economics Research Report* Number 31. Manhattan: Department of Agricultural Economics, Kansas State University.
170. (With A. Kaliba). "Using canonical correlation analysis to assess community participation and management in, and sustainability of, water utility projects: the example of Dodoma and Singida Regions, Tanzania. Abstract in *Program and Abstracts of the 16<sup>th</sup> Symposium of the International Farming Systems Association (IFSA) and the 4th Symposium of the Latin America Farming Systems Association (IESA), Santiago, Chile, 27th-29th November*, p. 13, and full paper on the CD of *IFSA/IESA, 16<sup>th</sup> Symposium of the International Farming Systems Association (IFSA) and the 4th Symposium of the Latin America Farming Systems Association (IESA), Santiago, Chile, 27th-30th November*, paper 408.
171. (With J.M. Mafuru and T. Schrader). "Institutionalizing the Farming Systems Approach Through Time: The Experience of the Lake Zone, Tanzania". Abstract in *Program and Abstracts of the 16<sup>th</sup> Symposium of the International Farming Systems Association (IFSA) and the 4th Symposium of the Latin America Farming Systems Association (IESA), Santiago, Chile, 27th-29th November*, p. 9, and full paper on the CD of *IFSA/IESA, 16<sup>th</sup> Symposium of the International Farming Systems Association (IFSA) and the 4th Symposium of the Latin America Farming Systems Association (IESA), Santiago, Chile, 27th-30th November*, paper 406.
172. (With C. Guvele, A. O'Toole Salinas, and B. D'Silva). "Developing a viable food production strategy in a complex humanitarian emergency: the case of South Sudan". Abstract in *Program and Abstracts of the 16<sup>th</sup> Symposium of the International Farming Systems Association (IFSA) and the 4th Symposium of the Latin America Farming Systems Association (IESA), Santiago, Chile, 27th-29th November*, page 1, and full paper on the CD of *IFSA/IESA, 16<sup>th</sup> Symposium of the International Farming Systems Association (IFSA) and the 4th Symposium of the Latin America Farming Systems Association (IESA), Santiago, Chile, 27th-30th November*, paper 407.
173. (With Y. Duval and R. Pacudan). "A holistic approach to energy technology evaluation in Thailand". *International Energy Journal*, 1(1):15-28.
174. (With S. Sall and A. Featherstone). "Quantitative assessments and the adoption of improved rice varieties in Casamance, Senegal: the farmers' perspective". *Agricultural Systems*, 66: 129-144 (KAES Contribution Number 98-121-J).

#### YEAR 2001

175. (With M. Ali, Tofinga, M. and M. Umar (eds.)), *Improvement and Development of Traditional Farming Systems for the South Pacific, Proceedings of an IRETA Workshop, Apia, Samoa, 18<sup>th</sup> - 22<sup>nd</sup> October, Apia, Samoa*, Institute for Research, Extension and Training in Agriculture, University of the South Pacific. 158p.
176. "Role of the farming systems approach to development (FSD) in the improvement of traditional farming systems". (In Norman, D., I. Ali, M. Tofinga and M. Umar (eds.), *Improvement and Development of Traditional Farming Systems for the South Pacific, Proceedings of an IRETA Workshop, Apia, Samoa, 18<sup>th</sup> - 22<sup>nd</sup> October, Apia, Samoa*, Institute for Research, Extension and Training in Agriculture, University of the South Pacific, 158p.). pp. 49-56. (KAES Contribution Number 00-164-A).
177. "Examples of successful FSD Approaches in the improvement of farming systems". (In Norman, D., I. Ali, M. Tofinga and M. Umar (eds.), *Improvement and Development of Traditional Farming Systems for the South Pacific, Proceedings of an IRETA Workshop, Apia, Samoa, 18<sup>th</sup> - 22<sup>nd</sup> October, Apia, Samoa*, Institute for Research, Extension and Training in Agriculture, University of the South Pacific, 158p.). pp. 113-125. (KAES Contribution Number 00-165-A).

178. "Directions and approach to technology transfer/dissemination appropriate to traditional farming systems". (In Norman, D., I. Ali, M. Tofinga and M. Umar (eds.), *Improvement and Development of Traditional Farming Systems for the South Pacific, Proceedings of an IRETA Workshop, Apia, Samoa, 18<sup>th</sup> - 22<sup>nd</sup> October, Apia, Samoa*, Institute for research, Extension and Training in Agriculture, University of the South Pacific, pp. 158). pp. 126-34. (KAES Contribution Number 00-163-A).
179. (With M. Tofinga). "Conclusions and recommendations for the plenary session". (In Norman, D., I. Ali, M. Tofinga and M. Umar (eds.), *Improvement and Development of Traditional Farming Systems for the South Pacific, Proceedings of an IRETA Workshop, Apia, Samoa, 18<sup>th</sup> - 22<sup>nd</sup> October, Apia, Samoa*, Institute for Research, Extension and Training in Agriculture, University of the South Pacific, 158p.). pp. 141-48.
180. (With S. Freyenberger, R. Levins, and D. Rumsey). "Beyond profitability: using financial indicators to measure sustainability". *American Journal of Alternative Agriculture*, 16(1):31-34. (KAES Contribution Number 00-270-J).
181. (With P. Lall and M. Langemeier). "A comparative analysis of productive efficiency among Kansas crop farms: small versus large Farms". *Journal of the American Society of Farm Managers and Rural Appraisers*, 2001:99-106.
182. "Institutionalization of technology development". (In Yajima, M. and K. Tsurumi (eds.), *Agricultural Technology Research for Sustainable Development in Developing Regions, JIRCAS International Symposium Series No. 9, Proceedings of the 7<sup>th</sup> Japanese International Research Centre for Agricultural Sciences (JIRCAS) Conference, Epochal Tsukuba, Japan, 1st-2nd November*, Epochal Tsukuba, JIRCAS and Ministry of Agriculture, Forestry and Fisheries, 127p.). pp. 87-98.
183. "Survival and sustainability in low-income countries: incorporating farming households in the struggle". (In Organizing Committee of ICAST (eds.), *Promoting Global Innovation of Agricultural Science and Technology and Sustainable Agriculture Development: Session 2, Volume 1. Proceedings of the International Conference on Agricultural Science and Technology, Beijing, China, 7<sup>th</sup>-9<sup>th</sup> November*, 391p.). pp. 112-124.
184. (With F. Worman, J. Siebert, and E. Modiakgotla). "The farming systems approach to development and appropriate technology generation". *Farming Systems Management Series No. 10*. Rome: AGSP, Food and Agricultural Organization of the United Nations. 256 pages. This is the Arabic version.
185. (With M. Obwona), *Status of Agricultural Economics in Selected Countries in Eastern and Southern Africa*. Prepared for the The International Food Policy Research Institute (IFPRI) in Collaboration with The East and Central Africa Program for Agricultural Policy Analysis (ECAPAPA) and the African Economic Research Consortium (AERC) with Support from the Rockefeller Foundation (Nairobi). Washington DC: 2020 Vision, International Food Policy Research Institute. 138p. (Published on the web at: <http://www.ifpri.org/2020/nw/statusafrica.htm>).
186. (With M. Obwona). "Status of agricultural economics in selected countries in Eastern and Southern Africa: executive summary". (In IFPRI (ed.), *Proceedings of Stakeholder Workshop on the Status of Agricultural Economics in East and Southern/Central Africa, Nairobi, Kenya, October 9-10*, Washington DC, 2020 Vision, International Food Policy Research Institute, 32p.). pp. 7-14. Published on the web at: <http://www.ifpri.org/2020/nw/stakeholder.pdf>).
187. (With A. Kaliba and W. Mwangi). "Marginal value of improved maize seeds and inorganic fertiliser under stochastic yield distribution". *Quarterly Journal of International Agriculture*, 40(3):239-250.
188. (With A. Kaliba, and W. Mwangi). "Marginal value of improved seeds and inorganic fertilizer under stochastic yield distribution". (In G. Peters and B. Pingali (eds.), *Tomorrow's Agriculture: Incentives, Institutions, Infrastructure and Innovations? Proceedings of the 24<sup>th</sup> International Conference of Agricultural Economists, Berlin, Germany, 12th-19th August*, Aldershot, Ashgate). Poster session. p. 794.

## YEAR 2002

189. (With R. Janke, M. Claassen, W. Heer, J. Jost, S. Freyenberger). "The use of winter annual legume cover crops in a wheat-grain sorghum rotation in South Central Kansas". *Journal of Sustainable Agriculture*, 20(2):65-88. (KAES Contribution Number 99-178-J).
190. (With P. Lall and A. Featherstone). "Productivity growth in the Western Hemisphere (1983-92): the Caribbean in perspective". *Journal of Productivity Analysis*, 17(3):213-232. (KAES Contribution Number 98-352-J).
191. (With J. Peterson). "Sustainable farming systems in the Central and Eastern European (CEE) countries". Invited keynote address. (In F.W. Gatzweiler, R. Judis and K. Hagedorn (eds.), *Sustainable Agriculture in Central and Eastern European Countries: The Environmental Effects of Transition and Needs for Change, Nitra, Slovakia, September 10th-16th*, Aachen, Germany, Shaker Verlag, 378 p.). pp. 65-79.
192. (With R. Burton, Jr., S. Freyenberger, R. Jones, and J. Jost). "Part 1: Gross margin analysis for sustainable agriculture. Part 1A: Definitions and enterprise analysis". *Kansas Sustainable Agriculture Series Paper Number 8*. Manhattan: Kansas Agricultural Experiment Station. (Electronic version. Site: <http://www.kansasustainableag.org/Library/S.htm#sustainableagriculture>). (KAES Contribution Number 01-178-D). 18 pages.
193. "The farming systems approach: a historical perspective". Invited Paper for Plenary Session. Abstract in *Program and Abstracts of the 17<sup>th</sup> Symposium of the International Farming Systems Association (IFSA), Lake Buena Vista, Florida, 17th-19th November*, pp. 3-4, and full paper on the CD disc *IFSA, 17<sup>th</sup> Symposium of the International Farming Systems Association (IFSA), Lake Buena Vista, Florida, 17th-19th November*, 12 pages.
194. (With C. E. Bussing). "Sorghum based farming systems in Botswana: the challenges of improving rural livelihood in a drought prone environment". (In Jusila, H., R. Majoral and B. Cullen (eds.), *Spatial Dimensions of Marginality: Issues of Population, Globalization and Education in Marginal Regions*, Aldershot, UK, Ashgate Publishing Ltd., 370 p.). pp. 149-158.

## YEAR 2003

195. (With P. Lall and A. Featherstone). "Determinants of U.S. direct foreign investment in the Caribbean". *Applied Economics*, 35:1485-1496.
196. (With A. Kaliba and M. Chang). "Willingness to pay to improve domestic water supply in rural areas of Tanzania: implications for policy". *The International Journal of Sustainable Development and World Ecology*, 10:119-132. (KAES Contribution Number 03-23-J).
197. (With T.K. Tellei and R.V. Bishop). *Capacity Training in Farm Management, Marketing, Value-Adding Technologies for Sustainable Livelihoods in Palau*. Koror, Republic of Palau: Bureau of Agriculture, Ministry of Resources and Development, Republic of Palau and Food and Agricultural Organization of the United Nations. 84 pages.
198. (With T.K. Tellei and R.V. Bishop). *Palau Farm Record Book*. Koror, Republic of Palau: Bureau of Agriculture, Ministry of Resources and Development, Republic of Palau and Food and Agricultural Organization of the United Nations. 17 pages.
199. "Reforming higher agricultural education in the context of the changing realities in Eastern and Southern Africa". (In Patel, B.K., M. Maina, J. Hagemann, P. Woomer and E. Adipala, *Curriculum Development and Transformation in Selected African Universities in the Areas of Development and Resource Management: Proceedings of a Strategy Workshop at the Rockefeller Foundation's Bellagio Centre, Italy, November 12th-16th, 2001*, 82 p.). *Forum Working Document Number 7*. Nairobi, Kenya: The Rockefeller Foundation. pp. 49-57.

#### YEAR 2004

200. (With A. Kaliba). "Assessing sustainability of community-based water utility projects in Central Tanzania with the help of canonical correlation analysis". *Journal of Environmental Assessment Policy and Management*, 6(1):73-90.
201. (With R. Burton, Jr., S. Freyenberger, R. Jones, and J. Jost). "Part 1: Gross margin analysis for sustainable agriculture. Part 1B: Sensitivity analysis and partial budgeting". *Kansas Sustainable Agriculture Series Paper* Number 9. Manhattan: Kansas Agricultural Experiment Station. On the web at: <http://www.kansassustainableag.org/Library/S.htm#sustainableagriculture>.
202. (With A. Nafiz, F. Shafeega, J. Mpungu, and A. Itao). *Old, Existing and Potential Income Generation Activities in the Maldives*. Male, Maldives: Ministry of Atolls Development, UNDP and UNESCAP. 160p.
203. "Why them and us? Why not together?" *International Outlook*, November.
204. "Helping small farmers think about better growing and marketing: an introduction for trainers and specialists". *Pacific Farm Management and Marketing Series Part 1*. Apia, Samoa: Food and Agricultural Organization of the United Nations. 35p.
205. (With Others). "Helping small farmers think about better growing and marketing: a reference manual". *Pacific Farm Management and Marketing Series Part 3*. Apia, Samoa: Food and Agricultural Organization of the United Nations. 143p.

#### YEAR 2005

206. (With E. Ogunyinka and M. Langemeier). "International agricultural productivity". *KSU Department of Agricultural Staff Paper* No. 05-03. Manhattan: Department of Agricultural Economics, Kansas State University.
207. (With J. Mafuru, and S. Kamuntu). "Strengthening market-orientation of agricultural research in low-income countries: the case of sorghum in the Lake Zone, Tanzania". Abstract in *Program and Abstracts of the 18<sup>th</sup> Symposium of the International Farming Systems Association (IFSA), Rome, Italy, 31<sup>st</sup> October – 3<sup>rd</sup> November*, and full paper on the CD disc *IFSA, 17<sup>th</sup> Symposium of the International Farming Systems Association (IFSA), Rome, Italy, 31<sup>st</sup> October – 3<sup>rd</sup> November*, 8 pages.
208. (With L. Small, H. Peterson and B. Flinchbaugh). "Production subsidies and the welfare of West African farmers: the example of cotton". *KSU Department of Agricultural Economics Research Report* No. 37. Manhattan: Department of Agricultural Economics, Kansas State University.

#### YEAR 2006

209. (With Y. Yahshilikov, A. Biere and M. Langemeier). "Institutional reforms and their impact on agricultural production in the Central Asian Transition Countries". *KSU Department of Agricultural Economics Research Report* No. 38. Manhattan: Department of Agricultural Economics, Kansas State University.
210. (With H. A. Cader), "Entrepreneurship education for the African informal sector". (In A. Fayolle and H. Klandt (eds.), *International Entrepreneurship Education: Issues and Newness*, Cheltenham, UK, Edward Elgar, 306 pages). pp. 277-295.
211. (With Others), "Best practices and lesson learning from people centred development approaches with a livelihoods perspective". *Proceedings of a Pacific Island Countries Workshop, Customs Building, Apia, Samoa, 19<sup>th</sup> - 22<sup>nd</sup> July*. Rome, Italy: Livelihoods Diversification and Enterprise Development Sub-Programme, Food and Agricultural Organization of the United Nations. 89 pages.
212. "Commercialisation of small farmers' agriculture: some generalisations from the case studies". In *FAO, Helping small farmers think about better growing and marketing: case studies of*

commercialization of small farmers' agriculture. *Pacific Farm Management and Marketing Series Part 5*. Apia, Samoa: Food and Agricultural Organization of the United Nations. pp. 1-8.

213. (With B.A Abaru, A.W. Mugeru and A.M Featherstone). The Uganda Rural Farmer Scheme: Women's Accessibility to Agricultural Credit. *Agricultural Finance Review*, 66(2 -- Special Issue):215-234.

#### YEAR 2007

- 214 (With Others). "Asian regional workshop on best practices in livelihoods diversification and enterprise development". *Proceedings of a Workshop held at FAO Regional Headquarters, Bangkok, Thailand, 14<sup>th</sup>-17<sup>th</sup> November*. Rome, Italy: Livelihood Support Programme, FAO, Rome. 61 pages.

#### YEAR 2012

- 215 "Accelerating and sustaining African agricultural development". (In Mutsaers, H.J.W. and P.W.M. Kleene (eds), *What is the Matter with African Agriculture: Veterans' Visions Between Past and Future*, Amsterdam, KIT Publishers, 383 pages). pp. 140-45.

#### YEAR 2015

- 216 "Transitioning from paternalism to empowerment of farmers in low-income countries: farming components to systems." *Journal of Integrative Agriculture*, 14(8):1490-99.

#### YEAR 2017

- 217 (With K. Atta-Krah). "Systems research for agricultural development: past, present and future". (In Ingrid Öborn, I., Vanlauwe, B., Phillips, M., Thomas, R., Brooijmans, W. and K. Atta-Krah (eds), *Sustainable Intensification in Smallholder Agriculture. An Integrated Systems Research Approach*, London and New York, Routledge, Taylor and Francis Group, 380 pages). pp. 19-42.

#### FORTHCOMING

- 216 (With Others). "The Cereal-Root and Tuber Crops Farming System". To be published by FAO, Rome.

## **B. PROJECT AND CONSULTANCY PAPERS-- DESIGN AND EVALUATION (MOSTLY WRITTEN WITH OTHERS)**

### YEAR: 1977

1. *Design of Programme de Recherches sur les Systemes de Production Agricole.* Mali. Funded by IDRC. [Individual Consultant]

### YEAR: 1978

2. *Design of Mixed Farming and Natural Resource Management Project.* Gambia. Funded by AID. [Team Member]

### YEAR: 1980

3. *Design of Agricultural Development (Research and Extension) Project.* Zambia. Funded by AID. [Team Member]
4. *Evaluation of Agricultural Economics Research in ISRA Project.* Senegal. Funded by AID. [Team Member]

### YEAR: 1981

5. *Design of Agricultural Technology Improvement Project.* Botswana. Funded by AID. [Team Leader]
6. *Review of CIP's On-Farm Research Program.* Peru. Funded by CIP. [Team Member]

### YEAR: 1983

7. *In-House Review of Future Direction of On-Farm Research in the CIAT Bean Program.* Colombia. Funded by CIAT. [Team Member].

### YEAR: 1986

8. *External Panel Review of ILCA.* Ethiopia. Funded by TAC, CGIAR. [Team Member].

### YEAR: 1987

9. *Project Paper Supplement for Extension of ATIP/MIAC Contract to September 1990.* Botswana. [Chief of Party].

### YEARS 1982-90

10. *Production of Annual and Semi-Annual Reports of the Agricultural Technology Improvement Project.* One or two per year. Botswana. [Chief of Party].

### YEAR: 1991

11. *External Review of the Economics Program of CIMMYT.* Mexico. Funded by CIMMYT. [Team Member].
12. *External Review of Lake Zone Farming Systems Research Project (Phase I).* Tanzania. Funded by Netherlands Government. [Team Leader].
13. *Formulation Document for Phase II of the Lake Zone Farming Systems Research Project.* Tanzania. Funded by the Netherlands Government. [Team Leader].

YEAR: 1992

14. *Report of the Third External Programme and Management Review of the International Livestock Centre for Africa (ILCA)*. Ethiopia, Kenya and Nigeria. Funded by the TAC Secretariat. (Published in 1993). [Team Member].
15. *A National Farming Systems Research Strategy for Tanzania: Report of a Task Force*. Funded by the Netherlands Government. [Team Leader].
16. *A Formative Evaluation of the FAO/SIDA Farming Systems Programme*. Botswana, Zambia, Tanzania, Kenya, Sweden and Italy. Funded by FAO/SIDA. [Team Leader].

YEAR: 1992

17. *Role of the SADC/ICRISAT Sorghum and Millet Improvement Programme (SMIP) in Supporting National On-Farm Research Activities on Sorghum and Millet Technologies*. Zimbabwe. Funded by ICRISAT. [Individual Consultant].
18. *Rural Development in Western Province, Zambia: a Review of Netherlands Supported Programmes and Projects and Evaluation of the Adaptive Research Planning Team, the Land Water Management Project and the Rice Promotion Programme*. Funded by the Netherlands Government. [Team Leader].
19. *Proposal for Phase IV of the Farming Systems Research Project, Western Province, Zambia*. Funded by The Netherlands Government. [Team Leader].
20. *Sustainable Development of Rural Households: a Special Action Programme of FAO*. Funded by the Food and Agricultural Organization of the United Nations. [Individual Consultant].

YEAR: 1994

21. *Bangladesh Agricultural Support Services Project: Mid-Term Review*. Supported by the World Bank. Review funded by the Overseas Development Administration, UK. [Team Leader].
22. *Kenya Second National Extension Project: Mid-Term Review*. Supported by the World Bank. Review funded by the World Bank and donors including The Netherlands Government. [Team Member].
23. *Input into the Extension/Research Linkage into the Phase II of the Planned Tanzanian Agricultural Extension Programme Phase II*. Funded by the World Bank. [Individual Consultant].

YEAR: 1995

24. *Report of the Fourth External Programme and Management Review of the International Institute of Tropical Agriculture (IITA)*. Nigeria, Benin, Ghana and Ivory Coast. Funded by the TAC Secretariat, Food and Agricultural Organization of the United Nations. [Team Member].
25. *Netherlands Project Identification Mission, Western Kenya, May 16th-June 8th*. Funded by the Netherlands Ministry of Foreign Affairs. [Team Leader].
26. *Mission d'Appui en Renforcement de l'Implication des Paysans dans la Recherche, Mali*. Funded by the Royal Tropical Institute, Amsterdam, Netherlands. [Individual Consultant].

YEAR: 1996

27. *Netherlands Support to the National Agricultural Research Project, Phase II, Kenya Agricultural Research Institute: Report of the Mid-Term Mission*. Funded by the Royal Netherlands Embassy, Nairobi, Kenya. [Team Leader].

28. *Report of the Fourth External Programme and Management Review of the International Crops Research Institute for the Semi-Arid Tropics (ICRISAT)*. India. Funded by the TAC Secretariat, Food and Agricultural Organization of the United Nations. [Team Member].

YEAR: 1997

29. *External Evaluation of Farming Systems and Environmental Studies (FSES) Project, Bangladesh Agricultural University, Mymensingh*. Bangladesh. Funded by the Ford Foundation. [Team Leader].
30. *Facilitating Agricultural Development with the Farming Systems Approach to Development, AGSP, AGS, FAO, Rome*. Funded by FAO. [Individual Consultant].
31. *Facilitator Report of Session at International Workshop on Shaping Effect Collaboration Among Stakeholders in Regional Agricultural Research and Development in Sub-Saharan Africa, Amsterdam*. Netherlands. Funded by the Royal Tropical Institute, Netherlands. [Individual Consultant].
32. *Operationalizing the Proposed Research and Advisory Services Division, Ministry of Agriculture and Forests, Kingdom of Tonga*. Funded by FAO. [Individual Consultant].
33. *FAO-SAPA Terminal Report with Respect to Reimbursable Loan Agreement 97/01/SAPA Concerning the Kingdom of Tonga*. Funded by FAO. [Individual Consultant].

YEAR 1998

34. *Evaluation of the Forum Programme Supported by the Rockefeller Foundation*. Kenya, Malawi, Uganda. Funded by the Rockefeller Foundation. [Team Leader].
35. *Institutional Capacity with Reference to Applied Microeconomics in Eastern and Southern Africa*. Kenya, Malawi, Uganda, Tanzania and Zimbabwe. Funded by the Rockefeller Foundation. [Individual Consultant].
36. *Improving Rural Livelihoods in N and E Uganda Through Innovative Systems for Client-Led Agricultural Technology Generation and Dissemination*. Funded by the Department for International Development, UK. [Team Member].

YEAR 1999

37. *Capacity Building Evaluation of the Rockefeller Foundation funded International Program for Rice Biotechnology (IPRB) in Asia*. China, India, Indonesia, Pakistan, Malaysia, Philippines, South Korea, Thailand, and Vietnam. Funded by the Rockefeller Foundation. [Team Leader]

YEAR 2000

38. *Materials Developed on a Short Assignment with the Farm Management and Production Economics Service (AGSP), Agricultural Services Division (AGS), FAO, Rome, Italy*. Funded by FAO. [Individual Consultant].
39. *An Assessment of the Informal Employment and Sustainable Livelihoods Project (IESL), Republic of Palau*. Funded by UNDP through a sub-contract with FAO, Fiji. [Team Leader].
40. *Formulation of a Follow-On Project for the Informal Employment and Sustainable Livelihoods Project (IESL), Republic of Palau*. Funded by UNDP through a sub-contract with FAO, Fiji. [Team Leader].
41. *Terminal Report on SPPD Between FAO-SAPA and UNDP on "Small Enterprise Development and Sustainable Livelihoods, The Republic of Palau"*. Funded by UNDP through a sub-contract with FAO, Fiji. [Team Leader].
42. *Independent External Review of the International Centre for Development Oriented Research in Agriculture (ICRA), Wageningen, Netherlands*. Funded by ICRA. [Team Leader].

## YEAR 2001

41. *Status of Agricultural Economics in Selected Countries in Eastern and Southern Africa: Appendix J (Confidential): Quantitative” Assessment of Strength of Departments.* Ethiopia, Kenya, Malawi, Mozambique, Rwanda, South Africa, Tanzania, Uganda and Zimbabwe. Study implemented for The International Food Policy Research Institute (IFPRI) in Collaboration with The East and Central Africa Program for Agricultural Policy Analysis (ECAPAPA) and the African Economic Research Consortium (AERC) with Support from the Rockefeller Foundation (Nairobi). [Team Leader].

## YEAR 2002

42. *Independent External Review of the Special Programme for Food Security (SPFS), The Food and Agricultural Organisation of the United Nations, Rome, Italy.* Bolivia, Chile, Ecuador, Eritrea, Haiti, Tanzania and Zambia. Funded by FAO. [Independent Consultant].
43. *Field Guide for Implementing Participatory Food Crop Demonstrations in Vanuatu. Farming Systems Programme, Division of Agricultural and Rural Development (DARD), Ministry of Agriculture, Quarantine, Forestry and Fisheries (MAQFF), Tagabe Station, Port Vila, Vanuatu.* Produced in Support of “Capacity Building for Farming Systems Development in Support of the Special Programme for Food Security, Vanuatu (Project Number: TCP/VAN/0165)”. Funded by FAO. [Team Leader].
44. *Principles for Designing, Implementing and Evaluation of Demonstration Plots in Vanuatu. Farming Systems Programme, Division of Agricultural and Rural Development (DARD), Ministry of Agriculture, Quarantine, Forestry and Fisheries (MAQFF), Tagabe Station, Port Vila, Vanuatu.* Produced in Support of “Capacity Building for Farming Systems Development in Support of the Special Programme for Food Security, Vanuatu (Project Number: TCP/VAN/0165)”. Funded by FAO. [Independent Consultant].
45. *End of Mission Report of Consultancy in Support of “Capacity Building for Farming Systems Development in Support of the Special Programme for Food Security, Vanuatu (Project Number: TCP/VAN/0165)”. Funded by FAO. [Team Leader].*
46. *Capacity Building in Farm Management, Marketing, Value-Adding Technologies for Sustainable Livelihoods in Palau: a Training Manual, Bureau of Agriculture, Ministry of Resources and Development, Koror, Republic of Palau.* Produced in support of “Capacity Building in Farm Management, Marketing, Value-Adding Technologies for Sustainable Livelihoods (Project Number: TCP/PAL/2801(A))”. Funded by FAO. [Team Leader].
47. *End of Mission Report of Consultancy in Support of “Capacity Building In Farm Management, Marketing, Value-Adding Technologies For Sustainable Livelihoods (Project Number: TCP/PAL/2801(A))”. Funded by FAO. [Team Leader].*
48. *Forum for Natural Resource Husbandry: Overview and Proposal for Future Direction. Report Produced for the Rockefeller Foundation on a Program that Operates in Five Countries and 10 Universities in Eastern and Southern Africa.* Kenya, Malawi, Mozambique, Uganda and Zimbabwe. Funded by the Rockefeller Foundation. [Team Leader].

## YEAR 2003

49. *First Mission Report of the Study on “New and Old (Existing and Potential) Avenues for Income Generation Activities in the Maldives”. Male, Maldives, June 5<sup>th</sup> -29<sup>th</sup>.* Implemented for the United Nations Development Programme (UNDP), Male, Maldives and The United Nations Economic and Social Commission for Asia and the Pacific (UNESCAP), Bangkok, Thailand. Funded by UNDP. [Team Leader].
50. *Mission Report on Finalizing Training Materials in Farm Management and Agricultural Marketing Extension for Small Farmers in the Pacific, Samoa, August 24<sup>th</sup> - September 7<sup>th</sup>.* Funded by FAO. [Independent Consultant].

51. *Second Mission Report of the Study on "New and Old (Existing and Potential) Avenues for Income Generation Activities in the Maldives". Male, Maldives, October 2<sup>nd</sup> -26<sup>th</sup>. Implemented for the United Nations Development Programme (UNDP), Male, Maldives and The United Nations Economic and Social Commission for Asia and the Pacific (UNESCAP), Bangkok, Thailand. Funded by UNDP. [Team Leader].*
52. *Study of "Old, Existing and Potential Income Generation Activities in the Maldives". Implemented for the United Nations Development Programme (UNDP), Male, Maldives and The United Nations Economic and Social Commission for Asia and the Pacific (UNESCAP), Bangkok, Thailand. Funded by UNDP. [Team Leader].*
53. *"Regional Agricultural Sector Training and Capacity Needs Assessment, Tanzania, Kenya and Uganda,2003". Funded by BIFAD/USAID. [Independent Consultant].*

#### YEAR 2004

54. *End of Mission Report on "Capacity Building for Farming Systems Development in the Solomon Islands (Project Number: SOI/3001 (T)), Solomon Islands, June 29<sup>th</sup> to July 30<sup>th</sup>". Funded by FAO. [Team Leader].*
55. *Field Guide for Implementing Participatory Food Crop Evaluation Trials in the Solomon Islands, Department of Agriculture and Livestock, Ministry of Agriculture and Lands, Honiara, Solomon Islands. Produced in support of on "Capacity Building for Farming Systems Development in the Solomon Islands (Project Number: SOI/3001 (T))". Manual finalized in 2005. Funded by FAO. [Team Leader].*
56. *Report to FAO, Apia, Samoa of Samoan Assignment, 7<sup>th</sup> – 24<sup>th</sup> July. Funded by FAO. [Independent Consultant].*
57. *End of Mission Report on "Capacity Building for Farming Systems Development in the Solomon Islands (Project Number: SOI/3001 (T)), Solomon Islands, August 12<sup>th</sup> – 24<sup>th</sup> August". Funded by FAO. [Team Leader].*

#### YEAR 2005

58. *Alternative Proposal for the Tourist Development of the Mossman Gorge, Far Northern Queensland, Australia, January – March. Done with Aborigine community leaders. [Volunteer Consultant].*

#### YEAR 2006

59. *Prepared the proceedings of *The Asian Regional Workshop on Best Practices in Livelihoods Diversification and Enterprise Development*". held at FAO Regional Headquarters, Bangkok, Thailand, 14<sup>th</sup>-17<sup>th</sup> November. [Independent Consultant].*

#### YEAR 2007

60. *Mid-Term Review of the Collaborative MSc in Agricultural and Applied Economics (CMAAE) Programme, Eastern, Central and Southern Africa. Funded by CMAAE. [Team Leader].*

#### YEAR 2008

61. *Helped the leadership of the Collaborative MSc in Agricultural and Applied Economics (CMAAE) Programme, Eastern, Central and Southern Africa headquartered in Nairobi, Kenya prepare a successful funding proposal (i.e., about \$8 million) to the Bill and Melinda Gates and Rockefeller Foundations for continuing the training activities of the CMAAE Programme. Exercise funded by CMAAE.*

#### YEAR 2015

62. *Assessment visit to ACIAR Project CSE/2009/024 "Sustainable Intensification of Maize-Legume*

*Cropping Systems for Food Security in Eastern and Southern Africa (SIMLESA)*". Funded by the Australian Council of International Agricultural Research (ACIAR). [Independent Consultant].

63. *Mid-Term Review Report: Sustainable Intensification of Maize-Legume Cropping Systems for Food Security in Eastern and Southern Africa — Phase II (SIMLESA-2)*.

## **C. UNPUBLISHED CONFERENCE, WORKSHOP PAPERS, REPORTS INCLUDING TRIP REPORTS, AND DRAFTS, ETC**

### YEAR: 1972

1. "Socioeconomic studies in the rural areas of the northern states of Nigeria". *Prepared for a Symposium on Research on Rural Employment Problems in Africa*, Bellagio, Italy, October 23th-27th, 1972.

### YEAR: 1973

2. "Employment as a development objective: what about the small farmer?" *Given as Ahmadu Bello University Public Lecture*, February 13th. 1973. Ahmadu Bello University Public Lecture, 1972-73 session.
3. "Incorporating the time dimension: the case of crop mixtures in northern Nigeria". *Prepared for a Workshop on Multiple Cropping* sponsored by IDRC and IRRI, Los Banos, Philippines, April 10th-11th, 1973.
4. "Essentials for agricultural development and implications for agricultural growth". *Given at Course on Cooperative Growth for Agricultural Development*, Bagauda, Kano, October 21st-26th, 1974.

### YEAR: 1975

5. "The role of social scientist in micro-orientated agricultural research". *Given at Conference on Social Research and National Development in Nigeria*, Ibadan, October, 1975.
6. (With G.O. Abalu). "The scope of labour intensive technology in indigenous agriculture in Nigeria". *Given at the Conference on Economic Development and Employment in Nigeria*, Ibadan, November 2nd-7th, 1975.
7. (Written for Vice-Chancellor of Ahmadu Bello University). "Higher education and the food crisis". *For conference sponsored by the American Council of Education*, Washington, USA.

### YEAR: 1976

8. "The social scientist in farming systems research". *Given at Workshop on Farming Systems Research in Mali*, sponsored by the Institut d'Economie Rurale and the Ford Foundation, Bamako, Mali, November 15th-20th, 1976.
9. "Farming systems research in the context of Mali". *Synthesis produced for workshop in 8 above*, Bamako, Institut d'Economie Rurale, Mali. (Also in French).
10. (With Longhurst R. and R.W. Palmer-Jones). "Problems of determining relevant research priorities for agricultural development in the developing world: the role to be played by the social scientist".
11. (With Pryor, D.H. and W.J. Kroeker). "A comment on the relationship between family organization and improved farming practices in Hausaland".
12. (With H. M. Hays). "Food crop production prospects in northern Nigeria".

### YEAR: 1977

13. "Further thoughts concerning agricultural technology". *Discussant at Conference on Political Aspects of World Food Problems*, Manhattan, KSU, March 4th-5th, 1977.
14. "Problems associated with the gathering of technical, economic and social data at the farm level in West Africa". *Given at International Conference on the Economic Development of Sahelian Countries*, Montreal, CRDE, October 13th-14th, 1977. (KAES Contribution Number 78-228-A).

15. "Notes concerning evaluation of improved cropping systems by CATIE". *Written as result of CATIE, Costa Rica Consultancy*, September 1977.

YEAR: 1978

16. "Interim report concerning the socio-economic input in the technological package thrust". *Report on the KSU-CLSU consultancy in the Philippines*, January 20th-21st, 1978.
17. "Commentary on the scope and content of rural development programmes". *Invited for Colloque sur l'Amelioration des Systemes de Production Agricole*, Bamako, Mali, IER, 20<sup>th</sup> February – 1<sup>st</sup> March, 1978.
18. "Gambia mixed farming and natural resource management project: the socio-economic component". *Report on the Gambia consultancy*, June 23rd-July 6th, 1978.
19. "Hunger in a world of plenty". *Convocation Speaker*. Newton, Bethel College, March 16th, 1979.
20. "Politics of working at the village level". *Tropical Agriculture Seminar*, Newton, Bethel College, June 29th, 1979.
21. (With M. J. Roth). "Role of animals in the small farm enterprise". *Given at Workshop on Small Farms in Developing Countries*, Bellagio, Italy, October 18th-23rd, 1978.
22. (With H. M. Hays). "Farm management patterns by ecological zones: northern states of Nigeria". (KAES Contribution Number 79-129-B).

YEAR: 1980

23. "General overview of farming systems research". *Invited paper for Workshop on Methodological Issues Facing Social Scientists in Applied Crop and Farming Systems Research*, CIMMYT, Mexico, April 1st-3rd, 1980.
24. (With E. Gilbert). "Farming systems research programs in developing countries: some general characteristics and possible roles for US universities". *Presented at a conference on The Role U.S. Universities in International and Rural Development*, Tuskegee Institute, April 16th-18th, 1980.
25. "Farming system project in Mali Sud". *Trip report on Mali consultancy*, November 29th - December 11th, 1980.
26. "Ford Foundation, Ibadan, Nigeria". *Trip report on Workshop on Farming Systems Research*, Ibadan, IITA, November 26th-27th, 1980.

YEAR: 1981

27. "Review of CIP's on-farm research program for optimizing potato productivity". *Given at review of CIP's On-Farm Research Program*, Peru, January 8th-14th, 1981.
28. "Trip report". *Report on the KSU-GOP consultancy in the Philippines*, March 9th-22nd, 1981.
29. "Farming systems research in the semi-arid tropics of Africa: definition and examples". *Given at Symposium on World Hunger*, Lincoln, University of Nebraska, April 23rd, 1981.
30. "Why African food shortages and what needs to be done". *Given at Kansas and the Midwest's Economic Relations with Africa Conference*, Wichita, The Africa-American Institute, June 18th-20th, 1981.
31. "Farming systems research: current status and future direction". *Given at Farming Systems Research Seminar*, Ithaca, Cornell University, September 16th, 1981.

YEAR: 1983

32. "Helping resource poor farmers: the Agricultural Technology Improvement Project, Botswana". *Given at Workshop for US Technicians Preparing for Overseas Assignments*, Kansas State University, Kansas, May 10th - 14th, 1983.
33. "The farming systems approach". *Given at Farming System Workshop*, Denman Rural Training Centre, Sebele, Botswana, June 28th - 29th, 1983.

YEAR: 1984

34. "Trip Report of consultancy to Tunisia, March 1984". *Trip Report*.
35. "Institutionalising the farming systems approach to research". *Seminar given at INAT*, Tunis, Tunisia, 12th March, 1984.

YEAR: 1985

36. "Farming systems research in Africa -- an overview". *Given at The Farming Systems Seminar*, Nhlalango, Swaziland, 22nd-23rd April, 1985.
37. (With D. Nygaard). "Report of visit to FOFIFA, Ministry of Science and Technology, Madagascar, 8th - 15th November, 1985". *Consultancy report*.

YEAR: 1986

38. (With G.M. Heinrich and E. Modiakgotla). "Enhancing the productivity of national agricultural research programmes through farming systems research: the case of the semi-arid areas of Sub-Saharan Africa". *Invited paper given at International Drought Symposium* sponsored by SAFGRAD, OAU, Nairobi, Kenya, 19th-23rd May 1986. *ATIP MP86-3*.
39. "Farming systems work and extension". *Paper given at the Extension Crop Officers Meeting*, Denham Rural Training Center, Sebele, Botswana, 18th-19th December.

YEAR: 1987

40. (With D. Baker). "Incentives for the development of the arable (cereal) sub-sector: the small-scale farmer". *Prepared for Panel Discussion on Crop Incentives for the Development of the Arable Sub-Sector (Cereals) in Botswana*, hosted by BOSAD Gaborone, Botswana, 18th March.
41. "Trip report of How Systems Work, 7th Annual Farming Systems Symposium, University of Arkansas, 18th-22nd October".
42. "Trip report of Farmers and Agricultural Research: Complementary Methods Workshop, IDS, University of Sussex, England, 27th-31st July, 1987".

YEAR: 1988

43. (With S. Bock). "Policy trade-offs". *Background paper produced for The Botswana Agricultural Sector Study*. *ATIP MP 88-20*.
44. (With P. Molutsi). "Methodologies for development research in rural areas". *Presented at Workshop on Development Research*, Gaborone, National Institute of Research, University of Botswana.

YEAR: 1989

45. (With A. Caplan and E. Makhwaje). "Cooperators baseline survey, Mahalapye, 1988/89". *ATIP PR M89-2*.
46. (With E. Modiakgotla). "Planning, management and evaluation of on-farm experiments: issues in Botswana". *Invited for CIMMYT Workshop on Issues Relating to Planning, Management and Evaluation of On-Farm Experiments*, Arusha, Tanzania, December 4th-8th, 1989.

YEAR: 1990

47. "A personal view on progress of, and lessons learned from, ATIP: an outline". *Presented to MIAC Management Operating Committee*, Jefferson City, Missouri, 31st January.

48. "Interaction between national research programmes and regional resource management research: the need for a systems perspective". *Invited paper presented at SACCAR Sponsored Workshop on Planning and Development of the SADCC Land and Water Management Research Programme*, Gaborone, Botswana, 2nd-5th April, 1990.
49. (With A. Low). "Apple Ile programmes for measuring area and Gini coefficients". *ATIP PR G90-1*.
50. (With F. Worman, and A. Caplan). "Suggested standards: volume and labour coefficients". *ATIP PR G90-2*
51. (With D. Pratt). "Harnessing farming systems concepts and methods for community and area development". *Consultancy report for FAO/AGSP, Rome, Italy*.
52. Personal comments on SACCAR/SPAAR Workshop, November, 1990, Gaborone, Botswana". *Requested by IBRD, Washington, as a result of a consultancy*.

YEAR: 1991

53. "Work of micro-oriented social in Africa: contribution and challenges". *Invited seminar to Nairobi Cluster Social Scientists Group*, 9th April, Nairobi, Kenya.
54. "Internal team issues and interaction with thematic research". *Invited paper for Research Management Workshop: Priority Setting in Farming Systems Research and Development*, Royal Tropical Institute (KIT), Amsterdam, The Netherlands, 9th-13th December, 1991. (KAES Contribution Number 92-301-A).

YEAR: 1992

55. "Farming systems work: its potential for Bophutswana". *Notes for invited talk to Senior Agricultural Officials of AGRICOR*, Mmabatho, Bophutswana, South Africa, 28th February, 1992.
56. (With T. Frankenberger and P. Hildebrand). "Agricultural research in developed countries: past, present and future of farming systems research and extension (FSR/E)". *Invited paper for Farming Systems Symposium, 1992 American Society of Agronomy Meeting*, Minneapolis, Minnesota, 1st-6th November. (Abstract published in Proceedings).
57. "Closing remarks". *Remarks at the closing of the Research Management Workshop: Priority Setting in Farming Systems Research and Development*, Royal Tropical Institute (KIT), Amsterdam, The Netherlands, 9th-13th December, 1991.

YEAR: 1993

58. "African experience with farming systems research and extension: need for incorporating a policy/support system dimension". *Invited seminar at The Development Bank of Southern Africa*, Halfway house, South Africa, 4th June.
59. (With S. Freyenberger). "Farmers and experimentation in Kansas: results of a survey. Some preliminary observations". *Paper given at the North American Symposium of the Association of Farming Systems Research and Extension*, Gainesville, University of Florida, 12-16th October.
60. "Why AFSRE North America? Part of a worldwide movement". *Invited presentation at the North American Symposium of the Association of Farming Systems Research and Extension*, Gainesville, University of Florida, 12-16th October.

YEAR: 1994

61. "Problems and challenges of agricultural development in Africa". *Invited seminar given at the University of Pretoria*, Pretoria, South Africa, 4th March, 1994.
62. "Hunger Around the World: Causes and Solutions". *Invited talk to Retired Teachers Association*, Manhattan, 6th April, 1994.

- 63. "Development and helping others". *Invited talk to students preparing for Community Service Work in Latin America*, Summer 1994, 4th April, 1994.
- 64. "Politics of population growth". *Invited lecture to a Political Science Issues Class*, 15th September, 1994.
- 65. (With S. Tubene). "Institutional dimensions of development research". *Invited discussant at the Thirteenth International Symposium on Systems-Oriented Research in Agriculture and Rural Development*, Montpellier, France, 21st-25th November.

YEAR: 1995

- 66. "Development and helping others". *Invited talk to students preparing for Community Service Work in Africa and Latin America*, Summer 1995, 17th February, 1995.
- 67. (With S. Tubene). "African drought: impact on rural livelihoods and implications for development". *Invited for International Symposium on African Drought*, International Centre for Theoretical Physics, Trieste, Italy, 31st July-4th August.
- 68. "Reports on FAO Project Farming Systems Training for Sustainable Development (TCP/RAS/4452) to Apia, Western Samoa, July 1st-28th and November 13<sup>th</sup> – 29<sup>th</sup>". *Trip Reports*.

YEAR 1996

- 69. "Report on FAO Project Farming Systems Training for Sustainable Development (TCP/RAS/4452) to Tonga and Fiji, July 24<sup>th</sup> - August 11<sup>th</sup>". *Trip Report*.
- 70. "Report for FAO Project Farming Systems Training for Sustainable Development (TCP/RAS/4452) to Apia, Western Samoa, July 1st-28th and November 13<sup>th</sup> - 29<sup>th</sup>". *Draft Terminal Report*.

YEAR 1997

- 71. "The failure of agricultural development and its linkages to the urban economy". *Invited for The Political Economy of Humanitarian Emergencies Project*, United Nations and Oxford Universities, UK, 3rd-5th July.
- 72. (With M. Umar). "The farming systems approach to development in the South Pacific: value, principles and challenges". *Paper given at The VII Pacific Science Inter-Congress "Islands in the Pacific Century*, The University of the South Pacific, Suva, Fiji Islands, 13th-19th July.

YEAR 1998

- 73. (With P. Lall and A.M. Featherstone). "Location-specific determinants of US direct foreign investment in the Caribbean". *Paper given at the Southern Agricultural Economics Association Meeting*, February.
- 74. (With P. Lall and A.M. Featherstone). "Efficiency Enhancing Growth Policies for the Caribbean". *Paper given at the Southern Agricultural Economics Association Meeting*, February 1998.

YEAR 1999

- 75. "Experiences in international development". *Paper invited for 5<sup>th</sup> Annual Creation and Creativity Conference on Love and the Land: Christians and the Environment*, St. Francis Episcopal Student Fellowship, Manhattan, Kansas State University, April.

#### YEAR 2000

76. "Agricultural development: aid and imperatives". *Invited talk to Retired KSU Agronomists Group*, 2<sup>nd</sup>. March.
77. (With P. Lall and M. Langemeier). "A comparative analysis of productive efficiency among Kansas crop farms: small versus large farms". *Paper given at the American Agricultural Economics Association Meeting*, July 30<sup>th</sup>-August 2<sup>nd</sup>.
78. "The reality of biotechnology: an imperative for Africa". *Invited paper for the Sixth Annual Meeting of the Mid-America Alliance for African Studies*, Manhattan, Kansas State University, 30<sup>th</sup> September.
79. (With A. Kaliba, W. Mwangi). "Marginal value of improved seeds and inorganic fertilizer under stochastic yield distribution". *Supporting paper for poster presented at the XXIVth International Conference of Agricultural Economists*, Berlin, Germany, 12th-19th August.

#### YEAR 2001

80. "Helping low-income countries? Why? How?" *Invited presentations to Manhattan Rotary Club (January 18th), Manhattan Solar Kiwanis (March 19<sup>th</sup>), and Retired Faculty of the Department of Agricultural Economics, Kansas State University (May)*.
81. "Helping others: some personal observations". *Invited talk (March 13th) to students preparing for International Community Service Work*, Summer 2001.
82. (With J. Stroade and S. Freyenberger). "The struggle for survival and sustainability: farming households in low-income countries". *Paper given at the Global Stewardship and Environmental Ethics Symposium at the 56<sup>th</sup> Annual Meeting of the American Scientific Affiliation*, Kansas State University, Manhattan, Kansas, July 20-23<sup>rd</sup>, 2000.

#### YEAR 2002

83. (With A. Kaliba and Y-M Chang). "Willingness to pay to improve domestic water supply in rural areas of Central Tanzania: implications for policy". *Paper given at Second World Congress of Environmental Resource Economists*, Monterey, California, June 24th - 27th, 2002.
84. "The farming systems approach and sustainable livelihoods". *Invited lecture given at Palau Community College*, Koror, Republic of Palau, September 20<sup>th</sup>.

#### YEAR 2003

85. "The reality of biotechnology: an imperative for low-income countries". *Invited lecture for Professor Nafziger's class on Environmental Economics (Econ 527)*, 21<sup>st</sup> April.
86. "Development: why and how to help others?" *Invited talk to students preparing for International Community Service Work*, Summer 2003, February 18th.
87. (With E. O. Ogunyinka). "Optimal dietary blending for household food security in southwestern Nigeria: lessons from published data". *Paper given at the Western Agricultural Economics Association Annual Meeting*, The Denver Adam's Mark Hotel, Denver, Colorado, July 11<sup>th</sup> -15<sup>th</sup>, 2003.
88. (With K.F. Luabeya). "Support agricultural development in Africa? If so, why and how?" *Talk given at Risk and Profit Conference, Summer 2003 on Are U.S. Farmers Losing, Winning or Holding on to their Competitive Edge?*, Kansas State University Agricultural Experiment Extension Service, Manhattan, Kansas, August 14<sup>th</sup> -15<sup>th</sup>.
89. (With H. A. Cader). "Entrepreneurship Education for the African Informal Sector". *Paper given at Internationalizing Entrepreneurship Education and Training Conference*, 2003, Grenoble, France, September, 8<sup>th</sup> -10<sup>th</sup>, 2003.

90. (With Y. Yahshilikov). "Agriculture development in Central Asia". *Paper given at Central Eurasian Studies Society (CESS) 4<sup>th</sup> Annual Conference*, Cambridge, Mass., October 1<sup>st</sup>-3<sup>rd</sup>, 2003.

#### YEAR 2004

91. "Support agricultural development in Africa? If so, why and how?" *Invited presentation at International Agricultural Seminar (GENAG 780), College of Agriculture, Kansas State University*, February 2nd, 2004.
92. "Does development matter? If so what is it and how is it done?" *Invited talk to students preparing for International Community Service Work*, Summer 2004, February 24th.
93. "The reality of biotechnology: an imperative for low-income countries". *Invited lecture for Professor Nafziger's class on Environmental Economics (Econ 527)*, 26<sup>st</sup> April.
94. (With L. Small). "Production subsidies and the welfare of West African farmers: the example of cotton". *Talk given at Risk and Profit Conference, Summer 2004 on Advancing Agricultural Management with Economics*, Kansas State University Agricultural Experiment Extension Service, Manhattan, Kansas, August 19<sup>th</sup>-20<sup>th</sup>.
95. "Agricultural development in Africa: develop it or dump it?" *Invited for presentation at International Education Award Ceremony, Kansas State University*, November 19th, 2004.

#### YEAR 2005

96. "Does development matter? If so what is it and how is it done?" *Invited talk to students preparing for International Community Service Work*, Summer 2005, Spring 2005.
97. "The reality of biotechnology: an imperative for low-income countries". *Invited lecture for Professor Nafziger's class on Environmental Economics (Econ 527)*, Spring 2005.
98. "From paternalism to empowerment: evolution of the farming systems and participatory approaches to development in low income countries". *Invited for The Distinguished Graduate Faculty Lecture, Kansas State University*, Manhattan, Kansas, February 24<sup>th</sup>, 2005.
99. "Agricultural development in Africa: develop it or dump it?" *Invited presentation at International Agricultural Seminar (GENAG 780), College of Agriculture, Kansas State University*, February 7th, 2005.
100. "Brief overview of People Centred Development Approaches with a Livelihoods Perspective (PCD-L) and its relevance to the Pacific Island Countries". *Invited plenary presentation at the workshop on Best Practices and Lesson Learning from People Centred Development Approaches with a Livelihood Perspective, Apia, Samoa*, 19<sup>th</sup> to 22<sup>nd</sup> July.
101. (With H. Bammann and M. Wairiu). "Empowering small farmers through capacity building of government service providers: lessons from short-term projects in the Pacific Island Countries". *Abstract in Program of the 18<sup>th</sup> Symposium of the International Farming Systems Association (IFSA), Rome, Italy*, 31<sup>st</sup> October – 3<sup>rd</sup> November.
102. (With M. Cobb). "Global Poverty and Hunger: Millennium Development Goals and Africa". *Invited presentation to the Unitarian Universalist Fellowship, Manhattan*, September 11th, 2005.
103. "Report on the Pacific Livelihoods Workshop, Apia, Samoa, 19<sup>th</sup>-22<sup>nd</sup> July, 2005". *Given at FAO Headquarters, Rome, Italy*, November 4<sup>th</sup>.
104. "Trade and Poverty in Low-income Countries". *One of two invited panelists on Voice of America "Talk to America" Program*, 11.00am to Noon EST, 19<sup>th</sup> December.

#### YEAR 2006

105. "Mossman Gorge tourism development: an alternative proposal". *Developed for members of Kuku Yalanji Kubirri Clan, Mossman, Far Northern Queensland, Australia*, January – March.

106. (With M.L. Andreu, H.H. Peterson, and O. Grunwald), "Biotechnology and economic development: the economic benefit of maize streak virus tolerant maize in Kenya". *Paper given at Southern Agricultural Economics Association Meeting, Orlando, Florida, February 5<sup>th</sup>-8<sup>th</sup>.*
107. "Does development matter? If so what is it and how is it done?" *Invited talk to students preparing for International Community Service Work, Summer 2006.*

#### YEAR 2007

108. "Does development matter? If so what is it and how is it done?" *Invited talk to students preparing for International Community Service Work, Summer 2006.*
109. "From paternalism to empowerment: evolution of the farming systems and participatory approaches to development". *Invited Lectures at Chinese Universities (Hohhet, Langzhou, Hebei and Beijing), August 2007.*
110. (With J.M Mafuru and M.J. Langemeier). "Ex-ante adoption analysis for improved sorghum varieties in the Lake Zone, Tanzania". *Paper given at The 8<sup>th</sup> African Crops Science Society (ACSS) Conference, El-Minia, Egypt, 27<sup>th</sup> – 31<sup>st</sup>, October.*
111. (With J.M Mafuru and J. Fox). "Consumer perceptions of sorghum variety attributes in the Lake Zone, Tanzania". *Paper given at the African Association of Agricultural Economics (AAAE), Accra, Ghana, August.*
112. (With A. Kaliba). "Willingness to pay for improving primary education in Tanzania". *Draft Manuscript.*
113. (With A. Kaliba and T. Marsh). "Neighbourhood influence on economic efficiency of community-based rural water utilities: a spatial tobit model". *Draft Manuscript.*

#### YEAR 2010

114. (With L. Nalley). "Technology and Policy in Indonesian Sustainable Agricultural Development". *Invited presentation for the Indonesia-USA Partnership Agricultural Technology and Investment Forum held in Jakarta, Indonesia, 6th-7th October.*

#### YEAR 2013

115. "Transitioning from Paternalism to Empowerment of farmers in low-income countries; farming components to systems". *Invited keynote speech given at "The 4<sup>th</sup> International Farming Systems' Design Symposium" to be held in Lanzhou, China, 19<sup>th</sup>-22<sup>nd</sup> August, 2013.*

#### YEAR 2015

116. "Historical Trajectory of Farming Systems Research: Past, Present and Future." *Invited keynote address given at conference on Integrated Systems Research for Sustainable Intensification in Smallholder Agriculture, International Institute of Tropical Agriculture (IITA), Ibadan, Nigeria, March 3-6, 2015.*

## **CONSULTANCIES, CONFERENCES, SEMINARS AND WORKSHOPS INVOLVING SPECIFIC CONTRIBUTIONS**

Note: Most of these were invited with expenses paid by the sponsoring agency.

### **AFRICA**

1. Nigerian Agricultural Society, Zaria, Nigeria, 1968. Paper read.
2. Conference of Assistant Registrars of Cooperative Societies in the Northern States, Kaduna, Nigeria, 1968. Invited paper read.
3. Meeting of Senior Civil Servants of Northern States Ministries, Kaduna, Nigeria, 1969. Invited paper read.
4. Conference on National Reconstruction and Development in Nigeria, Ibadan, Nigeria, 1969. Discussant.
5. Conference on Livestock Development in the Dry and Intermediate Savannah Zones, Zaria, Nigeria, 1969. Discussant.
6. Nigerian Agricultural Society, Ibadan, Nigeria, 1970. Invited paper read.
7. Conference on Traditional African Agricultural Systems and their Improvement, Ibadan, Nigeria, 1970. Invited paper read.
8. Seminar at CRIN, Ibadan, Nigeria, 1971. Invited paper read.
9. Conference on Factors of Agricultural Growth in West Africa, Legon, Ghana, 1971. Two invited papers read.
10. NADC Seminar, Ibadan, Nigeria, 1971.
11. Development from Below Field Trip/Workshop, Addis Ababa, Ethiopia, October 1973. Invited paper and expenses paid by OLC.
12. FOA/NORAD West African Seminar on Agricultural Planning, Ahmadu Bello University, Zaria, Nigeria, 27th January - 2nd February, 1974. Invited papers.
13. Research on Rural Employment Problems in Africa, Debre Zeit, Ethiopia, October 1974. Invited paper and expenses paid by Michigan State University.
14. Conference on Social Research and National Development in Nigeria, Ibadan, October 1975. Invited paper.
15. Symposium on Intercropping in Semi-Arid Areas, Morogoro, Tanzania, 10<sup>th</sup> - 12<sup>th</sup> May, 1976. Invited paper and expenses paid by IDRC.
16. Workshop on Farming Systems Research in Mali, organised by Institut d'Economie Rurale, Bamako, Mali, 15<sup>th</sup> - 20<sup>th</sup> November, 1976. Invited paper and expenses paid by the Ford Foundation.
17. Middle East and African Agricultural Seminar for Ford Foundation personnel, Tunis, 1<sup>st</sup> - 3<sup>rd</sup> February, 1977. Invited paper and expenses paid by Ford Foundation.
18. Participated in a mission at the request of the Government of Mali to produce a proposal: "Pour un Programme de Recherche sur les Systemes de Production Agricole," Mali, June - July, 1977. Proposal produced and accepted and expenses paid by the Ford Foundation.
19. Improving Farm Production Systems in the Sahel Colloquium, IER, Bamako, Mali, February 20<sup>th</sup> - March 1<sup>st</sup>, 1978. Invited paper and expenses paid by USAID.
20. Helped in preparing Project Paper for proposed Gambia Mixed Farming and Natural Resources Management Project, Banjul, Gambia, June 23<sup>rd</sup> - July 6<sup>th</sup>, 1978. Expenses paid by USAID.
21. Helped in preparing Project Paper for Agricultural Development (Research and Extension) in Zambia, June - July, 1980. Expenses paid by AID through Michigan State University.
22. Workshop on Farming Systems Research, IITA, Nigeria, 26<sup>th</sup> - 27<sup>th</sup> November, 1980. Expenses paid by Ford Foundation.
23. Consultant on Farming Systems Project, Mali Sud, 29<sup>th</sup> November - 10<sup>th</sup> December, 1980. Expenses paid by IDRC, Canada.

24. Helped prepare Project Paper for Agricultural Economics Research within ISRA, Senegal, 11<sup>th</sup> - 18<sup>th</sup> December, 1980. Expenses paid by Michigan State University/USAID.
25. Helped prepare Project Paper on the Agricultural Technology Improvement Project in Botswana, 25<sup>th</sup> June - 9<sup>th</sup> August, 1981. Expenses paid by MIAC/USAID.
26. Meeting as member of Programme Committee of ILCA, Addis Ababa, Ethiopia, 1<sup>st</sup> - 7<sup>th</sup> December, 1981. Expenses paid by ILCA.
27. Visit to Botswana to confer on proposed Agricultural Technology Improvement Project, 9<sup>th</sup> - 17<sup>th</sup> December, 1981. Expenses paid by USAID/Botswana.
28. Agricultural and Rural Development Officers Workshop, Africa Bureau, USAID, Ibadan, Nigeria, 10<sup>th</sup> - 13<sup>th</sup>, 1982. Invited paper and expenses paid by USAID.
29. Workshop on On-Farm Experimentation, IITA and CIMMYT, Ibadan, Nigeria, 31<sup>st</sup> May - 4<sup>th</sup> June, 1982. Expenses paid by IITA.
30. Seminar for Senior Agricultural Research Administrators from Eastern and Southern Africa on the Introduction of On-Farm Research with a Farming Systems Perspective, CIMMYT, Nairobi, Kenya, 18<sup>th</sup> - 20<sup>th</sup> April, 1983. Invited paper and expenses paid by CIMMYT.
31. Seminar on Agronomic Adjustment to the 400 - 600mm Rainfall Zone, SADCC, Harare, Zimbabwe, 14<sup>th</sup> - 16<sup>th</sup> September, 1983. Invited paper and expenses paid by SADCC.
32. Member of Comite Scientifique et Technique, Institut Senegalais de Recherches Agricoles, Ministere de la Recherche Scientifique et Technique, ISRA, Dakar, Senegal, 1983-1992. Expenses paid by USAID/IBRD.
33. Consultant to INAT, Tunisia on Farming Systems Research, 9<sup>th</sup> - 13<sup>th</sup> March, 1984. Expenses paid by MIAC / USAID Tunisian Project.
34. Fertiliser Efficiency Research and Technology Transfer Workshop for Africa, Institute of Agronomic Research, Douala, Cameroon, 21<sup>st</sup> - 25<sup>th</sup> January, 1985. Invited paper and expenses paid by IFDC.
35. Seminar on Farming Systems and Extension, Nhlangano, Swaziland, 22<sup>nd</sup> - 23<sup>rd</sup> April, 1985. Invited paper and expenses paid by USAID/Swaziland.
36. Visit to FOFIFA, Ministry of Science and Technology, Madagascar, 8<sup>th</sup> - 15<sup>th</sup> November, 1985, to give advice on desirability of implementing an FSR programme. Expenses paid by USAID/Madagascar.
37. West African Farming Systems Networkshop, Dakar, Senegal, 10<sup>th</sup> - 14<sup>th</sup> March, 1986. Invited paper and expenses paid by IDRC.
38. External Panel Review of ILCA, Addis Ababa, four weeks April/May 1986. Report produced and funded by TAC, CGIAR.
39. Third Annual Conference on Food Security Research in Southern Africa, Harare, Zimbabwe, 1<sup>st</sup> - 5<sup>th</sup> November, 1987. Invited paper and expenses paid by Michigan State University.
40. SPAAR/IBRD Workshops in Washington, USA and Gaborone, Botswana, September and November, 1990. Invited participation and expenses paid by IBRD.
41. Workshop for Research-Extension Administrators from East and Southern Africa, 8<sup>th</sup> -12<sup>th</sup> April, 1991, Nairobi, Kenya. Keynote address and expenses paid by CIMMYT.
42. Seminar to Nairobi Cluster Social Scientists Group, 9<sup>th</sup> April, 1991, Nairobi, Kenya. Expenses paid by CIMMYT.
43. External Review of Lake Zone Farming Systems Research Project, 31<sup>st</sup> May-29<sup>th</sup> June, 1991, Mwanza and Bukoba, Tanzania. Report produced and funded by Netherlands Government.
44. Formulation of Phase II of Lake Zone Farming Systems Research Project, 28<sup>th</sup> August-14<sup>th</sup> September, 1991, Mwanza and Bukoba, Tanzania. Report produced and funded by Netherlands Government.
45. External Panel Review of ILCA, 27<sup>th</sup> September - 21<sup>st</sup> October, 1991, Kenya, Ethiopia and Nigeria; also 6<sup>th</sup> - 25<sup>th</sup> January 1992. Report produced and funded by TAC/CGIAR, World Bank.
46. The Southern African Farming Systems Research-Extension Conference, Johannesburg, South Africa, 25<sup>th</sup> - 27<sup>th</sup> February, 1992. Two invited papers and expenses paid by the Development Bank of Southern Africa.

47. Seminar to Senior Agricultural Officials of AGRICOR, Mmabatho, South Africa, 28<sup>th</sup> February, 1992. Expenses paid by AGRICOR.
48. Team Leader of Task Force to plan a National Farming Systems Research Strategy for Tanzania, Dar Es Salaam, 4<sup>th</sup> - 18<sup>th</sup> June, 1992. Report produced and funded by the Netherlands Government.
49. Networkshop on Impacts of On-Farm Research, Harare, 23<sup>rd</sup> - 26<sup>th</sup> June, 1992. Invited paper and expenses paid by CIMMYT.
50. FSR short course for agricultural research and extension officers in the Ministry of Agriculture, Botswana, Mahalapye, 29<sup>th</sup> June - 3<sup>rd</sup> July, 1992. Seven lectures -- lecture notes duplicated -- and expenses met by USAID Botswana.
51. SADCC/ICRISAT Research Planning Meeting, Bulawayo, Zimbabwe, 21<sup>st</sup> - 26<sup>th</sup> September, 1992. Invited paper and expenses paid by ICRISAT.
52. Team Leader of External Review of FAO/SIDA FSR Programme, Botswana, Zambia, Zimbabwe, Tanzania, Kenya, Sweden and Italy, 6<sup>th</sup> October - 1<sup>st</sup> November, 8<sup>th</sup> - 10<sup>th</sup> November, 18<sup>th</sup> - 21<sup>st</sup> November, 1992. Report produced and funded by FAO.
53. Examination of the role of the SADC/ICRISAT Sorghum and Millet Improvement Programme (SMIP) supporting national on-farm research activities on sorghum and millet technologies, Zimbabwe, 14<sup>th</sup> - 27<sup>th</sup> March, 1993. Report produced and funded by ICRISAT.
54. The Southern African Farming Systems Research-Extension Conference, Ezulweni, Swaziland, 1<sup>st</sup> - 3<sup>rd</sup> June, 1993. Invited keynote address and funded by Southern Africa Farming Systems Research and Extension Association.
55. Invited seminar to Development Bank of Southern Africa, Halfway House, South Africa, 4<sup>th</sup> June, 1993. Expenses paid by the Development Bank.
56. Team Leader of team to evaluate Netherlands funded Rural Development Projects in Western Province, Zambia, 2<sup>nd</sup> - 29<sup>th</sup> September, 1993. Report produced and funded by the Netherlands Government.
57. Team Leader of team to design Phase IV of Netherlands funded Farming Systems Research Project, Western Province, Zambia, 3<sup>rd</sup> - 21<sup>st</sup> December, 1993. Report produced and funded by the Netherlands Government.
58. Conference on Extension Services in the Nineties, Olifantsfontein, South Africa, 1<sup>st</sup> - 3<sup>rd</sup> March, 1994. Invited paper and expenses paid by the Development Bank of Southern Africa.
59. Invited seminars at the University of Orange Free State, Bloemfontein, South Africa, 28<sup>th</sup> February and University of Pretoria, Pretoria, South Africa, 4<sup>th</sup> March, 1994. Expenses paid by the universities.
60. Member of mid-term review team evaluating the Second Kenya National Extension Project, 12<sup>th</sup> August - 1<sup>st</sup> September, 1994. Report produced and funded by the Netherlands Government.
61. Helped the Extension/Research Task Force in designing inputs into the Tanzanian Extension Plan Phase II, 8<sup>th</sup> - 23<sup>rd</sup> October, 1994. Report produced and funded by the World Bank.
62. Member of the Fourth External Programme and Management Review of the International Institute of Tropical Agriculture (IITA), Nigeria, Benin, Ghana, Ivory Coast, three weeks November 1994 and two weeks April 1995. Report produced and funded by the Technical Advisory Committee (TAC), FAO.
63. Member of the Netherlands Project Identification Mission, Western Kenya, May 16<sup>th</sup> - June 8<sup>th</sup>, 1995. Report produced and funded by the Netherlands Ministry of Foreign Affairs.
64. Consultancy on the research programme of the Farming Systems Production and Natural Resources Team at Sikasso, Institute of Rural Economy, Mali, 23<sup>rd</sup> August - 8<sup>th</sup> September, 1995. Report produced and funded by the Royal Tropical Institute, Amsterdam, Netherlands.
65. Co-Team Leader of Mid-Term Review Mission of Netherlands Support to the National Agricultural Research Project, Phase II, Kenya Agricultural Research Institute, 20<sup>th</sup> September - 11<sup>th</sup> October, 1996. Report produced and funded by the Royal Netherlands Embassy, Nairobi, Kenya.

66. Member of a DFID sponsored Project Preparation Mission in northern Uganda, 15<sup>th</sup> May - 13<sup>th</sup> June, 1998. Report finalized and funded by the Department for International Development, UK.
67. Team Leader of the Forum Programme Review Mission, and Survey of Applied Microeconomic Capacity, Kenya, Tanzania, Uganda, Malawi, Zimbabwe, 24<sup>th</sup> July - 18<sup>th</sup> August and 19<sup>th</sup> September - 20<sup>th</sup> October, 1998. Two reports produced and funded by the Rockefeller Foundation.
68. Attendance at the 15<sup>th</sup> International Symposium of the Association of Farming Systems Research and Extension, 29<sup>th</sup> November - 4<sup>th</sup> December, 1998, Pretoria, South Africa. Presented two papers, panel discussant, member of constitution review, and responsible for recommendations concerning the journal future, and attended Board meeting.
69. Team Leader of a group of facilitators at DFID NARP II End of Project Conference, Kenya Agricultural Research Institute, Nairobi, Kenya, 23<sup>rd</sup> - 26<sup>th</sup> March, 1999. Presented two synthesis papers, chaired sessions and coordinated final synthesis. Funded by the Department for International Development, UK.
70. Team Leader of a study on the Status of Agricultural Economics in Selected Countries in Eastern and Southern Africa, May - November, 2001. Visits to institutions in nine countries – Ethiopia, Kenya, Malawi, Mozambique, Rwanda, South Africa, Tanzania, Uganda and Zimbabwe -- and presentation at a Stakeholders Workshop. Report produced and done for IFPRI, ECAPAPA, and AERC with support from the Rockefeller Foundation.
71. Team leader of a Review of and Proposals for the Future of the Forum Programme, July-November. Visits to ten universities in five countries in Eastern/Southern Africa (i.e., Kenya, Malawi, Mozambique, Uganda and Zimbabwe) for 50 days between July and November. Funded by the Rockefeller Foundation.
72. Attended meeting of the International Association of Agricultural Economists (IAAE), Durban, South Africa, August 2003.
73. Participated in a regional agricultural sector training and capacity needs assessment study in Tanzania, Kenya and Uganda, 2003, 19 days in November 2003. Funded by BIFAD/USAID.
74. Team leader of a Mid-Term Review of the Collaborative MSc in Agricultural and Applied Economics (CMAAE) Programme, Kenya, Rwanda, South Africa, Zimbabwe, Zambia, Malawi and Uganda, 6<sup>th</sup>- 31<sup>st</sup> October, 2007. Funded by CMAAE.
75. Helped the leadership of the *Collaborative MSc in Agricultural and Applied Economics (CMAAE) Programme, Eastern, Central and Southern Africa* headquartered in Nairobi, Kenya prepare a successful funding proposal (i.e., about \$8 million) to the Bill and Melinda Gates and Rockefeller Foundations for continuing the training activities of the CMAAE Programme. Periods between July to December, 2007. Involved trips to Florida and Nairobi. Preparation of the proposal funded by CMAAE.
76. Invited keynote address given at conference on Integrated Systems Research for Sustainable Intensification in Smallholder Agriculture, International Institute of Tropical Agriculture (IITA), Ibadan, Nigeria, March 3-6, 2015. Expenses paid by IITA.
77. Assessment visit to project on “Sustainable Intensification of Maize-Legume Cropping Systems for Food Security in Eastern and Southern Africa (SIMLESA)”. 13<sup>th</sup>-21<sup>st</sup> March, 2015. Visit to Harare, Zimbabwe paid by the Australian Council of International Agricultural Research (ACIAR).

**Note:** The list does not usually include conferences, workshops and seminars attended at Ahmadu Bello University, Northern Nigeria while in the Department of Agricultural Economics and Rural Sociology, Ahmadu Bello University, Nigeria, 1965-1976, or in the Ministry of Agriculture, Botswana, while with the Agricultural Technology Improvement Project, Department of Agricultural Research, Ministry of Agriculture, Botswana, 1982-1990.

## **ASIA, SOUTH PACIFIC AND MIDDLE EAST**

1. Workshop on Multiple Cropping, IRRI, Los Banos, Philippines, April 1973. Invited paper and expenses paid by IDRC.
2. Workshop on Field Data Collection in Rural Areas of Africa and the Middle East, Beirut, Lebanon, 8<sup>th</sup> - 14<sup>th</sup> December, 1974. Invited paper and expenses paid by ADC.
3. Conference on Village Studies, Delhi, India, 16<sup>th</sup> - 20<sup>th</sup> December, 1974. Invited paper and expenses paid by IDS, University of Sussex.
4. South and South East Asia Cropping System Network Workshop, organised by IRRI, Los Banos, Philippines, 18<sup>th</sup> - 20<sup>th</sup> March, 1975. Invited paper and expenses paid by IDRC and IRRI.
5. Cropping Systems Working Group Meeting for South East Asia, Java and Sumatra, Indonesia, November 1975. Expenses paid by IDRC and IRRI.
6. Symposium on Cropping Systems Research and Development for the Asian Rice Farmer, organised by IRRI, Los Banos, Philippines, 21<sup>st</sup> - 24<sup>th</sup> September, 1976. Invited paper and expenses paid by IRRI and IDRC.
7. Consultant for the Technological Package Thrust Component of the KSU-CLSU project, Philippines, January 10<sup>th</sup> - 21<sup>st</sup>, 1978.
8. Consultant for ICRISAT concerning Micro-Level Socio-Economic Studies in the Semi-Arid Areas of West Africa, traveling in Europe, Africa and India, three months in 1978. Two reports produced and expenses paid by ICRISAT.
9. CENTO Seminar on Increasing the Productive Capacity of Small Farmers, Lahore, Pakistan, 17<sup>th</sup> - 21<sup>st</sup> December, 1978. Invited paper and expenses paid by USAID.
10. International Workshop on Socio-Economic Constraints to Development of Semi-Arid Tropical Agriculture, Hyderabad, ICRISAT, India, 19<sup>th</sup> - 23<sup>rd</sup> February, 1979. Expenses paid by ICRISAT.
11. Consultant on IAPM Project, Philippines, 9<sup>th</sup> - 22<sup>nd</sup> March, 1981. Expenses paid by KSU/USAID.
12. Symposium on Sorghum in the Eighties organised by ICRISAT, Hyderabad, India, 1<sup>st</sup> - 7<sup>th</sup> November, 1981. Invited paper and expenses paid by ICRISAT.
13. Workshop on Farming Systems Research, Hawkesbury Agricultural College, Sydney, Australia, 12<sup>th</sup> - 15<sup>th</sup> May, 1985. Invited paper and expenses paid by ACIAR.
14. Indian Society of Agronomy sponsored International Symposium on Natural Resource Management for a Sustainable Agriculture, New Delhi, India, 6<sup>th</sup> - 10<sup>th</sup> February, 1990. Invited paper and expenses paid by the Ford Foundation.
15. Team Leader of a mid-term review of the World Bank supported Bangladesh Agricultural Support Services Project. Report produced and funded by the Overseas Development Administration, UK.
16. International consultant for FAO funded project on Farming Systems Training for Sustainable Development in the South Pacific (Project TCP/RAS/4452). Two trips to Western Samoa, July 1<sup>st</sup> - 28<sup>th</sup> and November 13<sup>th</sup> - 29<sup>th</sup>, 1995. Three week training workshop run for participants from Cook Islands, Fiji, Papua New Guinea, Solomon Islands, Tonga, Vanuatu, and Western Samoa, two shorter training sessions held, and manual on Farming Systems Development for the South Pacific produced. Funded by FAO.
17. International consultant for FAO funded project on Farming Systems Training for Sustainable Development in the South Pacific (Project TCP/RAS/4452). Trip to Tonga and Fiji, July 24<sup>th</sup> - August 11<sup>th</sup>, 1996, to conduct workshop (Tonga) and help organize conference and produce proceedings (Fiji). Funded by FAO.
18. Member of Fourth External Programme and Management Review of the International Crops Research Institute for the Semi-Arid Tropics (ICRISAT), September 1<sup>st</sup> - 16<sup>th</sup> (i.e., India, Niger and Nigeria) and December 1<sup>st</sup> - 20<sup>th</sup> (i.e., India). Report produced and funded by TAC, FAO.
19. Attended 14th Symposium on Sustainable Farming Systems, Colombo, Sri Lanka, 11<sup>th</sup> - 16<sup>th</sup> November. Member of Organising Committee, co-author of paper, chaired a session, and acted as rapporteur. Mostly funded by FAO.
20. Participated in Satellite Symposium on Farmer-Centred Sustainable Agricultural Development for Rainfed Farming Systems at the Second International Plant Science Congress, Delhi,

- India, 17<sup>th</sup> - 20<sup>th</sup> November. Invited presenter and expenses paid by FAO.
21. Team Leader of External Evaluation of the Farming Systems and Environmental Studies (FSES) Project, Bangladesh Agricultural University, Mymensingh, Bangladesh, May 2<sup>nd</sup> - 11<sup>th</sup>. Report produced and funded by the Ford Foundation.
  22. Participated in The VII Pacific Science Inter-Congress "Islands in the Pacific Century," The University of the South Pacific, Suva, Fiji Islands, 13<sup>th</sup> - 19<sup>th</sup> July. Presented paper.
  23. Participated in Pacific Regional Agricultural Programme (PRAP) sponsored workshop on the Diffusion and Transfer of Agricultural Technologies in the Pacific, Vava'u, Tonga, November 24<sup>th</sup> - 28<sup>th</sup>, 1997. Invited keynote address and paper and expenses paid by FAO.
  24. Advised on restructuring the Ministry of Agriculture and Forests, Kingdom of Tonga, with specific focus on research-extension linkages, December 1<sup>st</sup> - 3<sup>rd</sup>, 1997. Report produced and expenses paid by FAO.
  25. Team Leader of External Evaluation of the International Program on Rice Biotechnology (IPRB) from a Capacity Building Perspective in China, India, Indonesia, Pakistan, Malaysia, Philippines, South Korea, Thailand, and Vietnam. Three months June-October, 1999. Report produced and expenses paid by the Rockefeller Foundation.
  26. Consultant to Regional Workshop on the Improvement of Traditional Farming Systems for the South Pacific Countries, Apia, Samoa, 18<sup>th</sup> - 22<sup>nd</sup> October, 1999. Three papers given, overall co-chair of meeting, and responsible for the proceedings.
  27. Team Leader of External Review of the Informal Employment and Sustainable Livelihoods Project (IESL), and also the Team Leader of Designing a Follow-On Project, Republic of Palau, five weeks between July 31<sup>st</sup> and September 29<sup>th</sup>, 2000. Two reports produced and funded by UNDP through a sub-contract with FAO, Fiji.
  28. Invited paper presented at the 7<sup>th</sup> Japanese International Research Centre for Agricultural Sciences (JIRCAS) International Symposium on Agricultural Technology Research for Sustainable Development in Developing Regions, Epochal Tsukuba, Japan, 1<sup>st</sup> - 2<sup>nd</sup> November, 2000. Invited paper presented and all trip expenses paid by JIRCAS.
  29. Invited paper presented at the International Conference on Agricultural Science and Technology (ICAST) on Promoting Global Innovation of Agricultural Science and Technology and Sustainable Agricultural Development, Beijing, China, 7<sup>th</sup> - 9<sup>th</sup> November, 2001. One paper presented and hotel expenses paid by conference organisers.
  30. Invited seminar at Centre of Rural Development (CORD) and Center for Integrated Agricultural Development, China Agricultural University, Beijing, China, 10<sup>th</sup> November, 2001.
  31. Consultancy for "Capacity Building for Farming Systems Development in Support of the Special Programme for Food Security, Vanuatu (Project Number: TCP/VAN/0165)," Port Vila, Vanuatu, five weeks, June-July, 2002. Two workshops held and two methodology manuals produced plus end of mission report produced. Funded by FAO.
  32. Consultancy in support of "Capacity Building in Farm Management, Marketing, Value-Adding Technologies for Sustainable Livelihoods Project (Number: TCP/PAL/2801(A))," Koror, Republic of Palau, five weeks, August - September, 2002. Two workshops held and a training manual plus end of mission report produced. Funded by FAO.
  33. Consultancy in support of a project to produce generic materials for positioning semi-subsistence farmers in the South Pacific to benefit from the commercialization of agricultural production. Four weeks November, 2002 - January, 2003, Savaii and Samoa. Funded by FAO.
  34. Team leader of study on old, existing and potential income generation activities in the Maldives particularly with respect to the poor, women and youth in the Outer Atolls. Two trips totaling seven weeks to the Maldives between June and October, 2003. Funded by UNESCAP/UNDP.
  35. Consultancy on finalising training materials in farm management and agricultural marketing extension for small farmers in the Pacific, Samoa, August 24<sup>th</sup> - September 7<sup>th</sup>, 2004 -- included a workshop. Funded by FAO.
  36. Team Leader on capacity building for farming systems development in the Solomon Islands (Project Number: SOI/3001 (T)), Solomon Islands, June 29<sup>th</sup> to July 30<sup>th</sup>, 2004. Involved

conducting three workshops, and developing training materials (a power point set and methodological manual) for designing, implementing and analyzing participatory food crop evaluation trials in the Solomon Islands. Funded by FAO.

37. Consultant for Pacific Islands Workshop on “Best Practices and Lesson Learning from People Centred Development Approaches with a Livelihoods Perspective, Apia, Samoa, 7<sup>th</sup> July to 24<sup>th</sup> July, 2005. Chaired several sessions, gave a presentation, and wrote the proceedings of the workshop. Funded by FAO.
38. Consultant on capacity building for farming systems development in the Solomon Islands (Project Number: SOI/3001 (T)), Solomon Islands, 12<sup>th</sup> to 24<sup>th</sup> August, 2005. Provided advice on food crop evaluation trials, budgets, refresher training and finalized methodological manual. Funded by FAO.
39. Helped members of the Kuku Yalanji Kubirri Clan, Mossman, Far Northern Queensland, Australia develop an alternative proposal for Tourism Development of the Mossman Gorge, January – March, 2006.
40. Consultant for an Asian regional workshop on best practices in livelihoods diversification and enterprise development held at FAO Regional Headquarters, Bangkok, Thailand, 14<sup>th</sup>-17<sup>th</sup> November, 2006. Participated in the workshop and was also responsible for writing the proceedings. Funded by the Livelihoods Diversification and Enterprise Development Programme, FAO, Rome, Italy.
41. Held workshops on the Farming Systems Research Approach in Hohhet, Inner Mongolia and at Gansu Agricultural University, Gansu Province. Also gave invited lectures at Agricultural Academy of Sciences, Hebei Province and the Beijing Agricultural University, 3<sup>rd</sup> – 24<sup>th</sup> August, 2007. Invited by, and most of the expenses paid by, the China Farming Systems Research Association.
42. Gave invited presentation at the “Indonesia-USA Partnership Agricultural Technology and Investment Forum” held in Jakarta, Indonesia, 6<sup>th</sup>-7<sup>th</sup> October, 2010. Expenses paid by USAID/Texas A&M University.
43. Gave invited keynote speech at “The 4<sup>th</sup> International Farming Systems’ Design Symposium” held in Lanzhou, China, 19<sup>th</sup>-22<sup>nd</sup> August, 2013. Expenses paid by China.

## **LATIN AMERICA**

1. Visit to CIMMYT, Mexico, 1972. Invited guest and expenses paid by CIMMYT.
2. Consultant on the Socio-Economic Research Program of CIP Workshop, Lima, Peru, 8<sup>th</sup> - 12<sup>th</sup> August 1977. Expenses paid by CIP.
3. Consultant on the Cropping Systems Research Programme of CATIE, Turrialba, Costa Rica, 26<sup>th</sup> - 30<sup>th</sup> September, 1977. Expenses paid by CATIE.
4. Farming Systems Research Workshop, FONAEIAP, Caracas, Venezuela, December 10<sup>th</sup> - 14<sup>th</sup>, 1979. Invited paper and expenses paid by FONAEIAP.
5. Workshop on Methodological Issues Facing Economists in Applied Crop and Farming Systems Research, CIMMYT, Mexico, 1<sup>st</sup> - 3<sup>rd</sup> April, 1980. Invited paper and expenses paid by CIMMYT.
6. Participated in Review of CIP's On-Farm Research program, CIP, Peru, 8<sup>th</sup> - 14<sup>th</sup> January, 1981. Expenses paid by CIP.
7. Participated in an in-house workshop, on the future direction of on-farm research in the CIAT Bean Programme, CIAT, Cali, Colombia, 12<sup>th</sup> - 16<sup>th</sup> December, 1983. Expenses paid by CIAT.
8. External Review of the Economics Program of CIMMYT, 18<sup>th</sup> - 22<sup>nd</sup> February, 1991, Mexico. Funded by CIMMYT.
9. Participated in Animal Production Systems Global Workshop, San Jose, Costa Rica, 16<sup>th</sup> - 21<sup>st</sup> September, 1991. Expenses paid by IDRC.
10. Participated in the 16<sup>th</sup> Symposium of the International Farming Systems Association (IFSA – formerly the FSRE) and the 4<sup>th</sup> Symposium of the Latin America Farming

- Systems Association (IESA), Santiago, Chile, 27<sup>th</sup> - 30<sup>th</sup> November, 2000. Presented three papers and chair of closing session.
11. Prepared materials and conducted workshop on farm management tools in Bridgetown, Barbados, 1st-13th November, 2009. Conduct und FAO Project TCP/BAR/3103. Expenses paid by FAO.

## **EUROPE**

1. IAAE Conference, Minsk, USSR, 1970. Travel grant from IAAE.
2. Symposium on Research Concerning Rural Employment Problems in Africa, Bellagio, Italy, 1972. Invited paper read and expenses paid from USAID grant to Michigan State University.
3. Seminar at University of Sussex, UK, 1973. Invited paper given.
4. Second International Seminar on Change in Agriculture, Reading, UK, 9<sup>th</sup> - 19<sup>th</sup> September, 1974. Invited paper and expenses paid by University of Reading.
5. Workshop on Integrated Crop and Animal Production to Optimize Resource Utilization on Small Farms in Developing Countries, Bellagio, Italy, 18<sup>th</sup> - 23<sup>rd</sup> October, 1978. Invited paper and expenses paid by the Rockefeller Foundation.
6. Conference on Intra-Household Processes and Farming Systems Analysis, Rockefeller Centre, Bellagio, Italy, 5<sup>th</sup> - 9<sup>th</sup> March, 1984. Invited paper and expenses paid by Rockefeller / Ford Foundations.
7. Workshop on Farmers and Agricultural Research Complementary Methods, IDS, University of Sussex, 26<sup>th</sup> - 31<sup>st</sup> July, 1987. Invited paper and expenses paid by Ford Foundation.
8. Consultant on Farming Systems Concepts and Methods for Community and Area Development, FAO/AGSP, Rome, Italy November, 1989. Paper produced and trip funded by IBRD.
9. Research Management Workshop: Priority Setting in Farming Systems Research and Development, 9<sup>th</sup> - 13<sup>th</sup> December, 1991, Royal Tropical Institute (KIT), Amsterdam, The Netherlands. Two invited papers and expenses paid by KIT.
10. Short course on FSR/E at Swedish University of Agricultural Sciences, 11<sup>th</sup> - 17<sup>th</sup> November, 1992, Uppsala, Sweden. Gave a Public Lecture plus 25 other lectures -- lecture notes duplicated. Funded by Sweden).
11. Work for FAO including two seminars, Rome, Italy, 10<sup>th</sup> - 25<sup>th</sup> July, 6<sup>th</sup> - 13<sup>th</sup> November, 1993. Papers produced and expenses funded by FAO.
12. Faculty member at The Salzburg Seminar on Agriculture: Food, Environment and Rural Development, Salzburg, Austria, 30<sup>th</sup> October - 6<sup>th</sup> November, 1993. Two invited presentations, chair of working group and expenses paid by the Kellogg Foundation.
13. Work for FAO, Rome, Italy, 14<sup>th</sup> - 25<sup>th</sup> June, 1994. Expenses paid by FAO.
14. Invited discussant at Thirteenth Annual Symposium on Systems-Oriented Research in Agriculture and Rural Development, Montpellier, France, 21<sup>st</sup> - 25<sup>th</sup> November, 1994. Paper given.
15. Invited presentation at the International Symposium on African Drought, Trieste, Italy, 31<sup>st</sup> July - 4<sup>th</sup> August, 1995. Paper produced and expenses paid by the International Centre for Theoretical Physics.
16. Work for FAO, Rome, Italy, 2<sup>nd</sup> - 9<sup>th</sup> December, 1995. Expenses paid by FAO.
17. Participated in GTZ/FAO Workshop on Critical Issues and Future Perspectives of the Farming Systems Approach to Small Farmer development, AGSP, FAO, Rome, Italy November 25<sup>th</sup> - 29<sup>th</sup>, 1996. Expenses paid by FAO.
18. Work for AGSP, FAO, Rome, Italy, 15<sup>th</sup> - 21<sup>st</sup> June, 1997. Expenses paid by FAO.
19. Invited paper for the Political Economy of Humanitarian Emergencies Project, United Nations and Oxford Universities, Oxford, UK, 3<sup>rd</sup> - 5<sup>th</sup> July, 1997. Expenses paid by the project.
20. International Workshop on Shaping Effective Collaboration Among Stakeholders in Regional Agricultural Research and Development in Sub-Saharan Africa, 28<sup>th</sup> August - September 8<sup>th</sup>, 1997, Royal Tropical Institute (KIT), Amsterdam, The Netherlands. Was facilitator and expenses paid by KIT.
21. Work for AGSP, FAO, Rome, Italy, May 29<sup>th</sup>- 9<sup>th</sup> June, 2000. Expenses paid by FAO.

22. Team Leader an Independent External Review of the International Centre for Development Oriented Research in Agriculture (ICRA), Wageningen, Netherlands, 3.5 weeks between July and December, 2000. Funded by ICRA.
23. Member of Independent External Review of the Special Programme of Food Security (SPFS) of FAO, Rome, Italy, involving field trips to six countries (Eritrea, Tanzania, Zambia, Bolivia, Ecuador, and Haiti) and two trips to FAO, Rome, 2.5 months between July 2001 and January 2002. Report produced and funded by FAO.
24. Attended "Farming Systems and Poverty: Making the Difference", 18th Symposium of the International Farming Systems Association, FAO, Rome, 29<sup>th</sup> October – 5<sup>th</sup> November. Involved in two papers, chaired a Roundtable and the final Plenary Session, and gave a presentation to staff at FAO headquarters.

## **NORTH AMERICA**

1. Seminars at Michigan State University and Cornell University, 1973. Invited papers given and expenses paid by Michigan State University.
2. Invited visits to Washington to participate in discussions with IBRD (one visit) and AID (two visits), February - April, 1977. Expenses paid by IBRD and AID.
3. Invitation to consult on Data Collection Techniques in West Africa, Purdue University, 23<sup>rd</sup> - 25<sup>th</sup> May, 1977. Expenses paid by Purdue University.
4. Consultation with IDRC, Ottawa, Canada on the proposed Farming Systems Research Programme in Mali, 9<sup>th</sup> September, 1977. Expenses paid by IDRC.
5. Conference on the Economic Development of the Sahel, Montreal, Canada, 13<sup>th</sup> - 14<sup>th</sup> October, 1977. Invited paper and expenses paid by CRDE.
6. Colloquium on the Niger River Basin Development Program, USAID, Washington, March 31<sup>st</sup> - April 1<sup>st</sup>, 1978. Discussant and expenses paid by USAID.
7. Invited seminar at Cornell University, March 1978. Expenses paid by Cornell University.
8. AAEA meeting, Blacksburg, Virginia, August 1978. Invited paper given.
9. With R. Charlick and H. Helman an invited seminar on Rural Development, Washington, FITC/PO, 18th January, 1979. Expenses paid by USAID.
10. Meeting at Rockefeller Foundation concerning their possible involvement in the Sahelian countries, New York, March 22<sup>nd</sup>, 1979. Expenses paid by the Rockefeller Foundation.
11. Invited Seminar on Farming Systems Research, University of Florida, 19<sup>th</sup> - 22<sup>nd</sup> May, 1978. Expenses paid by University of Florida.
12. Invited seminar on Socio-Economic Constraints of Farmers in the Semi-Arid Tropics of West Africa, Michigan State University (MSU), May 23<sup>rd</sup> - 25<sup>th</sup>, 1979. Expenses paid by MSU.
13. ADC/RTN Workshop on Graduate Training for LDC Countries, Michigan State University, June 5<sup>th</sup> - 6<sup>th</sup>, 1979. Expenses paid by ADC.
14. Farming Systems Research and Development Workshop, CID, Colorado State University, August 1<sup>st</sup> - 4<sup>th</sup>, 1979. Expenses paid by CID.
15. IAAE Conference, Banff, Canada, September 3<sup>rd</sup> - 12<sup>th</sup>, 1979. Discussant of plenary session paper.
16. Member of Advisory Committee for Planning Study of Integrated Plant Protection CRSP. Number of meetings held paid by funds given to Purdue University.
17. Rural Development Conference, DSB/AID, Skyland Lodge, Shenandoah National Park, Virginia, November 25<sup>th</sup> - 29<sup>th</sup>, 1979. Expenses paid by Michigan State University.
18. Member of a panel to review the Program in International Agriculture in the College of Agriculture and Life Sciences, Cornell University, February 18<sup>th</sup> - 20<sup>th</sup>, 1980. Expenses paid by Cornell University.
19. Participated in Workshop on Marginal Lands and Fragile Environments, Rockefeller Foundation, New York, 30<sup>th</sup> - 31<sup>st</sup> March, 1981. Expenses paid by the Rockefeller Foundation.
20. Invited seminar on Farming Systems Research, University of Nebraska, April 23<sup>rd</sup>, 1981. Expenses paid by the University of Nebraska.

21. Invited seminars on Farming Systems Research, Cornell University, 16<sup>th</sup> September, 1981. Expenses paid by Cornell University.
22. How Systems Work, Farming Systems Research Symposium, Fayetteville, University of Arkansas, 18<sup>th</sup> - 22<sup>nd</sup> October, 1987. Invited plenary address, panel member, and expenses paid by Ford Foundation.
23. Participated in Symposium on Agro-Pastoralism in the Bolivian Altiplano, 15<sup>th</sup> - 17<sup>th</sup> May, 1991, Lubbock, Texas. Invited paper and expenses paid by Small Ruminant CRSP.
24. Participated in Symposium on the Education and Training of International Students in Agronomy at U.S. Universities, at the annual American Society of Agronomy meeting, Denver, 27<sup>th</sup> October - 1<sup>st</sup> November, 1991. Invited paper.
25. Panelist/Reviewer for National Research Council of proposals for the SANREM CRSP, Washington, DC., 3<sup>rd</sup> - 4<sup>th</sup> March, 1992. Expenses paid by NRC.
26. Annual Association of Farming Systems Research and Extension Symposium, Michigan State University, 13<sup>th</sup> - 18<sup>th</sup> September, 1992. Became President of the International Association of Farming Systems research and Extension (AFSRE) and chaired Board Meeting.
27. Member of Hub Cluster Group for the Kellogg Foundation Integrated Farming System (IFS) initiative, Bozeman, Montana, 1<sup>st</sup> - 7<sup>th</sup> August, 1993. Expenses paid by the Kellogg Foundation.
28. North American Symposium of the Association of Farming Systems Research and Extension, Gainesville, University of Florida, 12<sup>th</sup> - 16<sup>th</sup> October, 1993. Two papers given one of which was invited.
29. Member of Hub Cluster Group for the Kellogg Foundation Integrated Farming System (IFS) initiative, Washington DC, 26<sup>th</sup> - 28<sup>th</sup> February, 1994. Expenses paid by the Kellogg Foundation.
30. IAAE Conference, Sacramento, California, August 10<sup>th</sup> - 16<sup>th</sup>, 1997. Three poster sessions.
31. Invited paper at plenary session of the 17<sup>th</sup> Symposium of the International Farming Systems Association (IFSA), Lake Buena Vista, Florida, 17<sup>th</sup> -19<sup>th</sup> November, 2002. Also received a life time service award.
32. Participated in a peer review panel in the ALO, Washington DC, for awarding a USAID grant to a US academic institution for regional agricultural sector training in Tanzania, Kenya and Uganda, October 12<sup>th</sup>-13<sup>th</sup>, 2004. (See also Item 73 under Africa above).

**Note:** The list does not usually include conferences, workshops and seminars attended at Kansas State University while resident at Kansas State University.