

PROGRAM

Science Forum 2009

Science for Development: Mobilizing Global Linkages

16-17 June 2009 • Wageningen, The Netherlands

PROVISIONAL PROGRAM

DAY 1 - TUESDAY, 16 JUNE

8:00-08:30	Registration					
	OPENING PLENARY					
8:30-09:30	Annemie Burger, Dutch Ministry of Agriculture, Nature and Food Quality Science Forum 2009 Chair's opening remarks: Rudy Rabbinge, CGIAR Science Council Chair Adel El-Beltagy, Chairman, Agricultural Research and Development Council (Egypt) and Chair, GFAR					
09:30-10:30	Keynote address: Martin Kropff, Rector Magnificus / Vice-President Wageningen UR					
10:30-11:00	Coffee break					
11:00-13:00	Sir Gordon Conway, Chief Scientific Adviser, DFID (UK) William Clark, Co-Director, Sustainability Science Program, Kennedy School of Government, Harvard University Deborah Delmer, BREAD Program Director, National Science Foundation (USA) and Professor Emeritus, University of California, Davis					
13:00-14:00	Lunch					
14:00-17:00	PARALLEL WORKSHOPS: LONG-TERM PERSPECTIVES (see individual workshop programs for details)					
1. Resilient natural resource systems	2. The future of food: developing more nutritious diets & safer food	3. ICTs: Transforming agricultural science, research & technology generation	4. Beyond the yield curve: exerting the power of genetics, genomics and synthetic biology	5. Eco-efficiencies in agro-ecosystems	6. Agriculture beyond food: science for a biobased economy	
15:30-16:00	Coffee break (exact break start/end depends on the corresponding workshop schedule)					
17:00-17:30	Workshop Briefing Session Chair: Rudy Rabbinge					
17:30-18:30	Poster session (young scientists)					
18:30	Social event and dinner: Hon. Bert Koenders, Minister, Development Cooperation of the Netherlands					

DAY 2 - WEDNESDAY, 17 JUNE

	PLENARY SESSION					
08:00-09:30	Chair: Rudy Rabbinge Ren Wang, CGIAR Director Akinwumi Adesina, Vice-President (policy & partnerships), AGRA Pramod Kumar Aggarwal, National Professor, ICAR (India)					
09:30-10:00	Coffee break					
10:00-13:00	PARALLEL WORKSHOPS : MEDIUM TERM PERSPECTIVES (see individual workshop programs for details)					
1. Resilient natural resource systems	2. The future of food: developing more nutritious diets & safer food	3. ICTs: Transforming agricultural science, research & technology generation	4. Beyond the yield curve: exerting the power of genetics, genomics and synthetic biology	5. Eco-efficiencies in agro-ecosystems	6. Agriculture beyond food: science for a biobased economy	
13:00-14:00	Lunch					
14:00-15:00	PLENARY: PANEL DISCUSSION ON INNOVATIVE MODALITIES FOR RESEARCH COLLABORATION Moderator : Gebisa Ejeta Speaker: Mobilization of Science: Emerging Modalities - Richard Bissell, National Research Council (USA) Panel Members: Hansjorg Neun, Technical Centre for Agriculture and Rural Cooperation (CTA, The Netherlands) Joseph DeVries, Program for African Seed Systems, Alliance for a Green Revolution in Africa (AGRA) Robert Bertram, Center for Economic Growth and Agricultural Development, USAID Luis Vieira, EMBRAPA (Brazil)					
15:00-15:15	Coffee break					
	PLENARY: SUMMARY AND CLOSING					
	Chair: Rudy Rabbinge					
15:15-17:15	Summary of workshops by moderators, followed by open discussion					
17:15-18:00	Chair's summary and conclusions: Rudy Rabbinge Monty Jones, GCARD Task Force Chair and Director, FARA Hon. Gerda Verburg, Minister for Agriculture of the Netherlands and Chair, UNCSO					

Workshop 1 : Resilient natural resource systems**Coordinator:** Jeff Sayer (IUCN and CGIAR Science Council)**Draft Program****DAY 1 - Tuesday, 16 June 14:00 – 17:00**

Moderator: Bruce Campbell (CIFOR)

Rapporteur: Ravi Prabhu (ILRI)

14:00-14:10	Objectives of the session: Jeff Sayer (IUCN and CGIAR Science Council)
14:10-14:30	Resilience in practice: Challenges and opportunities for natural resource management in the developing world - Brian Walker (CSIRO, Australia, and The Resilience Alliance)
14:30-14:50	Social dimensions of resilience: Boundary Work - Peter Mollinga (University of Bonn)
14:50-15:10	Innovations to achieve resilience in irrigated systems: Line Gordon (Stockholm Resilience Center)
15:10-15:30	Crop diversity as a contribution to building resilience - Hannah Jaenicke (Crops for the Future, IWMI)
15:30-16:00	Coffee Break
16:00-17:00	Panel Discussion – speakers plus <ul style="list-style-type: none"> • Patrick Caron – CIRAD, France • Gordon Conway – DFID, UK • Jack Putz – University of Florida, Gainesville • Mark Smith – IUCN Water and Nature Initiative

DAY 2 - Wednesday, 17 June 10:00 – 13:00

Moderator: TBC

Rapporteur: Neil Andrew (WorldFish Center)

10:00-11:00	What might the international agricultural research system do to respond to the opportunities and challenges discussed on day 1 <ul style="list-style-type: none"> • P.K. Aggarwal - IARI (India) • Dennis Garrity – Director General, World Agroforestry Center • Thomas Rosswall – Chair, Climate Change Challenge Programme
11:00-12:50	Panel discussion: Speakers plus <ul style="list-style-type: none"> • William Clark – Kennedy School of Government, Harvard University • Richard Munang – UNEP/Climate change Adaptation • Marten Scheffer – University of Wageningen
12:50-13:00	Synthesis and recommendations for follow up: Brian Walker and Jeff Sayer

Workshop 2: The future of food: developing more nutritious diets and safer food**Coordinator:** Rodomiro Ortiz (Alliance of CGIAR Centers and Director, Resource Mobilization, CIMMYT)**Draft Program****DAY 1 - Tuesday, 16 June 14:00 – 17:00**

Moderator: Thomas Rosswall (Chairman, Steering Committee, Climate Change Challenge Program)

Rapporteur: David Bonnet (CIMMYT)

14:00-14:10	Session intro by Rodomiro Ortiz (Science Forum 2009 Task Force, Alliance of CGIAR Centers, Session Facilitator) - Overview of workshop format for speakers, panels and participants; aims of the Science Forum and this session
	Session talk by four invited speakers (20-25min talk + 5-10 Q&A on each talk)
14:10-14:40	The Future of Food: Towards Safer, More Nutritious Diets - Bernard Hubert (INRA, France) with inputs from Mark Rosegrant (IFPRI, USA) and Tiny van Boekel (Wageningen UR, The Netherlands)
14:40-15:10	Biofortification: a Sustainable Agricultural Strategy for Reducing Micronutrient Malnutrition in the Global South - Ross Welch (USDA/ARS – Cornell Univ., USA)
15:10-15:40	Food Safety: dealing with pollutants in the food chain (e.g. mycotoxins and pesticide residues) - Richard Sikora (Univ. of Bonn, Germany)
15:40-15:55	Coffee Break
15:55-16:25	Re-learning old lessons for the future of food: By bread alone no longer – diversifying diets with fruit and vegetables - Dyno Keatinge (AVRDC-The World Vegetable Center)
16:25-16:55	General Discussion on the four talks and other issues relevant to this session
16:55-17:00	Brief summary of first day (TBC between session chair, facilitator or rapporteur)

DAY 2 - Wednesday, 17 June 10:00 – 13:00

Moderator: Norman Looney (GlobalHort Board Chair and ISHS President)

Rapporteur: David Bonnet (CIMMYT)

10:00-10:10	Issues brought from the talks/discussions of the first day (TBC between session chair, facilitator or rapporteur)
10:10-11:00	Panel (5-7 minutes per panellist on issues needing attention for agenda on the future of food along previous days and new ideas) Tiny van Boekel (Wageningen UR, The Netherlands) Marlene Diekmann (GTZ, Germany) Natalia Palacios (CGIAR Young Scientist Award 2007, HarvestPlus/ CIMMYT) Leena Tripathi (IITA) Robin Buruchara (CIAT, Uganda) Adams Sadick (CSIR – Soil Research Institute, Ghana) Donna Minott-Kates (University of West Indies, Jamaica) Bibi Giyose (NEPAD)
11:00-11:55	General Discussion (including questions to panel)
11:55-12:00	Summary of Panel and General Discussion (TBC between session chair, facilitator or rapporteur)
12:00-12:40	Cross-session issues: linking The Future of Food with themes of the other five sessions Invited speakers of first day plus co-authors of session background paper to start (brief talks of about 3-4 minutes each), and thereafter open for exchanges with participants
12:40-13:00	General summary of session The Future of Food – a draft of issues to be brought to the plenary of the Science Forum 2009 (TBC between session chair, facilitator or rapporteur)

Workshop 3: ICTs: Transforming agricultural science, research and technology generation**Coordinator:** Ajit Maru (Agricultural Research Officer, GFAR)**Draft Program**

- Speakers/contributors:**
- Johannes Keizer (FAO/KC)
 - Ahmed Rafea (American University, Egypt)
 - Arman Manukyan (PROGIS, Austria)
 - Seishi Ninomiya (NARC, Japan)
 - Enrica Porcari (ICT-KM, CGIAR)
 - Stanley Wood (IFPRI/CSI)
 - Simone Sala (FAO/NRR)
 - Sjaak Wolfert (European Federation for Information Technology in Agriculture, Food and the Environment - EFITA)
 - Ehud Gelb (Center for Agricultural Economics Research, Israel)
 - Judith Ann Francis (CTA, The Netherlands)
 - Venkataraman Balaji (ICRISAT)
 - Karin Nichterlein (FAO/NRR)
 - Nadia Manning (CGIAR/ICT-KM)

DAY 1 - Tuesday, 16 June 14:00 – 17:00**Session 1: ICT-enabled Agricultural Science for Development: Scenarios, Opportunities, Issues**

Session focus is on longer-term scenarios and expected opportunities to transform Agricultural Science for Development with ICTs / where might we want to be?

[Overall Forum objective: Identify areas of rapid scientific innovation that have the potential to deliver development impact]

Moderator: TBC

Rapporteur: TBC

14:00-14:10	Welcome/opening: Ajit maru_(Agricultural Research Officer, GFAR)
14:10-14:15	Process: Peter Ballantyne (IAALD, The Netherlands)
14:15-14:45	3 Speakers (TBA)
14:45-15:00	Buzz groups
15:00-15:30	3 Speakers (TBA)
15:30-15:45	Buzz groups
15:40-16:00	Coffee Break
16:00-16:30	3 Speakers (TBA)
16:30-16:45	Buzz groups
16:45-17:00	Wrap up and Key Messages: Peter Ballantyne

DAY 2 - Wednesday, 17 June 10:00 – 13:00**Session 2: ICTs to Mobilize Agricultural Science for Development**

Session focus is on medium term actions and directions needed for ICTs to transform Agricultural Science for Development / how might we get there?

[Overall Forum objective: Investigate new modalities for research collaboration, identify factors that limit effective collaborative engagement, explore a common vision for collaborative linkages and research partnerships]

Moderator: TBC

Rapporteur: TBC

10:00-10:15	Short recap previous day
10:15-10:45	3 Speakers (TBA)
10:45-11:00	Buzz groups
11:00-12:40	World Café: How to Mobilize ICTs to 1) Transform Agricultural Science for Development; and 2) Enrich the Livelihoods of the Rural Poor with Interoduction and explaining of the World Cafe Process by Peter Ballantyne All participants in the Workshop will work in groups together for the World Café.
12:40-13:00	Summary and Key Messages by CGIAR and GFAR

Workshop 4: Beyond the yield curve: exerting the power of genetics, genomics and synthetic biology**Coordinator:** Gebisa Ejeta (Purdue University and CGIAR Science Council)**Draft Program****DAY 1 - Tuesday, 16 June 14:00 – 17:00**

Moderator: Deborah Delmer (BREAD Program Director, National Science Foundation, USA; Professor Emeritus, University of California Davis)

Rapporteur: TBC

14:00-14:10	Opening and session introduction: Gebisa Ejeta (Coordinator) and Deborah Delmer (Session Chair)
14:10-14:35	Breeding and cereal yield progress - Tony Fischer (CSIRO, Australia)
14:35-15:05	Background paper: Mobilizing science to break yield barriers - Ronald Phillips (University of Minnesota)
15:05-15:30	Application of next-generation sequencing, genome editing, and synthetic biology to real problems of the real world - Jasper Rine (University of California at Berkeley)
15:30-15:50	Coffee Break
15:50-16:50	Panel Discussion: <ul style="list-style-type: none"> Deborah Delmer (University of California at Davis) Scott Jackson, (Purdue University, USA) Mike Gale (CGIAR Science Council)
16:50-17:00	Brief summary of first day by Moderator

DAY 2 - Wednesday, 17 June 10:00 – 13:00

Moderator: David Bergvinson (BMGF, USA)

Rapporteur: TBC

10:00-10:05	Session Introduction - David Bergvinson
10:05-10:30	Challenges of embedding climate change into agricultural research programs - Walter Baethgen (Columbia University)
10:30-10:55	A strategy for rapid identification of gene function in hexaploid wheat - Steve Scofield (USDA/ARS)
10:55-11:20	Improving drought stress tolerance in crops: Translational research for sustainable agriculture - Jacqueline Heard (Monsanto, USA)
11:20-12:45	Panel Discussion: <ul style="list-style-type: none"> David Bergvinson (BMGF, USA) Jean-Christophe Glazmann (CIRAD, France) Rajeev Varshney (ICRISAT, India)
12:45-13:00	Summary and closing - David Bergvinson and Gebisa Ejeta (Workshop Coordinator)

Workshop 5: Eco-efficiencies in agro-ecosystems**Coordinator:** Prem Bindraban (Director ISRIC - World Soil Information and Wageningen UR)**Draft Program****DAY 1 - Tuesday, 16 June 14:00 – 17:00**

Moderator: Jean-Luc Khalfaoui (CIRAD, France)

Rapporteur: TBC

14:00-14:05	Session lay-out: Objectives of the workshop (Prem Bindraban, ISRIC - World Soil Information and Wageningen UR)
14:05-14:10	Opening
14:10-14:40	Background Paper: Eco-efficient agriculture: concepts, challenges and opportunities - Brian Keating (CSIRO, Australia) Questions and Answers
14:40-15:10	Managing soils to enhance eco-efficiency in agro-ecosystems - Rattan Lal (Ohio State University, SENR, USA) Questions and Answers
15:10-15:40	Presentation on Water: Jennie Barron (SEI, Sweden) Questions and Answers
15:40-16:00	Coffee Break
16:00-16:30	Everything is Inherited - Maarten van Ginkel (ICARDA)
16:30-17:00	Discussion Session

DAY 2 - Wednesday, 17 June 10:00 – 13:00

Moderator: Eric Smaling (Wageningen University and Research Center)

Rapporteur: TBC

10:00-10:15	Opening: Explanation of what needs to be achieved
10:15-10:30	Recap of previous day's questions and groupings
10:30-11:00	Presentation on Climate: Sarah Park (CSIRO, Australia)
11:00-12:00	Discussion: Areas of scientific innovation in the short (0-5 years) and long (5-15 years) terms - "research agenda"
12:00-12:45	Discussion on research collaboration
12:45-13:00	Closing

Workshop 6: Agriculture beyond food: science for a biobased economy**Coordinator:** Huub Löffler (Wageningen University and Research Center)**Draft Program**

Agriculture beyond food concerns three important aspects of the biobased economy in relation to developing countries: bio-energy, bio-refinery and bio-materials. Within these fields, the workshop seeks to identify societal issues, to explore future scientific options to address these issues, to identify the options that can be implemented on the mid-term, and to identify the enabling environment needed to actually implement the options.

A commissioned paper by Hans Langeveld will provide back-ground information and will be available for all participants prior to the workshop.

To address the questions effectively, the workshop will have the following elements:

- Introductions by experts,
- Written questions, comments and suggestions of the audience,
- General discussion with the audience based on the written remarks,
- Panel discussion,
- Summary and conclusions.

The first day, the *Agriculture beyond food* workshop will focus on the societal issues and the long-time scientific options. The second day will focus on mid-term perspectives and ways to capitalize on these perspectives. At the end of both days, the main conclusions will be reported in a plenary with all Science Forum participants.

DAY 1 - Tuesday, 16 June 14:00–17:00**Agriculture Beyond Food: from societal issues to scientific options**

Moderator: Bernardo Ospina (CLAYUCA / CIAT, Colombia)

Rapporteur: Petrus Gunarso (Tropenbos, Indonesia)

14:00-14:05	Opening
14:05-14:35	Harnessing Solar Energy for the Production of Clean Fuel - Huub de Groot (SSNMR Leiden Institute of Chemistry)
14:35-14:45	Explanatory questions
14:45-15:15	Biorefineries: A path to sustainability? - Rajni Hatti-Kaul (Lund University, Sweden)
15:15-15:25	Explanatory questions
15:25-15:40	Write down questions, comments and suggestions by the audience
15:40-16:00	Coffee Break (Process the questions and remarks by the organizers)
16:00-16:50	General discussion
16:50-17:00	Brief summary of first day (TBC between moderator, facilitator or rapporteur)

DAY 2 - Wednesday, 17 June 10:00–13:00**Agriculture Beyond Food: from mid-term perspectives to implementation**

Moderator: Bernardo Ospina (CLAYUCA / CIAT, Colombia)

Rapporteur: Petrus Gunarso (Tropenbos, Indonesia)

10:00-10:05	Opening
10:05-10:35	Bioenergy: how can resource poor farmers benefit? - David Hoisington (ICRISAT)
10:45-10:55	Explanatory questions
10:55-11:25	Bio-refinery: hot topics & mid-term perspectives - Daniel Pioch (CIRAD, France)
11:25-11:35	Explanatory questions
11:35-12:45	Panel discussion <ul style="list-style-type: none"> - Huub de Groot (SSNMR Leiden Institute of Chemistry) - Rajni Hatti-Kaul (Lund University, Sweden) - David Hoisington (ICRISAT) - Daniel Pioch (CIRAD, France) - Hans Langeveld (Biomass Research, The Netherlands)
12:45-13:00	Synthesis and recommendations