



5TH INTERNATIONAL CONGRESS ON PLANTED FORESTS

PROGRAM

Planted forests, an essential nature-based solution to meet growing needs in wood products, restore forest ecosystems, and mitigate climate change



7-10 November 2023

CIFOR-ICRAF CAMPUS, NAIROBI

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Welcome Message

Dear ICPF 2023 participants,

On behalf of the Organizing Committee, the Scientific Committee, the IUFRO Task Force and the EFI Research Network dedicated to planted forests, but also as Director of the IEFC, I would like to thank you for being here. After being held in Chile, New Zealand, Europe and China, it is now Africa's turn to host this global event on planted forests. The size of the challenges and opportunities for planted forests are even greater in Africa than in other continents.

Between 2017 and 2050, 26 African countries are projected to at least double their current population size. The African urban population could grow from 500 million to 1 billion in 2040 with needs in wood for construction and energy increasing sharply. To meet additional fuelwood requirements by 2050 in Sub-Saharan Africa, a mix of agroforestry and energy woodlots with a total area of 21 to 31 million ha would be required. Sub-Saharan Africa is expected to see substantial increase in housing requirements until 2050, with estimated consumption volumes of sawn wood, plywood and veneer increased by 32%.

Simultaneously, the regional momentum for restoration of degraded forests and landscapes, embedded in the African Forest Landscape Restoration Initiative (AFR100), the Great Green Wall for the Sahara and the Sahel Initiative (GGWSSI), and other national commitments provides major opportunities for restoring degraded landscapes while satisfying people's needs and improving livelihoods through planted forests, small stands and woodlots, as well as agroforestry systems.

Of the total 624 million of ha under forests in Africa, 16 million ha (about 2.5%) are considered as planted forests. In addition, 4 710 million trees are found outside of forests, including in woodlots, parks, hedgerows, fruit trees, trees growing in fields... There are many opportunities to expand the area of planted forests and to increase the productivity of existing planted forests.

First of all, I'd like to thank the government of Kenya for their welcome and facilitation of good cooperation with national agencies. This important event for the continent owes a great deal to the members of the various committees, but in particular to Ramni Jamnadass and Caren Kandie of CIFOR-ICRAF, who made the event possible in Kenya, to Faustine Zoveda and Lena Bismark of FAO, who actively contributed to the organization of the event, and to Suzanne Afanou of the IEFC, who produced all the communication materials and Adeline Lebosse who handled all registrations.

I wish all of you a constructive event and invite you to make the most of it to build long term partnership, facilitate knowledge exchange and support sustainability and resilience of planted forests all over the world, in a more and more challenging context requiring more and more expertise.

**Christophe Orazio, Director
Institut Européen de la Forêt Cultivée**

Congress Organizing Committee

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CIFOR-ICRAF, Kenya

Organizers and Sponsors

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CIFOR-ICRAF Campus



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IEFC

Food and Agriculture Organization of the United Nations (FAO)

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EFI Research Network on Planted Forests

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Kenya Forestry Research Institute (KEFRI),
Kenya Forest Service (KFS)

Ministry of Environment, Climate Change
and Forestry of Kenya



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Sessions



MEETING ROOM: CONFERENCE HALL - THEATRE

SESSION 1:

Plantation in new business models: investing into wood production restoring ecosystem services and enhancing livelihoods.

SESSION 2:

Societal perception of plantations and governance.

SESSION 3:

Planted forests and trees, a critical option for and ecosystem restoration.

Session 3a: Best practices and innovations for the sustainable management of planted forests.

Session 3b: Planted forests in productive, resilient and restored landscapes.

SESSION 4:

Planted forests in a decarbonized bioeconomy.

SESSION 5:

Planted forests facing global change risks.

SESSION 6:

Optimizing trade-offs across ecosystem services: towards new models of management.

[Download the Book of Abstracts](#)

TUESDAY
7 NOVEMBER

JOIN THE
CONVERSATION
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AGENDA - TUESDAY - 7 November 2023

Start Time	End Time	Sessions	Name of Presenter	Abstract Title
07:30 - 09:00		REGISTRATION		
09:00 - 09:30		OPENING PLENARY & GROUP PICTURE		
09:30 - 10:00		Coffee break		
10:00 - 12:00		<p>Session 1: Plantation in new business models: investing into wood production restoring ecosystem services and enhancing livelihoods.</p> <p>Chair: Marco Boscolo</p>	Selim Reza and Nellie Oduor	A community led bamboo charcoal enterprise development initiative in Busia, Kenya
			Anna Ioannou	Challenges and enablers for landholder-supporting projects to access the voluntary carbon market and carbon credit payments
			Hubert Inhaizer	How PEFC responds the topic of forest plantations in the context of global challenges addressed through national initiatives to meet growing needs in wood products, restore forest ecosystems, and mitigate climate change
			Nick Embden	Lessons from 30 years of investments in African commercial forestry and what this means for future investments to achieve sector transformation
			Issa Katwesige	National Incentives Schemes for Commercial Forestry Plantations in Uganda
			Rodney Keenan	The business case for trees on farms
			Jacek Siry	Transforming African forest plantations into mainstream, globally demanded timberland investment opportunities: developing a business model that works.
			Margreet Muizenbelt	Using the carbon market to help smallholder farmersto switch to agroforestry
			Sammy Letema	The Status, Operational and Institutional Arrangements of Private Forestry in Kenya
12:00 - 13:15		Lunch break		
13:15 - 15:15		<p>Session 2 - Societal perception of plantations and governance</p> <p>Chair: Grace Villamor</p>	Joram Kagombe	An assessment of the policy and legislative frameworks to upscale commercial forestry in Kenya
			Sarah Juster	Comparing Tree-Based Interventions in a Uganda Refugee Settlement
			Lucie Félicité Temgoua	Creating local forest plantations: Can farmers make a difference in western Cameroon?
			Batachoka Mastaki Daniel	Perceptions locales et utilisation des espèces des forêts plantées dans le territoire de Walungu en République Démocratique du Congo

Start Time	End Time	Sessions	Name of Presenter	Abstract Title
13:15 - 15:15		Session 2 - Societal perception of plantations and governance	Subhash Chander	Policies for promotion of Tree Plantations in Haryana, India
			Joram Kagombe	Potential of Small Scale Tree growers in On-Farm Plantation Development: Case of Nyandarua TreeGrowers Association in Kenya
			Cecily Cyparsade	Promoting inclusive forestry through policy and legislative revisions in the Republic of Mauritius
			Grace Villamor	Public perception of plantation forests for energy – a case from New Zealand
15:15 - 15:45		Coffee break		
15:45 - 18:15		Session 3b - Planted forests in productive, resilient and restored landscapes Chair: Koen Kramer	Muhanguzi Hosea	An assessment and monitoring of restoration planting in remnant natural forests in the lake Victoria Crescent, Uganda
			Belachew Gizachew	Australian tree species and provenances in Ethiopia - The case of Eucalyptus globulus plantations
			Dr Saleh Alzamanan	Challenges and opportunities for planted forests in dry ecosystems: the experience of Saudi Arabia
			Peter Angaine	Morphometrics of Pinus patula crown and its effect on cone characteristics and seed yield in Kenya
			L. Ndalilo	On-farm forestry: A key strategy for enhancing tree cover in the Western Region of Kenya
			Francis Chilimampungu	Planted Forests In Malawi
			Edmond Clark Tsiresy	Planting eucalyptus: solution to fight against tree cutting as part of the development of the biodiversity PES mechanism of the Anja Miray basic community Ambalavao Madagascar
			Nivo Malalatiana Randriambao	Reforestation in Madagascar
Mr Alex Amanyia (Senior Project Manager, Uganda) and Ms Sheila Garakara (Zambia Country Manager)	Restoring our Forests to Enhance Food Security and Improve the Livelihoods of Smallholder Farmers in East and Southern Africa			

WEDNESDAY
8 NOVEMBER

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FIELD VISIT

AGENDA - WEDNESDAY - 8 November 2023

Start Time	End Time	Itinerary 1 Field Visit to KEFRI and Kinale
08.30 AM		ASSEMBLE FOR DEPARTURE FROM ICRAF CAMPUS
08:30	09:15	Travel to Muguga
09:15	10:15	Visit seed centre, Tree nurse in Muguga
10:15	11:00	Visit laboratories and KEFRI Hqs
11:00	11:30	Health break
11:30	12:15	Travel to Kinale
12:15	14:00	Visit Forest plantations
14:00	14:30	Lunch break
14:30	15:15	Visit Community Association
15:15	16:00	Travel back to ICRAF
16:00		End of program

Start Time	End Time	Itinerary 2 Field Visit to Kiambu and Githunguri Sub Counties-Small Holder Forestry
08.30 AM		ASSEMBLE FOR DEPARTURE FROM ICRAF CAMPUS
08:30	09:15	Travel to Karura KFS HQ
09:15	10:30	Courtesy call to the CCF and Visit the Tree nurse in Karura
10:30	11:00	Health break
11:00	13:00	Travel to and visit Kerein Gathanje farm, Kiiria farm, Githunguri Farm (Githunguri Sub County)
13:00	14:00	Lunch break
14:00	16:00	Travel to and visit Kinunga farms (Kiambu Sub County)
16:00	17:00	Travel to ICRAF

FIELD VISIT

AGENDA - WEDNESDAY - 8 November 2023

Start Time	End Time	Itinerary 3 Field Visit to Kiambu County, Gatundu North Chtga
08.00 AM		DEPARTURE - ROUTE THIKA ROAD
8:00	09:00	Travel Via Limuru road - Muthaiga Thika Super highway - Witeithie town - Ndiko Shopping centre
09:00	09:30	Visit private tree nursery (Charles Nyanjui Tree Nursery)
09:30	10:15	Drive to Gachege Tea Factory
10:15	12:30	KTDA Gachege Tea Factory Tour
12:30	13:30	Lunch break
13:30	15:00	Visit to woodlot farmers
15:00	16:30	Back to Nairobi – route Thika Road

THURSDAY
9 NOVEMBER

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AGENDA - THURSDAY - 9 November 2023

Start Time	End Time	Sessions	Name of Presenter	Abstract Title
09:00 - 10:40		Session 4: Planted forests in a decarbonized bioeconomy Chair: Faustine Zoveda Co-chair: Manitralla Rasoanaivo	Nick Embden	Africa's housing needs as an opportunity to drive investment at scale into sustainable forestry
			John N. Kigomo	Allometric equations to estimate potential biomass and carbon stocks for on-farm bamboo species in agricultural landscapes of Kenya
			Norman W. Wairagu	Bio-pesticide activity of Commiphora africana dichloromethane resin extract against Cimex lectularius (bedbugs)
			Vincent Gitz	Bioeconomy development and planted forests
			Valters Samariks	Can prolonged rotation in combination of forest drainage be a solution to increased carbon storage in Scots pine forests on organic soils of hemiboreal region
			Serajis Salekin	Carbon sequestration potential of plantation forests tree species in New Zealand: A comparative study
			Victor Jaoko	Isolation and chemical characterization of biopesticides from Melia volkensii against fall armyworm, Spodoptera frugiperda, and red flour beetle, Tribolium castaneum
			Sara Bergante	Life Cycle Assessment (LCA): new poplar clones allow an environmentally sustainable cultivation
			Koen Kramer	Modelling carbon capture by line-seeded reforestation sites in Australia.
			Jessica Richter	Spatial Database of Planted Trees v2.0
10:40 - 11:00	Coffee break			
11:00 - 12:30		Session 3a: Best practices and innovations for the sustainable management of planted forests Chair: Jean-Paul Laclau	Margarida Tomé	ARF@pt - A tool to support landowners' and policy decisions
			Daniel Dompreeh	Assessing Cocoa farmers' perception on the phenological changes and resilience of five selected shade trees: a strategy for mixed plantation and an ecosystem restoration in the Adansi North District and Offinso Municipality of Ghana
			Mostarin Ara	Assessment of soil nutrients and understory vegetation composition in pure vs mixed spruce-aspen forests
			J. G. Kariuki	Breeding of Melia volkensii: Establishment of Clonal Seed Orchards and Subsequent Progeny Trials in Kenya
			James K. Ndufa	Effects of different tree spacing on growth performance of Melia volkensii stand planted in two sites in drylands of Kenya
			Abebe Damtew	Enhancing Planting Success of Native Trees in Dry Tropical Areas: implications for Restoration
			Alice Adongo Onyango	Influence of cone physical characteristics and extraction exposure duration on seed yield of Pinus Patula
12:30 - 14:00	Lunch Break			

Start Time	End Time	Sessions	Name of Presenter	Abstract Title
14:00 - 15:00		Session 3a: Best practices and innovations for the sustainable management of planted forests Chair: Jean-Paul Laclau	Pauls Zeltins	Solution for climate-smart forestry of Norway spruce combining tree breeding and silviculture
			Hervé Jactel	The importance of tree species diversity for the resistance of planted forests to insect damage
			Roman Plichta	The influence of tree composition and diversity on the microclimate of planted forests
			Hui Wang	The non linear relationship between tree species richness and top soil organic carbon stock in a subtropical mixed-species planted forest
			Radim Matula	Varying effects of composition and diversity on growth and resilience of common European tree species in forest plantations
15:00 - 16:00		Session 5: Planted forests facing global change risks Chair: Hervé Jactel	Jane Njuguna	Declining Tree Health in Exotic Forest Plantations: Exploring the Potential for Indigenous Tree Species for Sustainable Forest Plantation Development in Kenya
			Jean-Paul Laclau	Drought-adaptive mechanisms in Eucalyptus grandis plantations: key findings from 10 years of intensive monitoring in a through fall exclusion experiment
			Angela Muthama	Pest risk survey of Cupressus lusitanica in Rift Valley region of Kenya.
			William Kwame Nuako Bandoh	Physical and biotic factors for modelling site selection of rosewood plantation and seed orchards establishment in Ghana.
16:00 - 16:30		Coffee break		
16:30 - 17:30		Session 5: Planted forests facing global change risks Chair: Hervé Jactel	Jane Njuguna	Pests and Diseases Affecting Mangrove Forests: A Case of Lamu and Kilifi Counties, Kenya
			Mitchel Oluoch	Resilience of commercial tree species in planted forests of Kenya
			Susana Barreiro	Simulating the impact of insect defoliations to assist forest management in eucalypt plantations in Portugal
			Brett Hurley	Successes, challenges and future prospects for forest pest surveillance and management to protect Africa's forest resources
			Abubakari Munna	The Right Tree in the Right Place: Mapping and Predicting Global-scale Suitable Areas for Marula tree, Sclerocarya birrea, (A. Rich.) Horchst, subspecies Cultivation, Conservation, and Use in Restoring Global Drylands
19:00		Gala dinner - 1st Floor Atrium of the Trademark Hotel, Gigiri		

FRIDAY 10 NOVEMBER

JOIN THE
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AGENDA - 10 November 2023

Start Time	End Time	Sessions	Name of Presenter	Abstract Title
09:00 - 10:00		Session 2: Societal perception of plantations and governance	Gary Dunning	Key Learnings from a Yale University/FAO Webinar Series on Smallholder Planted Forests and Trees for Climate, Restored Landscapes, and Livelihoods
			Rishav Rawal	Assessment of resilient restoration practices for biodiversity conservation by plantation of community forest in Darma valley of Kailash Sacred Landscape, India
		Session 6: Optimizing trade-offs across ecosystem services: towards new models of management Chair: Christophe Orazio	Michael Likoswe	Building resilience of ecosystems and people's livelihood through afforestation: The case of Lake Chilwa Basin in Malawi
			Mduduzi Tembani	Estate plantations and small scale woodlots: two models of planted forests with different implications for sustainability and livelihoods in Zimbabwe
			Himlal Baral	Revisiting ecosystem services from planted forests
10:00 - 11:00	Coffee break			
11:00 - 12:30		Digital Forum + Concluding session <u>Online stream</u>	Introduction of the Moderator: Gary Dunning , Executive Director of The Forests Dialogue and The Forest School at the Yale School of the Environment	
			Welcoming remarks by Eliane Ubalijoro , Chief Executive Officer of the Center for International Forestry Research and World Agroforestry (CIFOR-ICRAF) and Director General at ICRAF	
			Keynote address by Hon. Soipan Tuya, Cabinet Secretary, Ministry of Environment, Climate Change and Forestry of Kenya Planted Forests in Kenya: Challenges and opportunities	
			Launch of FAO's Unasylva #254, special edition on planted forests , by Faustine Zoveda, Forestry Officer at FAO	
			Achievements and perspectives of the IUFRO Task Force "Resilient planted forests serving society & bioeconomy" , by Task Force Coordinator Christophe Orazio	
			Panel discussion: Outcomes of the ICPF 2023	
			<ul style="list-style-type: none"> • Philip Kisoyan, Natural Resources Management Officer, FAO Kenya • Grace Villamor, Research Group Leader, Economy and Society, Scion • Jean-Paul Laclau, Director of the PERSYST department, CIRAD • Koen Kramer, Director of science, Land Life Company • Manitralla Rasoanaivo, Biodiversity and FLR projects coordinator, FAO Madagascar • Hervé Jactel, Director of Research, INRAE 	
Q&A and discussion				
Closing remarks by Carla Mucavi , FAO Representative in Kenya				
12:30	Lunch break			



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