Integrated Systems Research for Sustainable Intensification in Smallholder Agriculture

Conference Program

KEY CONFERENCE OUTCOMES

• Demonstrate and share experiences and evidence to the effect that Systems Approaches in agriculture research are effective and contribute to livelihoods and natural resource management.
• Share methods, tools and research approaches used in Systems Research.
• Explore opportunities for new partnerships in Systems Research for development.
• Identify opportunities for cross-system learning, and methods to do this effectively.

#CGIAR_Systems

March 3-6, 2015, IITA Headquarters in Ibadan, Nigeria.

http://humidtropics.cgiar.org/international-conference-integrated-systems/

Organized by:

In partnership with:

CGIAR is a global agricultural research partnership for a food-secure future.
Conference Program: Day 1 – March 3

8:00 CONFERENCE REGISTRATION

9:00 OPENING SESSION – Interactive opening session with presentation of the Conference Program, introduction of participants and their expectations

10:00 BREAK

10:30 OFFICIAL OPENING – Chaired by Dr. Nteranya Sanginga, Director General, IITA
Rapporteurs: Bernard Vanlauwe, IITA; Michael Phillips, WorldFish
Welcome Addresses:
Dr. Nteranya Sanginga, Director General, International Institute of Tropical Agriculture (IITA)
Dr. Kwesi Atta-Krah, Director, CGIAR Research Program on Integrated Systems for the Humid Tropics (Humidtropics)
Opening Addresses:
Dr. Yemi Akinbamijo, Executive Director, Forum for Agricultural Research in Africa (FARA)
Dr. Frank Rijsberman, Chief Executive Officer, CGIAR Consortium
Ann Tutwiler, Director General, Bioversity International

12:00 SESSION 2 – CONCEPTUAL UNDERPINNINGS OF SYSTEMS RESEARCH: SETTING THE SCENE
Rapporteurs: Charles Staver, Bioversity International; Lisa Hiwasaki, ICRAF/Humidtropics
Keynote 1: Prof. David W. Norman, Professor Emeritus, Kansas State University
Historical Trajectory of Farming Systems Research: Past, Present and Future.

12:30 LUNCH

14:00 SESSION 2 – CONCEPTUAL UNDERPINNINGS OF SYSTEMS RESEARCH (cont’d)
Keynote 2: Dr. Bernard Hubert, President, Agropolis International
Systems Thinking toward Institutional Innovation and Change.
Keynote 3: Cynthia McDougall, Senior Scientist, Gender & Equity Theme Leader, WorldFish and Aquatic Agricultural Systems
Gender in Integrated Systems Research.
Keynote 4: Dr. Marie de Lattre-Gasquet, Senior Foresight Scientist, CGIAR Consortium

15:30 BREAK AND GROUP PHOTO

16:00 SESSION 3 – DISCUSSION
Rapporteurs: Piet van Asten, IITA; Rein van der Hoek, CIAT/Humidtropics
What fundamental parameters qualify R4D as Systems Research?
What are the critical implementation challenges of Systems Research?

18:00 OPENING COCKTAIL RECEPTION

19:00 DINNER
Conference Program: Day 2 – March 4

8:30 SESSION 4 – INTEGRATED SYSTEMS IMPROVEMENT AND SUSTAINABLE INTENSIFICATION
Rapporteurs: Edmundo Barrios, ICRAF; Gina Kennedy, Bioversity International
Recap of Day 1: Implementation Challenges
Keynote 6: Dr. Dennis Garrity, UN Drylands Ambassador & Senior Fellow, ICRAF
Understanding African Farming Systems as a Basis for Sustainable Intensification.
Keynote 7: Dr. Linley Chiwona Karlton, Swedish University of Agricultural Sciences

10:30 BREAK

11:00 SESSION 5 – THEMATIC PARALLEL SESSIONS – SUSTAINABLE INTENSIFICATION IN PRACTICE
Rapporteurs: Jeroen Groot, WUR; Mark Lundy, CIAT

Theme 1: Market-Based Intensification - Dr. Mark Lundy & Dr. Nelson Mango
Venue: Musa room
11:00 Mango N., CIAT; Clifton Makate C., Lundy M., Siziba, S., Nyikahadzoi K., Gama M., Mwale S., Oluwole F. - An Assessment of Collective Market Participation for Improved Income among Smallholder Farming Households: A case of Balaka Innovation Platform, Malawi.
11:20 Divine Foundjemi-Tita, Jason Donovan, ICRAF; Dietmar Stoian, Bioversity International; Ann Degrande, Christophe Kouame, ICRAF - The institutional environment of the cocoa sector in Ghana and Cote d’Ivoire, A call for greater multi-sector collaboration.
12:00 Justus Ochieng, Beatrice Knerr, Department of Development Economics, Migration and Agricultural Policy, University of Kassel; George Owuor, AERC-CMAAE program; Emily Ouma, ILRI - Effect of Commercialization on Intensification and Productivity in Smallholder Agriculture in Central Africa.
12:20 General Discussion
12:50 LUNCH

Theme 2a: Integration of Crosscutting Issues - Nutrition Sensitive Landscapes - Dr. Gina Kennedy & Dr. Jeroen Groot
Venue: Vigna room
11:00 Fabrice Declerck, Bioversity International; Roseline Remans, The Earth Institute at Columbia University; Gina Kennedy, Bioversity International; Jeroen Groot, Wageningen University; Shakuntala Thilstead, WorldFish; Natalia Estrada-Carmona, Bioversity International - Overview of Nutrition Sensitive Landscapes: approach and methods.
11:40 Shakuntala Thilsted, WorldFish; Natalia Estrada, Bioversity International; Monica Marie Pasqualino, Columbia University; Trinidad del Rio, Jeroen Groot, University
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Wageningen; Gina Kennedy, Fabrice DeClerck, Bioversity International; Roseline Remans, Columbia University - AAS pilot studies in the Barotse floodplain, Western Zambia.

12:00 Edith Agbo, University Nangui Abrogoua, Abidjan Côte d'Ivoire; C. Kouame, J. Kahia, L. Diby, L. Coulbalay, ICRAF; A. Mahyao, Centre National de Recherche Agronomique, Cote d'Ivoire; K. Kehlenbeck, ICRAF - Feeding habits and nutritional status of young children and their mothers in cocoa producing smallholder households of South-West Côte d'Ivoire.

12:20 Discussion
12:30 LUNCH

Theme 3: Integrating Productivity and Natural Resource Management - Dr. Bernard Vanlauwe & Dr. Richard Thomas
Venue: Manihot room
11:00 Richard Thomas, ICARDA - Integrated systems research in the development of drylands.
11:20 Jianchu Xu, ICRAF - Green Rubber: An integrated system approach for agricultural intensification and conservation in the Mekong Region.
11:40 Laura Schmitt Olabisi, Robert B. Richardson, Kurt Waldman, Michigan State University - Modeling the Impact of Sustainable Intensification on Landscapes and Livelihoods using System Dynamics.
12:00 Justin Nambangia Okolle, IRAD; Victor Afari-sefa, AVRDC; Precilia Tata Ijiang, IRAD; Francis Ajebesone Ngome, IRAD; Jean-Claude Bidogzea, AVRDC - Evaluation of farmers’ knowledge on vegetable pests and diseases and their management practices within cocoa-based farming systems in the Humid Tropics of Cameroon.
12:20 To Thi Thu Ha, AVRDC/FAVRI; Pepijn Schreinemachers, Jaw-Fen Wang, AVRDC; Nguyen Thi Tan Loc, Le Thi Thuy, Le Nhu Thinh, FAVRI; Andreas Ebert, AVRDC; Narinder Dhillon, AVRDC; Ramasamy Srinivasan, Peter Hanson, Lawrence Kenyon, Ray-Yu Yang, AVRDC; Victor Afari-Sefa, AVRDC - Sustainable Intensification of Smallholder Agriculture in Northwest Vietnam: Exploring the Potential of Vegetables.
12:40 LUNCH

Theme 4: Conceptual Underpinnings - Sustainable Intensification and Systems Research - Dr. Kwesi Atta-Krah & Dr. Michael Phillips
Venue: Conference hall
11:00 Simon Attwood, Bioversity International; Park, S.E., Mills, D., Phillips, M., WorldFish - Sustainable Intensification—Does SI offer a pathway to improved food security and wellbeing for aquatic agricultural system-dependent communities?
11:20 Jeroen C.J. Groot, Wageningen University (Plant Production Systems Group); Piet van Asten, IITA; Katrien Descheemaeker, Wageningen University (Plant Production Systems Group) - Sustainable Intensification—Does SI offer a pathway to improved food security and wellbeing for aquatic agricultural system-dependent communities?
11:40 Randall Ritzema, ILRI; Romain Frelat, ILRI/CIMMYT; Sabine Douxchamps, Silvia Silvestri, ILRI; Mariana Rufino, CIFOR; Mario Herrero, CSIRO; Ken Giller, Wageningen University; Santiago Lopez-Ridaura, CIMMYT; Mark van Wijk, ILRI - What works where for which farm household: estimated effects of different interventions on food availability across household distributions in East and West Africa.
12:00 John Herbert Ainembabazi, IITA-Uganda; M van Wijk, Wageningen University; L Klapwijk, Wageningen University/IITA; PMN Dountc, IITA-Kalambo; L Jassogne, IITA-Uganda; B Ekesa, Bioversity – Uganda; B Vanlauwe, P van Asten, IITA - Farming system opportunities and limitations in East and Central Africa: Exploring scenarios to improve welfare and sustainable land use.
12:20 Stephanie Alvarez, Wim Paas, Wageningen University (Farming Systems Ecology); Katrien Descheemaeker, Wageningen University (Plant Production Systems); Jeroen
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Groot, Wageningen University (Farming Systems Ecology) - Hypothesis based typologies for capturing diversity.

12:40 LUNCH

14:00 SESSION 5 – (cont’d)

Theme 2a (cont’d): Integration of Crosscutting Issues - Nutrition Sensitive Landscapes - Dr. Gina Kennedy & Dr. Jeroen Groot
Venue: Vigna room

14:00 Celine Termote, Bioversity International; Francis Odhiambo Oduor - What has our landscape to offer to community’s food security and nutrition; a case of Vihiga County, Kenya.

14:20 Nester Mashingaidze, IITA/Wageningen University; Jeroen Groot, Wageningen University; Celine Termote, Bioversity International; Ray-Yu Yang, AVRDC; Jessica Raneri, Roseline Remans, Gina Kennedy, Bioversity International - Multifunctional assessment of nutrition-sensitive landscapes.

14:40 Justice Djokoto, Central University College, Ghana - Technical Efficiency Differences between Men and Women Farmers - A Meta-Analytic Assessment.

15:00 Nancy Johnson, 4NH/IFPRI - Integrating nutrition to systems research: Impact pathways and theories of change. Presented by Roseline Remans, The Earth Institute at Columbia University.

15:20 General Discussion

16:00 End of session

Theme 2b: Integration of Crosscutting Issues - Gender and Equity - Dr. Anne Rietveld and Dr. Holger Kirscht
Venue: Musa room

14:00 Amare Tegbaru, IITA - Resolving the Gender Empowerment Equation in Humidtropics.

14:20 Miranda Morgan, Afrina Choudhury, WorldFish - Gender relations and aquaculture technology adoption in Bangladesh: Merging the social and the technical to enable more secure livelihoods.

14:40 Ademonla Dialal Arinloye, Binam J.N., ICRAF-WCA; Sissoko M.M., Traore P.C.S., ICRISAT; Kalinganire A., ICRAF-WCA; Savadogo P., ICRAF-WCA/ICRISAT - Marketing and management decisions in the dryland systems: does women voice count?

15:00 Anne Rietveld, Bioversity International; Holger Kirscht, IITA; Netsayi Mudege, CIP - Gender Norms and Agricultural Innovation; Insights from Uganda and Nigeria.

15:20 Silvia Sarapura, Ranjitha Puskur, WorldFish/AAS - Gender integration in agricultural innovation systems: some considerations to move forward from South-South experiences.

15:40 General Discussion

16:10 End of session

Theme 3 (cont’d): Integrating Productivity and Natural Resource Management - Dr. Bernard Vanlauwe & Dr. Richard Thomas
Venue: Manihot room

14:00 Carl Timler, Mirja Michalscheck, Wageningen University; Charlotte Klapwijk, Nester Mashingaidze, IITA/Wageningen University; Mary Ollenburger, Wageningen University; Gatien Falconnier, Wageningen University/ICRISAT; Katja Kuivanen, Katrien Descheemaeker, Jeroen Groot, Wageningen University - Exploring options for sustainable intensification in different farming system types of four Africa RISING countries.

14:20 Edmundo Barrios, Richard Coe, ICRAF (Kenya); Leon Nabahungu, Rwanda Agriculture Board (RAB); Athanase Mukuralinda, ICRAF (Rwanda); Catherine
Muthuri, Fergus Sinclair, ICRAF (Kenya) - Co-developing best-best interventions and protocols for their evaluation in the field through Participatory Trials Design Workshops in Rwanda.


15:00 Saeid Soufizadeh, Javad Shirmohammadi, Reza Deihimfard, Jafar Kambouzia, Korous Khoshbakht, National Coffee Research Institute, Shahid Beheshti University, Iran - Yield gap assessment is a prerequisite for moving toward ecological intensification: A case study on forage maize in smallholder farmers in Alborz province of Iran.

15:20 General Discussion
16:00 End of session

Theme 4 (cont’d): Conceptual Underpinnings - Sustainable Intensification and Systems Research - Dr. Michael Phillips

Venue: Conference hall

14:00 Charles Staver, Bioversity International; Pablo Siles, CIAT; Oscar Bustamante, Universidad Nacional Agraria, Managua, Nicaragua; Nelson Castellon, Consultant, Nicaragua; Sam Mpiira, NARO/Bioversity - Improving banana agroecosystem productivity – Lessons for integrated systems intensification.

14:20 Laurence Jassogne, Piet van Asten, IITA; Peter Laderach, CIAT-Nicaragua; Godfrey Kagezi, National Coffee Research Institute of Uganda (NaCORI) - Systems research for climate smart agriculture: an example of coffee in East Africa.

14:40 Paul Woomer, IITA/Humidtropics; Canon Savala, Celister Kaleha, Moses Chemwada, Western Regional Alliance for Technology Evaluation (WeRATE) - A Situation Analysis of Small-scale Farming Systems in West Kenya Action Site of Humidtropics.

15:00 General Discussion
16:00 End of session

16:00 BREAK

16:30 SESSION 6 – POSTER PRESENTATIONS

Rapporteurs: Laurence Jassogne, IITA; Murat Sartas, WUR/IITA

Brief Introduction in Plenary followed by Interactive Exhibition

Theme 1: Conceptual Underpinnings of Systems Research

1. Nguyen Duy Phuong, Tran DucToan, SFRI; TruongQuoc Can, SRD; Nguyen Thi Tan Loc, FAFRI; Nguyen Van Son, CASRAD; Steven J. Staal, ILRI - Situational Analysis in Northern Vietnam. Presented by Lisa Hiwasaki, ICRAF/Humidtropics.

2. Mmaduabuchukwu Mkpado, Department of Agricultural Economics and Extension, Federal University Oye-Ekiti, Nigeria; Mkpado Ndidiamaka S., Department of Psychology University of Nigeria, Nsukka - Towards integrating agriculture and energy systems for smallholders in Nigeria.

3. Perez Muchunguzi, IITA; Tenywa M, Makerere University; Sole A, Van Asten P, IITA; Bakadde R, Agro-Empowerment Centre: Wandera J, NGO Forum Kyankwanzi; Ebanyat P, N2Africa; Olupot G, Makerere University; Lusembo P, Mugisa I, NARO - The role of multistakeholder processes in systems research for development, the Kiboga-Kyankwanzi case in the Lake Victoria Crescent Zone, Uganda.


6. J. Aubin, INRA/AGROCAMPUS OUEST; H. Rey-Valette, Université de Montpellier; Mathé S., A. Wilfarta, CIRAD, UMR Innovation; M. Legendre, J. Slembroutck, IRD, UMR ISEM; E. Chia, CIRAD, UMR Innovation; G. Masson, Université de Lorraine; M. Callier, J.P. Blancheton, IFREMER, UMR ECOSYM; A. Toqueville, ITAVI, Service Aquaculture; D. Caruso, IRD, UMR ISEM and P. Fontaine, Université de Lorraine - Develop a multidisciplinary-based approach to implement ecological intensification: the example of ponds fish-farming system. Presented by Bernard Triomphe, CIRAD UMR Innovation.


Theme 2: Sustainable Intensification

8. Diego Valbuena, CIAT; Jeroen Groot, Paulo Martinho, Wageningen University; Pablo Siles, CIAT - Farm-level assessment of an agroforestry system in family agriculture in northern Nicaragua.

9. Jorita van Valkenhoef, Wageningen Group (Farming Systems Ecology Group/Division of Human Nutrition); Inge Brouwer, Wageningen Group (Division of Human Nutrition); Jeroen Groot, Wageningen University (Farming Systems Ecology Group) - Incorporating household dietary and nutritional needs in quantitative farming systems analysis.

10. Karoline A. B. Hemminger, Wageningen University (Farming Systems Ecology Group); Bettina B. Bock, Wageningen University (Rural Sociology Group); Jeroen Groot, Mirja Michalscheck, Carl Timler, Wageningen University (Farming Systems Ecology Group) - Towards integrated analysis of gender relations in farming systems analysis.

11. Uma Khumairoh, University of Brawijaya/Wageningen University; Trinidad del Rio, Gonzalo Garnacho Alemany, Egbert A. Lantinga, Wageningen University; Didik Suprayogo, Bambang Guritno, University of Brawijaya; Jeroen Groot, Wageningen University - Increasing and stabilizing yields by ecological intensification of rice production systems on a gradient of complexity.

12. F. Abang, AVRDC, Taiwan/Cameroon; R. Srinivasan, AVRDC, Taiwan; S. Kekeunou, Faculty of Science, University of Yaoundé I, Cameroon; M. Yeboah, AVRDC, Cameroon; A. Tenkouano, AVRDC, Mali; R. Hanna, IITA, Cameroon; C. F. Bilong Bilong, Faculty of Science, University of Yaoundé I - Productivity and Resistance to Aphids of Okra (Abelmoschus spp.) Accessions under Humid Tropical Conditions in Cameroon.


14. Bezabih Emana, HEDBEZ; Victor Afari-Sefa, AVRDC; Amsalu Ayana, HEDBEZ; Fekadu F. Dinssa, AVRDC; Tesfaye Balemi, Milkessa Temesgen, HEDBEZ - The Potential for Integrating Vegetables into Staple Production Systems in the Humid Tropics of Ethiopia.

15. Asare Richard, Department of Geoscience and Natural Resource Management, University of Copenhagen, Denmark/IITA; Victor Afari-Sefa, AVRDC, Tanzania; Yaw Osei-Owusu, Conservation Alliance, Ghana; Opoku Pabi, Institute for Environment and Sanitation, Ghana - Cocoa agroforestry for increasing forest connectivity in a fragmented landscape in Ghana.

16. Mollah Mahfuz Ahmed, Department of Agriculture, Government of West Bengal, India; S.K. Bardhanroy, M.S. Kadian, S. Arya, Roberto Quiroz, CIP; S.K. Singh, CPR (Central Potato Research Institute), India - Sustainable Intensification of Potato in Non-Traditional Potato Growing Areas in Rice Based System for Increased Productivity and improved Livelihood of Poor Farmers in Humid Agro-Ecology of West Bengal, India.
17. Anthony Ojonimi Onoja, Institute of Climate and Society, Mekelle University, Ethiopia; Obukonise Emuejevoke Helen, Department of Agricultural Economics and Extension, University of Port Harcourt, Nigeria; Ajie, Eunice N., Department of Agricultural Sciences, Ignatius Ajuru University of Education, Nigeria - Cropping Intensification and Profitability of Cassava-Based Farming Households in Cassava-Based Farms in Rivers State, Nigeria.

18. Amujoyegbe Bamidele, Department of Crop Production and Protection; Adejobi A.O., Bamire A.S, Department of Agricultural Economics, Obafemi Awolowo University, Ile-Ife, Nigeria - Improving the productivity of integrated tree cropping system in southwestern Nigeria.

19. Takoutsing Bertin, ICRAF, Cameroon; Ayenkulu Ermias, ICRAF, Kenya; Tchoundjeu Zacharie, ICRAF, Cameroon; Barrios Edmund, Richard Coe, Shepherd Keith, ICRAF, Kenya - Land health surveillance for identifying land constraints and targeting sustainable agricultural intensification in smallholder’s agriculture in Cameroon.

20. Desta L.T., Chirwa R., Barthlomew Chataika, Ndengu G., Mponela P., Magreta R., CIAT; Chikowo R, MSU/IITA/Africa RISING - Participatory Yield Assessment of climbing and bush bean varieties under different management options in Malawi.


22. Justice Dijkoto, Central University College, Ghana; Victor Afari-Sefa, AVRDC; Albert Addo-Quaye, Central University College, Ghana - Vegetable Supply Chains in Ghana: Production Constraints, Opportunities and Policy Implications for Enhancing Food and Nutritional Security.

23. Boru Douthwaite, Rodrigo Paz, AAS/WorldFish - Measuring Capacity to Innovate using Outcome Evidencing.


25. Tosan Fregene, E. K. Ajani, B. O. Omitoyin, and A. O. Onada, Department of Aquaculture and Fisheries Management, University of Ibadan - Production Indices and Profitability Analysis of Integrated Fish Farming (Fish, Rice, Poultry) Production.

19:00 DINNER
International Conference on Integrated Systems

Conference Program: Day 3 – March 5

8:30  SESSION 7 – PARTNERSHIPS AND INSTITUTIONAL ARRANGEMENTS FOR INNOVATION, SCALING UP AND IMPACT
  Rapporteurs: Anne Rietveld, Bioversity International; Nelson Mango, CIAT
  Recap of Day 2: Sustainable Intensification in Systems Research - What does it really mean?
  Keynote 8: Dr. Fergus Sinclair, Systems Science Leader, ICRAF
  Systems Science at the Scale of Impact: Reconciling Bottom Up Participation with the Production of Widely Applicable Research Outputs.
  Julienne Kuiseu, Capacity Strengthening Programme Assistant, CORAF/WECARD
  A paradigm shift in agricultural research for development: Innovation Platforms as a vehicle for change and impact in Smallholder Agriculture in West and Central Africa.

10:30 BREAK

11:00 SESSION 7 – (cont’d)
  Rapporteurs: Herve Bisseleua, ICRAF; Holger Kirscht, IITA
  Dr. Cees Leeuwis & Seerp Wigboldus - What kinds of 'systems' are we dealing with? Implications for System Research and Scaling?
  Dr. Marc Schut & Murat Sartas - Documenting Platform Dynamics and Outcomes: Theory, Tools and First Results.
  Roundtable Discussion - Dr. Lisa Hiwasaki, Dr. Latifou Idrissou, Dr. Chris Okafor & Dr. Rein Van der Hoek - Institutional Constraints and Opportunities in Implementing Integrated Agricultural Research for Development (IAR4D).
  Table Discussion - Challenges for Partnerships and Institutional Arrangements.

13:00 LUNCH

14:30 SESSION 8 – POSTER PRESENTATIONS
  Rapporteurs: Marc Schut, WUR/IITA; Latifou Idrissou, IITA
  Brief Introduction in Plenary followed by Interactive Exhibition
  Theme 2: Sustainable Intensification (cont’d)
  28. Carlos León Velarde, Roberto Quiroz, CIP - Dual-purpose sweet potato for improving smallholder production systems. Presented by Victor Mares, CIP.
  29. Anthony Kimaro, ICRAF; Patrick Okori, ICRISAT; Elirehema Swai, Agricultural Research Institute, Tanzania; Ahazi Mkoma, Sokoin University of Agriculture/ICRAF; Mathew Mpanda, Abdala Liingilie, Martha Swamila, ICRAF - Tanzania Country Programme - Optimizing Growth and Yield of Maize, Pigeonpea and Fodder Trees in Kongwa and Kiteto Districts, Tanzania.
  30. Aston Oliver Mulwafu, Betserai Isaac Nyoka, Godfrey Kundhlande, Mateete Bekunda, ICRAF - Exploiting niches for livestock intensification in farming systems in Malawi.
  31. Shem Kuyah, JKUAT/ICRAF; Ingrid Öborn, ICRAF/SLU; Anders Malmer, A Sigrun Dahlin, Mattias Jonsson, SLU; Fergus L Sinclair, ICRAF - Trees on farms enhance ecosystem service provision in Sub-Saharan Africa.
32. Ogbe, S.E., Princewill Ogbonna, Michael Okpara, University of Agriculture Umudike, Nigeria; R.O. Mejeha - Sources of income and demand for Micro-financing for Agro-enterprise investment among rural women in Abia State, Nigeria.


34. Silvia Sarapura, WorldFish/AAS - Gender and Investment and Assessment Strategies in Innovation Systems - the Case of Papa Andina, Peru.

35. Gregory Sikumba, ILRI; Walter Mangesho, TALIRI; Ben Lukuyu, ILRI; Festo Ngulu, Mateete Bekunda, IITA - Participatory evaluation of productivity and farmer preferences of selected Napier grass (Pennisetumpurpureum) accessions in northern Tanzania.

36. Mary Mutemi, Maureen Njenga, Anne Kuria, ICRAF; Genevieve Lamond, ICRAF/ School of Environment, Natural Resources and Geography, Bangor University, UK; Ingrid Öborn, ICRAF/SLU; Jonathan Muriuki, Fergus Sinclair, ICRAF - Local knowledge of farmers on challenges and opportunities for sustainably intensifying integrated tree-crop-livestock systems in two villages in Western Kenya.

37. Chiwimbo Gwenambira, Regis Chikowo, Plant, Soil and Microbial Sciences Department, Michigan State University; Bekunda Mateete, Sieglinde Snapp, Africa RISING - Below and aboveground pigeonpea productivity in a novel doubled-up legume cropping system across three agro-ecologies in central Malawi.


Theme 3: Innovation Systems


40. Ronner, E., Descheemaeker, K., Wageningen University (Plant Production Systems); Almekinders, C.J.M., Wageningen University (Knowledge, Technology and Innovation); Ebanyat, P., IITA; Giller, K.E., Wageningen University (Plant Production Systems) - Co-design of improved climbing bean technologies in Uganda.


42. Turmel, M., Staver, C., Bioversity International; Valbuena, D., Siles, P., Guharay, F., CIAT; van den Hoek, R., CIAT/Humidtropics; Mena, M, CIAT - Piloting integrated systems intensification through innovation platforms in Northern Nicaragua.


44. Nils Teufel, Esther Khoro, Collins Adoyo, Carlos Quiros, Jane Poole, Mark van Wijk, Aziz Karimov, ILRI. Farming system patterns: cluster analysis from the Humidtropics baseline survey in Western Kenya. Presented by Randall Ritzema, ILRI.

45. Murat Sartas, IITA/Wageningen University/Swedish University of Agricultural Sciences; Perez Muchunoguzi, Anna Sole, IITA; Dieuwke Lamers, IITA; Sylvia Namazzi, Swedish University of Agricultural Sciences; Moureen Awori, IITA, Marc Schut, IITA/Wageningen University; Cees Leeuwis, Wageningen University; Piet Van Asten, IITA - The stepping stones to success: how we achieved co-investment and reflective learning in multi-stakeholder platforms in Uganda.

46. Aurelie Toillier, CIRAD, UMR Innovation, Burkina Faso; Eduardo Chia, CIRAD, UMR Innovation, France; Souleymane Ouedraogo, INERA; Der Dabire, CIRDES, UR-PAN;
Alassane Ba, IDR; Koutou Mahamoudou, CIRDES, UR-PAN; Alassane Ba, IER; Michel Havard, CIRAD, UMR Innovation, Burkina Faso; Patrice Toe, Eric Vall, CIRAD, UMR Innovation, France - *How innovation platforms can facilitate sustainable intensification? Insights from multi-level systems research in West-Africa.* Presented by Bernard Triomphe, CIRAD, UMR Innovation.

47. Wim Paas, Wageningen University (Farming Systems Ecology); Perez Muchunguzi, Anna Sole, Dieuwke Lamers, Piet van Asten, IITA; Moses Tenywa, Department of Agricultural Production, Makerere University; Jeroen Groot, Wageningen University (Farming Systems Ecology) - *Fuzzy Cognitive Mapping for Innovation Platforms and Research in Development.*

**Theme 4: Scaling for Impact**


49. Kamara Alpha, IITA; Paul Amaza, Department of Agricultural Economics & Extension, University of Jos, Nigeria; Jim Ellis-Jones, Agriculture-4-Development - *Using the participatory research and Extension approach to promote sustainable agriculture in Borno State, Nigeria.*

16:00 BREAK

16:30 SESSION 9 – THEMATIC PARALLEL SESSIONS – PARTNERSHIPS AND INSTITUTIONAL ARRANGEMENTS FOR INNOVATION, SCALING UP AND IMPACT

**Rapporteur: Ann Degrande, ICRAF**

**Theme 1: Performance and Impact of Multi-Stakeholder Innovation Platforms – Dr. Cees Leeuwis & Dr. Lisa Hiwasaki**

Venue: Musa room

16:30 Murat Sartas, IITA/Wageningen University/Swedish University of Agricultural Sciences; Marc Schut, IITA/Wageningen University; Linley Chiwona Kartun, Swedish University of Agricultural Science; Piet Van Asten, IITA; Cees Leeuwis, Wageningen University - *Opportunities for higher impact agricultural research for development – A systematic review on a generic theory of change linking multi-stakeholder platforms to development outcomes and available tools.*

16:50 Adeolu Ayanwale, FARA; Olarinde Luke, Ladoke Akintola University of Technology, Nigeria; Fatunbi Oluwole, Adewale Adekunle, FARA - *Innovation Platforms, Gender relations and Household food security in the KKM PLS of the SSA CP.*

17:10 Sospeter Nyamwaro, CIAT-Uganda; Buruchara R, CIAT-Kenya; Tenywa MM, Makerere University Uganda; Mogabo J, Rwanda Agricultural Board; Wanjiku C, CIAT-Rwanda; Kalibwani R, Bishop Stuart University, Uganda; Twabaze J, Kabale, Local Government Uganda; Fatunbi AO, Adekunle AA, FARA - *Development Trajectories of Innovation Platforms in Lake Kivu Action Site.*

17:30 General Discussion

18:00 End of session

**Theme 2: Approaches to Scaling – Dr. Ann Degrande & Dr. Boru Douthwaite**

Venue: Vigna room

16:30 Boru Douthwaite, Marina Apgar, Rodrigo Paz and other members, AAS/WorldFish - *Theory of change as lever of change.*

16:50 Sygnola Tsafack, Ann Degrande, ICRAF/Humidtropics; Steven Franzel, Brent Simpson, Michigan State University - *Farmer-to-farmer extension in Cameroon: practice, opportunities and challenges.*

17:10 Degrande Ann, Chiatoh Maryben, Nimino Godwill, Ngaunkam Precilia, ICRAF, Cameroon; Franzel Steven, Place Frank, ICRAF, Kenya - *What drives agroforestry adoption in Cameroon?*

17:30 General Discussion
18:00 End of session

**Theme 3: Institutional and Methodological Issues in Working in Multi-Stakeholder Settings - Dr. Bernard Triomphe & Dr. Marc Schut**

Venue: Conference hall

16:30 **Bernard Triomphe**, CIRAD UMR Innovation; Anne Floquet, University of Abomey-Calavi; Brigid Letty, INR, South Africa; Geoffrey Kamau, KARI Kenya; Ann Waters-Bayer, ETC Foundation - *Engaging local stakeholders in more inclusive innovation processes. Lessons from a review of innovation experiences in African smallholder agriculture.*

16:50 **Iddo Dror**, Lukuyu, B., Duncan, A., Blummel, M., ILRI - *Leveraging instructional design and learning theories to improve productivity in smallholder systems: The FEAST experience.*

17:10 **Marc Schut**, IITA/Wageningen University; Cyrille Hicintuka, ISABU; Sylvain Mapatano, DIOBASS; Leon Nabahungu, RAB; Perez Muchunguzi, Chris Okafor, Emmanuel Njukwe, Jean-Prosper Kanyaruguru, Piet van Asten, Bernard Vanlauwe, IITA - *Entry points for innovation for sustainable intensification of agricultural systems in Central Africa.*

17:30 General Discussion

18:00 End of session

**Theme 4: From Farm to Landscape and Further: Integration of Scales - Dr. Herve Bisseleua**

Venue: Manihot room

16:30 **Herve Bisseleua**, Humidtropics, IITA/ICRAF - *From farm to landscape and further: Increasing the capacity for integrated research system and innovation.*

16:50 **Suhas P Wani**, KV Raju, K Krishnappa, KL Sahrawat, ICRISAT - *Scaling-up of Productivity Enhancement in Rainfed Agriculture.* Presented by K.H. Anantha, ICRISAT.

17:10 **Seerp Wigboldus**, Wageningen University; Marc Schut, IITA/Wageningen University; Katharina Schiller, Onno Giller, Laurens Klerkx, Marijn Poortvliet, Anne Marike Lokhorst, Cees Leeuwis, Wageningen University - *Enhancing dynamic systems research by activating integrative perspectives on processes of scaling up in agricultural development and innovation.*

17:30 General Discussion

18:00 End of session

19:00 DINNER RECEPTION WITH ENTERTAINMENT
International Conference on Integrated Systems

Conference Program: Day 4 – March 6

8:30  SESSION 10 – FORESIGHT IN SYSTEMS RESEARCH FOR DEVELOPMENT IMPACT
   Rapporteurs: Ingrid Oborn, ICRAF; Chris Okafor, IITA/Humidtropics
   Recap of Day 3: What Challenges Surround Partnerships and Institutional Arrangements?

9:00  Dr. Dolapo Enahoro, PIM/ILRI
   Foresight Modeling to Guide Sustainable Intensification of Smallholder Systems

9:15  Dr. Randall Ritzema, ILRI
   Agricultural futures in the humid tropics: A multi-scale approach

9:30  Dr. Michael Phillips, WorldFish
   Future-smart research agendas: Engaging and empowering local stakeholders through foresight

9:45  Brief Introduction in Plenary followed by Facilitated Discussion on:
   Opportunities and Challenges in Using Different Approaches to Foresight in Systems Research
   Panelists: Dr. Dolapo Enahoro, PIM/ILRI; Dr. Randall Ritzema, ILRI;
   Dr. Michael Phillips, WorldFish; Dr. Marie de Lattre-Gasquet, CGIAR Consortium

10:30 BREAK

11:00 SESSION 11 – FUTURE DIRECTIONS: HOW TO TAKE SYSTEMS RESEARCH FORWARD?
   Rapporteurs: Cees Leeuwis, WUR; Fergus Sinclair, ICRAF
   Dr. Richard Thomas, Director, Drylands
   Dr. Michael Phillips, Discipline Director, Aquaculture and Genetic Improvement, WorldFish
   representing Patrick Dugan, Director, AAS
   Dr. Kwesi Atta-Krah, Director, Humidtropics
   Brief Presentations by CGIAR Research Program Directors in Plenary followed by an Interactive Panel Discussion

12:30 LUNCH

14:00 OFFICIAL CLOSING SESSION
   Rapporteurs: Randall Ritzema, ILRI; Amare Tegbaru, IITA
   Key Messages and Summary of Conference
   Closing Remarks

15:30 BREAK

16:00 FIELD VISIT
   Tour of IITA Campus facilities and installations (optional)