WORLD CONGRESS ON AGROFORESTRY 2014
Trees for life: Accelerating the impacts of agroforestry

Programme
(as at 16:30, 8 February 2014)

See announcement boards for further amendments

Monday 10 February 2014

0800–0900
Buses transport participants to Vigyan Bhawan

South Asia Day
Vigyan Bhawan, Maulana Azad Road, New Delhi

Inauguration

0900–1030
Registration at Vigyan Bhawan Annex

1030–1130
Coffee and tea served at Vigyan Bhawan Atrium, courtesy of the Indian Tourist Development Corporation

1130–1145
All participants seated in Vigyan Bhawan Plenary Hall

1200–1330
Opening ceremony

Inaugural address by Shri Pranab Mukherjee, Honourable President of India

Panel of dignitaries
Shri Sharad Pawar, Honourable Minister of Agriculture and Food Processing Industries
Dr M. Veerappa Moily, Honourable Minister of Environment and Forest
Shri Ashish Bahuguna, Secretary of Agriculture
Dr S Ayyappan, Secretary of the Department of Agricultural Research and Education and the Director General of the Indian Council of Agricultural Research
Dr Anthony J. Simons, Director General of the World Agroforestry Centre

Krishi Karman award ceremony
Honouring farmers from Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Chhattisgarh, Haryana, Jharkhand, Madhya Pradesh, Maharashtra, Manipur, Meghalaya, Mizoram, Odisha, Punjab, Tripura, Uttar Pradesh, West Bengal
Youth awards
1330–1430
Lunch – courtesy of the Indian Tourist Development Corporation

Plenary 1
Venue: Vigyan Bhawan Plenary Hall

1430–1435
ICAR song

1435–1440
Introduction of keynote speaker and panelists
Dr S Ayyappan, Secretary of the Department of Agricultural Research and Education and the Director General of the Indian Council of Agricultural Research

1445–1515
Keynote address
Dr M S Swaminathan, Emeritus Chairman and Chief Mentor of the MS Swaminathan Research Foundation

1515–1535
Panel discussions
Dr Dina Nath Tiwari, Founder and Head of Utthan, Centre for Sustainable Development and Poverty Alleviation
Dr R S Paroda, Chairman, Trust for Advancement of Agricultural Sciences and Executive Secretary, Asia Pacific Association of Agricultural Research Institutes
Prof H P M Gunasena, Chairman, Coconut Research Institute, Lunuwila, Sri Lanka
Dr Rita Sharma, Secretary, National Advisory Council, Government of India

1535–1545
National Agroforestry Policy: a brief overview

1545–1550
Wrap up
Dr M S Swaminathan, Emeritus Chairman and Chief Mentor of the MS Swaminathan Research Foundation

Breakout sessions
1550–1720
Breakout session 1
Theme: Agroforestry systems, income and environmental benefits
Theme leader: P K R Nair

1.1 Policy on agroforestry and tree-based farming systems
Coordinator: Rajinder Prasad
Venue: Plenary Hall
Chairs: J S Samra and K B Thampi

Agroforestry research in Indonesia: where to go for the next two decades
Dede Rohadi
Mediating factors of agroforestry changes in Vietnam: implications for agroforestry development
Hoa Thi Nguyen
The role of agroforestry in newly allotted forest lands in tribal Odisha
Kamla Khanal
CAFNET – first effort in India to value ecosystem services from coffee-based agroforestry systems
Cheppudira Kushalappa
Agroforestry systems in China - a proposed classification for Chinese tropical agroforestry
Xiao Guo
Trees on private lands: a regulatory impact analysis in select states in India
Chetan Agarwal

1.2 Agroforestry for rural employment and income generation
Coordinator: SP Ahlawat
Venue: Hall 4
Chairs: A K Singh and B Mohan Kumar

Tree-borne oil seed crops – a step towards building energy security in rural India
Balakrishna Gowda
*Santalum yasi* Seem. a vital agroforestry species for rural employment and livelihoods development in Fiji
Saurindra Narayan Goswami
Implementation of agroforestry for poverty alleviation and livelihood improvement in the state of Tripura, India
Avinash M Kan fade
Role of agroforestry in poverty alleviation at Ghatail Upazilla of the Tangail District, Bangladesh
Md Wasiul Islam
Ensuring integrated timber and non-timber forest product marketing for improving rural livelihoods: lessons learnt from Indonesia
Muktasam Abdurrahman
Yamunanagar – a model of a symbiotic relationship between farmers and wood-based industries
Raj Kumar Sapra

1.3 Land reclamation: biodrainage and salinity control
Coordinator: Rajbir Singh
Venue: Hall 5
Chairs: Gurbachan Singh and J C Dagar

Biodrainage: an ecofriendly agroforestry technique for controlling waterlogging, livelihood security and carbon sequestration
Jagdish Dagar
Rehabilitation of degraded sodic land through agroforestry and monoculture plantations
Kripal Singh
Biodrainage as successful models for combating water logging in canal commands – some case studies
Rajbir Singh
Cultivation of intercrops inside biodrainage (*Eucalyptus camaldulensis*) vegetation under a waterlogged ecosystem in Odish
Somnath Roy Chowdhury
Biodrainage for salinity control: myth or reality for the Indian monsoonal climate
P S Minhas
Potential of tree plantations for wastewater disposal: Long term use in *Eucalyptus*
R K Yadav

1.4 Drylands and agroforestry
Coordinator: AK Handa
Venue: Hall 6
Chairs: V N Sharda and B Venkateswarlu

Design and development of agroforestry systems in low rainfall regions of India for combating climate change
Murari Mohan Roy
Improving productivity of common grazing resources in hot arid region of India through participatory pasture development
Arun Misra
Livelihood diversification through agroforestry in semi-arid regions of India
Prasad JVNS
Cultivating resilient landscapes - opportunities for restoring degraded and vulnerable lands with agroforestry systems
Matilda Palm
Bamboo-based agroforestry for livelihood security and environmental protection in semi-arid regions of India
Sudhir P Ahlawat
Beyond the project cycle: ex-post assessment of agroforestry adoption and management in semi-arid Karnataka
James Brockington

1720–1750
Tea/coffee break – Book release: details in daily announcement

1750–1920
Breakout session 2
Theme: Climate change, multifunctionality, livestock and fish systems
Theme leader: Giashudin Miah

2.1 Agroforestry for climate change mitigation and adaptation
Coordinator: Ram Newaj
Venue: Plenary Hall
Chair: B M S Rathore
Below-ground carbon stocks of 21-year-old *Grevillea robusta* stands in the humid tropics of Kerala
Samritika Thakur
Climate change and agroforestry management in Sri Lanka: adverse impacts, adaptation strategies and policy implications
Mangala Premakumara De Zoysa
Yield, carbon density and climate change impact on bagras (*Eucalyptus deglupta* Blume) in corn-based hedgerow intercropping
Richmund Palma
CO₂ sequestration estimation for the litsea-cassava agroforestry model in the Central Highlands of Vietnam
Bao Huy
Assessment of carbon stocks and fractions under agroforestry plantation in the hilly ecosystems of northeast India
Ramesh Thangavel
Greenhouse gas mitigation in a landscape perspective - a case study from semi-arid regions of India
Prasad V N S Jasti

2.2 Tropical home gardens: multifunctionality and benefits
Coordinator: Shyam Viswanath
Venue: Hall 4
Chair: P K R Nair
Carbon stock and tree diversity of dry-zone homegardens in southern Sri Lanka
Eskil Mattsson
The multiple drivers of homegarden decline in Kerala, India
Thomas Arcadius Fox
Floral and avifaunal composition, richness and diversity of traditional agroforestry homegardens on the Konkan coast of Maha
Kumarsukhadeo Prakash Gadekar
The potential of palms in Southeast Asian agroforestry systems and home gardens
Anders Sánchez Barfod
REDD+ benefits to encourage good practices outside forest lands: a case study in Vietnam
Hoan Trong Do
Homegarden agroforestry for socioeconomic, ecological and environmental sustainability in Sri Lanka

DKNG Pushpakumara
Quest for an appropriate bamboo species in tropical homegardens - can Dendrocalamus stocksii (Munro) fit the bill?

Syam Viswanath

2.3 Tree fodder and animal nutrition
Coordinator: OP Chaturvedi
Venue: Hall 5
Chairs: Punjab Singh and P S Pathak

Sustainable fodder production strategy through utilization of wastelands in hills
Jaideep Kumar Bisht
Nutritional value and mineral profile of forest foliages in the temperate SubHimalayas
Biswanath Sahoo
Fodder production through agroforestry: a boon for profitable sheep and goat farming
Bandeswaran Chinnaondi
Development of suitable silvipasture models for meeting the fodder requirements in Tamil Nadu
Divya M P
Growth and yield of agricultural crops intercropped under three multipurpose trees in Mizoram, northeast India
P C Vanlalhun
Traditional agroforestry systems for the rural development in the hills of Garhwal Himalaya, India
Arvind Bijalwan

Evening programme

1920–1930
Buses depart from Vigyan Bhawan to Ashok Hotel

1930–2015
Cultural programme, Ashok Hotel

2015–2200
Cocktail followed by Inaugural Dinner, Ashok Hotel

2200
Buses depart from Ashok Hotel to various hotels

Tuesday 11 February 2014

0700–0900
Buses transport participant from hotels to venue Kempinski Ambience hotel, Shahdara

Plenary 2: The role of business in accelerating the impacts of agroforestry
Venue: Plenary Hall

0900–0910
Welcome remarks and introduction of Chair, keynote speaker and panelists
Anthony Simons, Director General, World Agroforestry Centre
0910–0930
Keynote address
Howard Shapiro, Chief Agricultural Officer, Mars Inc.

0930–1025
Plenary keynotes and panel discussion

The role of business in accelerating the impacts of agroforestry
RB Singh
Shri Krishna Byre Gowda, Minister of Agriculture, Karnataka
Howard Shapiro, Chief Agricultural Officer, Mars Inc.
Bernard Giraud, President, Livelihoods Venture, Danone
Tristan Lecomte, Founder and Chief Executive Officer, Pur Project and Ashoka Fellow

1025–1030
Wrap up
Anthony Simons, Director General, World Agroforestry Centre

1030–1100

Breakout sessions

1100–1230
Breakout session 3
The business of agroforestry: applying science
Theme leader: Roger Leakey

3.1 The viability of trees as crops: agroforestry, pulp and wood-based enterprises, cocoa and coffee
Coordinator: Joyce Kasyoki
Venue: Emerald room
Chair: Zac Tchoundjeu

Agroforestry for food and wood security: an industry experience in India
H D Kulkarni
Highest wood production by poplar (Populus deltoides) clones under agroforestry systems in Punjab State, India - a case study
Mohammed Haque
Small farm diversification strategies by coffee farmers around Mount Kenya in Kenya
Sammy Carsan
Cacao agroforestry system - improving productivity and profitability of smallholder cacao in Sulawesi
Janudianto
Cocoa agroforestry systems vs. monocultures under conventional and organic management - results from tropical Bolivia
Christian Andres

3.2 Biofuels: using trees as a sustainable energy resource
Coordinator: Liz Kariuki, Babita Bohra
Venue: Turquoise room
Chair: Navin Sharma

A tool for more sustainable fuel use? Carbon finance for cookstoves in India
Olivia Freeman
Alley coppice: an innovative agroforestry system that combines timber and energy wood production
C Dupraz
A novel model for mangrove agroforestry to provide livelihoods and biofuel feedstock
Robert W Riley Jr (Via webex)
Trees as a global source of energy: from fuelwood and charcoal to pyrolysis-driven electricity generation and biofuels
Philip Dobie
Agroforestry - a promising option for tree-borne oil seed production
P Kumar

3.3 Improving nutrition through agroforestry: the business case
Coordinator: Ake Mamo
Venue: Coral room
Chairs: Ramni Jamnadass

Potential of fruit trees in the drylands of Sub-Saharan Africa for food and nutrition security and income generation
Katja Kehlenbeck
Indigenous trees incubators in agroecological zones in Kenya for the commercialization of nutritional foods
Anja Oussoren
Wildlife, a forgotten resource of agroforestry and shifting cultivation landscapes
Robert Nasi
The effect of tree cover on child nutrition in Indonesia: examining the relationship between tree cover consumption of micronutrient-rich foods
Amy Ickowitz
Moringa - a vegetable tree for improved nutrition, health and income of smallholder farmers
A W Ebert

3.4 Building livelihoods on tree products
Coordinator: Verah Otiende
Venue: Sapphire room
Chairs: Ram Prasad and K D Singh

Short-rotation coppice agroforestry for charcoal small business in Papua New Guinea
Ian Nuberg
Timber production and poverty: management strategy of smallholder timber farmers in West Java, Indonesia
Mohamad Siarudin
Agroforestry option for improving livelihood and environment: case study from eastern Indonesia
Suyanto
Promotion of teak under an agroforestry system for enhancing rural livelihood
Pramod Shukla
Socioeconomic factors influencing position of women in fruits and vegetables value chains in the Coast region, Tanzania
Martha Swamila

3.5 Public-private partnerships: adding value to develop markets for producers
Coordinator: Lilian Gatubu
Venue: Ruby room
Chair: Patrick Worms

Public-private partnerships on tree domestication for sustainable agroforestry and business innovations: Allanblackia spp.
Daniel A. Ofori
Conservation and sustainable agriculture project in Bajo Mira and Fronterra territory, Colombia
Karla Canavan
Cooperation or capture? The politics of private partnerships for sustainable coffee agroforestry
Arshiya Bose
How agroindustries influence cocoa growers’ cropping practices in Cameroon?
Sarah Langrand
The business of agroforestry: opportunities and challenges for commercial investment in agroforestry-based ventures
Sagun Saxena

3.6 Valuing the environmental services of trees in the landscape
Coordinators: Naomi Kanyugo and Lydia Wafuha
Venue: Jade room
Chairs: Meine Van Noordwijk, Beria Leimona and Terry Sunderland

Valuing the environmental services of trees in the landscape: an introduction
Beria Leimona
Synergies and trade-offs amongst multiple functions of trees in agricultural landscapes
Shem Kuyah
Quantification and valuation of ecosystem services of temperate tree-based intercropping systems in Quebec, Canada
Alain Olivier
The French green and blue corridors implementation process: challenges for agroforestry
Sylvie Guillerme
Can payments for ecosystem services steer sustainable management of forest patches in an agricultural landscape?
Nasta Babirye
Forest conservation policy and motivational crowding: experimental evidence from Tanzania
Brent Swallow

1230–1400

1400–1530

Breakout session 4
Theme: Sustaining development through agroforestry
Theme leader: Fergus Sinclair

4.1 Meeting development challenges with integrated approaches
Coordinator: Liz Kariuki
Venue: Emerald room
Chairs: D N Tewari and K G Saxena

Inclusive green economy, sustainable development and agroforestry with special reference to the South
Maharaj Krishen Muthoo
Agroforestry research in India: experience of 100 years with a focus on an organized national programme
Shiv Kumar Dhyani
Assessment of trees outside forests for Yamunagar and Panchkula district of Haryana state through High Spatial
Resolution Remote Sensing Data
Girish Pujar
Assessing aboveground biomass carbon stock of miombo woodlands and (its) controlling factors in southern Africa
Lulseged Tamene
Participatory agroforestry development and sloping land user group in DPR Korea
Jun He (TBC)
Spice market value chains and implications for development in the east Usambaras, Tanzania
Renee Bullock (TBC)

4.2 The gender dimensions of applying agroforestry innovation
Coordinator: Joyce Kasyoki
Venue: Turquoise room
Chair: Delia Catacutan

Gender matters in agroforestry in dry and degraded lands? An analysis from tribal India
Purabi Bose
Gender, sheep and trees in Zan Coulibaly, Mali: methodological approaches
Jean Bonneville  
From rubber agroforestry to oil palm plantations in Sumatra, Indonesia: shifting gender roles

Ratna Akiefnawati  
Gender equity in payments for environmental services: analysis of pilot projects in Asia and Africa

Mamta Vardhan  
Agricultural (in)justices: investigating feminization of agriculture and its implications to food security in Nepal

Sujata Tamang  
Mother Earth: women’s role in cacao agroforestry decision process in coastal Ecuador

Trent Duane Blare

4.3 Adapting to climate change
Coordinator: Verah Otiende  
Venue: Coral room  
Chairs: Cheikh Mbou and Todd Rosenstock

Choosing suitable agroforestry species, varieties and seed sources for future climates with ensemble approaches

Roeland Kindt  
In search of dynamic linkages between agroforestry and ecosystem-based adaptation: a case study of the Mid Hills of Nepal

Racchya Shah  
Livelihood improvement of farming communities vulnerable to land degradation and climate change

Sarath Premalal Nissanka  
Agroforestry, a viable strategy for climate change mitigation and livelihood

Sumit Chakravarty  
Carbon sequestration and emission reduction through tree- and energy-based interventions for mitigating climate change

Dibakar Mahanta  
Agroforestry interventions through carbon finance – a viable option in mitigation of climate change

Amol Vasishth

4.4 Bridging science and development
Coordinators: Anne Kuria and Babita Bohra  
Venue: Sapphire room  
Chairs: Daniel Callo-Concha and Anna Schwachula

ZEF experience and track bridging science and development: agroforestry examples

Christian Borgemeister  
Scaling-up the science to create an EverGreen Agriculture in African countries

Joerg Lohmann  
Agroforestry systems as components of agroecological transition processes in eastern Amazonia and associated public policy - emphasis on the state of Pará, Brazil

Tatiana Deane de Abreu Sá  
Exploring the incentives for on-farm adoption of agroforestry in degraded cropping areas in Uzbekistan

Asia Khamzina  
Farmer to farmer interpersonal communication in agroforestry innovation dissemination in Sulawesi, Indonesia

Endri Martini  
Fodder tree technology: extension and adoption challenges in northern Malawi

Greg Toth  
Conservation and livelihood impacts of an agroforestry system: a case study of the Kavrebalanchok district of Nepal

Bishnu Hari Pandit

4.5 Increasing food production through trees on farms
Coordinator: Ake Mamo  
Venue: Ruby room  
Chair: Fergus Sinclair
Farmer motivations and participatory trial design for enhancing food security through developing farm tree resources in Ethiopia

Abayneh Derero

Introducing trees on sloping land to improve livelihoods in northwest Vietnam

La Nguyen

Edible, multi-purpose Australian acacias for agroforestry farming systems in Africa’s drylands

Peter Cunningham

Revitalizing African agriculture from the ground up: a case study of soil fertility, fertilizer subsidy and agroforestry

Viola Glenn

(Recorded presentation) The value of local knowledge about tree management in designing agroforestry interventions to improve food security

Anne Kuria

Prospects for integrating trees in crop fields: a synthesis across India

David Harris

4.6 Building development abilities through education and capacity development

Coordinator: Lilian Gatubu

Venue: Jade room

Chairs: Mehmood Hassan (TBC) and A Yaye

The master tree grower and peer group mentoring programmes: building farmer and community capacity

Rowan Reid

Integrating knowledge management and ICT4D in capacity building for agroforestry and natural resource management

Kiringai Kamau

Two decades of agroforestry training, education and research at Université Laval, Québec, Canada

Damase Khasa

Reforming curricula for agribusiness education and training in Africa: the ANAFE focus for the incoming years

Sebastian Chakeredza

Experiential learning practices in Nigerian’s tertiary agricultural education institutions

Marie Louise Tientcheu Avana

1530–1600

Tea/coffee break – Book launch: Atangana et al., Tropical Agroforestry 2014, Springer

1600–1700

Poster session 1

Venue: see map

All posters covering breakout sessions 1, 2 and 3 will be displayed. Poster presenters will stand by their posters, present a brief description of their work and respond to questions.

Concurrent event

Business Hard Talk on agroforestry, moderated by Tony Gourlay

Venue: Kempinski Gardens

1715

Buses leave Kempinski Hotel to other hotels

Wednesday 12 February 2014

0700–0900

Buses transport participants from hotels to Kempinski Ambience, Shahdara
Plenary 3: Scientific breakthroughs and innovations
Venue: Plenary Hall

0900–0905
Welcome remarks and introduction of keynote speaker and panelists
Dr Ben Chikamai, Director of Kenya Forest Research Institute

Keynote addresses

0905–0920
Title: Innovations in agroforestry research to meet wide challenges: the cases of climate change and food sovereignty
Dr Tatiana Deane de Abreu Sá, agrometeorologist and plant ecophysiologist, Embrapa

0920–0935
Title: Agroforestries of the future: what science do we need?
Dr Kate Shreckenberg, Coordinator, Centre for Underutilized Crops, University of Southampton, Southampton, UK

0935–1000
Panel discussion
P K R Nair, Distinguished Professor and Director of Center for Subtropical Agroforestry
Eduardo Somarriba, Distinguished Scientist at CATIE
Eduardo Rojas, Assistant Director General Forestry, UN Food and Agriculture Organization, Italy
H A J Gunathilake, Director, Coconut Research Institute, Sri Lanka

1000–1020
Plenary comments

1020–1030
Wrap up
Dr Kate Schreckenberg and Dr Tatiana Deane de Abreu Sá

1030–1100

Breakout sessions

1100–1230
Breakout session 5
Theme: Applying science to the future of agroforestry
Theme leader: Eduardo Somarriba

5.1 Humid multi-strata systems
Coordinators: Naomi Kanyugo and Lydia Wafula
Venue: Emerald room
Chairs: Eduardo Somarriba and P Vaast

Strong spatial variability of light use efficiency in a coffee agroforestry system, highlighted by 3D light and gas exchange model
Fabien Charbonnier
Invent a new model for cocoa smallholders: agroforestry, a credible alternative to face an uncertain future
Bruno Rapidel
Linking local ecological knowledge to plant functional traits in coffee and cocoa agroforestry systems in Costa Rica
Jenny Ordonez
Understanding farmers: using role-playing games to explore futures of landscape management in the Western Ghats, India
Claude Garcia
Impacts of a coffee agroforestry system on socioeconomic performance of the upper Sekampung watershed in Sumatra, Indonesia

Bustanul Arifin
Coffee and climate change: the importance of systems thinking

Laurence Jassogne

5.2 New tools and paradigms
Coordinator: Joyce Kasyoki
Venue: Turquoise room
Chair: Tor Gunnar Vagen

New technologies to old problems: online role-playing games, farmers and coffee agroforestry in the Western Ghats
Jenu Kalla
Agroforestry systems risk/revenue balance: an investor’s point of view.
Clement Chenost
The end of the sun/shade dichotomy in agroforestry systems: mapping of plant light budgets in multistrata heterogeneous plots
Fabien Charbonnier
Using ground-penetrating radar in agroforestry systems: quantification of tree root distribution and biomass
Kira A Borden
The talking toolkit for facilitating farmer groups on the role of trees for adaptation
Elisabeth Simelton
Combining a numerical model with farmer participation for the design of sustainable and practical agroforestry systems
Bruno Rapidel

5.3 Biodiversity and agroforested habitats
Coordinator: Ake Mamo
Venue: Coral room
Chairs: Edmundo Barrios

Tree-soil interactions and the provision of soil-mediated ecosystem services
Edmundo Barrios
Shade, litter, nematodes, earthworms, termites and companion trees in coffee agroforestry in relation to climate resilience
Kurniatun Hairiah
Impact of rubber tree plantations on soil functional biodiversity and soil organic carbon
Alain Daniel Brauman
The role of coffee agroforestry in the conservation of forest tree diversity and community composition
Vivian Valencia
Effects of local and landscape conditions on insect pollinators in a forest–agricultural landscape of West Java, Indonesia
Dendi Muhamad
The effects of shade, altitude and landscape composition on coffee pests in East Africa
Mattias Jonsson

5.4 Agroforestry of dry and degraded lands
Coordinator: Liz Kariuki
Venue: Sapphire room
Chairs: C R Babu, K S Rao and Jan De Leeuw

The Spinal: a sustainable productive alternative for the interior dryland development of the Chilean Central Mediterranean area?
Alejandro Lucero
Trees and resilience in dryland agroforestry systems in eastern African
Jan De Leeuw
Agroforestry for rehabilitation of degraded lands and poor quality waters: livelihood security and mitigating climate change
Jagdish Chander Dagar
Using species distribution models to select climate change-resistant species for ecological restoration of bowé in West
Elie Antoine Padonou
Arbuscular mycorrhizal association and growth response of Faidherbia albida (Del.) A. Chev. as influenced by land use type
Mengisteab Hailemariam
Physiological response of switchgrass for bioenergy alley cropping in soils of varying depths in central Missouri
Sougata Bardhan

5.5 Temperate agroforestry
Coordinator: Lilian Gatubu
Venue: Ruby room
Chairs: Shibu Jose, S Raju, A Mason and Paul Burgess
Temperate agroforestry in the 21st century: a North American perspective
Shibu Jose
Evaluating nitrogen transfer from the Caragana shelterbelt and its effects on yield and nutrition of forage crops
Anthony Kimaro
Effects of silvopastoral practices on intensively managed quality timber plantations in Spain
Gerardo Moreno
Environmental and biological interactions on productivity of silvopastoral system with Pinus contorta Doug. ex. Loud.
Alvaro Sotomayor
Introducing AGFORWARD – a project to advance agroforestry in Europe
Paul J. Burgess

5.6 The social science of agroforestry
Coordinator: Anne Kuria
Venue: Jade room
Chairs: Christine Padoch and Ujjwal Pradhan
Rural livelihoods, HIV/AIDS and agroforestry interventions: social science methods for addressing complex problems
Joleen Timko
The role of informal social networks in agroforestry adoption and management
Marney E Isaac
Transforming land and livelihoods: analysis of agricultural land abandonment in the Mid Hills of Nepal
Krishna Prasad Paudel
Migrants and land markets in Jambi, Indonesia: the prospect of agroforestry development in peatland
Gamma Galudra
Management of Ghana’s modified taungya system: challenges and strategies for improvement
Emmanuel Acheampong
Understanding diversity of smallholder agroforestry and forestry systems in hilly and mountainous landscapes: regional comparisons in Asia
Kiran Asher
Decentralization and forest restoration governance: a comparative study in upland communities of southwest China
Jun He (TBC)

1230–1400 Lunch – Book launch: details pending
1400–1530 Breakout sessions 6
Theme: Sustaining development through agroforestry
Theme leader: Frank Place

6.1 Policy, governance and international frameworks
Coordinator: Liz Kariuki
Venue: Emerald room
Chairs: Andrew Wardell and Frank Place

Revisiting debates on the role of gender in the governance of trees and forests in the context of climate change
Bimbika Sijapati Basnett
Why has community forestry made a limited contribution to agroforestry in Nepal?
Dil Bahadur Khatri
Engagement of private sector in REDD+: issues, opportunities and challenges
Isilda Nhantumbo
Security beyond the political forest: regulation, formalization and timber production in northern Central Java
James Thomas Erbaugh

6.2 Ecology and economics of rubber-based agroforestry
Coordinator: Lilian Gatubu
Venue: Turquoise room
Chairs: Georg Cadisch and Jianchu Xu

Factors influencing the adoption of improved rubber agroforestry system by rubber smallholder farmers in Indonesia
Dudi Iskandar
Ecosystem services trade-offs and synergies of rubber agroforestry under uncertainty
Grace Ballesfin Villamor
Rapidly increasing demand for rubber drives plantations into ecological margins and threatens biodiversity
Antje Ahrends
The planter’s bet. Can family-own rubber farms match global challenges?
Philippe Thaler
Measuring the impact of rubber agroforestry – an integrative ecosystem service assessment framework
Marc Cotter
Small-scale rubber farming and income risk in Xishuangbanna, China
Hermann Waibel
Rubber monoculture or rubber agroforestry: are there implementable policy supports based on results from spatially explicit models?
Zhuangfang Yi

6.3 The science of scaling up and the trajectory beyond subsistence
Coordinator: Anne Kuria
Venue: Coral room
Chairs: Steve Franzel

Farmer-to-farmer extension: a viable option to enhance agricultural dissemination? Evidence from Cameroon
Ann Degrande
Why volunteer? Insights from farmer to farmer extension in Kenya and Uganda
Evelyne Kiptot
Effective rural advisory service approaches for natural resource management practices: The case of the uptake of fodder shrubs in East Africa
Steve Franzel
What is the influence of extension methods and approaches on adoption of agroforestry practices in Zambia?
Gillian Kabwe
Agricultural research for development: implications for policy, practice and investment
Philip Dobie

6.4 Landscape approaches
Coordinator: Joyce Kasyoki
Venue: Sapphire room
Chair: Peter Minang

Landscape approaches, from concept to action: insights from 191 landscape initiatives in Africa and Latin America
Philip Dobie

Environmental services as binding pillars to synergize climate change mitigation and adaptation in rural landscapes
Lalisa A. Duguma

Are innovation platforms possible institutions for integrated natural resource management practices at the landscape level?
Verrah Akinyi Otiende

The Model Forest landscape approach: innovative territorial governance
Jean-Claude Njomkap

Is agroforestry feasible towards conservation in protected areas? An ongoing case study in rural Mexico
Victor Avila-Akerberg

6.5 Agroforestry, water quality and nutrient export
Coordinator: Ake Mamo
Venue: Ruby room
Chairs: M R Mosquera Losada and Vimala Nair

Innovative technology for water quality protection in agroforestry systems
Vimala Nair

Shade level and tree species composition affect water dynamics in coffee agroforestry systems of the Western Ghats, India
Philippe Vaast

Modelling the effects of adopting agroforestry on basin-scale surface runoff and sediment yield in the Philippines
David Wilson

Chemical attributes of a silviopastoral system with a legume tree and signal grass in the Brazilian savanna
Rodrigo Martins Alves de Mendonca

Restoring riparian vegetation – a promising means to ensure clean water
Kamal Melvani

6.6 Successful and scalable business models for agroforestry with quantified mitigation and adaptation co-benefits
Coordinators: Naomi Kanyugo and Lydia Wafula
Venue: Jade room
Chair: Henry Neufeldt

Agri-businesses reducing climate, water and community risks: landscape approaches in agroforestry systems
Gabrielle Kissinger

Potential role of exotic poplar in increasing tree cover as an alternative to forest restoration in India
Kulvir Singh Bangarwa

From a demonstration plot to an integrated resource and agricultural tourism centre. The case of MIFACIG, Belo, Cameroon
Kuh Emmanuel Loah

1530–1600
Tea/coffee break - Book launch: Current Opinion in Environmental Sustainability, Elsevier Scientific

1600–1700
Poster session 2
Venue: see map
All posters covering breakout sessions 4, 5 and 6 will be displayed. Poster presenters are required to stand by their posters, present their work and respond to participants’ questions.
Buses leave Kempinski Hotel to other hotels

**Thursday 13 February 2014**

0700–0900
Buses transport participants from hotels to Kempinski Ambience, Shahdara

**Plenary 4: The integration of science, business and development**

*Venue: Plenary Hall*

0900–0905
Welcome remarks and introduction of keynote speaker and panelists
Dr Christine Padoch: Center for International Forest Research (CIFOR)

0905–0935
**Keynote address**

**Agroforestry and the Sustainable Development Goals**

Dr **Dennis Garrity**, UNCCD Drylands Ambassador and Former Director General of ICRAF

0935–1000
Panel discussion

**Hans Friedrich**, Director General, International Network for Bamboo and Rattan
**Ranjit Barthakur**, Senior Advisor, Tata Consulting Services, Chairman, GMS and Secretary General, Club of Rome India
**Harkirat Singh Sidhu**, Landscapes Consulting Program Coordinator: India, Rainforest Alliance

1000–1025
Plenary comments

1025–1030
Wrap up

Dr **Dennis Garrity**, UNCCD Drylands Ambassador and Former Director General of ICRAF

1030–1100

**Closing session: Synthesis**

1100–1105
Summary of outcomes and the way forward

**Anthony Simons**, Director General, World Agroforestry Centre

1105–1145
Syntheses and lessons learned on business, science and development

**Meine van Noordwijk** (ICRAF), **B. Mohan Kumar** (ICAR) and **Ravi Prabhu** (ICRAF)

1145–1200
Discussions

1200–1205
**Valedictory**

Welcome to the Honourable Minister for External Affairs
Dr S Ayyappan, Secretary of the Department of Agricultural Research and Education and the Director General of the Indian Council of Agricultural Research

1210–1235
Presentation and discussion of Congress resolutions

1235–1245
Address by the Honourable Minister for External Affairs Shri Salman Khurshid

1245–1300
Vote of thanks
Ravi Prabhu, World Agroforestry Centre

Congress ends

1300–1400
Lunch
## Side events

<table>
<thead>
<tr>
<th>Event and venue</th>
<th>Sapphire</th>
<th>Jade</th>
<th>Coral</th>
<th>Turquoise</th>
<th>Emerald</th>
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<tbody>
<tr>
<td>14:00 - 15:30</td>
<td>International Union of Agroforestry (ICRAF and ICAR)</td>
<td>Agroforestry for biofuels (Navin Sharma, ICRAF)</td>
<td>Capacity development and partnership (Mehmood Hassan and Margaret Kroma, ICRAF)</td>
<td>Poplar agroforestry (International Poplar Commission)</td>
<td>20 years of ASB (Peter Minang, ICRAF)</td>
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<td>15:30 - 17:00</td>
<td>Transforming cocoa production (Christophe Kouame, ICRAF)</td>
<td>Scenarios of change for agroforestry landscapes: The Western Ghats Sentinel Landscape Initiative (Sanjay Tomar, ATREE etc.)</td>
<td>EverGreen Agriculture Network meeting (Dennis Garrity, ICRAF)</td>
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17:15
Transport of participants from Kempinski to their hotels