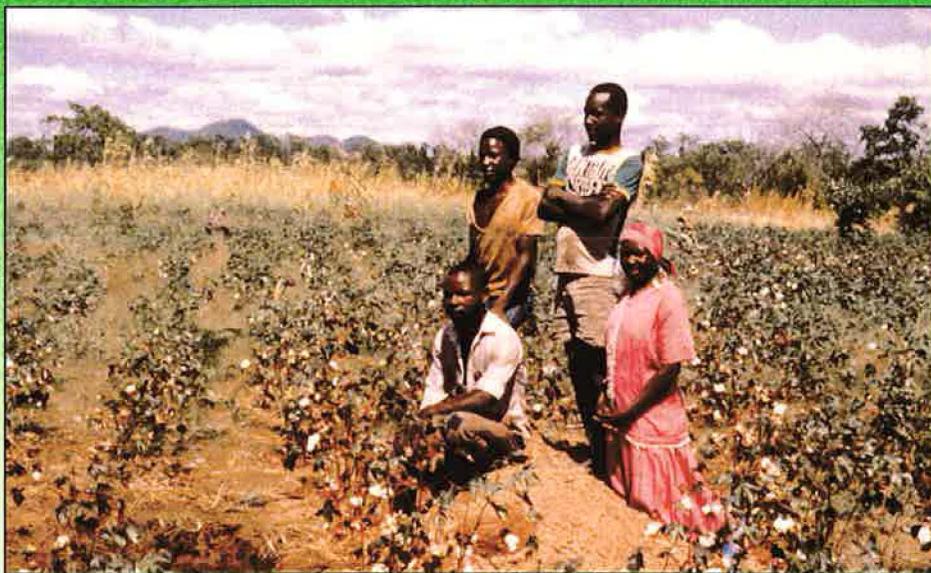


15th International Symposium of the Association for Farming Systems Research-Extension

29 November–4 December 1998
Pretoria, South Africa



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**15TH INTERNATIONAL SYMPOSIUM OF THE ASSOCIATION FOR
FARMING SYSTEMS RESEARCH-EXTENSION**

**29 NOVEMBER - 4 DECEMBER 1998
PRETORIA
SOUTH AFRICA**

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Summary

The 15th International Symposium of the Association for Farming Systems Research-Extension (AFSR-E) was held at the University of Pretoria between 29 November and 4 December 1998 with the theme of “Rural livelihoods, empowerment and the environment: Going beyond the farm boundary”. The conference was sponsored by twenty organisations involved in farming systems research (a list of sponsors is attached as Appendix 1) and was attended by 560 delegates from more than seventy countries (delegate list attached as Appendix 2).

The Symposium addressed five sub-themes:

- Ecological sustainable development and farming systems
- Short term farmer survival versus long term sustainability
- Empowerment through capacity building
- The institutional environment and farming systems
- Methodological issues and challenges

These sub-themes were addressed through invited and contributed papers, panel discussions, a “training and tools bazaar”, poster sessions and participants’ input during the course of the Symposium. The conference programme is attached as Appendix 3.

Representatives from the Multi-lateral Funding Organisations including the World Bank, the Food and Agriculture Organisation and the Rockefeller Foundation presented overviews of agricultural research in plenary session.

- **Global Urgency and the need for a “Double-Green” Revolution.** The Rockefeller Foundation highlighted the fact that there will be an estimated extra 2.5 billion people to feed by 2020. They stressed the need to repeat the successes of the green revolution globally, combining biotechnology (the latest advances in transgenics and cellular biology) with an ecological approach including IPM techniques, in a so-called “*doubly-green revolution*”.
- **Implications of a re-invigorated agricultural and rural knowledge information system (ARKIS).** The World Bank stated that an Agricultural and Rural Knowledge Information System (ARKIS) could deliver the requirements of a *doubly-green revolution*¹, in a more cost-effective manner, given the opportunities that now exist. The concept of ARKIS is designed to ensure that adequate information is passed both from farmers into the system (an effective articulation of their diverse demands) and that flexible technical alternatives are developed to meet their diverse requirements through a variety of means.
- **Cost and efficacy issues in FSR-E provision.** Lower funding levels (and increasing use of competitive bidding for agricultural research funding) put pressure on FSR budgets. Teams used for PRA work are now being reduced in number with team members covering several skills.

¹ This is not a new term and has been in existence for a couple of years.

Multilateral donors appear keen to see the philosophy of FSR-E continue but are putting more emphasis on cost-effective participatory approaches coupled with the development of civil society institutions.

Emphasis is currently being placed on developing effective relationships with southern partners within a sustainable rural livelihoods. This approach underlines the continuing importance of FSR-E to DFID's development objectives. The general tone of the symposium emphasised the gap between policy rhetoric and the application of FSR-E at farmer/client level; and highlighted the need for FSR-E capacity building in southern partner institutions if they are to contribute effectively to a sustainable rural livelihoods approach to development.

Conclusions of the Symposium

- The scope of FSR-E has expanded beyond the initial focus on technology development to address social, environmental and ecological considerations beyond the farm gate.
- Farm-level problems can no longer be addressed without considering the macro-economic environment and ecological sustainability
- The changing institutional, economic and market conditions, nationally, regionally and globally, will have a significant effect on the way the Farming Systems Approach will be implemented in the coming millennium, due to globalisation, liberalisation, decentralisation, and associated structural adjustment processes.
- Natural capital (particularly the ecosystems services provided by trees) is a central aspect of ecological agriculture that requires a significant research effort; this should aim to quantify the impact of trees on problems such as soil replenishment and carbon sequestration.
- Social capital (the capacity of people to work together to develop systems which manage natural resources) is vital if people are to invest in innovations that enhance natural capital generated through research and farmer involvement.

Background and introduction

The farming systems approach to technology development and transfer was introduced in response to the low level of adoption (by smallholder, resource-poor families) of new agricultural technologies and practices in developing countries. Research revealed that the majority of the technologies were inappropriate and not compatible with smallholder farming systems and their socio-economic circumstances. Farming Systems Research and Extension (FSR-E) is intended to improve the livelihoods of farm families by increasing the production and productivity of the farm and farmers' resources. FSR-E aims to support the farm household to achieve a range of private and social goals within the constraints and opportunities conditioned by the natural, biological, socio-economic, technical and human elements which determine the existing smallholder farming system. The FSR-E approach has been initiated in several countries as part of the National Agricultural Research Systems (NARS) with many regional Associations for FSR-E having been formed.

The Association of Farming Systems Research-Extension (AFSR-E) is a global association, incorporated as a non-profit educational corporation in the Philippines, with an international membership consisting of individual researchers and practitioners and various regional associations and networks involved in farming systems related work around the world. The Association's primary function is to foster and support the growing number of regional farming systems associations and networks. AFSR-E provides a global forum for the exchange of information between members and the different regional organisations. Its mandate is to promote the development and dissemination of methods and results of participatory on-farm research and extension. The objective of such research is the development and adoption through the participation by farm household members – male and female – of improved and appropriate technologies to meet the socio-economic needs of farm families; adequately supply global food, feed, and fibre requirements; and utilise resources in a sustainable and efficient manner. AFSR-E and its services are supported from individual and institutional membership dues, special grants from donor agencies and financial and in-kind support from regional FSR associations and networks.

Scope of Symposium

Themes and issues

Rural livelihoods, empowerment and the environment: going beyond the farm boundary

AFSR-E defines the environment broadly to include physical, biological, social, economic, and institutional dimensions within which a farming community lives and operates which requires process-based research in sustainable agricultural development, integrating social, economic, and ecological perspectives. The following issues were considered during the conference:

- How do concepts such as sustainable agriculture, sustainable development, participation, empowerment, accountability, indigenous knowledge, poverty

alleviation and environmental conservation affect the Farming Systems Approach (FSA) practitioners and the global farming community at large? To what extent does FSA facilitate achievement of some of those ideas? To what extent can some of those concepts guide FSA?

- How does global change in society, markets, trading blocks, and the economy affect the small scale farming family? What can FSA practitioners do to make their work more relevant in light of that?
- Who is polluting and degrading what? Is it the poor? The weak? The rich? The powerful? How can FSA respond appropriately so that the global environment will sustain agriculture in the future? The symposium will address these issues from a global and regional perspective. The approach is to try to weave together an understanding of the social, economic and natural resource aspects of farming systems and the environment. Socially, democratisation and privatisation are having major effects on the very fabric of society. In spite of talk of empowerment of women and the poor, economic growth is often achieved at greater cost to the marginalised in society. Natural resources are increasingly under pressure due to population growth and creeping industrialisation.

The Farming Systems Approach to Research, Extension and Development arose from the recognition that discipline-specific research and sustainable development have little impact if they do not start by understanding the farmers' perspective, and by engaging the farmers where they are, with their constraints and multiple goals and farming objectives. A host of methodological techniques of understanding systems, encouraging participation, facilitating on-farm development, measuring multiple variables and developing solutions based on the farmer's analysis have been developed around the shifting scientific paradigm. It is now broadly accepted that rural community organisations can play a crucial role in addressing some of the farm level constraints hindering technology adoption. The farming systems research and development practitioners are expected to address a range of issues including poverty alleviation, food security, efficiency and environmental sustainability.

Sub-themes

- *Ecologically sustainable development and farming systems.*
1. **The changing role of researchers and extensionists in development and in the dissemination of knowledge and technologies.** The paradigm shift from teacher/transferor of knowledge to group convenor and facilitator for agricultural/livelihood development, requires considerable changes in the roles of researcher and extensionist in activities such as on-farm research, seed bulking, improved breed production, development of materials for dissemination and dissemination itself.
 2. **Integration of micro-strategies with macro-economic factors:** The interaction of farm-level, eco-regional, institutional and global factors with resource management, farm production systems, dissemination, training support systems, NGO linkages and marketing have profound consequences on rural development policy.

- *Short-term farmer survival versus long-term sustainability.*
 1. **Reciprocity and exchange:** Policies and FSR initiatives are meant to generate adjustments in the "farming system". Farmers responses to these initiatives can only be understood within the exchange relationships they are involved in. For example, fully commercialised farms will probably come close to the expected behaviour. Less commercialised farms will show other responses. Differentiated demand will be a possible outcome which to which FSRE needs to respond.
 2. **Heterogeneity and multiple realities:** Livelihood strategies are as diverse as the agricultural practices of people. Rural actors are always trying to create more room for themselves to manoeuvre; distancing themselves from mainstream market relations is one manifestation of this. Opening up alternative marketing opportunities, or even segmented markets through self selection happens during the process. What role is there for FSR-E?

- *Empowerment through capacity building.*
 1. **Meeting the challenges of empowerment, the environment and changing strategies for agricultural research and extension.** The relevance and roles of FSRE for the next century in meeting these challenges within the rapid transformation of the rural-urban fabric is in question. Can FSRE contribute?
 2. **Training in FSRE and participatory techniques: tips, tricks, techniques and materials.** Sharing of approaches and materials to training scientists, extensionist and farmers in FSRE and participation activities.

- *The institutional environment and farming systems.*
 1. **Demand-driven research and development:** Who pays? What is cost effective? Do government regulations and policy act as incentives or constraints to client orientated research? Farmers are affected by all kinds of regulations. Some of these may be helpful, others are restrictive. These rules do not have to be in line with government policies. Where policies are of a general nature regulations are more specific and of an institutional nature. The effects of these regulations on the choice of activity, productivity, income and the environment in both developed and developing countries needs debate.
 2. **Contributions of gender studies to increased efficiency and equity in research and knowledge dissemination.** Many instances of gender inequalities in technology development and dissemination have been recorded. How have these been addressed and what has been the outcome of efforts to change approaches, particularly in research and knowledge dissemination?

- *Methodological issues and challenges*
 1. **Building on local rural knowledge:** Indigenous technical knowledge (I T K) relevant and useful for agricultural practices has been recognised for some time

and extensively catalogued. A sub-group of ITK is farmers' adaptations of, and additions to researcher developed technologies.

2. **Working with farmer groups- experiences, benefits and problems.** As participation with farmers in agricultural research and development becomes more collaborative/collegiate, FSR/E practitioners are increasingly working with groups. Those groups may be initially established by other facilitators, the members themselves, or even by FSR/E practitioners.
3. **Cost effectiveness of FSR&D:** The FS approach to research and development was developed to improve the impact of research on small scale farm households. Some argue that it is costly. The FS approach can be made more cost-effective by improving its impact through increased client-orientation (e.g. through contract research – depending on who is contractor is) and reduced research costs (e.g. cheaper research methods such as PRA methods) and improved research planning (such as zoning, typology and bottom-up research planning).
4. **Production of knowledge and exchange:** How and in what context is knowledge produced and through what channels and social relationships is knowledge exchanged. This provides the possibility to open up the black box of knowledge and relate it to power relation in communities and within FSRE context where research practitioners and farmers meet. It may also open up the door to understanding local knowledge and evaluation and ways to incorporate local knowledge into research and development, and into FSRE in particular.

Multilateral Donor Community assessment of FSR-E

There were several contributions from multilateral donors (World Bank, FAO, Rockefeller Foundation) covering the major theme and sub-themes during the plenary sessions which raised a number of issues. These fell into three broad categories:

1. ***Global Urgency and the need for a Double-Green Revolution (mainly RF)*** There will be an estimated extra 2.5 billion people to feed by 2020 and there is an urgent need for a sustained and equitable growth in agricultural output to meet this extra demand. Despite declining real food prices many of the poor still have insufficient entitlements to an adequate food supply. Yield growth rates appear to have levelled-off globally and continue to decline in Sub Saharan Africa. Weather patterns appear to becoming more uncertain (a result of global warming) with farmers facing the associated greater risks. Such factors create critical challenges for producing enough food in an environmentally sustainable fashion and which allows all individuals' adequate access. There is the need to repeat the successes of the green revolution, on a global scale, in many diverse localities and this has to be equitable and sustainable. It needs to combine biotechnology (the latest advances in transgenics/cellular biology) and an ecological approach including IPM techniques – a ***doubly-green revolution***. Ownership of genetic material (especially patenting of genes) is going to be a key issue and it is essential that Consultative Group research centres patent the materials they produce. Farmer ownership of introduced technologies is also a key issue and this can only be achieved using participatory methods.

2. ***Implications of a re-invigorated agricultural and rural knowledge information system (ARKIS).*** Taking as its starting point the conceptualisation of agricultural information system advanced by Niels Roling the argument runs that a reinvigorated system can deliver the requirements of a ***doubly-green revolution***, in a more cost-effective manner, given the opportunities that now exist. These opportunities have arisen as a result of changing relationships between governments (and their agents) and the population, changes in communication technology and the concept of participatory learning and action. Some of these are listed below:
- Increased use of mass media and information technology (IT)
 - Reduction of fiscal costs of public extension (for example contracting out services to the private sector) and improved cost recovery
 - Improved performance incentives to extension organisations and their staff
 - Adjustment of priority setting, governance and management of NARS
 - Increased proportion of public research resources dedicated to participatory work
 - Allowing users to evaluate broad range of new candidate technologies
 - Promoting private sector initiatives wherever possible
 - Improving the use of resources within universities, NGOs and other non-commercial members of NARS
 - Encouraging the borrowing of knowledge to reduce research overlap
 - Encouraging the perception that Government is a facilitator and not universal provider of funds
 - Equipping stakeholders with new skills and attempting to solve problems through dialogue and interaction

The concept of ARKIS is designed to ensure that adequate information is passed both from farmers into the system (an effective articulation of their diverse demands) and that flexible technical alternatives are developed to meet their diverse requirements through a variety of means.

3. ***Cost and efficacy issues in FSR-E provision.*** These issues were raised by a number of presenters especially in relation to the number of disciplines that have traditionally been involved in FSR. With generally lower funding levels (and increasing use of competitive funding facilities and the creation of markets in development/agricultural science) there is major downward pressure on FSR costs. This implies that the number of personnel (and discipline range) will be reduced and that there will be only two groups of researchers left in FSR – bio-physical specialists and general social science specialists (to cover all economic and social issues). This was presented as a future development but in fact reflects current practice in response to reduced research budgets. The types of skills (and hence training) required by practitioners will need to be rationalised with FSR team members needing to be specialists in several disciplines.

Multilateral donors appear keen to see the philosophy of FSR-E continue and are putting more emphasis on participatory approaches (and the development of civil society institutions to assist in this process) and increasing cost effectiveness. They want broader articulation of farmers' diverse demands with flexible solutions to identified problems. There is an awareness of the demands that will be placed on FSR-E over the next 20 years and the need for a ***doubly-green revolution*** to increase

yields whilst ensuring sustainability of any increases. It is recognised that there are no quick and easy solutions to these issues and that a suitably long time horizon is required.

Conclusions of the Symposium

- The scope of FSR-E has expanded beyond the initial focus on technology development to address social, environmental and ecological considerations beyond the farm gate.
- Farm-level problems can no longer be addressed without considering the macro-economic environment and ecological sustainability
- The changing institutional, economic and market conditions, nationally, regionally and globally, will have a significant effect on the way the Farming Systems Approach will be implemented in the coming millenium, due to globalisation, liberalisation, decentralisation, and associated structural adjustment processes.
- The emerging global challenges within the agricultural and natural resources sectors are multi-faceted, reinforcing the need for multi-disciplinary approaches.
- Participatory methods and the systems approach to technology development and transfer are often prominently featured in the agricultural policy statements of many countries but their application often falls short of these initial intentions.
- Much progress has been made in institutionalising the farming systems approach at various levels, but more effort is needed, especially at the farmer training level.
- There has been a deepening understanding and application of participatory methods and on-farm research at the farm level in many countries.
- Governments have an important role to play in support of agricultural systems research and development.
- Experiences in participatory diagnosis, planning and implementation clearly demonstrate that farmers have the ability and capacity to take collective action to address their own farming problems.
- Innovative approaches are needed to generate funding support to complement public sector funding for local level systems research and development.
- Properly-conducted systems-orientated participatory research and development can contribute significantly to cost-effective impacts which benefit farmers.
- In terms of agro-forestry research, a re-orientation from a silviculture focus at the research plot level is called for; this shift is underway, and has seen agroforestry and ecological agriculture redefined in terms of sustainable natural resource management.
- Natural capital (particularly the ecosystems services provided by trees) is a central aspect of agroforestry and ecological agriculture that requires a significant research effort; this should aim to quantify the impact of trees on problems such as soil replenishment and carbon sequestration.
- Social capital (the capacity of people to work together to develop systems which manage natural resources) is vital if people are to invest in innovations that enhance natural capital generated through research and farmer involvement.
- Potential synergies between all partners in the development process (including researchers, NGOs, farmers and public and private agencies) should be developed, and the important and complementary roles played by men and women in agricultural production should become a challenge for creative and gender-sensitive policies and programmes.

- In the next twenty years we will be facing a critical period in meeting the increasing food needs of still growing global population, but we do have new tools to meet these needs, including biotechnology, soil restoration, ecology and participatory methods.
- Creative partnerships and feedback mechanisms in funding and implementation of research and development for small-scale rural households is essential.
- There is an emerging consensus that we are moving into the next stage in the globalisation process, and the farming systems approach can contribute much to this consensus. Proactive and conscious participation of all stakeholders in this process is vital. The significance of globalisation in relation to rural development, poverty elimination, and equity needs to be given further emphasis in the run up to the new century.

Concluding recommendation

Participants in the 15th International Farming Systems Symposium urged continuing funding of research and extension, especially farming systems research-extension (FSR-E), in support of small farmer development.

Changing institutional, economic and market conditions offer important opportunities for creative partnerships in the funding and implementation of research and extension for small farmers. Stakeholders were urged to support and develop such opportunities.

Farming systems approaches were commended as a cost-effective means for accomplishing small-farmer development. Delegates' practical experience in participatory action research shows that farmers are able to take collective action. Given an enabling environment, farmers will develop practices and marketable products which are economically and environmentally sound, provided they receive support which takes their whole farming system into account. Universities and other training centres, as well as research councils and institutes were encouraged to launch programmes to teach these skills and support the professional development of systems approaches.

The emphasis that is now placed on developing effective relationships with southern partners within a sustainable rural livelihoods approach underlines the continuing importance of the FSR-E approach to DFID's development objectives. However in developing partnerships it was apparent from the general tone of the symposium that there is a significant gap between the policy rhetoric and the application of FSR-E approaches at farmer/client level. This indicates that there is still a significant need for FSR-E capacity building in southern partner institutions if they are to contribute effectively to a sustainable rural livelihoods approach to development.

APPENDICES

Appendix 1: Symposium Sponsors

Appendix 2: Delegate list

Appendix 3: Conference Programme

Appendix 4: Session Chairpersons

Appendix 1: Symposium Sponsors

United States Agency for International Development (USAID)

European Commission

South African Department of Arts, Culture, Science and Technology (DACST)

Swedish International Development Agency (SIDA)

Farm-Level Applied Research Methods in East and Southern Africa (FARMESA)

Food and Agricultural Organisation of the United Nations (FAO)

South African Agricultural Research Council (ARC)

Kellogg Foundation

Technical Centre for Rural Co-operation (CTA)

Kynoch Fertilisers

Embassy of the Republic of France in South Africa

South African Ministry of Agriculture and Land Affairs

South African Foundation for Research Development (FRD)

University of Pretoria

African Association of Farming Systems Approach to Research Extension and Training (AAFSRET)

Southern African Association for Farming Systems Research-Extension (SAAFSR-E)

Red Internacional de Metodologia de Investigacion de Systemas de Production

The British Department for International Development (DFID)

Institut National de al Recherche Agronomique pour le Developpement (CIRAD)

Institut National de la Recherche Agronmique (INRA)

Appendix 2: Delegate list

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106	Matata	J	DEM Farmesa		
112	Mkuchu	Ms M	DEM Farmesa		
108	Musangi	Prof	DEM Farmesa		
111	Nalitolela	Mr A	DEM Farmesa		
105	Ngeno	J.K	DEM Farmesa		
110	Nyasani	P	DEM Farmesa		
247	Dauro	Mr Daniel	DLM		
246	Tesmesgen	Mr Melesse	DLM		

TOTAL: 9

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TOTAL: 1

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91 Laker	Prof Giel	COM University of Pretoria	, ,	012 420 3216	
93 Stilwell	Mr Ted	COM Development Bank of South Africa	, ,	011 3133138	011 3133533
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7 Burgess	Miss Roberta	DEM ARC	, P/Bag X5013, Stellenbosch, 7599	021 809 3453	021 809 3400
38 De Beer	Mr Attie	DEM ARC Graincrops Institute	, Private Bag X 1251, Potchefstroom, 2520	018-2996270	018-2947146
9 De Villiers	Prof Andre	DEM University of the North	, PO Box 141, Haenertsburg, 0730	015 268 2641	015 268 3523
21 De Villiers	Mr Hannes	DEM KZN Department of Agriculture	, Private Bag X 9059, Pietermaritzburg, 3200	0331 3559404	0331 3559401
10 Dlamini	Mr Muzi	DEM KZN Provincial Dept of Agriculture	, Private Bag X9059, Pietermaritzburg, 3200	0331 431 397	0331 433 683
5 Isaacs	Miss Joyene	DEM ARC	, P/BAG X5013, Stellenbosch, 7599	021 809 3355	021 809 3400
23 Letty	Ms Brigid	DEM Kwa-Zulu Natal Dept. of Agriculture	, Private Bag X 9059, Pietermaritzburg, 3200	0331-3559398	0331-3559401
22 Madiba	Mr SB	DEM Department of Agriculture	, FSR, Private Bag X 9059, Pietermaritzburg, 3200	0331-3559397	0331-3559404
11 Mappedoram	Mr Bryan	DEM Agric Research Council	, ARC-RFI P Bag x05, Lynn East, 0039	012 841 9820	012 808 2155
47 Mathews	Mr Cherian	DEM Department of Agriculture	, P O Box 975, WHITE RIVER, 1240	013-7554824	013-7526315
18 Rethman	Prof Norman	DEM University of Pretoria	, University of Pretoria, Pretoria, 0002	012 420 3225	012 420 4120
12 Rijkenberg	Prof Frits	DEM University of Natal	, P BAG X01, Scottsville, 3209	0331 260 5452	0331 260 5072
36 Van Averbeke	Dr Wim	DEM ARDRI University of Fort Hare	, University of Fort Hare, Private Bag X 1314, ALICE,	040 6022315	040 6531730
52 Verschoor	Mr Aart-Jan	DEM Dep of Agriculture, North West	, Potchefstroom Agriculture centre, P/Bag X804, 2531	018 2996709	018 2977135
59 Coetzee	Mr Frederick	DEN Dept of Agriculture: Northern Cape	, PO Box 52, Upington, 8800	054 334 0150	054 334 0154
34 Everson	Dr Terry	DEN University of Natal	, University of Natal, P/Bag X 01, Pietermaritzburg, 3209	0331-2605509	0331-2605708
55 Gerber	Mr Hannes	DEN Dept of Agriculture:Northern Cape	, PO Box 37, Upington, 8800	054 334 0011	054 334 0011
54 Kars	Dr Fred	DEN Dept of Agriculture:Kwazulu Natal	, Dept of Agric: South West Region, PO Box X6005, 3245	0331 431395	0331 434396
53 Matare	Mr Roche	DEN Mpumalanga Department of Agric.	, Private Bag X11219, Nelspruit, 1200	013 755 4721	013 752 6315
8 Meintjies	Mr Irwin	DEN ARC	, P/BAG X293, Pretoria, 0001	012 841 9630	012 808 2812
4 Meyer	Dr Siegfried	DEN National Dep of Agriculture	, Private Bag X138, Pretoria, 0084	012 3197512	012 3296892
13 Mwale	Mr Blessings	DEN FSIPM	, FSIPM, Bvumbwe Research Station, PO Box 5748, Limbe,	09265 606806	09265 636 130
39 Mzobe	Mr Thando	DEN University of the Free State	, P O Box 3282, Bloemfontein, 9300	051-4012700	051-4480692
20 Penrith	Dr Mary-Lou	DEN Onderstepoort Veterinary Institute	, ARC-ONI, Private Bag x 05, ONDERSTEEPOORT, 0110	012 5299111	012 5299165
73 Phutiegae	Mr Emmanuel	DEN Dep. of Agriculture	, PO Box 2058, Taungstation, 8580	05391 3971	05391 3971
3 Sugden	Mr Brian	DEN SA Cane growers Association	, PO Box 1278, Durban, 4000	031 304 7264	031 305 6513
58 Swart	Mr Andre	DEN Dept of Agriculture:Northern Cape	, PO Box 52, Upington, 8800	054 334 0150	054 334 0154

Delegate Surname	First Name	Type Company Name	Address	Work Telephone	Fax Telephone
234 Greeff	Mr Peter	DLN Port Elizabeth Technikon	, Private bAg X6531, George, 6531	044 8015111	044 8015031
241 Groenewald	Dr Izak	DLN University of the Orange Free State	, PO Box 29555, Danhof, Bloemfontein, 9310	051 4365059	051 4012163
60 Hanekom	Dr Trish	DLN Agriculture	, Po Box 8769, Johannesburg, 2000	333 2106	333 0667
175 Joemat	Ms Ronena	DLN ARC	, Private Bag X2, Irene, 0062	27 12 6729300	27 12 6651603
82 Lesufi	Mr Lucky	DLN ARC	, Private Bag X29, Bethlehem, 9700	058 303 5686	058 303 3952
168 Mahlakoane	Mr Francis	DLN GTZ-Based	, Po Box 4645, Pietersberg, 0700	015 295 7090	015 291 3660
193 Majake	Ms Pauline	DLN Dept. of agriculture	, PO Box 585, Bethlehem, 9706	058 303 8333	058 303 7287
206 Mashela	Dr William	DLN University of the North	, PO Box 24, Groothoek, 0628	015 268 2190	015 268 2892
200 Matli	Dr Musi	DLN Dept. of Agriculture	, 115 Rhyna Kriel Universitas, Bloemfontein, 9300	051 861 1113	051 861 2091
173 Mdluli	Mr Musa	DLN ARDP	, PO Box 2600, Pretoria, 0001	012 481 4077	012 481 4077
83 Meier	Ms Bettina	DLN German Development Service	, 480 Smith Street, Durban, 4001	031 3062591	031 3061659
182 Mhlanga	Mr Chester	DLN Dept. of Agriculture	, PO Box 585, Bethlehem, 9700	058 303 8333	058 3037287
62 Mhlauli	Mr Nthuthu	DLN Agric, Conservation and Environment	, Regional Office, PO Box X1099, Germiston, 1400	872 1047	872 1059
98 Modimogale	Ms Lorato	DLN Department of Agriculture	, PO Box 247, Odendaalsrus, 9480	057 398 1664	057 398 1666
199 Mofokeng	Mrs Makolane	DLN Dept. of Agriculture	, Private Bag X01, Glen, 9360	051 8611208	051 8612107
160 Mogoane	Mr Godfrey	DLN Dept. of Agriculture	, Po Box X120, Pretoria, 0001	012 319 7565	012 329 5938
186 Mukoyo	Mr Patrick	DLN Dept. of Agriculture	, Private BAG X01, Geln, 9360	051 8611155	051 8612107
101 Ngcoba	Ms Thembi	DLN Farmer Support group	, University of Natal, Private Bag X01, Pietermaritzburg, 3209	0331 2606279	0331 2606281
211 Ngomane	Ms Tsakani	DLN Dept of Agriulture	, Private Bag X9487, Pietersberg, 0700	015 2957090	015 2957028
86 Nzimande	Mr Mike	DLN Albot Luthuli Development trust	, PO Box 33001, Grontville, 4450	0324 99087	0324 99089
161 Olwagen	Mr Almero	DLN Dept. of Agriculture	, Po Box 2557, Potchefstroom, 2520	018 294 3343	018 297 4642
167 Ramaru	Mr Joe	DLN GTZ-Based	, Po Box 4645, Pietersberg, 0700	015 295 7090	015 291 3660
194 Ramolotja	Mr Peter	DLN Dept. of Agriculture	, PO Box 34, Odendaalsrus, 9480	057 398 1664	057 398 1666
196 Richter	Mr Jan	DLN Dept. of Agriculture	, Po Box X01, Glen, 9360	051 861424	051 8612107
197 Richter	Mr Chris	DLN Dept. of Agriculture	, PO Box X01, Glen, 9366	051 861 1142	051 861 2145
61 Sebitloane	Mr Letebele	DLN Agric, Conservation and Environment	, 8 Eloff cnr Market, PO Box 8769, 2000	355 1971	337 2292
81 Serage	Mr Lucas	DLN ARC	, Private Bag X29, Bethlehem, 9700	058 303 5686	058 303 3952
188 Snyman	Mr Koos	DLN Dept. of Agriculture	, Private BAG X01, Glen, 9360	051 8611109	051 8612107
203 Taljaard	Mr Dawie	DLN Dept. of Agriculture	, PO Box 585, Bethlehem, 9700	058 3038333	058 303 7287
201 Theron	Mr Johann	DLN Dept. of Agriculture	, Private Bag X01, Glen, 9360	051 8611140	051 8612107
85 Thobela	Mr Mphoya	DLN Farmer support group	, University of Natal, Private Bag X01, Pietermaritzburg, 3209	0331 260 6279	0331 260 6281
162 Tladi	Mr John	DLN Dept. of agriculture	, P/Bag X120, Pretoria, 0001	012 319 7568	012 329 5938
166 Tlhale	Mr Tom	DLN Dept of Agriculture	, PO Box 24, Rustenberg, 0300	0142 2826112	0142 23594
100 Urquhart	Ms Penny	DLN PTW-SA	, PO Box 6824, Roggebaai, 8012	021 461 5954	021 461 5954
195 Van der Merwe	Mr Siegfried	DLN Dept. of Agriculture	, PO Box 347, Odendaalsrus, 9480	057 398 1664	057 398 1666

Delegate Surname	First Name	Type	Company Name	Address	Work Telephone	Fax Telephone
187	Van Der Westhuizen	Mr	Mias	DLN Dept. of Agriculture , Private BAg X01, Glen, 9360	051 8611210	051 8611207
183	Venter	Mr	Izak	DLN Dept. of Agriculture , PO Box 585, Bethlehem, 9700	058 303 8333	058 3037287
239	Vorster	Mrs	Ineke	DLN ARC-Roodeplaat , Private Bag X293, Pretoria, 0001	012 8419698	012 8080348
263	Kriel	Ms	Lisa	GD University of Pretoria , 9 Frederick Ernst Ave, Thabo Tswane, Pretoria, 0001	012 481 4141	012 481 4154
88	Adams	Dr	Rob	SD Art, Science, Culture, Technology , Private Bag X894, Pretoria, 0001		
1	Du Toit	Mrs	Magda	SD National Dep Agric- Agric News , P/Bag X144, Pretoria, 0001	012 319 6623	012 323 2516
238	Fhumulani	Ms	Rachel	SD Farming Systems Research , , Northern Province,		
223	Kotsokoane	Mr	Joe	SD National African Farmers Union , ,		
89	Swanepoel	Dr	Frans	SD Foundation for Research Development , PO Box 2600, Pretoria, 0001	021 481 4000	021 349 1179
74	Terblanche	Dr	Jons	SD ARC , 252 Roos Straat, Meyerspark, 0184	012 427 9702/3	012 342 8024
96	Titi	Ms	Vangi	SD SA Provincial Dept. of Agriculture , ,		
2	Van Zyl	Prof	Johan	SD University of Pretoria , University of Pretoria, Pretoria, 0002	012 420 2900	012 420 3696
259	Adupa	Ms	Joyce	SEM Faculty of Biological and Agric. Sc, University of Pretoria, Pretoria, 0002	(012) 420-3201	(012) 420-3890
249	Cronje	Mr	Johan	SEM University of Pretoria Faculty of Biological and Agric. Sc, University of Pretoria, Pretoria, 0002	(012) 420-3201	(012) 420-3890
260	Kalanzi	Ms	Anne	SEM Faculty of Biological and Agric. Sc, University of Pretoria, Pretoria, 0002	(012) 420-3201	(012) 420-3890
78	Kekana	Mr	Daniel	SEM ARC , PO Box 8783, Pretoria, 0001	012 427 9757	012 435 814
250	Koning	Ms	Heleen	SEM Faculty of Biological and Agric. Sc, University of Pretoria, Pretoria, 0002	(012) 420-3201	(012) 420-3890
254	Kwerepe	Ms	Baone	SEM Faculty of Biological and Agric.Sc, University of Pretoria, Pretoria, 0002	(012) 420-3201	(012) 420-3890
243	Lhopitalier	Mr	Laurent	SEM CIRAD , PO Box 542, Newtown, 2113	082 883 5506	011 8027478
65	Lundall-Magnuson	Ms	Elize	SEM ARC , Private BAg X134, Pretoria, 0001	012 329 3269	012 329 3278
251	Mabena	Ms	Lindi	SEM Faculty of Biological and Agric.Sc, University of Pretoria, Pretoria, 0002	(012) 420-3201	(012) 420-3890
242	Maceba	Mr	K	SEM ARC , 6 Oabaza Street, Umtata, 5100		
79	Marasas	Ms	Carissa	SEM ARC , PO Box 8783, Pretoria, 0001	012 427 9700	012 435 814
256	Matlala	Ms	Kaabo	SEM Faculty of Biological and Agric. Sc, University of Pretoria, Pretoria, 0002	(012) 420-3201]	(012) 420-3890
252	Mbatani	Ms	Fefe	SEM Faculty of Biological and Agric. Sc, University of Pretoria, Pretoria, 0002	(012) 420-3201	(012) 420-3890
255	Mphahlele	Mr	Patrick	SEM Faculty of Biological and Agric. Sc, University of Pretoria, Pretoria, 0002	(012) 420-3201	(012) 420-3890
244	Nkoni	Miss	B	SEM ARC , P/Bag X5002, Umtata, 5100		
258	Pakela	Ms	Yolisa	SEM Faculty of Biological and Agric. Sc, University of Pretoria, Pretoria, 0002	(012) 420-3201	(012) 420-3890
257	Phophi	Mr	Shadrack	SEM Faculty of Biological and Agric. Sc, University of Pretoria, Pretoria, 0002	(012) 420-3201	(012) 420-3890
77	Randela	Mr	Rendani	SEM ARC , PO Box 8783, Pretoria, 0001	012 427 9756	012 342 2231
245	Thabede	Mr	E	SEM ARC , PO Box 507, Piet Retief, 2380	040 6022157	
45	Vlok	Ms	Elmari	SEM University of Stellenbosch , P O Box 98, SENKAL, 9600	05848 2169	05848 2193
208	Mogashoa	Ms	Makhapu	SLM University of the North , Private Bag X1106, Sovenga, 0727		
207	Mpangane	Ms	Nomsa	SLM University of the North , Private Bag X1106, Sovenga, 0727		
191	Phukubye	Mr	Caiphus	SLM University of the North , PO Box 595, Pieterburg, 0700		

Delegate Surname	First Name	Type	Company Name	Address	Work Telephone	Fax Telephone	
270	Ratsaka	Mr	Moses	SLM University of the North	, PO Box 2862, Sovenga, 0727	015 268 2376	
262	Stroebe	Mr	Aldo	SLM University of Pretoria	, 9 Frederick Ernst Ave, Thabo Tswane, Pretoria, 0001	012 481 4141	012 481 4154
190	Theku	Mr	Joe	SLM University of the North	, Private BAg X1106, Sovenga, 0727		
216	Campbell	Mrs	Melanie	STF Event Dynamics	PO Box 411177, Craighall, 2024	(011) 442-6111	(011) 442-5927
215	Collier	Mrs	Sandra	STF Event Dynamics	PO Box 411177, Craighall, 2024	(011) 442-6111	(011) 442-5927
212	Dickson	Miss	Candice	STF Event Dynamics	PO Box 411177, Craighall, 2024	(011) 442-6111	(011) 442-5927
217	Houston-McMillan	Miss	Tasha	STF Event Dynamics	PO Box 411177, Craighall, 2024	(011) 442-6111	(011) 442-5927
213	Plotz	Miss	Dana	STF Event Dynamics	PO Box 411177, Craighall, 2024	(011) 442-6111	(011) 442-5927
218	Tangney	Mr	Denis	STF Event Dynamics	PO Box 411177, Craighall, 2024	(011) 442-6111	(011) 442-5927
214	Wilkins	Miss	Anne	STF Event Dynamics	PO Box 411177, Craighall, 2024	(011) 442-6111	(011) 442-5927

TOTAL: 152

SWAZILAND

64	Fakuoze	Mr	Msuthu	ALM	c/o Mr N Tierney, PO Box 388, Mbabane, Swaziland,	268 42562	268 43780
142	Dlamini	Mr	Sam	DEM Ministry of Agriculture	, ,	09268 42731	09268 44700
63	Tierney	Mr	Niall	DLN Lutheran Development Services	, PO Box 388, Mbabane, Swaziland,	268 42562	268 43780

TOTAL: 3

TANZANIA

144	Kashuliza	Dr	AK	DEM Sokaine University	, Department of Agric. Economics, PO Box 3007, Morogoro,	09255 563415	09255 563080
113	Mahoo	Dr	H	DEM Famesa	, ,		
143	Moshi	Dr	A	DEM ARI	, ,		09255 51 865312
145	Semgalawe	Mrs	Zainab	DEM Ministry of Agriculture	, PO Boc 2066, Dar Es Salam,		

TOTAL: 4

UGANDA

233	Dalsgaard	Dr	Edna Mae Lopez	ALM	, 358 Golf Couse Apartments, PO Box 22774, Kampala,	256 41255465	256 41235674
116	Adupa	Mr	L	DEM Famesa	, ,		
115	Aluma	Dr	J	DEM Famesa	, ,		
117	Asege	Ms		DEM Famesa	, ,		
118	Mugerwa		J	DEM Framesa	, ,		
146	Mutetikka	Ms	Mugisa	DEM Namalunge Animal Research Org.	, ,		

Delegata Surname	First Name	Type	Company Name	Address	Work Telephone	Fax Telephone
119	Nabasiryé	M	DEM Farnesa	,,		
147	Nakiganda	Ms	A	DEM Ministry of Agriculture		
114	Odogala	Dr	W	DEM Farnesa		
148	Ojacor	Ms	FA	DEM Nat. Agriculture Research Org.		
232	Dalsgaard	Dr	Jens Peter	DLN DANIDA		
224	Ebong	Dr	Cyprian	DLN NARO		
228	Enyaru	Dr	John	DLN NARO		
229	Kabirizi	Ms	Jolly	DLN NARO		
227	Mukiibi-Muka	Dr		DLN NARO		
231	Mutetikka	Dr	David	DLN Makerere University		
226	Otim	Dr	Charles	DLN NARO		
230	Rubaire-Akiiki	Dr	Chris	DLN Makerere University		
225	Twinamasiko	Dr	Emily	DLN NARO		

TOTAL: 19

ZAMBIA

124	Mtinda			DEM Farnesa		
122	Musanya	Mr	J	DEM Farnesa		
123	Muteto	Mr	B	DEM Farnesa		
219	Mutinta	Mr	A	DEM Farnesa		
120	Mwala		M	DEM Farnesa		
151	Mwala	Dr	Mick	DEM University of Zambia		
121	Mwale		W	DEM Farnesa		
149	Ndiyoi	Mr	Mukelabai	DEM Ministry of Agriculture		
150	Samatebele	Ms	Helen	DEM Programme against malnutrition		

TOTAL: 9

ZIMBABWE

90	Anandajayasekeram	Dr	Ananda	COM AFSR-E		
94	Mariga	Dr	Irvine	COM University of Zimbabwe		
132	Dahl		SI	DEM Farnesa		
133	Dixon	Mr	John	DEM Farnesa		
128	Gova	Ms	M	DEM Farnesa		

Delegate Surname	First Name	Type	Company Name	Address	Work Telephone	Fax Telephone
125	Hakutangwi	MB	DEM Farnesa	..		
127	Makadho	Dr J	DEM Farnesa	..		
152	Nyathi	Dr Petros	DEM Ministry of Agriculture	, Po Box CY 594, Causeway, Harare,	09263 4 704531	09263 4 728317
153	Shumba	Dr EM	DEM Forestry commission	, PO Box HG 595, Highlands, Harare,		09263 4 497070
126	Sigobodhla	GH	DEM Farnesa	..		
129	Sithole	Ms PN	DEM Farnesa	..		
222	Van Veenhuizen	Mr M	DEM Farnesa	..		
134	Zunguze	M	DEM Farnesa	..		
265	Hungwe	Mrs Mabel	DLN TDEAA	, Po Box 167, Mt Pleasant , Harare,	09263 4 303544	09263 4 303544
158	Shumba-Mnyulwa	Mrs Doreen	DLN Biotechnology Trust of Zimbabwe	, PO Box 267, Harare,	092634 860342	092634 860343
248	Waeterloos	Mr Evert	DLN Funds for Development Cooperation	Po Box MP 167, Mount Pleasant, HARARE,	09 263 747 841	09 263 747 841
192	Matanjare	Mr Jack	SD	, PO Box 29, North End, Bullawayo,	09263 9228319	09263 97050
172	Mpofu	Dr Irvine	SD University of Zimbabwe	, Animal Science PO Box Mp167, Harare,	09263 4303211	09263 4333407
97	Rukuni	Dr Mandi	SD Kellogg Foundation	..		
157	Kasembe	Mr E	SLM University of Zimbabwe	, Crop Scienc4 Dept., PO Box MP167, Mount Pleasant,	04 303211	
240	Mickels-Kokwe	Ms Guni	SLM Roskild University	, c/o IUCN-ROSA, PO Box 745, Harare,	263 4 306491	263 4 306491
155	Mubonderi	Ms T	SLM University of Zimbabwe	, Crop Science Dept., PO Box MP167, Harare,	04 303211 e1139	
156	Mutungamiri	Ms Angeline	SLM University of Zimbabwe	, Crop Science Dept., Mount Pleasant, Harare, MP167	04 303211 e1139	

TOTAL: 23

SUMMARY OF REGISTRATION TO DATE BY TYPE :

Training Tools Bazaar Delegate	0
ALM Accompanying Person late - member	3
COM Committee member	9
DEM Delegate Early Reg. - member	71
DEN Delegate Early Reg. - non member	37
DLM Delegate Late Reg. - member	18
DLN Delegate late reg. - non member	78
GD Gala Dinner Delegate	1
SD Sponsored Delegate	12
SEM Student - early reg. - member	20
SLM Student late reg. - member	10
STF Staff	7
TTB Training Tools Bazaar Delegate	1
CANCELLED	3

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Total 270

Prepared by EVENT DYNAMICS

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130 Souare	Mr Daouda	DEM	IRAG-CRA Koba	, B.P 1523, Conakry, Guinee,	224 41 10 62	224 41 57 58
264 Mucheni	Mr A	DEN		,,		
272 Elimane	Dr Diagana	DLM		, CNERV, Nouakchott, Mauritanie, 167	222 252567	22 252731
276 Akkas Ali	Mr M	DLN	BARI	,,		
267 Bainville	Mr Sebastien	DLN	CIRAD	,,		
269 Coulibaly	Mr Felix	DLN	CIRAD	,,		
277 Kashem	Mr M.A.	DLN	BAU	,,		
268 Mahamoudou	Mr Said	DLN	CIRAD	,,		
275 Momin	Mr M.A.	DLN	BARI	,,		
274 Rahman	Dr M.K.	DLN	BSRI	,,		
273 Razzaque	Dr M.A.	DLN	BARC	,,		
204 Blades	Mr Hayden	SD	CARDI	, UWI campus, St Augustine, Trinidad,		1 868 645 1208
193 Nagatalevu	Ms Mereseini	SD	Koronovia Research Station	, PO Box 77, Nasori, Fiji Islands,	679 477044	679 400262
194 Weekes	Mr Sherman	SD	CARDI	, St Kitts/Nevas/Montserrat, PO Box 479, Basseterre, St Kitts,		1 869 4653285
TOTAL: 14						
ALGERIA						
114 Dixon	Mrs Alyson	AEM		, Dept of Anthropolgy, University of, Durham., DH1 1QS	44 91 374 2856	44 91 374 28790
TOTAL: 1						
AUSTRALIA						
110 McGregor	Mrs Julia	AEM		, Muresk Dastitute of Agriculture, Northam, WA6401	61 8 969 01567	61 8 969 01500
102 Southorn	Mrs Joanne	AEM		, C/o Mr N Southern PO Box 883, Orange, NSW, 2800	02 6360 5662	02 6360 5590
109 McGregor	Prof Murray	DEN	Curton University of Technology	, Muresk Dastitute of Agriculture, Northam, WA6401	61 8 969 01567	61 8 969 01500
104 Rola-Rubzen	Dr Fay	DEN	Curton University of Technology	, MAresk dastitute of Agriculture, Northam, West Australia, WA6401	61 896901561	61 896901500
101 Southorn	Mr Neil	DEN	University of Sydney	, PO Box 883, Orange, NSW, 2800	02 6360 5662	02 6360 5590
68 Thwaites	Mr Robin	DEN	The University of Queensland	School of Land and Food, University of Queensland, St Lucia, QUEENSLAND, 4072	09617 33651689	09617 33652965
172 Walker	Dr Daniel	DLM	CSIRO	, CSIRO,PMB, PO Aitkenvale Queensland, 4814	61 7 47538580	61 7 4753 8650
253 Chamala	Prof Shankar	DLN	University of Queensland	, University of Queensland,	61 7 33652159	61 7 33659016
236 Claridge	Dr Ciel	DLN	Centre for Intergrated Resource	, The university of Queensland, Brisbane, 4072	61 7 33652984	61 7 33652965
184 Coutts	Dr Jeff	DLN	Rural Extension Centre	, University of QLD Gatton, Queensland, 4345	61 7 546 01125	61 7 54601473
212 Dart	Dr Peter	DLN	University of Queensland	Overseas Projects Office, School of Land and Food, Brisbane, 4072	0961-7-33652867	0961-7-33651188

Delegate Surname	First Name	Type Company Name	Address	Work Telephone	Fax Telephone
213 Henzell	Dr Ted	DLN University of Queensland	182 Dewar Terrace, Corinda Qld, 4075	0961733799869	0961733799734
151 Ryall	Mr Ken	DLN Tocal College	, Tocal College, Paterson NSW, 2421	0249 398888	0249 385549
37 Timsina	Dr Jagadish	SD University of Melbourne	, Institute of Land & Food Resources, University Of Melbourne Parkville, 3052	61 3 9344 8084	61 3 9344 4665
72 King	Ms Christine	SEM University of Queensland	, P O Box 729, Dalby, Queensland, 4405	61 (0)746699585	61 (0)746625310

TOTAL: 15

BANGLADESH

251 Kashem	Mr Agul	DLN BAU	, FSES, BAU, Mymensingh-2202,	880 91 55364	880 91 55810
103 Ranjan Saha	Mr Satya	DLN RESPHQ	, RESP HQ'S. Po Box 43, Faridpur, 7800	880 6312401	880 6313558
203 Kabir	Mr Humayan	SD FSES, BAU	, BAU, Mymensingh, Bangladesh,	880 91 55364	880 91 55810

TOTAL: 3

BELGIUM

18 D'Haese	Ms Marijke	SEM University of Ghent	, Coupure Links 653, 900 Gent,	32 9 264 5923	32 9 264 6246
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TOTAL: 1

REPUBLIC OF BENIN

228 Adeoti	Mr Razack	DLM IITA- Benin Station	08 B.P. 0932, Benin,	09229 350188	09229 350556
227 Agli	Mr Charles	DLM Pedune Benin	08 B.P. 0932, Benin,	09229 350188	09229 350556
214 Hammond	Dr Winfred	DLN IITA Benin Station	, 08B.P. 0932, Benin,	09229 350188	09229 350556
216 James	Dr Braima	DLN Int. Inst. of Tropical Agriculture	08 B.P. 0932, Cotonou, Benin,	09229 350188	09229 350556

TOTAL: 4

BOTSWANA

132 Caron	Dr Patrick	DEM CIRAD	, SACCAR Private Bag 00108, Gaborone,	267 328775	267 328806
217 Acquah	Dr Benjamin	DLM University of Botswana	, Private Bag 0022, Gaborone,	267 3552916	267 357573

TOTAL: 2

BURKINA FASO

111 Bezuneh	Dr Taye	DEM OAU/STRC-SAFGRAD	, 01BP 1783, Ouagadougou 01, Burkino Faso, BP 1783	226 308240	226 311586
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238 Ouedraogo	Dr Mahama	DLM OAU/STRC-SAFGRAD	, 01 BP 1783, Ouagadiougou,	226 306071	226 311586
226 Ilboudo	Mr Dieudonne	DLN Pedune Burkina	01 B.P. 476, Ouagadougou 01, Burkina Faso,	09226 319202/08	09226 340271
TOTAL: 3					
BRAZIL					
50 Magalhaes	Nilana	AEM CIRAD	, RUA Rodriques Alves 1979-Bodocongo, Campina Grande-PB-Brazil, 58101.290	5583 310 1051	5583 310 1051
49 Sabourin	Mr Eric	DEN CIRAD	, RUA Rodriques Alves 1979-Bodocongo, Campina Grande-PB-Brazil, 58101.290	5583 310 1051	5583 310 1051
173 Pinheiro	Dr SL	DLN EPAGRI	, EPAGRI C.P 277, ITAYAI S.C, 88301 970	55 47 3465244	55 47 3465255
271 Silveira de Lima	Mr Reginaldo	DLN	**		
124 Afllholder	Dr Francois	SLM University of Brasilia	, Embrapa-Cpac, BR 020, KM 18, Rodovia Brasilia/Fortaleza, 73301970	55 61 389 1171	
246 Afllholder-Figuie	Ms Muriel	SLM CIRAD	, SIHS Qi 11, Congunto 6, Cosa 7, Brasilia, 71625260	0955 61 2484126	0955 61 2482381
TOTAL: 6					
REP. OF CAMEROON					
215 Coulibaly	Dr Ousmane	DLN IITA-HFS YAOUNDE	P.B. 2008, Messa, Yaounde,	09237 237522	09237 237437
229 Ntoutkam	Dr Geroges	DLN Pedune Cameroon / IRAD	P870, Box 398, Maroua, Cameroon,	09237 292640	09237 292640
TOTAL: 2					
CANADA					
106 Schumacher	Mrs Valerie, Maia(7)	AEM	, Agriteam Canada Consulting, Suite 890, 10201 Southport Road, T2W 4X9	403 253 5298	403 253 5140
105 Schumacher	Mr Alex	DEM Agriteam Canada Consulting LTD	, Agriteam Canada Consulting, Suite 890, 10201 Southport Road, T2W 4X9	403 253 5298	403 253 5140
TOTAL: 2					
CHILE					
190 Berdegue	Mr Julio	SD RIMISP	, CAsilla 228-22, Santiago,	56 2 2232423	56 2 2251922
TOTAL: 1					
COLOMBIA					
230 Fujisaka	Dr Sam	SD	**		
206 Lopez-Montana	Ms Celia	SD National planning department	, Calle 26 N 1319, Piso 3 Bogota,	1202 6233876	1202 6233968
TOTAL: 2					

Delegate Surname	First Name	Type	Company Name	Address	Work Telephone	Fax Telephone
COSTA RICA						
123 Hocde	Mr Henri	DEM	CIRAD	, CIRAD-IICA, Apartado 55, San Jose, 2200	506 229 3155	506 229 2567
TOTAL: 1						
CZECH REPUBLIC						
51 Havel	Prof Jiri	DEN	University of Agric Prague	, Ceske zem. Universita Praha-6, Suchdol 16521 Czech Republic, 16521	420/2 24382187	420/2 20921363
170 Pokorne	Ms Miloslava	DEN		c/o Jiri Havel, Institute of tropical Agriculture, University of Prague, 16521	4202 24382187	4202 20921363
TOTAL: 2						
DENMARK						
255 Hindhede	Mr Jens	DLN	Danish Institute	, Research Centre, PO Box 50, Tjele, 8830	45 89991345	45 89991500
TOTAL: 1						
ETHIOPIA						
177 Mutimba	Dr Jeff	DLM	Windrock International	, Alemaya University, PO Box 138, Dire Dawa,	251 5 111 213	251 5 114008
178 Beshah	Mr Tesfaye	DLN	Alemaya University	, PO Boc 138, Dire Dawa,	251 2 11 72 53	
TOTAL: 2						
FINLAND						
118 Rajalahti	Dr Riikka	DEN	University of Helsinki	, Po Box 27, Viikki, University of Helsinki, 00140	358 9 708 58339	358 9 708 58463
TOTAL: 1						
FRANCE						
127 Durand	Prof Guy	DEM	ENSA	, 65 Rue De Saint Brieu, RENNES Cedex, 35042	33 299 285175	33 299 285175
65 Etienne	Mr Michel	DEM	INRA	, Unite d'ecodeveloppement, Site Agrpnc, 84914	33 490316237	33 490316249
126 Faure	Dr Guy	DEM	CIRAD	, BP 5035, Montpellier Cedex 1, 34032	33 4 67615753	33 4 67611223
125 Le Gal	Dr Pierre-Yves	DEM	CIRAD	, B.P 5035, Montpellier Cedex 1, 34032	33 4 67615753	33 4 67611223
116 Lightfoot	Dr Clive	DEM	ISG	, ISG Agropolis International, Ave Agropolis, Montpellier, 34394	334 6704 7527	334 6704 7526
131 Perret	Dr Sylvain	DEM	CIRAD	, B.P 5035, Montpellier Cedex 1, 34032	33 4 67 615753	33 4 67 611223

Delegate Surname	First Name	Type	Company Name	Address	Work Telephone	Fax Telephone
128	Tonneau	Dr	Jean Phillippe	DEM CIRAD , BP 5035 Montpellier, CEDEX 1, 34032	33 4 67 615753	33 4 67 611223
5	Rapey	Ms	Helene	DEN CENAGREF Div Foret et Agroforestrie , 24 Avenue des Landais, BP50085 - 63172 Aubiere Cedex, 23172	0933 473440636	0933 473440698
62	Trebuil	Dr	Guy	DEN AGER CIRAD , 2477 Avenue Agropolis BP 5035, Montpellier, 34032	33 4 67 617112	33 4 67 615512
240	Jouve	Dr	Philippe	DLM CNEARC , 1101 Ar Agropolis BP 5028, Montpellier Cedex 01, 34035	33 4 67 617027	33 4 67 410232
152	Laurent	Dr	Catherine	DLN INRA , INRA-SAD Route de st Cyr, Versailles, Cedex, 78026	33 1 30 833384	33 1 30833393
59	Brossier	Dr	Jacques	SD INRA , Services President-17, Rue Sully BV-21034 DIJON CEDEX,	333 80633001	333 80633200
138	Hubert	Dr	Bernard	SD INRA , INRA-SAD, 147 Rue De L'Universite,, Paris Cedex 07, 75338	33 1 4275 9024	33 1 4275 9507

TOTAL: 13

GERMANY

38	Hoffmann	Dr	Irene	DEN Justus-Liebig University , Ludwigstr 21, Giessen,	49 67199 37673	49 67199 37679
40	Pilgram	Mr	Klaus	DEN GTZ , PO Box 5180 D-65726, Eshborn,	49 6196 791447	49 6196 797108
86	Stephan	Dr	Thomas	DEN Centre for Environmental Research , PF 2, D-0430, Leipzig, 04301	49 341 235 2491	49 341 235 3500
183	Honagbode	Mr	Cyrille	SLM University of Hohenheim , Institute 490c. University, Stuttgart, 70593	49 711 4593631	49 711 459381

TOTAL: 4

GHANA

43	Mado	Mrs	Young-Hee	AEM , SG2000 PMD Kotoka Airport, Accra,	233 21 776573	233 21 773467
107	Amezah	Dr	Amez	DEN MOFA, DAES , Po Box M37, Accra,	233 21 664282	233 21 665282
42	Mado	Mr	Toshiro	DEN Sasakwa Africa Association , SG2000 PMD Kotoka Airport, Accra,	233 21 776573	233 21 773467
225	Salifu	Dr	A.B.	DLN Pedune Ghana /SARI P.B. 52, Ghana,	09233 71 22411	09233 71 23483

TOTAL: 4

INDIA

141	Das	Mr	C.S	DLM Lokasiksha Parishad , IPM Lokasiksha Parishad, Ramakrishna Mission, Nerendrapur, 743 508	0991 33 4772207	0991 33 4772070
233	Singrao	Prof	M	DLN Acharya N.G Ranga Agric. University , College of Agric. Hyderabad, Andhra Pradesh,	91 40 4015011	91 40 4015031
239	Strivastava	Mr	Sanjay	DLN Ministry Of Rural Development , A-189 Pandar Road, New Delhi, 110003	0991 11 3389820	0991 11 3017463
234	Subrahmanyam	Prof	M	DLN Acharya N.G Ranga Agric. University , College of Agric. Rajendranagar, Huderabad, 500030	91 40 4015011	91 40 4015031
207	Chander	Mr	Mahesh	SD Indian Veterinary Research Inst. , Mukteswar, 263138 UP,	91594288011	91594288011
208	Hirevenkanagoudar	Mr	Linganagouda	SD University of Agricultural Sciences , Vice-Chancellor's Office, Dharwad-5, Karnataka, 580005	0991 836 347422	0991 836393783
154	Narasinha	Prof	Nelemav	SD University of Agricultural Science , U.A.S, G.K.V.K, Bangalore, 560065	91 80 3445128	91 80 3339486

TOTAL: 7

Delegate Surname	First Name	Type	Company Name	Address	Work Telephone	Fax Telephone	
INDONESIA							
2	Dierolf	Dr	Tom	DEN Jasa Katom	, Jalan Kekhakiman, 283 Bukittinggi, West Sunatra, 26136	62 752 22452	62 752 22452
149	Hukum	Mr	Rusli	DEN Directorate of Horticulture	, Jalan Ragunan 19, Pasar Minggu, Jakarta, 12520	62 21 2806570	
150	Tarmudgji	Dr	M.S	DEN Department of Agriculture	, Jalan Martadinata 30, Bogor, 16114	62 251 334456	62 251 336425
TOTAL: 3							
ISRAEL							
66	Blum	Prof	Abraham	DEN Hebrew University of Jerusalem	, PO Box 12 Rehouot, 76100	972 8 948 1316	972 8 947 3305
TOTAL: 1							
ITALY							
74	Neri	Mrs	Paola	AEM c/o Mr Liano Angeli	, Via S.C. De Lollos S.N.B., Viterbo, ITALIA, 01100	0039 761357294	0039 761357295
73	Angeli	Prof	Liano	DEM Tuscia University	, Via S.C. De Lollos S.N.B., Viterbo, ITALIA, 01100	0039 761357294	0039 761357295
41	Marsh	Dr	Robin	DEN Rural Development Officer	, SDAR/FAO Viale Delle Terme, Rome, 00100	39 570 55113	39 06 57053152
93	Senni	Prof	Saverio	DEN Universita Delgi Studi Della Tuscia	, Via S.Camillo De Lellis, V Iterbo, 01100	39 761 357272	39 761 357295
146	Belt	Mr	John	DLN FAO	, Viale delle Terme d Caracalla, Rome, 00100	3906 57055843	3906 57056799
159	Vellante	Prof	Sergio	DLN University of Basilicata	via San Martino Parco Carlo III, scD/3, Caserta, 81100	0939 823 441597	0939 823 441597
145	Baker	Dr	Doyle	SD FAO	, Viale Delle Terme d Caracalla, Rome, 00100	3906 57055405	3906 57056799
185	Pierini	Dr	Fabio	SEM Ministry of Foreign affairs	, Via Antonia Cicchi, Firenze, 50131	39 055 5061328	39 055 5061333
TOTAL: 8							
IVORY COAST							
71	Simpson	Dr	Brent M Simpson	DEN WARDA/ADRAO	, WARDA/ADRAO, OI BP 2551, Bovake, Cote d' Ivoire,	225 634514	225 634714
TOTAL: 1							
JAPAN							
61	Kanaoka	Mr	Masaki	DEM Tohoku National Agric Experiment	, TNAES 4 Akahira, Shimo-Kuriyagawa Morioka, 020 0123	81 19 643 3493	81 19 641 7794
60	Miyatake	Mr	Kyouichi	DEM TNAES	, TNAES Shylmo-Kurlyagawa, Marioka Iwate, 020-0123	81 196433492	81 196433492
78	Sakurai	Dr	Takeshi	DEM NRI of Agricultural Economics	, 2-2-1 Nishigahara, Kita-ku, TOKYO, 114-0024	81 339103807	81 339400232
10	Tsuchida	Mr	Shiro	DEM National Agric Research Centre	, NARC Kannaondai 3-1-1, Tsukuba Ibaraki, 305-8666	81 298 381414	81 298 388515

Delegate Surname	First Name	Type Company Name	Address	Work Telephone	Fax Telephone
11 Yasunobu	Kumi	DEM National Agric Research Centre	, NARC Kannondai 3-1-1, Tsukuba Ibaraki, 304-8666	81-298 388876	81 298 388515
7 Yokoyama	Shigeki	DEM National Research Inst. of Agric.	, Nishigahara 2-2-1, Kita-Ku, Tokyo, 1140024	813 3910 3807	813 3940 0232
115 Mizuno	Mr Masami	DEN NRIAE	, 2-1 Nishigahara 2-Chome, Kita-Ku, Tokyo, 114-0024	03 3910 3146	03 3940 0232
19 Shimada	Prof Shuheii	DEN Kyoto University	, Sakyo-ku Kyoto, 606-8304	81 75 753 7824	81 75 753 7810

TOTAL: 8

KENYA

55 Freeman	Mrs Isa	AEM ICRISAT	, PO Box 39063, Nairobi,	254 2 521450	244 2 521001
53 Moturi	Dr Elpinah	AEM ICRISAT	, Box 39063, Nairobi,	254 2521450	254 2 521001
63 Jones	Dr Richard	DEM ICRISAT	, PO Box 39063, Nairobi,	254 2 521450	254 2 521001
54 Freeman	Dr Ade	DEN ICRISAT	, PO Box 39063, Nairobi,	254 2 521450	244 2 521001
169 Gitau	Dr Thomas	DEN University of Nairobi	, PO Box 29053, Nairobi,	002542630741	092542631325
157 Holoing	Ms Christine	DEN SIDA	, PO BOX 30028, Nairobi,	254 2 521450	254 2 520
12 Mason	Miss Veronica	DEN KARI/DFID	, PO Box 450 Kitale, Kenya,	254 325 30774	254 325 30378
13 Mulira	Dr G.L	DEN Kenya Agric Research Institute	, PO Box 450, Kitale,	032520108	0325 20161
82 Mureithi	Dr Joseph	DEN Rockefeller Foundation	, PO Box 14733, Nairobi,	2542 449810	2542 449810
81 Njue	Ms Evelyn	DEN KARI	, KARI, PO Box 57811, Nairobi,	2542 583301	2542 583344
52 Omiti	Dr John	DEN ICRISAT	, Box 39063, Nairobi,	254 2521450	254 2 521001
158 Omoro	Mrs Loice	DEN Ministry of Agriculture	, PO BOX 30028, Nairobi,	254 2 721691	
80 Onyango	Ms Ruth	DEN KARIK	, KARIK,NARC Box 450, Kitale,	254 325 30889	254 325 20161
168 Otieno	Mr George	DEN University of Nairobi	, PO Box 29053, Nairobi,	092542630741	092542631325
64 Remington	Dr Tom	DEN Catholic relief services	, PO Box 49675, Nairobi,	254 2 750788	254 2 741356
186 Ngethe	Mr R.V	DLM ASAL	, PO Box 144, Kenya,	0176 31854	0176 31402
258 Onduru	Mr D	DLM Kenya Institute of Organic Farming	, PO Box 34972, Nairobi,	254 02 583383	254 02 583570
187 Opondo	Mr CJ	DLM ASAL	, PO Box 144, Nanyuki,	0176 31854	0176 31402
232 Sanchez	Dr Pedro	DLM ICRAF-Kenya	, ICRAF, Po Box 30677, Nairobi,	09254 2521003	09254 2521001

TOTAL: 19

MADAGASCAR

31 Dominique	Dr Rollin	DEM CIRAD	, Pso Cirad BP 561, Tulear 601,	261 20 9441018	261 20 9441898
100 Rabary	Mrs Bodo	DEN FOFIFA	, B.P 1444, Antananarivo 101,	261 202240278	261 2040270

TOTAL: 2

Delegate Surname	First Name	Type	Company Name	Address	Work Telephone	Fax Telephone
MALAWI						
153 Kumwenda	Mr Wells	DLM	Ministry of Agric and Irrigation	, Chitedze Research Station, Box 158, Lilongwe,	265 767 222	265 784 915
TOTAL: 1						
MALI						
144 Demba	Dr Kebe	DLM	Institut d'economie rurale (IER)	, IER B.P 258, Bamako,	223 215904	223 223775
224 Toure	Dr Mamadou	DLN	Pedune Mali	Institut d'economie rurale du Mali, PB 214, Segou,	09223 231905	09223 320500
210 Kebe	Dr Demba	SD		, , Bamako,	223 21 5904	223 22 3775
TOTAL: 3						
MEXICO						
260 Braojas	Ms Ramon	DEM	AMUCSS	, AV Universidad 1913-4, Oxtopulco, 04318	52 5 6616940	52 5 6616940
75 Harrington	Dr Larry	DEN	CIMMYT	Lisboa # 27, Col. Juarez,, Cuauhtemoc. Apdo, POSTA, 6-641, 06600	525 7269091	525 7267558
TOTAL: 2						
MOZAMBIQUE						
83 Pijenburg	Mr Bart	DEM	Faculty of Agronomy	, PO Box 257, Maputo,	258 1 490009	258 1 492176
92 Bayer	Mr Gary	DEN	World Vision	, AV Paulo 5, Kankhomba, Maputo,	258 1 422922	2581 421446
139 Chovieque	Mr Mussa	DEN	World Vision Mozambique	, CP 2531, Avenida Paulo 5, Kankhomba 1170 Maputo,	258 1 426743	258 1 301075
85 Mutondo	Mr Joao	DEN	Eduardo Mondlane University	, Maputo, 257	258 01 492178	258 -1 492176
90 Parkinson	Dr Verona	DEN	World Vision Internatuional	, C.P 517, Quelimane,	258 4 21 41 88	258 4 21 21 36
91 Toma's	Mr Joaquin	DEN	World Vision International	, C.P 517, Quelinane,	258 4 213807	258 4 212136
79 Tostao	Mr Emilio	DEN	Eduardo Mandlane University		2581 492178	2581 492176
84 Van Vugt	Mrs Antoinette	DEN	Eduardo Mondlane University	, PO Box 257, Maputo, CP 257	258 1 496853	258 1 492776
182 Peminkhof	Ms Petra	DLM	Royal Tropical Institute	, INIA/DASP Cp 3658, Maputo,	258 6 212447	258 6 214177
223 Amane	Dr Manuel	DLN	Pedune Mozambique/INIA	Inst. Nat.Ivestigacao Agronomica, PMBox 3658, Maputo,	092581460190	092581460074
148 Antonio	Mr Carolina	DLN	INIA	, Estacao Agraria de Lichinga, Mozambique, 238	258 071 2523	258 071 2646
147 Muitta	Mr Amade	DLN	INIA	, Estacao Agraria de Lichinga, Mozambique, 238	258 071 2523	258 071 2646
TOTAL: 12						

Delegate Surname	First Name	Type Company Name	Address	Work Telephone	Fax Telephone
MPUMULANGA					
30 Beck	Mr Brian	SD Ecolink	, PO Box 727 White River, 1240	013 751 2120	013 750 3287
TOTAL: 1					
NAMIBIA					
25 Low	Dr Allan	DEM Natural Resources International	, Box 11367, Klein Windhoek, Windhoek,	264 61 224 550	264 61 222 974
36 Iiyambo	Ms Helen	DEN FSR-E	, Private Bag 5556, Oshakan,	264 6751 30284	264 30447
35 Mwanyangapo	Mr Oswald	DEN FSR-E	, Private Bag 5556, Oshkan,	264 6751 30284	264 6751 30427
245 Nieuwoudt	Ms Yanka	DEN Ministry of Agriculture	, PO Box 464, Mariental, 9000	09264463 240389	
34 Talavera	Dr Philippe	DEN Northern Namibian Rural Development	, PO Box 498, Oshakan,	264 6751 30573	264 6751 30578
218 Jessen	Mr Paul	DLM Ministry of Agriculture	, PO Box 937, Otjiwarongo,	0926467 303801	0926467 302823
140 Negumbo	Mr S.T	DLM Direct. of Extension & Engineering	, Private Bag 5556, Oshakati,	6751 302 84	6751 30667
248 Kauta	Mr Gareth	DLN Ministry of Agriculture	, PO Box 920, NAMibia,	067 302132	067 302823
219 Steyn	Mr Arrie	DLN Ministry of Agriculture	, PO Box 1408, Otjiwarongo, 9080	0926467 304835	0926467 302823
247 Visser	Mr Wessel	DLN Ministry of Agriculture	, P/Bag 13184, Windhoek,	061 2022139	061 233459
TOTAL: 10					
NETHERLANDS					
57 Van Toor	Ms Maria	AEM STOAS	, Po Box 18, Wageningen, 6700AB	31 317472665	31 317424770
112 Conteh	Mr Ibrahim	DEM Institut D'economie Rurale (IER)	, Kerkwervesingel 147, 3086 HL Rotterdam,	0931 10 4800503	0931 43325 7324
117 Defoer	Dr Toon	DEM KIT	, Po Box 5001, 1092 AD Amsterdam, Netherlands,	31 20 568221	
56 Beijer	Dr Wim	DEN STOAS	, Po Box 18, Wageningen, 6700AB	31 317472665	31 317424770
77 Bottema	Dr Taco	DEN Royal Tropical Institute (KIT)	, P O Box 95001, Iogoha Amsterdam, Iogoha	3120 5688235	3120 5688498
70 Daane	Dr Jon	DEN ICRA	, P O Box 88, Wageningen, 6700 AA	31 317 422938	31 317 427046
48 Hebinck	Dr Paul	DEN Wageningen Agric University	, PO Box 8130, Wageningen, 6700 EW	31 483638	31 317482842
162 Van Wijk	Ms Siebe	DEN Agric Economics Research Institute	, PO Box 29703, The Hague, 2502LS	31 70 3308219	31 70 3615624
250 Roling	Prof Niels	DLM Wageningen University	, Hollandsweg 1, 6706kn, Wageningen, 6706	31 317482599	31 317484791
167 Leeuwis	Dr Cees	DLN Wageningen Agriculture University	, Dept. of CIS Hollandseweg 1, Wageningen, 6706KN	31317 484373	31317 484791
257 Loevinsohn	Dr Michael	DLN ISNAR	, PO Box 93375, The Hague, 2509 AJ	3170 3496183	3170 381 9677
9 Mazzucato	Ms Valentina	SEM Wageningen Agric. University	, Dep of Environmental Sciences, Nieuwe Kanaal 11 Wageningen, 6709 PA	31 317 484190	31 317 484759
270 Wright	Miss Julia	SLM Wageningen Agricultural University	Hollandseweg 1, Wageningen, Netherlands, G706 KN	0931 317483910	0931 317484791
TOTAL: 13					

Delegate Surname	First Name	Type	Company Name	Address	Work Telephone	Fax Telephone
PHILIPPINES						
165 Frio	Ms Anita	DLM	ISG	, 1972 Pleasant Village, UP College, Los Banos, LAguna, 4031	6349 536 3413	6349 536 3413
192 Cardenes	Ms Virginia	SD	University of the Phillipines	, Laguna 4031, Phillipines,	6349 5363256	6349 5362291
TOTAL: 2						
SOUTH AFRICA						
108 Sylwander	Ms Lotta	GD	Embassy of Sweden	, PO Box 1664, Pretoria, 001		012 326 6677
TOTAL: 1						
SENEGAL						
129 Seck	Dr Dogo	DEM	ISRA-CNRA	, B.P 53, Bambey,	221 973 6050/51	221 973 6052
221 Sene	Miss Astou	DLN	Pedune Senegal	Inst.Senegalais Recherches Agricole, P.B. 53, Bambey,	092219736050/51	092219736052
198 Diame	Dr Fadel	SD	FRAO/WARF	, CP 13 Dakar Fann, Sicap Amitie III Villa 4318, Dakar,	221 25 4953	221 24 5755
TOTAL: 3						
SRI LANKA						
242 Liyanage	Dr M	DLN	Coconut Research Institute	, Bandirippuwa Estate, Lunuwila, 61150	0994 31 58890	0994 31 57391
256 Premakumara	Mr KVS	DLN	Dept of Export Agriculture	, Reseach Satation, Kundasali,	9484 20903	9483 88362
259 Ananda	Mr Jayanath	SD	HARTI	, 114 Wijerama Mawatha, olombo 7,	0994 01 696981	0994 01 692423
200 Ranaweera	Dr Nimal	SD	Social Economics Planning centre	, PO Box 7, Paradeniya, Sri Lanka,		
TOTAL: 4						
SWAZILAND						
249 Jiggins	Prof Janice	DLM	University Sweden	, PO Box 7005, Uppsala, SE75007	46 18671572	46 18673420
TOTAL: 1						
SWEDEN						
119 Gibbon	Dr David	DEM	Sedish University of Agric Science	, Po Box 7005, Uppsala, SE 750-07	46 18 672108	46 18 673420
241 Moller	Mr O	DEM	Farmesa			

Delegate Surname	First Name	Type	Company Name	Address	Work Telephone	Fax Telephone
89 Kinlund	Dr Peter	DEN	Sweden University	, Stockholm University, Stockholm, S-10691	46 8 164698	46 8 164969
1 Gohl	Dr Bo	SD	Sida/Sarec	, 105 25 Stockholm, Sweden,	46 8698 5355	46 86985656
120 Hofny-Collins	Mrs Anna	SEM	Swedish University of Agric Science	, Dep of Rural Development studies, Po Box 7005, Uppsala, 750 07	46 18 672 858	46 18 673 420
8 Ohlsson	Ms Eva	SEM	Swedish University of Agric.	, PO Box 7073, Uppsala, 575007	46 18 672240	46 18 672909
243 Kanglawe	Mr Richard	SLM	Stockholm University	, Department of Physical Geography, Stockholm, S-10691	46 8 164808	46 8 164818
171 Ljung	Mr Magnus	SLM	Swedish University of Agriculture	, PO Box 7012, S-75007, Uppsala,	46 18671747	46 18673502
TOTAL: 8						
TAIWAN						
14 Mak	Dr Solieng	DEN	Cambodia IRRI Autralia Project	, PO Box 01 Phnom Penh, Cambodia,	855 23 216229	855 23720704
TOTAL: 1						
TANZANIA						
98 Heemskerk	Mr Willem	DEM	Lake Zone Agric Research Institute	, Po Box 2807, Mwanze,	255 68 500761	255 68 500852
69 Kirway	Mr Timothy	DEM	Ministry of Agric. & Co-operatives	, P O Box 2066, Dar Es Salaam,	255 51865320	255 51865312
95 Mafuru	Mr January	DEM	Ministry of Agriculture	, ARI- Ukiriguru, Box 1433, Mwanza,		
96 Baijukya	Mr Frederick	DEN	Orient Research Programme	, ,	255 66 20856	255 66 20856
99 Kapingu	Peter	DEN	Lake Zone Agric Research Institute	, PO Box 1433, Mwanza,		
235 Sudi	Dr Ghamunga	DEN	Evangelical Lutheran Church	, PO Box 3033, Arusha, 255 057	255 57 8855	
142 De steenhuijsen Piters	Dr Bart	DLN	Royal Tropical Institute/COR	, PO BOX 6024, Arusha,	255 812 500490	255 57 8557
237 Kajimbwa	Mr Monsiapiile	DLN	RIP'S	, PO Box 113, Mtwara,	255 59 333669	255 59 333268
143 Mushi	Dr Clemence	DLN	Ministry of Agriculture	, PO Box 6024, Arusha,	255 57 3883	255 57 8557
TOTAL: 9						
THAILAND						
156 Hoare	Mrs Pimjai	ALM		c/o Mr P Hoare, PO Box 31, NAN, Thailand, 55000	66 54 772602	66 54 772602
15 Chan	Ms Phalocun	DEN	Cambodia -IRRI-Autralia Project	, PO Box 01 Phnom Penh, Cambodia,	855 23 216229	855 23 720704
16 Cox	Dr Peter	DEN	Cambodia IRRI Autralia Project	, POBox 01, Phnom Penh, Cambodia,	855 23 216229	855 23 720704
155 Hoare	Mr Peter	DLN	RAMBOLL	, PO Box 31, NAN, Thailand, 55000	66 54 772602	66 54 772602
TOTAL: 4						

Delegate Surname	First Name	Type	Company Name	Address	Work Telephone	Fax Telephone
TURKEY						
121	Chafik	Mr	Kradi	DEM DCR, INRA	, Avenue de la Victoire, BP 415, Rabat,	212 777 2817 212 770 0312
TOTAL: 1						
UGANDA						
180	Sseswanyana	Dr	Edward	DLN NARO	, SAARI PO Soroti, Uganda,	356 45 611921 356 45 61444
205	Lubwanama	Ms	Florence	SD National Agric Research Organisatio	, PO Box 9034, Kampala,	256 041 566161 256 041 566 161
TOTAL: 2						
UNITED KINGDOM						
76	Barr	Mr	Julian	DEM University of Newcastle	, CLUWRR, Porter Building,, Newcastle University, NE1 7RU	0044 1912226913 0044 1912226563
3	Ellis-Jones	Mr	Jim	DEM Silsoe Research Institute	, Wrest Park, Silsoe, Beds, MK45 4HS	09441525860000 09441525862140
23	Sinclair	Dr	Fergus	DEM University of Wales	School Agriculture/Forest Science, University of Wales - Bangor, College Road, Bangor, Gwynedd, LL57 2UW	01248 382832
26	Davies	Dr	Gareth	DEN Instituto Nacional investigacao	, 40 Burleigh Park, Cobham, Surrey, KT11 2DU	44 1932 865437 44 1932 865 437
113	Dixon	Mr	Peter	DEN University of Durhan, U.K	, Dept of Anthropolgy, University of, Durham., DH1 1QS	44 91 374 2856 44 91 374 28790
179	Garforth	Prof	Chris	DEN The university of Reading	, AERDD, Earley Gate, PO Box 238, Reading, RG6 6AL	44 118 931 8119 44 118 926 1244
17	Harris	Dr	Dave	DEN University of Wales	, Centre for Arid Zone Studies, University of Wales, LL57 2UW	01248 382 922 01248 371 533
39	Hilhorst	Ms	Thea	DEN IIED	, 4 Hanover Street, Edinburgh, EH2 2EN	44 131 624 7040 44 131 624 7050
94	Jackson	Mr	David	DEN Natural Resource Institute	, Natural Resource Institute, Chatham Maritime Kent, ME4 4TB	44 1634 883113 44 1634 883551
136	Kiff	Ms	Elizabeth	DEN Natural Resource Institute	, NRI, Chatham Maritime, Central Avenue, Chatham, Kent, ME4 4TB	09441634 880088 09441634 883959
137	Kiff	Ms	Elizabeth	DEN Natural Resource Institute	, NRI, Chatham Maritime, Central Avenue, Chatham, Kent, ME4 4TB	09441634 880088 09441634 883959
67	Overfield	Dr	Duncan	DEN NATural Resources Institute	, 11B Lochaber Road, London, SE13 5QU	44 1634883832 44 1634883706
87	Riches	Dr	Charlie	DEN Natural Resource Istitute	, Tropical Weeds Unit, Long Ashton Research Station, BS41 9AF	1275 392181 1275 394007
163	Rehman	Dr	Tahir	DLM The University of Reading	, Department of Agriculture, PO Box 236, Reading, RG6 6AT	0944118 9318480 0944118 9316747
189	Disney	Mr	John	DLN NRI	, Central Avenue, Chatham Maritime, Kent, MT4 4TB	44 1634 883026 44 1634 883955
45	Harris	Prof	Phil	DLN Coventry University	, School of Environmental Sciences, Priority Street, Coventry, W1 5FB	44 1203 838349 44 1203 838702
166	Hunt	Dr	Diana	DLN Sussex University	, Sussex University, Palmer, Brighton, BN19SJ	0944 1273606755 0944 1273623572
254	Martin	Mr	Adrian	DLN De Montfort University	, 37 Cansdourne Road, Bedford, MK40 2B2	01234 351 966 01234 350 833
174	Swetman	Mr	Tony	DLN NRI	, Chatham Maritime, Catham, Kent, ME4 4TB	091634 883520 091634 880066
161	Wade	Ms	Joanna	DLN Government of St Helena	, Agric and Natural Resources Dept., Island of St Helena, Scotland,	290 4724 290 4603
6	Collinson	Dr	Mike	SD	Broughton Fairfiels road, Gorins-on-Thames Oxon, RG8 OEX	44 1491 872 356 44 1491 872 107
4	Farrington	Prof	John	SD Overseas Development Institute	, Portland, Stag Place London, SW1E 5DP	44 171 3931666 44 171 3931699

Delegate Surname	First Name	Type	Company Name	Address	Work Telephone	Fax Telephone
231 Pretty	Dr Jules	SD	University of Essex			
TOTAL: 23						
UNITED STATES OF AMERICA						
21 Hodge	Mr Robert Jr	AEM		, 203 ABNR Bldg, 65211 7072	573 884 6729	573 882 1977
29 Miller	Ms Susan	AEM Overseas Development Institute		, 1815 Orlando Road, San Marino CA, 91108	626 793 4656	626 795 1663
28 Gilbert	Elon	DEM Overseas Development Institute		, 1815 Orlando Road, San Marino CA, 91108	626 793 4656	626 795 1663
20 Hodge	Prof Sandy	DEM Uni of Missouri-Columbia		, 203 ABNR Bldg, 652117072	573 884 6729	573 882 1977
24 Norman	Prof David	DEM Kansas State University		, Agric Economics Dept, Waters Hall Kansas State, 66506	785 532 4484	785 532 6925
175 Caldwell	Dr John	DLM Virginia Tech		306-E Saunders Hall, Blackburg, VA, 24061-0327	0915402316323	091 540 2313083
261 Abdul-Baki	Dr	DLN		c/o Embassy of South Africa, 4301 Conneticut Ave, Suite 220, Washington DC, 200082304	202 2747991	202 3638620
209 Erbaugh	Dr Mark	DLN The Ohio State University		, 113 Ag Admin Bldg/2120 Fyfle Road, Columbus Ohio, 4321D	614 292 7252	614 292 1757
244 Hart	Dr Robert	DLN SANREM CRSP		, 1422 Experiment Station, Watkinsville, 30677	706 7693792	706 769 1471
266 Price	Mr Edwin	DLN The Texas A&M University System		, Room 12,Administrative Building, College Station, TX77843247	409 8624551	409 8455663
176 Russell	Dr John	DLN		1525 NW Juniper Street #8, Bend, USA, 97701	1 541 318 0066	1 541 318 0077
195 Anderson	Mr Jock	SD World Bank		, OED Room G7 027 World BAnk HQ, 1818 H St, Washington DC, 20433		1 202 614 0084
44 Conway	Prof Gordon	SD Rockefeller Foundation		, 420 Fifth Ave, New York, 10018 2702	0912128528400	0912128528277
188 Nkonya	Mr Ephraim	SLM Kansas State University		, Department of Agric Economics, 342 Waters Hall, Kansas, 66506	785 532 6709	785 532 6925
TOTAL: 14						
VIETNAM						
122 Le Duc	Mr Think	DEM INSA		, 254C To32, Phuong Lien-Dong, Da-Ha Noi, Vietnam,	84 4 8521963	84 4 8524980
TOTAL: 1						
ZAMBIA						
32 Mitti	Mr Godfrey	DEM CARE International in Zambia		, PO Box 36238, Lusaka,	260 01265901	260 01265060
TOTAL: 1						
ZIMBABWE						
22 Chuma	Mr Edward	DEM University of Zimbabwe		, UZ IGS PO BOX MP 167, Mount Pleasant,	263 4 303211	263 4 333 407
135 Kamanga	Mr Bernard	DEM CIMMYT		, PO Box MP 163, Mount Pleasant, Harare,	263 4 301807	263 4 301327

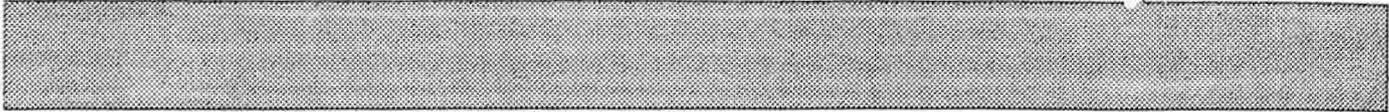
Delegate Surname	First Name	Type Company Name	Address	Work Telephone	Fax Telephone
134 Shamudzarira	Dr Zondai	DEM CIMMYT	, PO Box MP 163, Mount Pleasant, Harare,	263 4 301 807	263 4 301327
133 Vaughan	Mr Christopher	DEM CIMMYT	, PO Box MP 163, Mount Pleasant, Harare,	263 4 301807	263 4 301327
164 Agobia	Mr Charles	DEN Institute for Sustainable Dev.	, 18 Old Cotton Road, Mount Pleasant, Harare,	263 4 301156	263 4 301156/62
27 Kitch	Dr Laurie	DEN FAO	, PO Box 3730 Harare, Old Mutual Centre 6th floor,	263 4 791 420	263 4 703 497
196 Chigumira	Mr D	SD University of Zimbabwe	, Dep. of crop science, PO Box Mp167, Mount Pleasant.,		
197 Chikura	Dr Samuel	SD FSRU	, PO Box Cy 594, Causeway Harare,	263 4 704531	263 4 728317

TOTAL: 8

SUMMARY OF REGISTRATION TO DATE BY TYPE :

	0
AEM Accompanying person early - member	13
ALM Accompanying person late - member	1
DEM Delegate early reg. member	45
DEN Delegate early reg. non-member	77
DLM Delegate late reg. - member	25
DLN Delegate late reg. - non member	64
GD Gala Dinner Delegate	1
SD Sponsored Delegate	29
SEM Student - early reg. - member	6
SLM Student late reg. - member	8
CANCELLED	9
	=====
Total	278
	=====

Appendix 3: Conference Programme



15th International Symposium

**29 November - 4 December 1998
Pretoria, South Africa**

**RURAL LIVELIHOODS, EMPOWERMENT
AND THE ENVIRONMENT: GOING BEYOND
THE FARM BOUNDARY**



Association for Farming Systems Research-Extension



Executive Committee:

Dr P. Anandajayasekeram (*Chair*)
Dr I. Mariga
Dr T. Bezuneh
Mr T. Stilwell (*Secretary*)

Organising Committee:

Dr I. Mariga (*Chair*)
Dr P. Anandajayasekeram
Dr Taye Bezuneh
Mr Ted Stilwell (*Chair, Finance Subcommittee*)
Prof. Johan Kirsten (*Chair, Programme Subcommittee*)
Mr Richard Fowler (*Chair, Tours Subcommittee*)
Mr Raymond Auerbach
Dr Frans Swanepoel
Prof. Robin Crewe (*Chair, Local Logistics Subcommittee*)
Dr Nombasa Tsengwa
Dr Dumisani Dlamini
Mrs Sandra Collier (*ex officio Event Dynamics*)

A MESSAGE FROM PRESIDENT NELSON MANDELA



Distinguished Delegates, Ladies and Gentlemen,

We have great pleasure in welcoming you all to this great nation of ours. We thank the Association of Farming Systems Research and Extension for choosing our country for this important event. The theme and the venue are timely and appropriate in the context of the changing global environment and on-going transformation process within South Africa.

Given the current national, regional and global changes, one could not have chosen a better theme than "Rural Livelihoods, Empowerment and the Environment: Going Beyond the Farm Boundary".

The importance of agriculture in Southern African economies cannot be under-estimated, as agriculture is the predominant sector and engine of growth in most economies. Even in a diversified economy like ours, agriculture and related industries contribute more than 10% of the GDP. It is estimated that approximately 30% of our total population is dependent, directly or indirectly, on agriculture for its livelihood. Agriculture creates one in every four jobs opportunities in South Africa, involving 6 million people or 16% of the population. Agriculture is therefore an important sector in our growth, employment and redistribution strategy. Sustained agricultural growth is vital for the social economic growth and development in rural areas.

South Africa has no over abundance of natural resources. Water is a scarce commodity; high potential agricultural land is scarce and production risks in general are high. Food insecurity is intensified by adverse weather conditions and droughts, which impact negatively on farm production throughout the region. In the Southern African region, a large population is concentrated in rural areas and faces food insecurity and poverty.

Urbanisation is expected to increase dramatically in the years to come. The South African population is expected to increase from 38,9 to 57,5 million in 2010. Urban populations are expected to increase from 22,2 to 42,2 million (or 73% of the total population) by 2010. By this time, a further 21 million people will have entered the food consumption market, which would undoubtedly have profound effects on the market potential and consumer demand for agricultural products. With limited agricultural resources; this challenge includes feeding the rapidly growing population at affordable prices, within an increasingly competitive global trade regime. This should be accomplished without causing irreversible damage to the environment, while maintaining the quality of our natural resources.

With South Africa in the process of transformation, the agricultural research and development initiatives are trying to address the needs of the large scale commercial farmers, the emerging small scale commercial farmers and farmers in the resource poor areas. In South Africa, commercial and developing areas occupy a surface area of 85,2 million ha and 17,1 million ha respectively. The socio and economic inequalities of the past must be addressed, while maintaining the required economic growth rate. Our Land Reform programme is helping the resource poor to buy farms by accessing government grants, and appropriate measures are being established to ensure their success.

In South Africa it is estimated that some 450 000 to 750 000 small production and consumption units could be subsumed under the category of "Small Scale Agricultural Sector". It is estimated that there are approximately 1 million small-scale sub-commercial farmers, compared with some 50 000 large-scale commercial farms. There is therefore a clear and urgent need for on-site scientific, technological and socio-economic research and field work in areas relevant to small-scale farming in order to improve their circumstances, strategies and outputs. Enhancement of the rural livelihoods depends on this technology-led change. Rural empowerment is expected to largely enhance this process of transformation.

In South Africa, we have recognised that this could only be achieved through the farming systems approach (FSA). Most of the FSA principles are embodied in the white paper on Agriculture. These include:

- Researchers, extension workers and farmers should be a part of the dynamic, holistic system
- Research programmes and technology development will be planned in collaboration with other support services and farmers – especially the social, economic and environmental conditions in which farming takes place
- The local knowledge of farmers will be recognised and validated and it will be ensured that the existing knowledge of farmers is complemented by research
- New farming systems and appropriate technology must be developed to meet the needs of the small-scale farmers.

All our institutions, private and public, are making every effort to integrate the farming systems approach into our Research and Development efforts. South Africa is one of the youngest members of the FSA community. South Africa will be well represented in this Symposium and as such I am sure that we will benefit a great deal from your deliberations.

While you are deliberating on the most challenging issues confronting the farming communities around the globe, I also would like to remind you of the exciting places one can visit in South Africa, and our traditional hospitality. Please make sure that you take time to visit these places and interact socially with the great people of this nation. I also wish you all productive and fruitful deliberations at your 15th Symposium.

NELSON MANDELA

7

MESSAGE FROM DR P. ANANDAJAYASEKERAM, PRESIDENT OF THE ASSOCIATION FOR FARMING SYSTEMS RESEARCH-EXTENSION (AFSR-E)



Dear Colleagues,

It gives me a great pleasure to welcome you all to this 15th International Symposium of the Association on "Rural Livelihood, Empowerment, and Environment: Going Beyond the Farm Boundary."

At last the Symposium has become a reality. Given the state of the art and the emerging challenges, we could not have found a better place than this Rainbow Nation to meet. Over the years, FSR has undergone various evolutionary and progressive changes leading to the development of a series of participatory methods and techniques. These developments clearly demonstrate that farmer focus, systems perspective and technology generation has remained at the forefront while other themes such as ITK analysis, gender analysis, sustainability consideration, community planning, agro-eco system analysis, policy analysis and input assessment etc., continue to receive emphasis. The breadth of activities included under the banner of FSR underlies both the growing consensus among consumers about its desirability as well as the considerable diversity of opinion about how it should be organised and undertaken.

Although the Farming systems approach (FSA) to Technology Development and Transfer (TDT) has been practised in various parts of the world, the integration of this approach into the national research, extension and training institutions varies from country to country and from region to region. Although the FSA procedures have been incorporated into the National Agricultural Research and Extension Services (NARES), it is worth noting that they are still undergoing changes and modifications to suit local needs and institutional environments of the individual countries. The institutionalisation of the FSA process within the research and extension services are in an advanced stage in East, Central, and Southern Africa. The system-wide centralised model towards which these countries are moving is demanding more services and inputs from the FSA practitioners. The academic institutions have come a long way in integrating FSA concepts, principles and procedures into the academic curricula at degree, diploma and certificate level institutions. In addition, system based post graduate research work is being conducted in certain institutions. Now they are moving towards incorporating these elements into the Farmer Training institutions. In all these processes the FSA practitioners are trying to embrace the emerging tools and techniques within the broader participatory methods. Increasing proportions of national resources are also being allocated to FSR related activities.

As you are aware, many of the publicly funded R&D systems are now facing acute financial constraints, which need to be addressed urgently. Suggested strategies to address this chronic problem include reducing the scope of state financing in areas where private sector service providers may be willing to contribute; and improving the cost effectiveness of services that remain within the public sector. There is consensus that one way to improve cost effectiveness and relevancy is to make R&E more user-oriented and responsive to demand. This also emphasises the need for client-driven; system oriented participatory research and extension methods. The environment within which agricultural and natural resources (ANR) research and extension activities are being conducted and where 'farming' is practised is continuously changing. As a reflection of these changing economic and other environmental conditions, the FSR methods and procedures are also being challenged to address these changing needs. The major challenges confronting the FSR practitioners emerge from two major sources: the changing research, extension, and the ever-expanding expectations from FSR-E process. While addressing these challenges it is important to bear in mind that FSR is simply a refinement of the traditional top down approach to R&E and that it cannot solve the entire range of problems confronting development practitioners in the ANR sectors. The bottom line is FSR will remain in

the forefront in the years to come, but should be able to assist in addressing these emerging challenges effectively. This Symposium will give us a unique opportunity for the FSR practitioners from the various parts of the globe to share their experiences, coming up with concerted efforts and a common strategy to address these emerging challenges. Let us prepare ourselves for the new millennium with renewed commitment and determination.

This Symposium would not have been a reality without the dedication and commitment of several people. The officials of the Government of South Africa, the donors, well wishers, sponsors, the organisers, and last but not least the members of AFSR-E. I would like to take this opportunity to thank you all for your untiring efforts and commitment to the cause. Let us commit to making use of this opportunity to chart the new frontier for FSR and inject new vigour and vitality with AFSRE. Let us make this Symposium yet another milestone in the history and development of FSR-E. Let us make this symposium a great success.

Dr. P. Anandajayasekeram

CONFERENCE PROGRAMME

SUNDAY 29 NOVEMBER

- 14:30-18:00 **Registration** - Conference Centre
18:00-20:00 **Welcome Cocktail Party** – Conference Centre
Deputy Minister of Agriculture, Ms Thoko Didiza, will launch three books, two sponsored by the Africa Institute for Policy Analysis and Economic Integration and one sponsored by the SIDA/FAO Farm level Applied Research Methods in East and Southern Africa.

MONDAY 30 NOVEMBER

- 08:00 **REGISTRATION** – Conference Centre
PLENARY SESSION - Aula Hall
Chairperson : Taye Bezuneh President, African Association of the Farming Systems Approach to Research-Extension and Training (AAFSARET)
- 08:30 **Welcome** P. Anandajayasekeram. President. Association for Farming Systems Research Extension
- 08:45 **Opening Address** Derek Hanekom, Minister of Agriculture and Land Affairs, South Africa
- 09:15 **Keynote Address:** Gordon Conway, President, Rockefeller Foundation, FSR-E in a changing global economic Environment
Discussant Prof. J. van Zyl, Principal and Vice-Chancellor, University of Pretoria, South Africa
- 10:15 **TEA/COFFEE**
- PLENARY SESSION – Aula Hall**
- 10:45 **Keynote Address:** Celia Lopez-Monatana, Ministry of Planning, Columbia, New approaches to fight rural poverty and food security
Discussant Vangi Titi, Provincial Dept of Agriculture, Gauteng, South Africa
- 11:45 **Keynote Address:** Pedro Sanchez and Anne-Marie Izac, ICRAF. Kenya:
Towards a natural resource management paradigm: blurring the line > between research and extension.
- 12:15 **Discussant** Sam Fujisaka, CIAT, Colombia
- 12:45 **LUNCH – Rautenbach Hall**
- PLENARY SESSION – Aula Hall**
- 14:00 John Farrington, ODI, U.K., ~~The changing role of researchers and extensionists and NGO's in development.~~
New funding initiatives: what implications for systems approaches?
- 14:30 **Discussion**
- 14:50 Bernard Hubert, INRA, France Short term vs. long term: a systems approach to sustainable farming
- 15:20 **Discussion**
- 15:40 **TEA/COFFEE**
- 16:00 *Florence Lubwama, NAKU, Uganda.*
Thelma Paris, IRRI, Philippines. *Gender analysis in technology development and transfer.*
Gender analysis in technology development and transfer.
- 16:30 Jock Anderson, World Bank, USA, Cost effectiveness of farming systems research approaches to research and development
- 17:00 **Discussion**

17:30 **CONCURRENT PANEL SESSIONS – Conference Centre**

1. *Small farm commercialisation and competitiveness*

Panel leader: Doyle Baker

Panel members: David Norman, Michael Collinson, Aleki Sisifa, Taye Bezuneh, Julio Berdeque

2. *Farming systems and spatial analysis for rural planning*

Panel leader: Laurent Lhopitallier

Panel members L. Lhopitallier (CIRAD) P. Caron (CIRAD) P. Madikizela (ARC) C. Laurent (INRA)

S. Modiselle (ARC) B. Ngonki (ECDALA) K. Maceba (ECDALA) J. Van Rooyen (UP)

J. Carstens (ARC) P. Bonnal (CIRAD).

3. *The reality of ecological agricultural practice*

Panel leader: Raymond Auerbach

Panel members: E A Goewie, N G Roling

TUESDAY 1 DECEMBER

PLENARY SESSION – Aula Hall

08:30 Doyle Baker, FAO, Italy, Integration of micro (specific) strategies with macro-economic/social/political and ecological factors

09:00 **Discussion**

09:20 **Panel discussion:** The institutional environment and farming systems

Panel leader Jacques Brossier INRA, France

Panel

Julio Berdeque (Latin America),

P. Anandajayasekeram (East & Southern Africa),

Fadel Diame (West Africa), Nimal Runuweera (Asia)

10:30 **TEA/COFFEE**

PLENARY SESSION – Aula Hall

11:00 Jagadish Timsina University of Melbourne, Australia, Working with farmer groups

Mandi Rukuni and P Anandajayasekeram, University of Zimbabwe Empowerment through capacity building

Jules Pretty, University of Essex, UK; Social capital and sustainable livelihoods

Discussion

12:30 **LUNCH – Conference Centre**

14.00 **CONCURRENT SESSIONS – Conference Centre**

CONCURRENT SESSION THEMES

SUSTAINABLE DEVELOPMENT AND FARMING SYSTEMS

- *The changing role of researchers and extensionists in development, and in the dissemination of knowledge and technologies.*
- *Integration of micro (specific) strategies with macro-economic/social/political and ecological factors.*

CONCURRENT SESSION THEMES

SHORT TERM FARMER SURVIVAL VS LONG TERM SUSTAINABILITY

- *Reciprocity and exchange; farmers responses and initiatives within this exchange relationship.*
- *Heterogeneity and multiple realities of rural livelihood strategies and farming practice.*

CONCURRENT SESSION THEMES***EMPOWERMENT THROUGH CAPACITY BUILDING***

- *Training in FSRE and other participatory techniques: tips, tricks, techniques and materials.*
- *Empowerment of personnel and organisations to meet the challenges of changing strategies for agricultural research and extension.*

CONCURRENT SESSION THEMES***THE INSTITUTIONAL ENVIRONMENT AND FARMING SYSTEMS***

- *Demand-driven research and development*
- *Government regulations: incentives or constraints?*
- *Contributions of gender studies to increased efficiency and equity in research and knowledge generation*

CONCURRENT SESSION THEMES***METHODOLOGICAL ISSUES AND CHALLENGES***

- *Building on local rural knowledge*
- *Working with farmer groups – experiences, benefits and problems*
- *Cost effectiveness of farming systems approaches to research and development*
- *The context for the production of knowledge and the channels for its exchange*

14H00 TUESDAY 1 DECEMBER 1998**CONCURRENT SESSION 1 : ECOLOGICALLY SUSTAINABLE DEVELOPMENT AND FARMING SYSTEMS**

1. Blades, H.: From Farming Systems Research to Business Systems Research “The Business systems approach for improving international competitiveness in the agricultural sector in the Caribbean context”.
2. Garforth, C.; Malla, Y.B.; Pandat, B.H. and Neupan, R.P.: Developing agroforestry research strategy using a systems approach : A case study from Nepal.
3. Ndubuisi, A: Economic evaluation of crop-livestock intergration in the northern Guinea Savannah of Nigeria.
4. Nkonya, E.M.; Ndakidemi, P.; Mushin, D.; Norman, D.W.: Adoption and environmental impact of an improved bean variety in Northern Tanzania.
5. Razzaque, A.: Enhancing Residual Benefits of Legumes in Rice-Wheat Cropping Systems, Enhancing Sustainable Farming Systems in Low Rainfall Areas of Bangladesh.

CONCURRENT SESSION 2 : SHORT TERM FARMER SURVIVAL VS. LONG TERM SUSTAINABILITY

1. Duvel, G.H: The perceived unaffordability of sustainable cattle production of communal rangelands in South Africa.
2. Hunt, D.: Farm non-farm growth linkages at local and household level and their implications for regional policy formation.
3. Kileo, R.O.; Heemskerk, W.C.S.: Short term food security and long term environmental sustainability.
4. Mapa, R.B: Alley Cropping as a Farming System to improve land degraded by shifting cultivation.
5. Matsuert, H: Heterogeneity and multiple realities : The Kavango farming systems team’s experiences of understanding and working with difference.
6. Razzaque, M D: Study on performance of an improved sugarcane-based cropping system for higher yield and net return.

CONCURRENT SESSION 3 : EMPOWERMENT THROUGH CAPACITY BUILDING

1. Bosten, Emmy: Mozambican Extension Services on the move : the implementation of a decentralised communication strategy.
2. Hoare, P.: After empowerment what changes are needed in FSR-E strategies for sustainable agricultural development in critical watersheds in North Thailand.
3. Kabir, H.: Gender role and economic efficiency of pond fish farming in Bangladesh.
4. Kiff, E.; Jackson D.: Empowering local communities through development of research and extension capacities; with specific reference to the development of improved strategies for livestock feed production during the dry season in Nepal.
5. Mason, V.: Training farmers groups for participatory research in animal husbandry for small holder farms in Kenya.

CONCURRENT SESSION 4 : METHODOLOGICAL ISSUES AND CHALLENGES

1. Chander, M; Kumar. S.; Harbola, P.C. and Dey, A.: Systems approach to livestock health and production system in mountainous region of India: Some preliminary observations of a research project.
2. Cox, P.: The value of investment in FSR&D: some methodological issues.
3. Kajimbwa, M.: Methodological issues and challenges for establishing village based participatory monitoring and evaluation.
4. Mendoza L.M.C.: Farmers' cognitive views of their environment and their agricultural practises for sustainable farming system.
5. Sall, S.; Norman, D.W.; Featherston, A.M.: Using quasi-arbitrary ordinal weights to quantify farmers' perceptions of rice varieties in Casamance, Senegal.
6. Krishna Paudel: Productivity analysis of farming systems: coconuts in Trinidad and Tobago.

CONCURRENT SESSION 5 : SHORT TERM FARMER SURVIVAL vs. LONG TERM SUSTAINABILITY (French-English translation)

1. Affholder-Figuie, M: Les Representations Sociales De La Degradation : Deux Eleveurs Bresiliens Parlent De Leurs Paturages.
2. Caron, P.; E.; Hubert, B.; Clouet, Y. and Gama da Silva Pedro, C.: Analyse des trajectoires de developpement et modele d'evolution des espaces locaux au Nordeste Bresiliens parlent de leurs paturages.
3. Coulibaly, F.; Koffi, G.; Coulibaly,Z.and Seubreville, G.: Processus de transfert des innovations technologiques en milieu reel en Cote d'Ivoire: evolution des relations entre chercheurs et vulgarisations.
4. Caron, P.and Hubert, B.: Changement technique et dynamiques locales: le cas de l'elevage dans le Nordeste du Bresil.
5. Paillat, H.: Agriculture familiale et formes d'integration a la societe locale. etude de cas a l'Ile de la reunion.
6. Stephen, A: Impact des mesures macro-economiques sur les systemes deproduction bases sur le maïs pluvial au mexique, etude de cas.

15:45

TEA/COFFEE

CONCURRENT SESSION 6 : ECOLOGICALLY SUSTAINABLE DEVELOPMENT AND FARMING SYSTEMS

1. Loevinsohn, M.: Practising Evolution : A framework for participatory FSR&E.
2. Mazzucato, V.: Interactions between markets and resource management in a changing rural African system : soil and water conservation in eastern Burkina Faso.
3. Thanunathan, K.: Sustainable integrated farming system with aquaculture for Betelvine farming community.
4. Ahmed, D.: Poverty alleviation of the hard core poor in Bangladesh.
5. John M. Schiller: Integrated production technologies for improving productivity in the lowland environment of the LAO PDR.

CONCURRENT SESSION 7 : EMPOWERMENT THROUGH CAPACITY BUILDING

1. Labh, P.K.: Farmer participatory research for sustainable agricultural development.
2. Leeuwis C.; Röling, N.; Bruin, G.: Can the farmer field school replace the T&V system of extension in Sub-Saharan Africa?
3. Liyanage M De S: Impact of farming systems research development of coconut smallholdings in Sri Lanka.
4. Mutimba J.: The launching of a responsive and innovative agricultural extension programme at Alemaya University of Agriculture - Ethiopia.
5. Lubwama, F.: Women Farmers, the Invisible Customers for Agricultural Tools: a Case Study from Uganda.

CONCURRENT SESSION 8 : THE INSTITUTIONAL ENVIRONMENT AND FARMING SYSTEMS

1. Amatya, S.M.: Sustainable development and farming systems: An experience from the Nepalese Hills.
2. Chriss, S.: Meeting the needs of African American farmers: An assessment of extension service performance in the South-eastern United States.
3. de Almeida C.A.M.; Garforth, C.J. and Goldey, P.A.: Developing organisations of small-scale landowners as a strategy for forestry development in Portugal.
4. Marsh, R.: Rural household livelihood strategies and interactions with the local institutional environment : research problem, design and policy implications.
5. Perlas, M.: Shifting rice & sugar-based farming systems: a trend towards agricultural transformation in the Phillipines.

CONCURRENT SESSION 9 : METHODOLOGICAL ISSUES AND CHALLENGES

1. Amezah, A; Sriskandarajah, N and Bawden, R.: Participatory learning: agricultural specialists learn with farmers in Ghana.
2. Ananda, P. ; Putting people first: A farmer-centered strategy for sustainable agricultural resource management.
3. Caldwell, J.S.; Dembele, B.; Edwards, C.R.; Toure, G.K.; Erbaugh, M.; Diarra, A.; Taylor, D.B.; Traore, S.H.; Diarra, D.M.; Dunkel, F.; Balakrishnam, R.; Mullen, J.; Fofana, M.: Merging farmer knowledge and priorities with scientific knowledge and research methods for participatory development of IPM technology for control of blister beetles and Striga parasitic weed in Mali, West Africa.
4. Kapingu M.P.: Agricultural research less costly by using the farming systems approach.
5. Razaak G.M.: Practice to policy: A participatory agricultural services and technical assistance program to link farmer and agricultural support system.

CONCURRENT SESSION 10 : THE INSTITUTIONAL ENVIRONMENT AND FARMING SYSTEMS (French-English translation)

1. Sabourin, E.; Noel, A.; Marinozzi, G.; Andrade, H.V.: Coordination entre producteurs et prise de decision collective dans perimetres irrigues au nordeste (Bresil)
2. Bainville, S.: Les interrelations entre changements techniques et changements institutionnels
3. Gerard, F.; Marty, I. and Erwidodo,: Crise, strategie des acteurs et performances du secteur agricole : le cas des plaines javanaises en 1998.
4. Le Duc, T.; Fontenelle, J.: Systemes de cultures, strategies paysannes et environnement institutionnel dans le delta du Fleuve Rouge.
5. Mahamoudou, S.; Meritan, R.: Intensification des systemes production et agrofores aux comores
6. Hocde, H.: Experimentation paysanne et systemes nationaux de recherche agricole : interventions des acteurs de base dans cette greffe difficile. Le cas centroamericain.

17:45

TRAINING TOOLS BAZAAR AND POSTER SESSION

POSTERS

- Allemann, J: Effects of various planting patterns in a maize-cowpea intercrop.
- Arya, R.L.: Sustainable food-fodder system for medium farm holding...
- Bangwe, L.M: Gender roles' in the time allocation in rural Zambia.
- Boateng, John Kwame: Forging farmers participation in research and development for moisture stress.
- Cartaxo Nobre.FR Nobre.FR: Agroforestry research and extension: a strategic farming systems methodology for conservation and development.
- Choudhury, Nasser Saleh: Submission of the article entitled "Rural mini-nursery: Survival effort of the poor for sustenance and environmental conservation"
- Cochet Hubert la formation des cadres
- Dalsgaard, Jens Peter Tang: Designing a Livestock Systems Research Programme in Uganda.
- Dasgupta, Subash: The community participatory farming systems assessment approach.
- Defoor, Toon: Merging farmer participatory action research and quantitative analysis.
- Erasmus, Janine: The endogenous state of Brunei Darussalam: the traditional society versus economic development
- Eric, P.: L'amelioration des agrofores a hevea comme alternative ecologique et economique durable a la cirse en indonesie.
- Fondio, L.: Une nouvelle methode d'approche de la recherche agronomique en milieu paysan en cote d'ivoire.
- Freeman H. Ade: Fertilizer marketing reforms and farmers changing fertility management.
- Gautier, Denis: Using micro-stimulation to model the impact of grazing systems dynamic on the land maintenance at Causse Méjan (France).
- Gomes, M.A.O.: Participatory rapid appraisal as an important tool in the elaboration of municipal planning of rural development.
- Herath, A.: Socio-economic factors influencing soil conservation in cash crop farming systems in the central highland of Sri Lanka.
- Hirevenkanagoudar, L.V.; Bheemappa, A.: Approaches to strengthen increased efficiency and equity of farm woman in research and dissemination of innovations
- Jyothi, K.S.: Empowerment and decision making by women - A study in a typical dry zone in Southern India.
- Kamau, G.: Farmer participation in priority setting for research and extension work in coastal Kenya.
- Kanaoka, M.: The revitalization of regional agriculture through the ecosystem of beef cattle and grassland in the hilly and mountainous areas of the Tohoku District, Japan.
- Mado, T.; Jeon, Y.W.; Halos-Kim, L.: Linking research and extension to mobilize agro-processing industry in Ghana.
- Maina, P.M.: Farmers training : The need for a farmers based curriculum approach.
- Micheni, A.: Farmers contribution in determining the adoption of maize varieties in central and eastern highlands of Kenya.
- Mollel, N.: Impact of transfer of macro-nutrients (NPK) to the highlands mixed farming systems on sustainable dairy animals production : A Northern Tanzania case.
- Mussei, A.N.; Mohamed, J.K.: Farmers participatory rice variety selection in the Southern Highlands of Tanzania.
- Naika, V.R.: Some aspects of ITK use - A case from India.
- Nataraju, M.S.; Nagaraja, G.N. Reaching the unreached through integrated farming system : Experience of India.

- Neely, C.L.; Hart, R.D.; Buenavista, G.; Koohafkan, P.; Sumbalan, A.T.: Real time demand: scaling up local information for provincial level decision making.
- Ochoa, L.; Cifuentes, W.; Restrepo, J.I.: Farmers as rural development agents, FRDA: an experience from the Department of Cauca, Colombia
- Oltle, N.: From expert to facilitator: promoting experimental learning amongst students in agriculture
- Onduru, D.; Kariuki, J.; Diop, J.; Van der Werf, E.: Potentials of organic farming techniques of composting and liquid manure in improving food production among small scale farmers in medium and high potential areas (MPA & HPA) of developing countries.
- Oudraoga, A.A.: Strategies de securite alimentaire et l'intensification de l'agriculture: quelques remarques sur la dynamique de systemes agraires dans la zone nord_ouest au Burkino-Faso
- Ouedanou, E.: Approche participative pour le renforcement des capacites des paysans dans la planification des actions de developpement et la vulgarisation agricole au benin.
- Rahman, A.: Income generation for the vulnerable rural women through semi-scavaging poultry rearing.
- Rajalahti, R.: Optimized rotation and more efficient utilization of natural resources : experience from pilot farms in Northern Europe.
- Randela, R.; Townsend, R.F.: Socio economic impact analysis of livestock disease control program with special reference to ticks and tick-borne diseases in the Venda region.
- Ribeiro, F.: Being a farmer : A tool to understand the System Approach
- Rollin, D.: Le CROS : Mise en place d'un organe de concertation entre les acteurs du developpement dans le sud Ouest malgache.
- Saadullah, M.; Naz, S.; Saad, T.: Rural local knowledge for sustainable livestock production in Bangladesh.
- Sankar, P.: Farmer participatory approach to integrate farming system development in the Hill Region of Bangladesh.
- Sebatladi, S.A.: Working with farming groups - experiences from Botswana.
- Serage, K.L.: Improving wheat production in the Oliphants River Irrigation Scheme
- Simalenga, T.: Mechanization options for Machobane farming system.
- Sipaphone, V.: Integrated technologies for improving productivity in the Rainfed.
- Tolmay, J.P.C.; Serage, K.L.: Bridging the yield gap between small scale and commercial wheat producers in South Africa.
- Fatimata Dia, M.; Sene, A.: Innovations technologiques et pratiques paysannes : contribution a l'analyse du processus de diffusion des technologies dans le bassin arachidier du senegal.
- Tsuchida, S.: Development of large scale rice farming under policy reform in Japan.
- Van den Heever, E.: Soshanguve agricultural project.
- Venter, S.L.; Van den Heever, E., Matlala, R.; Alleman, J.; La Grange, N.; Viljoen, J.: Indigenous plants as pharma foods in communities.
- Waltner-Toews, D.; Murray, T.; Kay, J.; Raez-Luna, E.; Gitau, T.: Agro-ecosystem health: intergrating systems theories, participatory and sustainable practice.
- Wessels, J.; Anandajayasekeram, P.; Littlejohn, G.; Martella, D.; Marasa, C.; Coetsee, C.; Van Rooyen, C.J.: Production systems and impact of the Proteaceae development and transfer programme in the republic of South Africa.
- Wilson, Alec: Using agricultural wastes on small and developing farms for the production of organic fertilisers and composts, a case from Northern KwaZulu-Natal, South Africa.
- Yokoyama, Shigeki: Causes and consequences of Small Farm Mechanization.

WEDNESDAY 2 DECEMBER

- 09:30-17:00 **FIELD EXCURSIONS** – all excursions depart from the Conference Centre, University of Pretoria. Shuttles to the University will operate from the nominated hotels.
- 17:00-21:00 **SOUTH AFRICAN "BRAAI"** – University of Pretoria, Experimental Farm

THURSDAY 3 DECEMBER

- 08:30 **CONCURRENT SESSIONS** – Conference Centre

CONCURRENT SESSION 11 : ECOLOGICALLY SUSTAINABLE DEVELOPMENT AND FARMING SYSTEMS

1. Baijukya, F.P and de Steenhuijsen Piter. B: Back to class: soil nutrient balances and social differentiation in the high rainfall zone of Bukoba District, North-West Tanzania.
2. Brummett, R.E and Chikafumbwa, F.J.K: An incremental, Farmer-Participatory Approach to the development of Aquaculture technology in Malawi.

3. Hossain, A.: Quest for sustainable farming systems in two agroecological zones of Bangladesh.
4. Miranda, E.E.; Dorado, A.J.; Mangabeira, J.A.: Agroecologic and socioeconomic profile of the familiar agriculture practiced in Machadinho D'Oeste, State of Rondônia, Brazilian Amazon, in 1996. D'Oeste, State of Rondonia, Brazilian Amazon, in 1996.
5. Mitiku, H.: Recognising and encouraging farmer innovation and experimentation in dryland farming in Tigray, Ethiopia.

CONCURRENT SESSION 12 : THE INSTITUTIONAL ENVIRONMENT AND FARMING SYSTEMS

1. Hedden-Dunkhorst, B.: Small-scale agriculture, challenges for a transforming extension service : The case of the Northern Province, South Africa
2. Jones, R.: Technology exchange, the missing link in farming systems research and extension.
3. Matanyaire, C.M.: Preparing the research and extension system for their changing role in the 21st century : The Namibia case.
4. Sakurai, T.: Participatory forest management: Comparison of the cases of Japan, Nepal and India.
5. Subedi, A.: Effects of reforms in the provision and financing of extension services on access to sustainable livelihoods in Nepal.

CONCURRENT SESSION 13 : METHODOLOGICAL ISSUES AND CHALLENGES

1. Dorward, P.T.; Galpin, C.N. and Shepherd, D.B.: Participatory farm management (PFM) methods for farming systems research and extension.
2. Everson, T. and Koelle, B.: Doing it together – Initiating Participatory Catchment Management in Ngubhela.
3. Gitau, T.; McDermott, J.J.; Waltner-Toews, D.; Gathuma, J.M.; Kang'ethe, E.K.; Kimani, V.W.; Kilungo, J.K.; Muni, R.K.; Mwangi, J.M and Otieno, G.O.: Agroecosystem health: A framework for ecologically sustainable development.
4. Sangakkara, U. R.: Development of improved organic farming systems: a case study from Sri Lanka.
5. Temesgen, M.: Farmers participatory development and testing of implements and harnesses for animal traction.

CONCURRENT SESSION 14 : SYSTEMS ORIENTATED RESEARCH

1. Lanyasunya, T.P.: Effect of changes in calf rearing on smallholder dairy farms in Bahati Division, Nakuru District, Kenya
2. Mbugua, D.; Njue, E.K.; Mureithi, J.G.: Socio-economic implications of using organic and inorganic fertilizers for napier grass production at farm level.
3. Omiti, J.M.: Micro-level strategies to improve soil fertility in semi-arid agriculture.
4. Onyango, R.: Increasing farmer participation: An experience in maintaining soil productivity for small holder farms in Northern Rift Valley Kenya.
5. Panin, A.: Relative economics of sorghum and maize production systems of smallholder farmers in Botswana.

CONCURRENT SESSION 15 : INTEGRATED APPROACHES

- | | |
|-------|---|
| 08.30 | Mike Collinson, UK: Institutional and professional obstacles to a more effective research process for small holder agriculture |
| 08.50 | M.S. van Wijk, A. de Jager, D.D. Onduru, C. Walaga and J. Vlaming; Assessing potentials of low-external-input farm technologies with the nutrient monitoring approach: A case study in Kenya. |
| 09.10 | H. Rapey, R. Lifran and A. Valadier; Identifying social, economic and technical determinants of |

silvopastoral practices in temperate uplands: results of a survey in the Massif Central region of France

09.30.1.1 Murray McGregor, Fay Rola-Rubzen and Roy Murray-Prior: Micro and macro-level approaches to modelling decision making

10:00 **TEA/COFFEE**

10:30 **CONCURRENT SESSIONS**

CONCURRENT SESSION 16 : ECOLOGICALLY SUSTAINABLE DEVELOPMENT AND FARMING SYSTEMS

1. Chikafumbwa, F.J.K. and Brummett, R.E.: Adoption and impact of rainfed aquaculture in integrated agriculture-aquaculture farming systems in Zomba, Malawi.
2. Davies, G.; Antonio, C. and Muitia, A.: Evaluating the factors that affect the introduction of new technologies : An example of maize varieties on the Lichinga Plateau, Mozambique.
3. Jackson, D.: Adapting to change in soil fertility management in high value horticultural production in Ghana through farming systems approach.
4. Makhanya, E.M.: Requirements for sustainable development in the poverty-stricken subsistence agricultural systems of Kwa-Zulu Natal.
5. Nair, S.V.K.: Sustainable dairy development through dairy cooperatives in the arid zone of Bikaner District (Rajasthan), India.

CONCURRENT SESSION 17 : SHORT TERM FARMER SURVIVAL VS LONG TERM SUSTAINABILITY

1. Conteh, I.K. and Brouwer, J.: Responses by farmers, researchers and extension workers, and the effects of war on technology development and adoption for sustainable soil fertility management in upland rice farms. "A case in Sierra Leone".
2. Henry, G.: Client-led agro-industrial action development : the case of cassava starch in Cauca Valley, Colombia.
3. Hoffman, T.: Crop-livestock interaction at different locations in north-west Nigeria.
4. Mathema, S.B.: Attaining food security through farmers groups : experiences of Nepal.
5. Narasimha, N.: Technical dissemination - working with farmers groups.
6. Wickramasinghe, A.: Land-based livelihoods beyond farm boundaries : analysis of spatial behaviour of farm households.

CONCURRENT SESSION 18 : EMPOWERMENT THROUGH CAPACITY BUILDING

1. Momim, M.M.: Empowerment as a means of uplifting rural livelihood and environment.
2. Ranasinghe, T.T.: The paradigm shift through civil-agronomy: A new outlook of agricultural extension. <
3. Riches, C.R.: Participatory development of tillage/weed management practices for maize farmers in semi-arid Zimbabwe : Who benefits?
4. Woodhouse, P.: Sustainable agriculture and natural resource management at the farm level
5. Cyrille Monagbode: Gender modelling in subsistence farming: its application in technological impact assessment. 26

CONCURRENT SESSION 19 : THE INSTITUTIONAL ENVIRONMENT AND FARMING SYSTEMS

1. Dulcire, M: Agronomy under field conditions is negotiation: the agronomist responsibilities towards a sustainable development.
2. Gibbon, D.; Bagnall-Oakeley, H.; Matsuert, H.; Hatutale, K.; Simbombo, J.; Makundu, P. and Kashile, M.: Transition to FSR/E : Some early learning experiences in Kavango Region, Namibia.
3. Mafuru, J.M.; van de Meerendonk, H.: Farmer orientation and market opportunities: Reconciling farming systems and market analysis (the case of Tanzanian Lake Zone, Tanzania).
4. Muok, B.: Involvement of women groups in forestry extension: experiences from Asal Kitui District, Kenya. ×
5. Ruben, R.: Rural households and livelihood strategies: straddling farm and nonfarm activities. ×

CONCURRENT SESSION 20 : TENURE, SCALE AND CASE STUDIES

- 10.30 Tim Foy : Harmonising community land rights with investor security: recent experiences in restructuring state-owned forests in South Africa ×
- 10.50 Daniel Walker et al : Integrating R&D into decision-making for natural resource management at a regional scale
- 11.20 Steve Franzel, Richard Coe ,Peter Cooper, Frank Place and Sara Scherr; Assessing the adoption potential of agroforestry practices: ICRAF's experiences in sub-Saharan Africa
- 11.40 Sandra S. Hodge and Cornelia Flora; A human ecological approach for integrating agroforestry technology transfer: The influence of social dimensions
- 12.00 Dave Harris ; On-farm seed priming: using participatory methods to revive and refine a forgotten practice, to use as a key technology in developing farming systems in semi-arid India and Zimbabwe.
- 12.20 Solieng Mak; Emerging Opportunities for Change: An Innovation Process in a Cambodian Rice-based Farming System
- 12:30 **LUNCH**
- 14:00 **PANEL DISCUSSION**
Emerging approaches and Methods in Farming Systems Approach to Technology Development and Transfer
Panel leader: R Msangi
Panel members: J B Matata, *Farmer Field Schools: Hakutangwe, Training for Transformation: A* Nalitolela, *Farmer Groups*; G Miti, *Farm Level Multiplication and Distribution*; L Adupa, *Field Level Monitoring and Evaluation*; A Tamu, *Farmer Groups and Rural Micro Financing*.

CONCURRENT SESSION 21 : ECOLOGICALLY SUSTAINABLE DEVELOPMENT AND FARMING SYSTEMS

1. Arunkumar, Y.S; Suryaprakash, S; Venkataram, J.V and Krishnappa, A.M.: Resource aspects of farming systems - study of watershed development programme in South India.
2. Madikizela, P.; Laurent, C.; Van Rooyen, J.: Situating farming in rural household systems : The Khambashe case study.
3. Ohlsson, E.; Shepherd, K.D.; David, S.: The importance of resource endowment for farmers' soil fertility management practices – especially levels of inputs – a study on small-scale mixed farms in western Kenya.
4. Subramanyam, M.V.R.: Production potential of agro-forestry systems for sustainable rainfed alfisols of SAT region of India.
5. Yoganathan, S.: Kraal manure as a fertilizer in small scale crop production in central Eastern Cape, South Africa.

CONCURRENT SESSION 22 : THE INSTITUTIONAL ENVIRONMENT AND FARMING SYSTEMS

1. Burgess, R.P and Isaacs, J.S.: The factors affecting success or failure of a specific development initiative.
2. Dierolf, T.: KIT: A process and tool to obtain, build on, and disseminate local technical knowledge.

3. Garforth, C.J.; Lawrence, A.; Norrish, P.E. and Wallace, I.R. : Adapting extension systems to sustainability goals in Asia.
4. Torquebiau, E.; Hawkins, R.; Sellamna, N.; Daane, J.; Lightfoot, C.; Saumon, E.: Scaling up training in participatory FSR through internet supported learning.
5. Yasunobu, K.: Merits and limitations of group farming project

CONCURRENT SESSION 23 : METHODOLOGICAL ISSUES AND CHALLENGES

1. Affholder-Figuie, M; Bonnal, P.H; Jourdain, D, and Scopel, E.: Small scale farming diversity and bioeconomic environment variability: A modelling approach.
2. Angeli, L; Franco, S and Senni, S.: Designing rural development policies adopting the fuzzy logic.
3. Chikura, S.: Design and evaluation of on-farm livestock trials - an experience from the farming systems research unit.
4. Emadi, M.H.: Technology transfer or issue management; a case study with Iranian Nomads.
5. Stephan, T: Simulation model analyzing land use strategies on the game farm, Namibia.

15:30 **TEA/COFFEE & TRAINING TOOLS BAZAAR AND POSTER SESION**

16.00 PANEL DISCUSSION

Linking Local Learning: A Discussion on Participatory Action Learning.

Panel leader: Clive Lightfoot

Panel Members: Niels Roling, Chris Garforth, Janice Jiggins, Julio Berdegue

CONCURRENT SESSION 24 : ECOLOGICALLY SUSTAINABLE DEVELOPMENT AND FARMING SYSTEMS

1. Christiansson, C. and Kangalawe, R.: Environmental degradation and farmers survival strategies. A case from Irangi Hills in semi-arid central Tanzania.
2. Ljung, M.: Farmer participatory in development of environmental
3. Ogr, A.: IPM for smallholder farming systems in southern Malawi
4. Roy, I.: Trees in intensive rice systems: An agenda for sustainable farming and farmers' income security.
5. Southorn, N.: Importance of soil quality in sustainable farming systems – an Australian perspective.

CONCURRENT SESSION 25 : THE INSTITUTIONAL ENVIRONMENT AND FARMING SYSTEMS

1. Atieno, R.: Agricultural credit, market incentives and the use of improved farm inputs by small scale farmers: The case of Nakuru District, Kenya.
2. Chander, M.; Kumar, S.; Dey, A. and Harbola, P.C.: The paradigms shift and its consequences on rural development policy : Emerging role of Scientists and Extensionists.
3. Collinson, M: Issues of cost effectiveness with farming systems research as a stage in agricultural R&D.
4. Faure, G.; Kleene, P. and Ouerdaogo, S.: Management advise for farms in the Burkino Faso cotton zone. a new approach to extension services.
5. King, C.; Coutts, J.; Jiggins, J.: Unearthing paradox as a focus for facilitating improved rural sustainability.

CONCURRENT SESSION 26 : METHODOLOGICAL ISSUES AND CHALLENGES

1. Doppler, W.A.: Model for agricultural technology evaluation in gender perspective within African societies.
2. Erbaugh, J.M; Donnermeyer, J.; Kyamanywa, S. and Ekwamu, A.: Farmer Identification of production constraints in Uganda : An assessment of farmer participation.
3. Hirevenkanagoudar, L.V.: Indigenous technical knowledge and the rationale among fishermen of coastal Karnataka, India : An exploratory study.
4. Miyatake, K.: Case study of the on-farm experiment project in Japan.
5. Pinheiro, S.: Participation, communication and power relations in FSR-E : a need for shift between paradigms to bring sustainable development.

17:30 **REGIONAL AFSR-E MEETINGS**

19:30 **TRANSPORT DEPARTS NOMINATED HOTELS FOR GALA DINNER**

20:00 **GALA DINNER**

22:30 **TRANSPORT RETURNS TO NOMINATED HOTELS**

FRIDAY 4 DECEMBER

08:30 **CONCURRENT SESSIONS – Conference Centre**

CONCURRENT SESSION 27 : ECOLOGICALLY SUSTAINABLE DEVELOPMENT AND FARMING SYSTEMS

1. Ali, A.M.; Momin, M.A; Zaman, S.S.; Karim, M.M.A. and Haque, M.F.: Sustainable crop production retaining soil fertility and environment through agroforestry systems.
2. Dauro, D.; Tesfaye, S. ; Workayehu, T. and Alemu, K.: Farmers participatory research in Southern Ethiopia: experiences, benefits and problems.
3. Ellis-Jones, J.; Critchley, W.; Dihenga, H.; Miiro, D.; Akoba, B.; Tengberg, A. and Tomlow, S.: Improving land management : Modern methods from traditional techniques.
4. Laurent, C.; van Rooyen, J.; Bonnal, P.; Carstens, J.; Hubert, B.: Systems approach for agriculture and rural development in the South African transition situation.
5. Niangado, O. & Roeleveld, A.C.W.: Client-funded regional research: in search of sustainability and client-orientation in agricultural research
6. Braojos Garcia, R.: El ajuste estructural y las organizaciones.

CONCURRENT SESSION 28 : ECOLOGICALLY SUSTAINABLE DEVELOPMENT AND FARMING SYSTEMS

1. Mather, C.: The paradox of sustainable agriculture in South Africa.
2. Milicevic, X.: Rural employment impacts of farming with agro-industrial contract: The case of tomatoes in Chile.
3. Semgalawe, Z.: Household adoption behavior for improved soil conservation in the north eastern mountains of Tanzania- the case of the North Pare and West Usambara Mountains.
4. Kelly, T.C.: Sustainability concerns in hill country farming systems of the central North Island of New Zealand.
5. Urquhart, P.: Sustainable agriculture and regenerated rural economies in South Africa: perspectives and policies.

CONCURRENT SESSION 29 : THE INSTITUTIONAL ENVIRONMENT AND FARMING SYSTEMS

1. D'Haese, M.; Van Huylenbroeck, G.; D'Haese, L. and Van Rooyen, J.: A logframe analysis of the problems of small scale emerging commercial mango farmers in the Venda region of South Africa.
2. Kekana, D. S.; Van Rooyen, C.J.; Van Den Heever, E.: Strategies for urban household food security in the Republic of South Africa: the Soshanguve case study.
3. Marasas, Carissa: Farming systems and farm level impact of the Russian wheat.aphid.
4. Mwakubo, S. M.: Commercialization of small farm agriculture in Nakuru District, Kenya.
5. Van Averbek, W.: Sustainable agriculture and natural resource management at the farm level : linking sustainability indicators to policy.

CONCURRENT SESSION 30 : METHODOLOGICAL ISSUES AND CHALLENGES

1. Barr, J: Systems Investigation of Livelihood Strategies and Resource Use Patterns on Bangladesh Floodplains.
2. Dixon, J.P.; Barr, J.J.F. and Sillitoe, P.: Methodological issues in incorporating local knowledge into natural resources research and development.
3. Peter M. Njuho: Statistical issues related to on-farm trials.
4. Kombo, Y.: Coral rag soil fertility improvement farmers' indigenous knowledge and practices.
5. Razzaque, M. D.: Enhancing sustainable farming systems in low rainfall areas of Bangladesh.

CONCURRENT SESSION : 31 ECOLOGICALLY SUSTAINABLE DEVELOPMENT AND FARMING SYSTEMS (No simultaneous interpretation)

1. Augusseau, X; Souleymane, Pare.; Sare, J.B. : Caracterisation regionale de l'emprise agricole et de sa dynamique dans une zone de migrations.
2. Le Gal, P.; Perret, S.: Des outils de modélisation et de simulation pour l'aide à la décision collective : application à la gestion des systèmes irrigués.
3. Moro, Olivier: La construction d'un instrument d'aide à la tarification pour les services de mécanisation partagée
4. Pasquis, R.: Globalisation Et Actions Collectives Sur Les Fronts Pionniers Amazoniens: Les Enjeux d'une Approche Ecoregionale.
5. Seck, D.: Participation des paysans dans la recherche de plantes efficaces contre les insectes des denrées stockées au Sénégal.

10:00 **TEA/COFFEE**

10:30 **CONCURRENT SESSIONS**

CONCURRENT SESSION 32 : ECOLOGICALLY SUSTAINABLE DEVELOPMENT AND FARMING SYSTEMS

1. Auerbach, Richard: Participatory catchment management in KwaZulu-Natal.
1. Bhuiya, M.S.U. and Hossain, S.M.A.: Ecologically sustainable rice-rice farming with Sesbania Rostrata.
2. Islam, M.F.: Integrated nutrient management for sustainable production of Cereal based cropping systems in Bangladesh.
3. Rao, S.; Raju, P.: Simple soil management technologies for sustainable crop production in Rainfed Alfisols of Peninsular India : Results of farmers' field trials.

4. Thwaites, R.N.; Claridge, C.L.; Norman, P.; Lawrence, P.A.: A participative, action research model for decision-making sustainable land use planning for tropical savanna woodlands.
5. Ward, D.E.: Animal Health and Production Improvement in Afghanistan – A Sustainable Community-based Delivery System.
6. Riika Rajalahti: Optimised rotation and more efficient utilisation of natural resources: experience from pilot farms in Northern Europe

✓ **CONCURRENT SESSION 33 : THE INSTITUTIONAL ENVIRONMENT AND FARMING SYSTEMS**

1. Dixon, J.: Stakeholder issues in farming systems natural resource management policy linkages.
2. Martin, A.: Legislation for empowerment : Gender and joint forest management in South India.
3. Nataraju, M.S.: Gaps in farming systems research extension approach in India.
4. Roling, N: Treadmill success and failure : the challenge for FSR/E.
5. Srivastava, S.K: Wasteland development in India: a strategic impact assessment.
6. von Maltitz, G.: Use of the theory of constraints principles in FSR.

CONCURRENT SESSION 34 : METHODOLOGICAL ISSUES AND CHALLENGES

1. Bagnall-Oakeley, L.H; Gibbon, D; Matsuert, H; Kashile, M; Simbombo, J; Hatutale, K; Mukundu, P; Van Rooyen, B and Mutwamezi, E.: On-farm research with farmer/researchers in Kavango. How far can we go? Methodological issues and challenges.
2. Guijt, I: Tracking agricultural change together: Participatory monitoring of sustainable...
3. Irungu, J.W.: Combing farmer knowledge and laboratory soil analyses in design and execution of on-farm soil fertility research.
4. Onduru, D.; Gachini, G.N.; Nandwa, S.M.: Experiences in participatory diagnosis of soil nutrient management in Kenya.
5. Weekes, S: "The task force approach" - a farming systems research and development methodology-the cardi experience.

CONCURRENT SESSION 35 : THE INSTITUTIONAL ENVIRONMENT AND FARMING SYSTEMS

1. Chafki, K.: Recherche participative pour le developpement des systemes de production en montagne.
2. Durand, G.: Croissance agricole et pauvrete rurale au Chili. Une evaluation des politiques d'appui a la petite agriculture.
3. Hocde, Henri: Experimentation paysanne et systemes nationaux de recherche agricole: interventions des acteurs de base dans cette greffe difficile. le cas Centroamericain.
4. Ruf, F.: Les politiques cacaoyeres: Incitations ou contraintes? Cote d'Ivoire ou Indonsie.
5. Brossier, J and Deffontaines, J.P: Construction Negociee D'une Recherche Interdisciplinaire Roles De L'analyse Spatiale et De La Modelisation.
6. Souare, D.: Dynamique et strategies paysannes autour des rizicultures de coteaux et de bas-fonds en Guinée forestière.

12:30 LUNCH

14:00 **AFRE GENERAL MEETING**
Proposals for future direction and global networking

16:30 Symposium Closes

Appendix 4: Session Chairpersons

**15TH SYMPOSIUM OF THE ASSOCIATION FOR FARMING SYSTEMS
RESEARCH EXTENSION**

SESSION CHAIRPERSONS AND VENUES

MONDAY 30/11/1998

Plenary Session– Aula Hall

08:00 Dr. Taye Bezuneh

10:45 Dr. Nombasa Tsengwa

14:00 Dr. Nimal Ranawera

16:00 Dr Diane Callier

17:30 Concurrent Panel Sessions

Panel 1: Small farm commercialization and competitiveness

Panel leader: Doyle Baker

Venue: Sanlam Auditorium

Panel 2: Farming systems and spatial analysis for rural planning.

Panel leader: Laurent Lhopitalier

Venue: Lecture Hall 2/150

Panel 3: The reality of ecological agriculture practice

Panel leader: Raymond Auerbach

Venue: Lecture Hall 2/151

TUESDAY 1 December 1998

Plenary Session– Aula Hall

08:30 Dr Njoya Aboubakar

11:00 Dr Hayden Blades

14:00 Concurrent sessions

Session 1: Ecologically sustainable Development and Farming Systems

Chairperson: Dr Clive Lightfoot

Venue: Sanlam Auditorium

Session 2: Short term Farmer Survival vs. Long term sustainability.

Chairperson: Dr Larry Harington

Venue: Lecture Hall 2/150

Session 3: Empowerment through Capacity Building

Chairperson: Dr Irvine Mariga

Venue: Lecture Hall 2/151

Session 4: Methodological issues and challenges

Chairperson: Dr Allan Low

Venue: SRC Chamber

Session 5: Short Term Farmer Survival vs. Long-Term sustainability (French/ English translation)

Chairperson: Dr Rollin Dominique

Venue: Conference 100

16:00 Concurrent Sessions

- Session 6:** Ecologically Sustainable Development and Farming Systems
Chairperson: Dr Johan Van Rooyen
Venue: Sanlam Auditorium
- Session 7:** Empowerment through Capacity Building
Chairperson: Dr Zinab Semgalawe
Venue: Lecture Hall 2/151
- Session 8:** The Institutional Environment and Farming Systems
Chairperson: Dr Elon Gilbert
Venue: Lecture Hall 2/150
- Session 9:** Methodological Issues and Challenges
Chairperson: James B Matata
Venue: SRC Chamber
- Session 10:** The Institutional Environment and Farming Systems (French/English translation)
Chairperson: Dr Patrick Caron
Venue: Conference 100

THURSDAY 3 December 1998

08:30 Concurrent Sessions

- Session 11:** Ecologically sustainable Development and Farming Systems
Chairperson: Dr J Aluma
Venue: Sanlam Auditorium
- Session 12:** The Institutional Environment and Farming Systems
Chairperson: Dr Mick Mwala
Venue: Lecture Hall 2/151
- Session 13:** Systems Orientated Research
Chairperson: Timothy Kirway
Venue: Lecture Hall 2/150
- Session 14:** Methodological issues and challenges
Chairperson: Ms Joyene Isaacs
Venue: SRC Chamber
- Session 15:** Integrated Approaches
Chairperson: IUFRO
Venue: Conference 100

10:30 Concurrent Sessions

- Session 16:** Ecologically sustainable Development and Farming Systems
Chairperson: Dr Marhama Oudraogo
Venue: Sanlam Auditorium
- Session 17:** Short term Farmer Survival vs. Long term sustainability.
Chairperson: Dr David Norman
Venue: Lecture Hall 2/150
- Session 18:** Empowerment through Capacity Building
Chairperson: Dr Janice Jiggins
Venue: - Lecture Hall 2/151

Session 19: The Institutional Environment and Farming Systems
Chairperson: Dr Brent Simpson
Venue: SRC Chamber

Session 20: Tenure, Scale and Case Studies
Chairperson: IUFRO
Venue: Conference 100

14:00 Concurrent Sessions

Session 21: Ecologically Sustainable Development and Farming Systems
Chairperson: Steve Franzel
Venue: Sanlam Auditorium

Session 22: The Institutional Environment and Farming Systems
Chairperson: Ms Thea Hilhorst
Venue: Conference 100

Session 23: Methodological Issues and Challenges
Chairperson: Prof. Niels Rolling
Venue: SRC Chamber

Panel discussion: Emerging approaches and Methods
Panel leader: R Msangi
Venue: Lecuture Hall 2/150

16:00 Concurrent Sessions

Session 24: Ecologically Sustainable Development and Farming Systems
Chairperson: Prof. NM Mollel
Venue: Sanlam Auditorium

Session 25: The Institutional Environment and Farming Systems
Chairperson: Jeff Matimba
Venue: Conference 100

Session 26: Methodological Issues and Challenges
Chairperson: J Dixon
Venue: SRC Chamber

Panel Discussion: Linking local learning
Panel leader: Clive Lightfoot
Venue: Lecture Hall 2/150

FRIDAY 4 December 1998

08:30 Concurrent Sessions

Session 27: Ecologically Sustainable Development and Farming Systems
Chairperson: Ms Lota Sylwander
Venue: Sanlam Auditorium

Session 28: Ecologically Sustainable Development and Farming Systems
Chairperson: Luhen Hou
Venue: Lecture Hall 2/150

Session 29: The Institutional Environment and Farming Systems
Chairperson: Mukelabai Ndiyoi
Venue: Lecture Hall 2/151

Session 30: Methodological Issues and Challenges
Chairperson: Dr AK Kaluhiza
Venue: SRC Chamber

Session 31: Ecologically Sustainable Development and Farming Systems (no interpretation)
Chairperson: Dr Pierre-Yves Le Gal
Venue: Conference 100

10:30 Concurrent Sessions.

Session 32: Ecologically Sustainable Development and Farming Systems
Chairperson: Prof. MC Laker
Venue: Sanlam Auditorium

Session 33: The Institutional Environment and Farming Systems
Chairperson: Johan Carstens
Venue: Lecture Hall 2/151

Session 34: Methodological Issues and Challenges
Chairperson: Ms M Gova
Venue: SRC Lecture Hall

Session 35: The Institutional Environment and Farming Systems
Chairperson: Dr Jean-Phillippe Tonneau
Venue: Conference 100