

International Conference on Research on
Food Security, Natural Resource Management and
Rural Development



Tropentag



2024

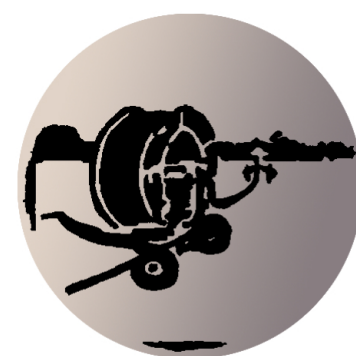
Explore opportunities
for managing natural resources
and a better life for all

Programme

Wednesday - Friday, Sept. 11-13, 2024
BOKU University
Vienna AUSTRIA

www.tropentag.de

Organised by:



Welcome

Dear participants of the Tropentag 2024 conference,

Tropentag is Europe's largest trans- and interdisciplinary conference focusing on research in tropical and subtropical agriculture, natural resource management, and rural development. Bringing together experts from over 77 nations is a crucial platform for discussing global challenges.



The theme of Tropentag 2024, ***'Explore opportunities ... for managing natural resources and a better life for all'***, is not just a theme but a call to action. It urges us to come together and explore sustainable solutions for managing natural resources and improving lives. After 2016, BOKU University, in cooperation with the Council for Tropical and Subtropical Research (ATSAF e.V.), Tropentag 2024 will host you on the BOKU Türkenschanze campus in Vienna's 19th district.

This year's conference will address the transformation of agriculture and food systems, climate change adaptation, environmental conservation, and the United Nations Sustainable Development Goals (SDGs). Additionally, it will focus on social and technological innovations and gender-based inequalities in natural resource management.

Over 70 sessions and in addition, 30 workshops will focus on a range of critical topics, including agroecology and sustainable resource management practices, livestock management and human well-being, food systems for sustainable diets and health, sustainable water and fisheries management, climate change adaptation and resilience, forestry, environmental conservation, and ecosystem services. Additionally, gender and intersectional perspectives in the governance of natural resources, the multiple crises involving political, institutional, and economic structures and challenges, and social and technological innovations for implementing the SDGs will be critical this year. We are excited to present almost 500 oral and poster presentations from young scientists and seasoned experts, global and inspirational keynote speakers, and several side events designed to foster rich dialogue and collaboration.

We sincerely thank all participants, speakers, and organizers, especially our colleagues and students at ATSAF and BOKU University. Your contributions are vital to the success of this conference and our shared mission for a sustainable future.

We warmly welcome you to Vienna and wish you an interesting Tropentag 2024.

Vienna, September 2024

On behalf of the Tropentag 2024 organising team:

Andreas Melcher, Katharina Keiblinger, Stefan Strohmeier, Andreas Bauer, Julia Männle, and Eric Tielkes

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...some data

We have received more than 800 scientific abstracts, and almost 500 oral and poster presentations have been accepted by reviewers. Out of this, 100 oral presentations are given in 26 sessions and 400 posters are presented in 45 poster sessions. Eight invited speakers will cover and highlight the conference's overall theme.

There will also be 22 pre-conference and seven post-conference workshops to deepen the divers and open discourse of the conference.

Good to know



Registration desk & conference office

The conference office with the registration is located in the SR04 in the entrance hall on the ground floor of the Franz-Schwackhöfer-Building (SCHW) (Peter-Jordan-Straße 82).



Address:

BOKU University
Franz-Schwackhöfer-Building (SCHW)
Peter-Jordan-Straße 82
1190 Wien
Austria
GPS coordinates 48.238, 16.33194
E-Mail: info@tropentag.de

Opening hours of the conference office: Tuesday – Friday between 08:00 – 19:00

You can come here any time in case of questions or suggestions



Luggage storage

Luggage can be stored at your own risk in the conference office free of charge.



Wireless internet

WIFI is available throughout the conference venue:

- Network: BOKU-Public-Event
- User: h93400_tt24
- Password: Wifi@TT24
- Eduroam (if a member of the eduroam community)



First Aid / Emergency

International emergency call: 112

Police: 133

Fire Brigade: 122

Ambulance: 14

First room, Aid Kits, and defibrillators are available at the registration desk and the porter at the venue's main entrance, Wilhelm-Exner Building.



Online programme

You can find the conference programme also on the whova application:
https://whova.com/portal/webapp/trope_202409/Agenda



Coffee breaks / Please use your own mug for beverages.

Coffee, tea, water, snacks and fruits are available free of charge:

Aula of the Franz-Schwackhöfer-Building (SCHW) and at the Ilse-Wallentin-Building (ILWA).



Lunch

Lunch can be purchased at these locations:

On-campus:

- Mensa TÜWI-Building- Peter-Jordanstraße 76 (capacity 200 plates)
- Mensa Box at the ILWA-Building – Peter-Jordanstraße 82 (capacity 50)
- TÜWI Beisl (student café) TÜWI-Building – Dänenstraße 4 (capacity 100)
- Food truck "I eat Vienna" in front of the venue, EXNH-Building.

Off-campus:

- Kebab in front of TÜWI-building at crossroad Peter Jordan/Dänenstraße
- Meister Xiao (Chinese Restaurant)- Gersthoferstraße 70 (8 min by foot)
- Spumante (Italian Restaurant)- Gersthoferstraße 71 (8 min by foot)
- Salettl-Pavillon- Hartäckerstraße 80
- Meierei Diglas Türkenschanzpark (Café/Restaurant)- Hasenauerstraße 56 (Closed on Tuesday)



Prayer room/room of silence

A room is available in the Franz-Schwackhöfer Building on the ground floor, SR08.



Parent-child

BOKU University does provide child-care during Wednesday and Thursday

08:00 – 17:00.

If you might be interested in this free offer, please visit the conference office.



Any question? Do ask the persons at the registration desk or the persons wearing blue T-shirts and Tropentag badges!

Student reporters

This year, TROPENTAG student reporters will report live from the different sessions on different social media - TROPENTAG blog, Facebook, Flickr, Insta, YouTube,...

<http://blog.tropentag.de/>

<https://www.facebook.com/atsafev>

<https://www.flickr.com/photos/tropentag/>

https://twitter.com/atsaf_ev

<https://www.youtube.com/@atsaf>

https://twitter.com/atsaf_tropentag

https://www.instagram.com/atsaf_ev/

What you should know about the oral and poster presentations

Oral presentations

All oral presentations should be uploaded until 10.09.2024 00:00 to BOKU Drive: <https://drive.boku.ac.at/u/d/13439a3b47c048e7be2e/> in emergent cases an upload is possible at the latest 2 hours before the presentation only at the registration desk. Presentations will be accepted only as **MS Powerpoint presentations or stand-alone presentations (PDF or JPG, 16:9 aspect ratio recommended)**. In order to ensure a correct presentation, we recommend showing the presentation as a PDF. All presenters must keep the planned 10 minutes of presentation time and 5 minutes of question time. A chairperson in each session will ensure that the time schedule is kept.

The oral presentations will be held in the Ilse-Wallentin (ILWA) and the Wilhelm-Exner building (see map on pages 9-11 of this programme).

Poster presentations

The guided poster presentations will be held in the Ilse-Wallentin (ILWA) building and the Seminar room SR09 in the Franz-Schwackhöfer (SCHW) building. Please have a look at the maps on pages 9-11. The poster presenter should shortly introduce the poster / outline the main message in not more than 3 minutes; subsequently, there will be time for a short discussion. Be prepared for your poster session. Poster fixing material is available in the poster rooms. Please make sure to hang your poster immediately after registration. An ID and Name will indicate the Place to hang your poster.

All online poster sessions can be followed via the whova application, and these sessions will also be streamed in Wilhelm-Exner-Building (EXNH) EH01 and EH03.

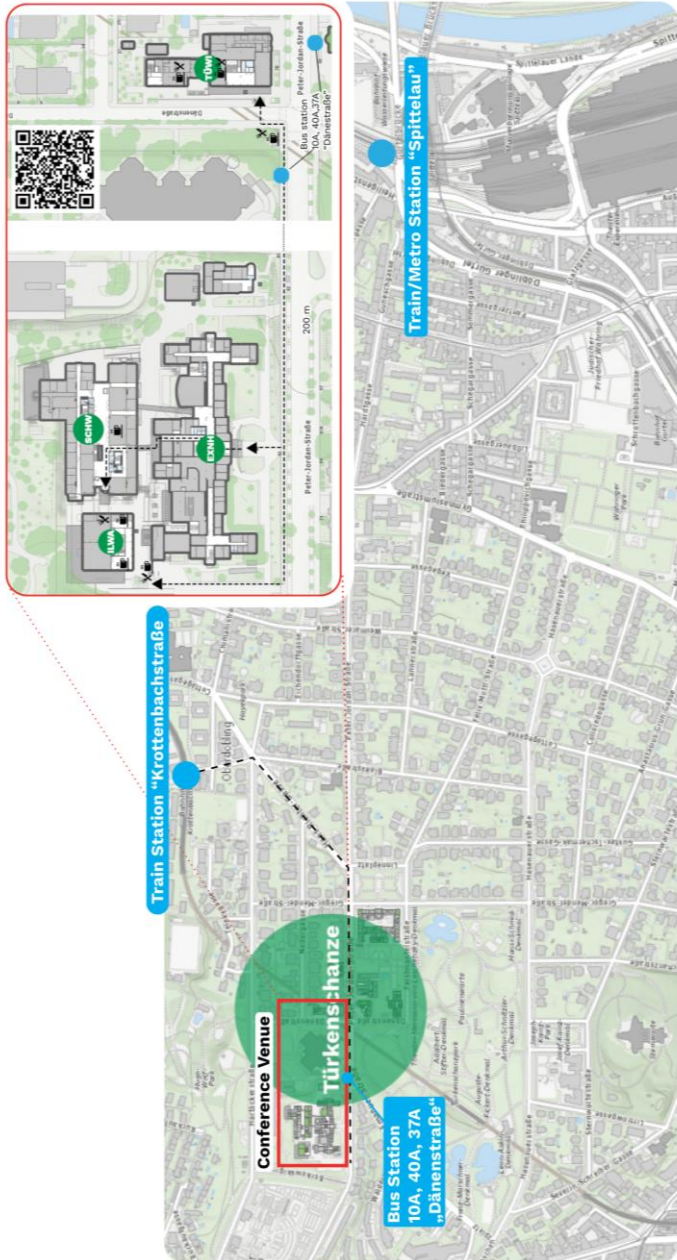
Apples

We offer you freshly picked organic apples from the BOKU experimental station Jedlersdorf. Last week, the organisation team picked 1000 kg of apples for you 😊. The apples come directly from the orchard so please wash the apples before eating.

Directions Conference Venue

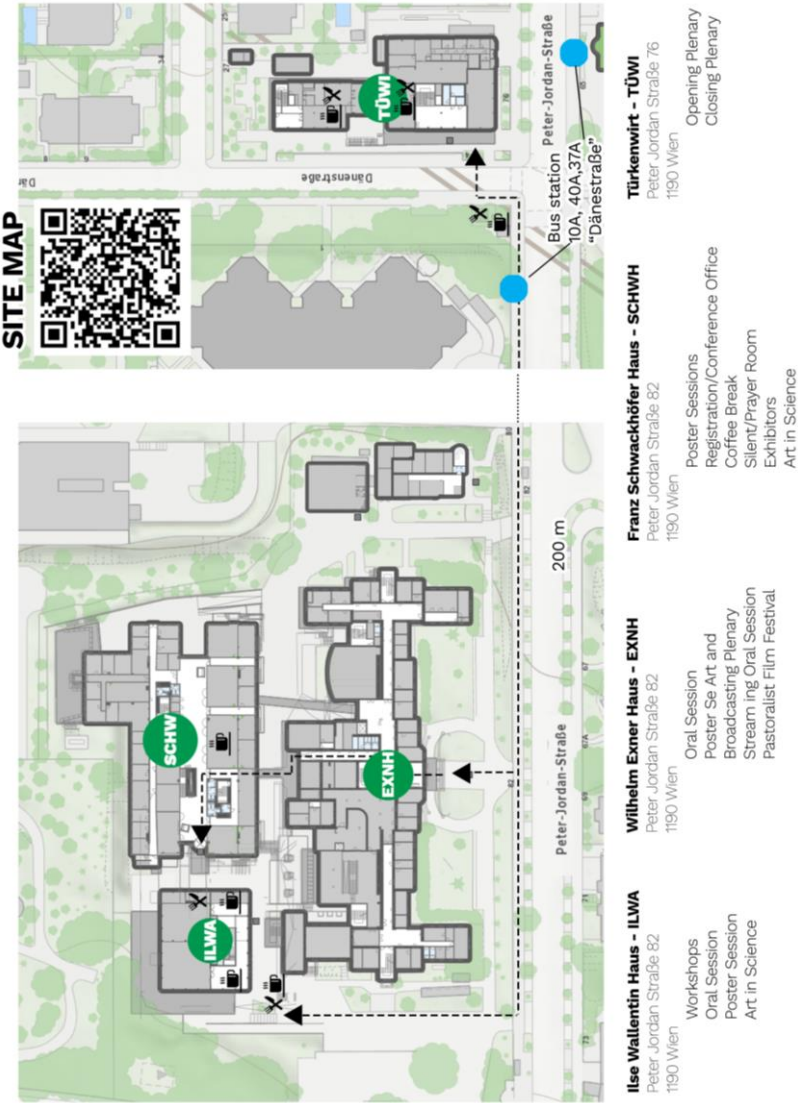


TROPENTAG 2024
VIENNA AUSTRIA

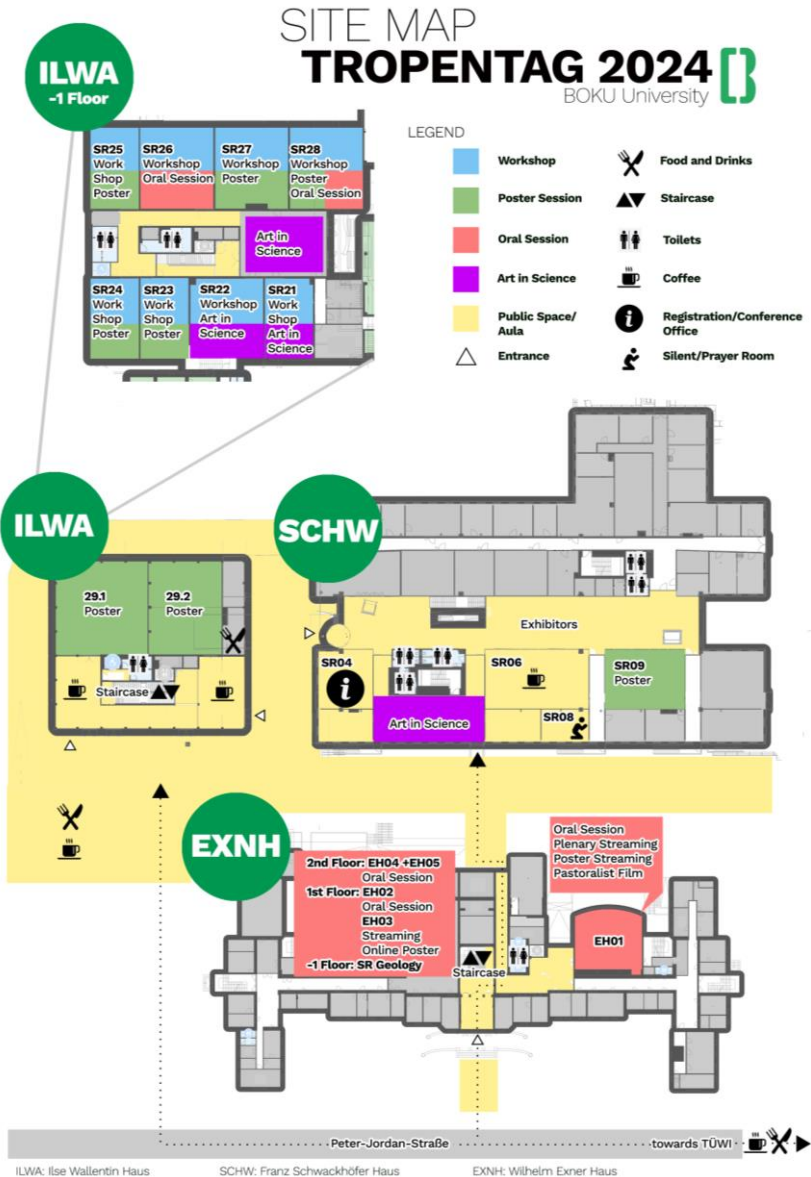


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BOKU University - Türkenschanze



BOKU University – Conference Venue



Tropentag's Art in Science (ILWA SR21 & 22, SCHW Entrance hall)

The arts are becoming a powerful medium for deepening the scientific process and communicating complex information to the public. In development-oriented research, scientists engage in new cultural settings and interpret local realities in framing their research projects. In doing so, scientists must learn to adapt to new environments and develop cultural sensitivity. The arts can help scientists decolonize knowledge production practices and enable scientists to engage more deeply with local stakeholders. Moreover, the arts have the potential to strengthen the voices of farmer communities while being in dialogue with scientific observations, to communicate these with urgency to a broader public, and thereby give back to the people who make our research possible.



Full program is available here

At this year's Tropentag conference in Vienna, we are again bringing an artistic twist to science at our Art in Science event supported by the Institute and Cluster for Development Research (IDR, CDR) and the Austrian Development Agency (ADA). An exciting program of activities awaits visitors, including an exhibition of exquisite artworks, audiovisual screenings, a film festival, and a workshop on art-based scientific practices and communication. The program aims to encourage scientists to engage with arts-based research and produce compelling results capable of reaching a non-academic audience. We believe that bringing creativity and cultural sensitivity to international development-oriented research can help scientists overcome some of transdisciplinary research's many gaps and limitations and enable close collaboration with local stakeholders.

This year's *Art in Science* space consists of the following elements:

(1) Audiovisual Exhibition

GIOVANNA CHAVEZ-MIGUEL, JANIKA HÄMMERLE

An immersive exhibition space will host an exciting curation of audio-visual works, including photo stories, short films and podcasts by various artists, related to traditional farmer livelihoods in the context of extractivism and land use conflicts. The exhibition will be open to Tropentag participants throughout the conference.

11.–13.09.2024 | 12–End | ILWA SR21

(2) Walk-in Photo Gallery

MICHAEL BÜNTRUP, MARCO HÖDTKE, GIOVANNA CHAVEZ MIGUEL

The non-profit association "Let's Plant", in cooperation with Tropentag, organizes an annual photo competition on the theme "Visualizing the restoration of degraded land through a holistic landscape management approach in the tropics or subtropics". A selection of the winning images from previous years, including tree

planting, forest and landscape restoration, and of course local people living in and using such landscapes, will be presented in a walk-in gallery. For more information visit: www.lets-plant.org/projects#photocontest
10.–13.09.2024 | all day | ILWA SR22

(3) Agroecology Film Festival (2nd Edition): Struggles to Persist

GIOVANNA CHAVEZ-MIGUEL, JANIKA HÄMMERLE, PILAR EGÜEZ GUEVARA

In our second edition of the Agroecology Film Festival, Tropentag will present a program of short films and series stemming from collaborations between scientists and filmmakers in Africa and Latin America. The films highlight the relevance of local efforts to safeguard landscapes and their agrobiodiversity while exposing the multiple threats that communities face in the process.

This year we have Ecuador as our host country with a series of short films and a mini-series by Comidas que Curan - an independent collaborative project by a team of anthropologists, educators and filmmakers documenting and valorizing the invaluable culinary cultures and healing knowledge of Ecuador and Latin America. The Agroecology Film Festival will be inaugurated on Tuesday, September 10th at 18:00 in the ILWA (SR22), followed by a lively discussion and Q&A session with the scientist behind the film and a social gathering in the foyer.

Film Festival: Third Edition of Perspectives on Pastoralism Film Festival at the Tropentag 2024 | Wednesday 11.09.2024 | 19:30 – 22:00 | EXNH EH01

ANN WATERS-BAYER, FRANCESCA PASETTI, REGINA RÖßLER

To celebrate the International Year of Camelids 2024 (www.fao.org/camelids-2024), the Perspectives on Pastoralism Film Festival presents short films on camelids – camels, dromedaries, alpacas, llamas, vicunas and guanacos – in tropical areas of Africa, Asia and the Andes.



These documentary films seek to deepen understanding of how pastoralist communities gain their livelihoods in dryland and mountainous areas from mobile systems of camelid husbandry. They show the close relationships of the pastoralist men, women and children with their livestock and environment, and how they contribute to sustainable land management through ecologically appropriate use of the resources with well-adapted animals. The films depict camelid husbandry, breeding and trade. They reveal the economic challenges faced by camelid-keepers, especially in gaining fair prices for their products, and the initiatives that pastoralists are taking to improve the local economy and community wellbeing.

title of film	country of filming	filmmakers	production year
International Year of Camelids (ILC) 2024	global	FAO	2023
<i>Caravanas de las alturas</i> (Caravans of the heights)	Argentina	BIBIANA VILÁ	2019
Living with alpacas in the Peruvian Andes	Peru	MARK MICHEL	2022
The Kumbhalgarh Raika story	India	LOKHIT PASHU PALAK SANSTHAN	2017
The move	India	PINAR EKINCI	2023
Old craftsmen	Iran	MOHSEN SIAHRIZI	2023
The last of their kind: Turkey's nomads	Turkey	NEVIN SUNGUR & GUN- NAR KÖHNE	2022
Tarlamt: salt caravan to Bilma	Niger	SARAH LUNAČEK	2024 (filmed 2000)
International Year of Rangelands & Pastoralists	global	PATRICK AUGENSTEIN & TSEELEI ENKH-AMGALAN	2023

After the films will be a discussion with filmmaker Sarah Lunaček and other researchers and practitioners in camelid pastoralism.

The Perspectives on Pastoralism Film Festival (www.pastoralistfilmfestival.com) is organised on behalf of the Coalition of European Lobbies for Eastern African Pastoralism (CELEP) by DITSL (German Institute for Tropical & Subtropical Agriculture), Agrecol Association for AgriCulture & Ecology and Vétérinaires Sans Frontières (VSF) Belgium. The 1st edition was launched at Tropentag 2019 in Kassel, Germany, and the 2nd at Tropentag 2022 in Prague, Czechia. This 3rd edition for Tropentag 2024 in Vienna, Austria, prepared together with colleagues in the International Support Group for the IYRP 2026, includes a special thematic focus on camelids, to celebrate the International Year of Camelids in 2024.

The exhibitors

You will find the exhibitors in the foyer on the ground floor of the Franz-Schwackhöfer-Building (SCHW).

- Dipartimento di Scienze e Tecnologie Agrarie, Alimentari, Ambientali e Forestali (DAGRI) Università degli Studi di Firenze | <https://www.dagri.unifi.it/index.html?newlang=eng>
- Federal Ministry of Food and Agriculture (BMEL) | www.bmel.de/en
- Federal Office for Agriculture and Food (BLE) | www.ble.de/en
- Research Institute of Organic Agriculture (FiBL) | <https://www.fibl.org/en/>
- Austria's Agency for Education and Internationalisation (OeAD) | <https://oead.at/en/>
- Austrian-African Research Network (Africa-UniNet) | <https://africa-uninet.at/en/>
- University of Hohenheim and Hohenheim Center of Global Food Security and Ecosystems (GFE) | <https://gfe.uni-hohenheim.de/en>
- The European Alliance on Agricultural Knowledge for Development (Agrinatura) | <https://agrinatura-eu.eu/>

Programme overview Tuesday 10.09.2024

13:30-19:00 *Pre-registration of participants* *Aula Franz-Schwackhöfer-Building (SCHW)*

11:30-14:00 *Lunch break*

14:00-18:00 Pre-conference workshops

W2: Structures, processes and impacts of migration on agriculture, food security and (rural) development in West Africa | ILWA SR22

W3: Beyond Carbon Credits - Reflecting on Offsetting Practices and Exploring Climate Strategies for a Better Life for all – The BOKU University Approach | ILWA SR23

W4: Experience Exchange: Lessons learned from Higher Education. | ILWA SR25

W5: Integrating Gender and Socio-Technical Bundling Approaches for Climate-Resilient Agrifood System Innovations | EXNH EH05

W6: Systems Analysis and Design of Agri-food Systems in a Changing Climate | ILWA SR27

W7: Organisational development for researchers - “step up for researchers” | ILWA SR22

W8: Valuation of agricultural ecosystem services | ILWA SR25

W25: BRIDGE! Practitioner Circle: Pastoralism- A platform to share findings relevant for development practice in pastoralism | EXNH EH04

15:30-16:00 *Coffee and tea break* *Aula SCHW & ILWA*

18:00-open end *Art in Science Opening night: Film Screening, Q&A with Filmmakers and social gathering* *ILWA SR22*

Opening Night Art in Science– 18:00 at ILWA SR22

18:45 – 19:15 Film Screening “A place once called home” (30 min)

A film by DEJI AKINPELU

Agriculture and, more recently, sustainable agriculture in Nigeria, is an industry that employs most of the country’s population. Most recently, anecdotal reports reveal that effects of climate change and increase in banditry, terrorism and conflicts between farmers and pastoralists have added to the list of challenges hampering agricultural sustainability in the country. Over 300,000 people (mostly from farming communities) have been displaced in four states (Benue, Plateau, Nasarawa and Taraba) because of conflicts between farmers and pastoralists in the last five years.

Furthermore, as at February 2023, there were about 2.4 million internally displaced persons in Nigeria (IOM, 2023). To date, no research has been carried out to understand the nature, scope and intensity of farmers' displacement, the resulting livelihood transformation as well as the impact of forced displacement on sustainable agriculture.

The documentary "A place once called home" is one of the outputs of a research project that aimed at investigating the extent to which the highlighted factors - climate change, terrorism and farmer/pastoralist conflict- have contributed to forced displacements and understand how farming communities are transforming their livelihoods.

The film highlights the lived experiences of farmers, reasons for forced migration and displacement and resulting livelihood transformation in Nigeria.

19:30 – 20:00 Film Screening **"The potato guardians"** (30 min)

A film by ATSAF PhD scholar, GIOVANNA CHAVEZ-MIGUEL

During her PhD, Giovanna decided to put her creativity in action and accompany her research with film. For her, telling the story of Andean farmers maintaining over 4.000 varieties of potatoes, could hardly be done with ordinary scientific approaches. A much richer story was hiding in the depths of the Andes – for which she would need cameras, a drone, and the support of an intradisciplinary team of creative scientists willing to visualize different aspects Andean food systems with her. Her short film was realised with the support of farmer communities, potato conservationists' association AGUAPAN, the International Potato Center and ZALF, and was financed by the GIZ/BMBF through the ATSAF PhD scholarship.

20:00 – 20:30 Q&A with scientists behind the films: OLAYINKA AJALA and GIOVANNA CHAVEZ

20:30 onwards Social gathering (ILWA Basement -1)

TUESDAY 10.09.2024

Programme overview Wednesday 11.09.2024

from 08:00 *Registration of participants* *Aula Franz-Schwackhöfer-Building (SCHW)*

All day **Art in Science:** Photo exhibitions ILWA SR22
SCHW

08:45-11:45 Pre-conference workshops

W9: Art-based and participatory research methods for integrating community voices | ILWA SR22

W10: Knowledge management for sustainable agriculture in sub-Saharan Africa | ILWA SR21

W11: Forgotten crops, overlooked actors and participatory research: unlocking the potentials of value chains for transforming food systems | ILWA SR26

W12: Exploring Participatory Methods in Livestock Research: empowering livestock keepers through research | ILWA SR25

W13: Decolonising knowledge and practice in agricultural research | ILWA SR24

W14: Fieldwork in countries facing protracted crises | ILWA SR24

W15: How to foster food and nutrition sovereignty in Africa through a multi-actor food system approach. Exchanging lessons and best practices from ten HealthyFoodAfrica Food System Labs | ILWA SR27

W16: I-CLEANED - a tool for prioritizing profitable, environmentally sustainable and inclusive livestock interventions, through participatory assessment of multi-dimensional environmental impacts | ILWA SR27

W17: Behavioural Change towards Food-system Transformation | ILWA SR23

W18: Scaling outputs and impact: Experiences from the Task Force on Scaling (2015-2024) | ILWA SR28

W19: Food Environment data for food system transformation – From Science to Decision | SR Geologie

W28: Nature Conservation, Land Grabbing, and Indigenous Peoples' Rights: Maasai in Northern Tanzania are defending their own vision for conservation and sustainable livelihood | EXNH EH05 and online

W32: Technologies and Methodologies to Scale up Climate Smart Agriculture in India | **online only** (access via the whova platform)

09:45-10:15 *Coffee and tea break* *Aula SCHW & ILWA*

11:30-13:00	<i>Lunch break</i>	
12:30-end	Art in Science: Agroecology Film Festival	ILWA SR21
13:00-13:30	Plenary – Welcome Addresses and Opening	TÜWI HS01
	<i>Streaming of the Plenary</i>	EXNH EH01
13:30-15:00	Keynote speeches and discussion	TÜWI HS01
15:00-16:15	Hans H. Ruthenberg Award for Graduates 2024	TÜWI HS01
	Herman Eiselen Science Award 2024	
16:15-17:00	<i>Coffee and tea break</i>	<i>Aula SCHW & ILWA</i>
17:00-18:30	Parallel oral thematic sessions I	EXNH EH01 – 05
		ILWA SR26
		ILWA SR28
17:15-18:45	Pre-conference workshops	ILWA SR27
W30: Key insights and challenges for sustainable intensification in Africa: issues addressed, issues emerging and steps ahead I ILWA SR27		
18:30-22:00	<i>Apéro / Social gathering</i>	<i>Aula SCHW & ILWA</i>
		<i>ILWA SR29</i>
19:00-20:00	Meet & Greet: discussion rounds of junior scientists with keynote speakers and stakeholders	ILWA SR28
19:30-21:00	ATSAF e.V. members assembly (hybrid) – closed	ILWA SR26
19:30-22:00	Pastoralist Film Festival	EXNH EH01

Plenary session Wednesday 11.09.2024

13:00

Welcome addresses and opening | TÜWI HS 01

Moderation: **KATHARINA GUGERELL**, BOKU University

EVA SCHULEV STEINDL, President of BOKU University, Austria

Video message minister

ELONORE GEWESSLER, Federal Ministry for Climate Action, Environment, Energy, Mobility, Innovation and Technology (BMK), Austria

PETER HUBER, Federal Ministry for European and International Affairs (BMEIA), Austria TBC

STEFANIE LEMKE AND ANDREAS MELCHER, BOKU University, Cluster for Development Research (CDR), Austria

FOLKARD ASCH, ATSAF / University of Hohenheim, Germany

13:30

Keynote speeches and discussion | TÜWI HS 01

Chair: **KATHARINA GUGERELL**, BOKU University

FRANZ FISCHLER

President IHS, Institute Advanced Studies, Austria

Dr. studies of Agriculture at BOKU University



“Building sustainable bridges between Scientists, Politicians and Stakeholders in order to establish sound policies for global natural resource management and rural development”

1989-1994: Federal Minister of Agriculture and Forestry, Austria; 1995-1999: European Commissioner for Agriculture and Rural Development; 1999- 2004 also responsible for Community Fisheries Policy; 2012-2015, Chairman of the RISE-Foundation, Brussels; 2014/2015: Chairman of the Steering Committee of the EU scientific programme for Expo Milano 2015; since 2015: President of the Board of Trustees to the Austrian Institute of Advanced Studies (IHS); from 2012 - 2020 President of the think tank “European Forum Alpbach”.

ANJA GASSNER

Managing Director, CIFOR Germany GmbH; Director Europe

“The role of science and innovation in delivering the SDG – nature based solutions with trees”



Anja Gassner is the Director of the European Region for CIFOR-ICRAF. Over the last 6 years her main focus and interest has been in supporting governments in mainstreaming biodiversity within the agricultural sector. Anja joined the ICRAF in 2010 as the Head of the Research Methods Group in Nairobi. From 2018 to 2020 she worked in the ICRAF Philippines office in Los Banos. Before joining ICRAF Anja ran a sustainable land management consultancy in Sabah, Borneo and lectured in statistics at the University of Malaysia. She also worked for several years in the Agricultural Research Institute under the Federal Ministry of Agriculture in Germany. Anja has a PhD in Agroecology from the University of Braunschweig, Germany and a Masters in Environmental Geochemistry from the University of Capetown, South Africa.

LERATO THAKHOLI

Lecturer, Sociology of Development and Change Group, Wageningen University and Research, The Netherlands
Senior researcher, Institute for Poverty, Land and Agrarian Studies, University of the Western Cape, South Africa



“Can biodiversity conservation provide a better life for conservation labourers?”

Lerato Thakholi is a lecturer at the Sociology of Development and Change Group at Wageningen University and Research. Her research investigates the historical development of property rights in land and environmental resources and how this has evolved in tandem with shifts in labour regimes. Empirically, she has studied this in southern Africa using ethnographic and archival methods which have enabled her to capture the impacts of conservation land use on waged and unwaged workers. Theoretically,

she is inspired by critical geographers and thus begins her work from the premise that capital produces spaces and labour regimes that are integral for its expansion and intensification. Themes that have been central to her work include: racial capitalism, spatial justice and social reproduction. Lerato is also a senior researcher in the Living Landscapes in Action project at the Institute for Poverty Land and Agrarian Studies, University of the Western Cape, South Africa. The multi-year project seeks to create the basis for systemic redesign of the conservation sector in Southern Africa.

15:00-16:15 **Foundation *Fiat Panis* | TÜWI HS01**

Chair: ANDREA FADANI, Foundation *fiat panis* Ulm, Germany



The Hans H. Ruthenberg Award for Graduates 2024:

ANNA TABEA MENGAN (Univ. of Hohenheim) | *Assessing genotype by environment interactions and farmers' preferences in participatory maize selection in eastern Zambia and implications for the breeding process* | PROF. DR. BETTINA HAUSSMANN

PALOMA ACOSTA RIVERA (Technische Univ. München) | *Climate-smart and circular practices for coffee farming in Antioquia and Caldas, Colombia* | DR. MARIA VRACHIOLI

The Herman Eiselen Science Award 2024:

DR. GUSTÓDIO EFRAIM MATAVEL (Humboldt-Univ. zu Berlin) | *Integrating more efficient renewable energy technologies into food systems in Central Mozambique: Implications to food and nutrition security* | PD DR. STEFAN SIEBER

DR. VAN HONG NGUYEN (Univ. of Hohenheim) | *Evaluation of geophysics methods to study the effects of land use on salinity in rice production systems in the Vietnam Mekong Delta* | PROF. DR. FOLKARD ASCH

DR. LISA MURKEN (Univ. of Kassel-Witzenhausen) | *Land tenure in a changing climate* | PROF. DR. CHRISTOPH GORNOTT

16:15-17:00	<i>Coffee and tea break</i>	<i>Aula SCHW & ILWA</i>
17:00-18:30	Parallel oral thematic sessions I	EXNH EH01 – 05 ILWA SR26 ILWA SR28

Oral presentation sessions I – 17:00 – 18:30

1a. Agroecology: Drivers of adoption, impact of practices and lessons learned

Room: EXNH EH02

Chair: SERAINA SCHUDEL

- 17:00 HYCENTH TIM NDAH, Co-creation of agroecological practices combinations in agroecology living labs (ID 362)
- 17:15 BEATRICE ADOYO, Measuring agroecology and its performance: Generating evidence to scale up agroecological transitions (ID 594)
- 17:30 DORCAS SANGINGA ALAME, Ex-ante evaluation of integrated soil fertility management as a sustainable intensification practice: A probabilistic modelling approach (ID 224)
- 17:45 YIDNEKACHEW ZEWEDE, Exploring the impacts and drivers of agro-ecological interventions on managing resources: A case of vegetable production system in Ethiopia (ID 590)
- 18:00 LAUREN DIETEMANN, Cultivating change with agroecology and organic agriculture in the tropics - bridging science and policy (ID 448)
- 18:15 WRAP UP AND FINAL DISCUSSION

3a. Sustainable diets and nutrition for different target groups

Room: ILWA SR26

Chair: BARBARA STADLMAYR

- 17:00 MODOU GUEYE FALL, Agroecology on the school food menu, the seeds of a sustainable transition (ID 495)
- 17:15 EMMANUEL DONKOR, Ensuring food and nutrition security in Africa through the diversification of the food systems (ID 560)
- 17:30 SADIKA HAQUE, Exploring the maternal factors affecting children's nutritional status in urban areas of Bangladesh (ID 659)
- 17:45 THI KIM ANH DINH, Improving children's nutrition: Evidence-based policy recommendations for school meal programmes in urban Vietnam (ID 196)
- 18:00 CONSOLATA MUSITA, Home gardens, dietary diversity and household food security in urban informal settlements (ID 538)
- 18:15 WRAP UP AND FINAL DISCUSSION

WEDNESDAY 11.09.2024

5a. Climate smart agriculture adoption and CC adaptation strategies**Room: ILWA SR28****Chair: SONJA LEITNER**

- 17:00 FENTAW TESHOME ASNAKEW, Analyzing the nexus between agricultural knowledge management and climate change adaptation, vulnerability status of rural women in Ethiopia (ID 265)
- 17:15 JOACHIM HERBOLD, Agriculture a risky business: Risk transfer solutions as a cornerstone for resilient agri-food systems? (ID 162)
- 17:30 DIETMAR STOIAN, Developing agroforestry product value chains for landscape and livelihoods resilience: Insights from a multi-chain approach in Eastern Province, Rwanda (ID 270)
- 17:45 PRISCILLA KEPHE, Farmer-led innovation systems for climate resilience: Insights from farmers' choices of adaptation priorities and preferences (ID 790)
- 18:00 ALEXANDER CANO, Farmers' adaptation strategies to extreme weather events: Insights from an insurance game experiment (ID 573)
- 18:15 WRAP UP AND FINAL DISCUSSION

7a. Gender and intersectional perspectives in the governance of natural resources**Room: EXNH EH04****Chair: THOMAS THALER**

- 17:00 KRITIKA GOEL, Gendered governance for sustainable transformations in agri-food systems (ID 586)
- 17:15 MARIO BLANCO, Inclusion of gender and intersectionality in land, food and climate change policy: A feminist institutional approach (ID 140)
- 17:30 RENEE BULLOCK, Participatory rangeland management: Understanding women's engagement and implications for social change (ID 714)
- 17:45 IMMACULATE EDEL, Gender mainstreaming in sustainable land and water management: Insights from the Lake Victoria Basin (ID 319)
- 18:00 CAROLIN ROSENBERG, Why female farmers cannot farm their land to the full potential – intersectional causes for poverty (ID 482)
- 18:15 WRAP UP AND FINAL DISCUSSION

8a. Multiple crises: political, institutional and economic structures and challenges

Room: EXNH EH05

Chair: MICHAEL HAUSER

- 17:00 ALCIDO ELENOR WANDER, Comparative study of regulation and certification policies on bioinputs in different tropical countries (ID 462)
- 17:15 ADAM SAVELLI, Assessing the contribution of climate-resilient UN shelters to humanitarian-development-peace outcomes in Mozambique and Pakistan (ID 572)
- 17:30 SONALI SINGH, Repairing the mosaic: The political economy of landscape-level agroecological transitions (ID 643)
- 17:45 SUSANNE BODACH, Circular bioeconomy for sustainable resource management and livelihood improvement in Ethiopia (ID 766)
- 18:00 JOSEPH KARUGIA, Bridging the gap between agri-food policy and science in Kenya (ID 663)
- 18:15 WRAP UP AND FINAL DISCUSSION

10a. Genetic Resources and Genebanks (BMZ/GIZ Session)

Room: EXNH EH03

Chair: ALIËNOR DE CUYPÈRE

- 17:00 Welcome
ALIËNOR DE CUYPÈRE (GIZ)
- 17:05 Opening remarks
FELICITAS RÖHRIG (BMZ) (online)
- 17:10 Genebanks as drivers of food systems transformation
STEFAN SCHMITZ (Crop Trust)
- 17:30 Conserving plant genetic resources for future generations – The construction and implementation of the largest plant cryobank of Latin America - A center of excellence in crop cryopreservation hosted by CIP
RAINER VOLLMER (CIP) (online)
- 17:50 Securing tree genetic resources for people and the planet
ANJA GASSNER (CIFOR-ICRAF)
- 18:10 Quality seeds for producers to boost millet and sorghum production in the Sahel
FALALOU HAMIDOU (ICRISAT)

WEDNESDAY 11.09.2024

10e. Discussion session: Global Partnership and SDGs Implementation - the role of science

Room: EXNH EH01

Chair: LUKAS SCHLÖGL

17:00 This panel discussion, organised by Federal Ministry of Austria European and International Affairs (BMEIA), Austrian Foundation for Development Research (ÖFSE), BOKU University and UniNetZ (<https://www.uninetz.at/>), will explore innovative future strategies for managing and fostering a better quality of life for all. We will delve into the critical roles that policy and other stakeholders, including universities, play in promoting responsible stewardship and fighting multiple crises, like hunger and climate change impacts. The discussion will address the importance of global partnerships from all sides and perspectives.

By integrating the principles of the Agenda 2030, especially SDG17, which emphasizes partnerships for the goals, we aim to highlight collaborative efforts that drive sustainable development.

Participants will highlight how academic institutions, together with stakeholders, can have an impact to support these initiatives.

Moderation:

LUKAS SCHLÖGL, ÖFSE

Panelists:

KLAUS STEINER, Federal Ministry of Austria European and International Affairs, BmEIA

FRANZ FEHR, UniNetZ, BOKU University

MARGARITA LANGTHALER, ÖFSE

GERHARD VOLZ, Department International Cooperation in Higher Education, OeAD Austrian Agency for Education and Internationalisation

MARTIN WOLLER, Advantage Austria, Austrian Federal Economic Chamber

ANDREAS MELCHER, BOKU University

18:30-22.00 **Apéro / Social gathering in the Aula Franz-Schwackhöfer-Building (SCHW)**

Meet & Greet discussion rounds of junior scientists with keynote speakers. Participation only after individual registration and only for junior scientists | ILWA SR25 - 28.



ANJA GASSNER | The role of science and innovation in delivering the SDG – nature based solutions with trees



LERATO THAKHOLI | Can biodiversity conservation provide a better life for conservation labourers?



NZULA KITAKA | Is cooperations and partnerships, the transformation recipe to sustainable development in times of crises?



JOHANNES WALDMÜLLER | Beyond sustainable development in the era of planetary crises: Challenges and insights from Latin America towards deep green Transformation



JOHANNA JACOBI | Agroecology and living well: Towards agri-food systems within the 'doughnut'



ACHILLE ASSOGBADJO | Are non-timber forest products (NTFPs) the alternatives to overcome sustainable development challenges in Africa?

Pastoralist Film Festival | 19:30-22:00 | EXNH EH01

Third Edition of Perspectives on Pastoralism Film Festival at TT24

Theme: Camelid pastoralism



ANN WATERS-BAYER, FRANCESCA PASETTI, REGINA RÖBLER

See programme on page 13

ATSAF e.V. members assembly | 19:30 | ILWA SR26 (hybrid)

Programme overview – Thursday 12.09.2024

All day	Art in Science: Photo exhibitions and Agroecology Film Festival	ILWA SR22 SCHW ILWA SR21
08:30-09:15	Poster sessions P1 <i>Streaming of online poster sessions</i>	page 30 EXNH EH01 EXNH EH03
09:30-10:15	Poster sessions P2 <i>Streaming of online poster sessions</i>	page 35 EXNH EH01 EXNH EH03
10:15-10:45	<i>Coffee and tea break</i>	Aula SCHW & ILWA
10:45-12:15	Oral presentation sessions II	page 40
12:15-13:45	<i>Lunch break – see page 7 for tips where to purchase your lunch</i>	
13:45-15:15	Oral presentation sessions III	page 43
15:15-15:45	<i>Coffee and tea break</i>	Aula SCHW & ILWA
15:45-17:15	Oral presentation sessions IV	page 47
17:30-18:10	Poster sessions P3 <i>Streaming of online poster sessions</i>	page 51 EXNH EH01 EXNH EH03
18:20-19:00	Poster sessions P4 <i>Streaming of online poster sessions</i>	page 55 EXNH EH01 EXNH EH03
19:30-23:00	<i>Conference dinner at Wiener Heuriger Wolf</i>	page 29

Special event – Conference dinner at Wiener Heuriger Wolf from 19:30 h onwards



Heurigen Wolff offers an authentic Viennese experience, where traditional cuisine and homegrown wines create unforgettable moments. Transitioning from this warm, cultural ambiance, imagine a place where these convivial gatherings ignite discussions on our planet's future, shaping scientific and social dialogues in a unique setting.

This special place will transform the Tropentag 2024 into a unique experience.

- Date: September 12, 2024 (Thursday)
- Start Time: 19:30 h
- Venue: Heuriger Wolff, Rathstraße 46-50, 1190 Wien
- Transfers: no buses will be provided by the organisers
- Walking distance: 2,9 km (approx. 45 min)
- Public transportation: Take the bus 35A at 'Rodlergasse' station toward 'Salmansdorf' and get off after two stops at the 'Neustift am Walde' station (approx. 9 min.).
- Dinner fee: 35 EURO / participant, 20 EURO / student (the fee includes entry, a drink and snacks)
- Due to limited capacity, a maximum of 400 people can attend the conference dinner

Poster sessions P1 – 08:30-09:15

1a I. Agroecology: Drivers of adoption, impact of practices and lessons learned

Room: ILWA SR29.2a

Chair: SERAINA SCHUDEL

- 559 | A. SIGRUN DAHLIN | Burning of maize crop residues and weeds leads to major losses of C, N, P and K
- 839 | NAIMA BENKENANA | The use of maggot fly larvae as biofertiliser
- 602 | HASSEN OUERGHEMMI | Empowering smallholder olive growers in northwest Tunisia through an agroecological business model
- 530 | MUZNA ALVI | Agroecological impacts of community-based land rehabilitation and soil fertility enhancement in Madhya Pradesh
- 365 | PIERRE ELLSSEL | Optimising soil health in Africa: A holistic approach to fertiliser management with ex-situ organic resources
- 120 | PATCHARIN SAE-HENG | Co-production of Buddhist agroecological knowledge in Thailand
- 676 | CHANDA KUMARI | Shifting spotlight from crop yield to crop diversity for climate resilient agriculture system
- 483 | MARIA OGUCHE | Transdisciplinary knowledge transfer for accelerated sustainable transformation of agri-food systems
- 756 | SILKE STÖBER | Transforming sorghum farming in semi-arid Burkina Faso through agroecological intensification
- 638 | OLFA BOUSSADIA | No-tillage and cover crop practices for the agroecological transition of rainfed Tunisian olive groves

1d. Pest, diseases and control options

Room: ILWA SR29.1a

Chair: STEPHAN WINTER

- 11 | ALCIDO ELENOR WANDER | Economic viability and impact of Lalgard Java bioinsecticide on the biological control of the whitefly on common bean
- 717 | FARIMAH ASADI | Sustainable weed control through fatty acids as bioherbicide: A study on photosynthesis inhibition and seed germination
- 649 | CARLITO BALINGBING | Effective control of insect pests' population in stored rice using LED attractants
- 333 | OLUFEMI ADESINA | Farmers' innovation–decision processes and adoption dynamics surrounding push-pull technology in western Kenya
- 198 | NEHA GUPTA | Synthetic polyploidisation promising tool in crop management: Induces enhanced phytochemical profile and biological activities in *Thymus vulgaris*
- 245 | TAMEGNON HOSPICE TOSSOU | Farmers' knowledge of fall armyworm, and factors influencing the choice of control method in Benin
- 290 | NICHAKARN POTA | Survival of rhizobacteria (RMT2NF4) with cyantraniliprole on agar medium

1d. continued

- 666 | PETER BOLO | Innovative agroecology practices improve maize and bean yields in nutrient-deficient sandy soils of Makueni, Kenya
- 722 | ALEX EEMAN AULE | Agro-ecological approaches for fruit and vegetable production systems: Opportunities and boundaries in Turkana county, Kenya
- 72 | HENRY KYALO | Enhancing crop systems classification through fusion of Planetscope and Sentinel-2A imagery using deep learning
- 253 | ALCIDO ELENOR WANDER | Bioeconomy and Brazilian agribusiness: Perspectives and challenges of the national bioinputs program
- 463 | NUTTAPON KHONGDEE | Characterisation of coffee pulp biochar and its impact on soil properties and microbial population
- 858 | FABIO DORN | The digital information system quarantine pests (DISQS): A central solution for surveys in Germany

2a. Dairy production and pig production

Room: ILWA SR29.1b

Chair: MARIA WURZINGER

- 571 | THANAMMAL RAVICHANDRAN | Digital innovations to develop monitoring indicators for infertility issues in dairy animals
- 186 | SHAHIN ALAM | Assessing the impact of dietary variation on milk production, composition, and fatty acid profile in dairy cows from Bangladesh
- 652 | SIRAK BAHTA | Implications of increased dairy production in poor market access areas: An ex-ante analysis in Senegal
- 854 | BOSSIMA IVAN KOURA | Season effects on milk production and composition from White Fulani and Gudali zebu cows under grazing system in Benin
- 422 | OGHAIKI ASAAH NDAMBI | Extending the shelf-life of raw milk in sub-Saharan Africa using a passive cold chain solution
- 145 | FARDOUS ARA HAPPY | What drives dairy farm food safety practices in Bangladesh? Evidence from a PLS-SEM model
- 734 | NILS TEUFEL | Opportunities and challenges of collecting and utilising monitoring data from livestock value chain actors
- 644 | SIRAK BAHTA | Business planning for commercialisation of livestock vaccination services: The case of Rift Valley Fever vaccine in Kenya
- 738 | NILS TEUFEL | Farm-level impacts of business development support to last-mile providers of dairy inputs and services in Tanzania
- 166 | MD. SHAHADAT HOSSAIN | Diagnosis of porcine cysticercosis using rat basophilic leukemia (RBL) IgE reporters and loop-mediated isothermal amplification (LAMP) technology

THURSDAY 12.09.2024

5a I. Climate smart agriculture adoption and CC adapt. strategies

Room: ILWA SR23

Chair: HELENA RODRIGUES LOPES

- 435 | HARRY QUAYE AMANKWAH | Coping and social cohesion mechanisms in addressing climate change and land degradation in Ghana
- 634 | SOH WENDA BORIS DINICTRI | Gendered analysis of climate change adaptation strategies and food security outcomes in selected agroecological zones of Cameroon
- 657 | ABEL CHEMURA | From hectares to households: Farmer centric crop-modelling to assess differential climate change impacts and adaptation response
- 472 | DAVID ABIGABA | Climate change impacts on yield and grain quality: Implications for food security, health and nutrition
- 271 | MAHLET DEGEFU AWOKE | Assessing climate-smart agriculture's impact on food security: The case of semi-arid Tanzania

6a I. Non-timber forest products

Room: SCHW SR09

Chair: GEORG GRATZER

- 294 | MARCELO INACIO DA CUNHA | Rights-based access for leaving no biodiverse area nor anyone behind: Deliberative protected-area councils in Amazônia
- 133 | MULUKEN NEGA BAZEZEW | Modeling the horizontal distribution of tree crown biomass using terrestrial laser scanning: A method for advancing the accuracy of forest biomass estimates and monitoring techniques
- 149 | VALENS UWIZEYIMANA | Woody biomass trends in Rwanda, combining stock and land cover change assessments in forests, shrublands, and farmlands
- 564 | HANADI MOHAMED SHAWGI GAMAL | Natural forests products for rural development and poverty alleviation in Sudan
- 732 | MARIE KALOUSOVÁ | Effect of domestication on the genotypical and phenotypical diversity of *Allanblackia parviflora* A. Chev in Ghana
- 132 | HAMZA MOLUH NJOYA | Towards inclusive development: Forest landscape restoration impacts on Tchamba Prefecture communities, Togo
- 617 | MOHAN KRISHNA CHOWDRY AVILINENI | Factors influencing tree use among small farmers of Gorkha district, Nepal: Livelihood perspective
- 647 | KAROLÍNA CHALUPOVÁ | The impact of hurricanes on the carbon stock of the juvenile stages of succession in the tropical rainforest in the Caribbean part of Nicaragua
- 45 | FATMA BIRCAN BODUR | Firewood and charcoal demand in sub-Saharan Africa: Assessing sustainability and trends

7a. I Gender and intersectional perspectives in the governance of natural resources

Room: ILWA SR25

Chair: VINCENT PAUL-SANON

- 543 | CHARITY MASOLE | Fostering indigenous stewardship: Towards decolonizing natural resource management in southern Africa
- 574 | PETER ASARE-NUAMAH | A systematic review of gender-responsive social learning research in agriculture and natural resources management in Africa
- 601 | KRITIKA GOEL | Unpacking 'indigenous women's knowledge': Perspectives on gender and intersectionality in Food-Land-Water systems governance
- 825 | GEORGES DJOHY | Motivations for agripreneurship among agro-pastoralist women in the district of Nikki (northern Benin)
- 753 | MÉLIKA KÈMI VODOUNHESSI | Exploring perceptions of land tenure security and its implications in northern Benin

9c. Social innovations for implementing the SDGs II

Room: ILWA SR29.2b

Chair: GABRIELE SLEZAK

- 488 | JONAS MEIER | Co-developing innovations for sustainable land management in West African smallholder farming systems - COINS
- 781 | PRISCILLA KEPHE | Enhancing model calibration and validation through participatory engagement
- 755 | THEDY KIMBI | Women adoption of improved seeds in sorghum production: Insights from Tanzania
- 509 | WIOMOU JOÉVIN BONZI | Use of real-time load profile measurement to optimise photovoltaic systems dimensioning in shea butter production
- 467 | RUFO ROBA HALAKHE | Identifying information needs among pastoral livestock keepers: Insights from scouting practices in northern Kenya
- 457 | TIGIST WORKU | Using farmer-to-farmer field days to support adaptation to climate change in Ethiopia
- 504 | ESTHER GLORIA MBABAZI | Impact of an extension campaign and the mediating role of women's empowerment on the adoption of agricultural technologies in Uganda

Online 1a/1c/1e Plants and crops

Streaming in room: EXNH EH01

Chair: PIERRE ELLBL

- 344 | NURUDEEN ABDUL RAHMAN | Sustainable intensification of smallholder crop-livestock farming systems in northern Ghana: Optimising groundnut plant density for grain and fodder
- 54 | DALIA ANDREA PLATA-REYES | Perception of agroecological performance of dairy farms by smallholders in Mexico
- 548 | TUAN HA | Barriers to agroecological transition of coffee-based farming systems in the central highlands of Vietnam

Online 1a/1c/1e continued

- 413 | ISABEL MORALES-BELPAIRE | Nutrient release from litter under five cacao cultivation systems in Sara Ana (Alto Beni Bolivia)
- 724 | HIRA MARYAM | Climate-smart strategies: Improving cotton resilience through superior leaf phenotyping
- 230 | GRACE TETE MENSAH | Assessing farmers' attitudes toward organic fertilisers in Kiambu and Kirinyaga counties, Kenya
- 506 | THUY HUU NGUYEN | Investigating roles of sustainable intensification practices in Ghana cropping systems using crop modelling approaches
- 407 | HABTAMU SEYOUM ARAGAW | Effective method of acclimatisation for in-vitro propagated hybrid coffee seedlings (*Coffea arabica* L.) at Jimma, southwest Ethiopia
- 361 | AYETIGBO OLUWATOYIN | Extensibility of Guadeloupe collection of alata yam accessions reveal potential candidates for pounded yam production
- 537 | DEJENE BEKELE DIBABA | Orphan crop genomic research trend through integrating text mining and bibliometric analysis
- 286 | DENNIS NJOKI | Social perception of smallholder farmers on the uptake of organic fertilisers in Kigumo subcounty
- 274 | ALBERT BERDJOUR | Impact of fertiliser applications on grain and vegetable crops in smallholder mixed crop-livestock systems in West Africa

Online 2a. Online: Dairy production and pig production

Streaming in room: EXNH EH03**Chair: N.N.**

- 261 | AHMED NURA | Melbe camel a unique genetic resource and their contribution towards food security of Boran region, Ethiopia
- 855 | CLICILLA HESSA MONTCHO | Agronomic characteristics of five native forage species and their preference by Djallonké sheep in Benin
- 616 | SISAY GETANEH | Enhancing dairy production and farm income through irrigated fodder adoption: Evidence from smallholder producers in Ethiopia
- 662 | BENADETTE AYEABARE | Advancing cattle genetics: A comparative exploration of innovation systems in Kenya and Uganda
- 459 | MUHAMMAD RIAZUL ISLAM | Prevalence and risk factors of anoestrus and repeat breeding in dairy cows
- 618 | DOMINIQUE OUÉDRAOGO | Comparative analysis of market-oriented and subsistence pig farmers' traits preferences and selection criteria in Burkina Faso, West Africa
-

Poster sessions P2 – 09:30-10:15

1a II. Agroecology: Drivers of adoption, impact of practices and lessons learned

Room: ILWA SR29.2a

Chair: LAUREN DIETEMANN

- 785 | NAMYA MATHUR | Soil organic carbon storage over 17 years of organic and conventional farming in central India
- 570 | ANGELA LARTEY-YOUNG | Characterisation of biochar derived from shea waste through slow pyrolysis
- 578 | JOHANNES SCHULER | Assessing regional performance of agroecology – comparing two contrasting case studies in Burkina Faso
- 364 | NANDAR AYE CHAN | Unlocking the global potential competitiveness of Myanmar's rice sector: A comparative study of production costs and efficiency
- 646 | ROSINA WANYAMA | Cost benefit analysis of agroecological transition: A case of mango value chain in Kenya
- 656 | ANDRÉS CHARRY | Agroecological transitions in value chain: A multiple case analysis
- 157 | BONNA ANTOINETTE TOKOU | Analyse land use land cover (LULC) dynamics in a cocoa landscape context (Côte d'Ivoire)
- 191 | RAMMAH ZWAN | Resource-use efficiency of rice production in the state of Odisha, India
- 203 | MIKÉMINA PILO | Sustainability of sesame farm households supported by Orge NGO in the Savanes region of Togo
- 491 | DENIS SOLDERA | Energy efficiency on smallholder farms in southern Brazil: An agroecological approach
- 246 | JULIANE KAUFMANN | Economic benefits through agroecology: ProSoil's scientific evidence for farmers and society

1f. Plant breeding

Room: ILWA SR29.1a

Chair: EVA WELTZIEN

- 355 | LORENZ BACHMANN | Assessing the impact of farmers' indigenous seeds and seed conservation practices in Nakuru county Kenya
- 416 | JANTOR NDALO | Exploring the population structure and genetic diversity of *Moringa oleifera* using DArTSEQ derived SNP markers
- 786 | JUAN ANDRÉS CARDOSO | A simple algorithm outperforms a machine learning approach for quantifying spittlebug damage in tropical grasses
- 500 | ELIZABETH CRUZADA | Farmer-led rice breeding of climate resilient rice
- 159 | CATHERINE MEYER | The oilseed palm *Acrocomia*: Unlocking flowering patterns of various wild types from Brazil
- 795 | MACEO MILESI | Efficiency of thermotherapy and cryotherapy - virus elimination in *Ullucus tuberosus* Caldas
- 61 | RHOWELL JR. TIOZON | Lipidome-based genome-wide association analysis in pigmented rice sprouts revealed higher antioxidant and anti-cancer properties
- 62 | RHOWELL JR. TIOZON | Multi-omics unraveled genes and pathways responsible for the low glycemic index and high protein rice

1f. continued

801 | SHYAM PARIYAR | Rice and nutritional quality: Grain quality of highland rice genotypes cultivated in Jumla, Nepal

2c. Rangeland, pastoralism, livestock, and GHG emissions

Room: ILWA SR23

Chair: LILLI SCHEITERLE

- 57 | AURA BRAVO | Integral valuation of ecosystem services and environmental benefits in livestock farming
- 66 | REGINA RÖßLER | Challenges of camel milk production and marketing in pastoral setting of Oromia region, Ethiopia
- 661 | LUDY KEINO | Managing emissions and nutrient losses from cattle manure through cascades with carbonized materials in Kenya
- 346 | MASCHA KADDORI | Rangeland rehabilitation as a tool for livestock management and disease prevention in Eastern Africa
- 820 | WAQAR UL HASSAN TAREEN | Perception and adaptation of pastoralists to climate change in the central mountainous region of Pakistan
- 736 | IRMGARD JORDAN | Agro-pastoralists use participatory video making to reflect on their food environment in Turkana, Kenya
- 492 | STEFAN LIEHR | Social-ecological tipping points in the rangeland system in the Waterberg region in Namibia
-

3b. Food technology, food safety and consumer behaviour

Room: ILWA SR27

Chair: CONSTANCE RYBAK

- 190 | RAMMAH ZWAN | Impact of crises on wheat availability in Syria: What are the effects on food security?
- 239 | SELAMAWIT DEBELLE | Investigating microbial fermentation effects on cassava leaf nutrient profile: A pre-processing method for human consumption
- 279 | MEKURIA WOLDE ASSENA | Phenolic acids play a vital role in compatibility of *Fusarium oxysporum* f.sp. *strigae* biocontrol ability with legume intercropping for striga management in maize
- 397 | RACHIDI ABOUDOU | Impacts of the integrated rice-fish farming system technology on food and nutrition security of small-scale farmers in developing countries: An application of marginal treatment effect model
- 441 | ELEONORA CHARLOTTE PICHLER | Exploring the nutritional and technological potential of sorghum in wheat-based breads
- 524 | BONIFACE MWAMI | Nutritional composition and antinutritive compounds in *Moringa oleifera* leaf accessions from Kenya, Tanzania and Mali
-

5a II. Climate smart agriculture adoption and CC adapt. strategies**Room: ILWA SR29.1b****Chair: JOACHIM THALER**

- 852 | ANKITA PAUL | Understanding the potential of adjusted water management to lower the global warming potential of rice in India
- 527 | POWELL MPONELA | Organic manure drive farming system transitions through soil fertility gradients and crop suitability ranges in mid-hills of Himalayan range
- 154 | RAFAELA SCHEIBELBERGER | Climate-smart grain crops – functionalisation of sorghum milling fractions for application in European cereal-based staple products
- 288 | ATIFULLAH SHINWARI | Historical and future winter chill for temperate fruit and nut trees in Afghanistan
- 498 | THERESA EBERT | Improving livestock production: Opportunities and challenges for farmers in Central Côte d'Ivoire
- 507 | FUAD SHUKER | Role of social networks in coping with climate change-induced shocks in eastern Ethiopia
- 353 | THI THU GIANG LUU | Stakeholder engagement in agro-climate service planning
- 727 | PAUL GÜNTHER SCHMIDT | Using digital tools to enter new adaptation domains in co-coa and coffee climate adaptation planning

6a. II Forest landscape restoration and sustainable land use**Room: SCHW SR09****Chair: GEORG GRATZER**

- 158 | MARY LOUISE MULLIGAN | Contextualisation of a biodiversity monitoring exercise in Lore Lindu National Park, Indonesia
- 20 | KUESHI SEMANOU DAHAN | Towards understanding the wildfire dynamics and hot spots intensity in the central province of Cameroon: Contribution of Google Earth Engine (GEE) and spatial statistics analysis
- 454 | SAMUEL ASAMOAH | Impact of illegal mining and its implication for land reclamation in Amansie South district, Ghana
- 851 | AHMAD VALIPOUR | Parameterisation and application of the forest model PICUS for Zagros forests of Kurdistan, Iran
- 222 | MABEL TATIANA ROJAS RUEDA | Cooperation and value-chain upgrade of NTFPs: Learning lessons for *Bactris guineensis* in Colombia
- 192 | KOSSI HOUNKPATI | Identifying positive deviance cases to improve forest landscape restoration and well-being of smallholder farmers in Togo, West Africa
- 244 | SHIBIRE BEKELE ESHETU | Landscape-level sustainable land use optimisation of Lake Chamo catchment, southern Ethiopia
- 277 | NAN SHWE YI | Assessing the ecological effectiveness of community forests for forest conservation in Inle Lake watershed, Myanmar
- 287 | HAMZA MOLUH NJOYA | Smallholder farmers' contribution toward forest landscape restoration: Evidence from Tchamba district, Togo
- 389 | HAMY RAHARINAIVO | Analysis of adoption factors of forest landscape restoration in DIANA region, Madagascar

7a. II Gender and intersectional perspectives in the governance of natural resources

Room: ILWA SR29.2b

Chair: ISABEL WAGARA

- 214 | ZERIHUN AMARE | Climate change and food security disparities through a gender-specific lens: An agroforestry systems analysis in multiple countries of Africa
- 252 | MARIA BLANCO | Gender perspectives in Colombian public policy: Analysing impact and investment for equitable development
- 123 | MANALE ANDARGIE EMBIYALE | Intra-household gendered division of labour and time-use patterns: Implications for farm outcome and well-being in rural Ethiopia
- 642 | ANNETTE BRAUN | Analysing the gender equality discourse in Austrian agriculture applying a feminist political ecology lens
- 558 | MICHAEL EULER | Gender equity implications of the adoption of mechanised live-stock fodder choppers in Bangladesh's mixed farming systems
- 660 | PROSPER LOH FUL | Who gets the land? A comparative case study on "failed" large-scale land deals in Ghana

Online 1b/4a. Terrestrial and aquatic ecosystems

Streaming in EXNH EH01

Chair: TESFEY HAFTE

- 387 | LENA GRIEGER | Biocultural diversity in agroforestry systems in Togo and Benin
- 360 | AFI AMEN CHRISTÈLE ATTIOGBE | Navigating the drought's grip: Cocoa yield dynamics in agroforestry systems in Ghana and Togo
- 38 | JONAS STEINFELD | Scaling complex agroforestry: Constrained by labour demand?
- 264 | MARÍA AUGUSTA BERMEO | Evaluating drought management strategies in Andean irrigation systems
- 804 | ABENAN N'GUETTIA LÉONTINE ADAHÉ | Soil restoration in rubber and cocoa plantations in Côte d'Ivoire
- 739 | LAKSHMI GOPAKUMAR | The response of earthworms towards a flood event in the home garden agroecosystems of an industrial region in Kerala, India

Online 2c/2d. Ruminants and poultry

Streaming in EXNH EH03

Chair: N.N.

- 217 | KHAYTBAY ARTIKOV | Land cover changes associated with the rise of the Lake Aydarkul in Nurota, Uzbekistan
- 95 | DERRICK NOAH SENTAMU | Stakeholder analysis and their roles in livestock disease reporting and response in pastoral areas in northern Kenya
- 566 | KWAMBOKA TIRIMBA | Current state of enteric methane emissions and mitigation strategies from grazing systems in the tropics
- 43 | DANIELA HUAMANÍ CÁRDENAS | Effect of different levels of *Tenebrio molitor* larva meal inclusion on chicken meat quality
- 620 | KIBRU BERISO | Substitution of soyabean meal with *Moringa stenopetala* leaf meal positively influenced feed consumption and egg production: A novel approach to enhance poultry products in the rural communities

Online 2c/2d continued

- 269 | GLORY EDDY ENYENIHI | Growth performance and economic analysis of broiler chickens fed turmeric rhizome powder (*Curcuma longa*)
- 427 | JOSHUA ABOAH | Ex-ante impact of Marek's disease mitigation on economic viability of small-scale intensive layer production in Ghana
- 183 | PAMELA FERNANDA MEJÍA LEYVA | Holistic approach of soil health in a rangeland in northern Mexico: Development of an index
- 247 | AWOUMINASSI MARCELLIN ATAKOUN | Cattle corralling strategies for soil management in northern Benin: Benefits, constraints, and determinants
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Oral presentation sessions II – 10:45-12:15

1b. Agroforestry for reconciling ecosystem functions, biodiversity and productivity

Room: EXNH EH02

Chair: JOHANNA JACOBI

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|-------|---|
| 10:45 | HARUN CICEK, Agroecological approaches in the dryland agroforestry systems of West African Sahel (ID 784) |
| 11:00 | SAMUEL OWUSU, Adoption and impact of agroforestry on household food security among farmers in Ghana (ID 320) |
| 11:15 | ZINSOU BERNUS DJIGBE, Examine farmer's perception of integrating cattle rearing into cashew-crop agroforestry, with emphasis on farmers' socioeconomic status, resource management, carbon and nutrient dynamic: Evidence from households using TAPE (ID 368) |
| 11:30 | GIANG PHAM, Long-term economic viability of different coffee inter-cropping systems in the central highlands of Vietnam (ID 635) |
| 11:45 | HUU THUONG PHAM, Plant available water content and water use in a fruit-crop agroforestry practice on sloping land (ID 178) |
| 12:00 | WRAP UP AND FINAL DISCUSSION |

2a. Dairy production and pig production

Room: EXNH EH03

Chair: MARIA WURZINGER

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| 10:45 | RICARDO GONZALEZ-QUINTERO, Strategies for lowering milk carbon footprints in small-scale dairy farming: A Kenyan perspective (ID 460) |
| 11:00 | SHAHIN ALAM, Food waste to animal feed: Does it confer milk quality and safety? (ID 188) |
| 11:15 | YUNI RESTI, Assessing smallholder farmers' practices on dairy record-keeping in Indonesia (ID 114) |
| 11:30 | ALISHER KOSIMOV, Smallholder dairy producers in transition: Dairy market participation and sales in post-Soviet Tajikistan (ID 763) |
| 11:45 | EMMANUEL MWEMA, Can the efforts to intensify smallholder pig production in Uganda be sustained? (ID 351) |
| 12:00 | WRAP UP AND FINAL DISCUSSION |

3b. Food technology, food safety and consumer behaviour**Room: EXNH EH04****Chair: CONSTANCE RYBAK**

- 10:45 OGALO BAKA OLUOCH, Harvest stage and method affect quality of amaranthus (ID 164)
- 11:00 JAMES SIMON CHACHA, Effect of biodegradable modified film packaging on the quality and safety aspects of African nightshade (ID 194)
- 11:15 ERASMUS TANG, Mycotoxin concentrations in rice are affected by chalkiness, grain shape, processing type and grain origin (ID 375)
- 11:30 EWARD MUSHI, Food price elasticities of demand and choice: Implications for food and nutrition status in Tanzania (ID 542)
- 11:45 MAHOUNAKPON WILFRIED TOSSOU, A comprehensive overview of West African soft cheese processing and conservation (ID 399)
- 12:00 WRAP UP AND FINAL DISCUSSION

5b. Field to landscape experiments: practices and technologies**Room: ILWA SR28****Chair: HELENA RODRIGUES LOPES**

- 10:45 THI BACH THUONG VO, Towards high throughput system in detecting GHG emissions in rice production: Assessment of measurement approaches (ID 260)
- 11:00 MATEO PAZOS CÁRDENAS, Cattle farming, armed conflict, and climate change: Possibilities and limitations in a case study in the Colombian Amazon (ID 168)
- 11:15 SIEG SNAPP, Breeding that integrates soils and cropping systems: The key to boosting climate adaptation (ID 526)
- 11:30 JANE MAUREEN NGONJOCK EBAKO, Technical efficiency with the adoption of climate-smart agricultural practices: Case of northern Togo (ID 778)
- 11:45 ABEEB OMOTOSO, Impact of climate-smart agricultural technology and gender-differentials on smallholder sunflower farmer's food-nutrition and water security (ID 220)
- 12:00 WRAP UP AND FINAL DISCUSSION

8b. Multiple crises: natural resources, food and livelihoods in fragile settings

Room: EXNH EH05

Chair: JOHANNES WALDMÜLLER

- 10:45 MAJIDA LAHROUNI, Disaster risk management policies and implementing tools in Morocco (ID 514)
- 11:00 POOJA KORI, Unraveling the nexus of urbanisation, migration, and livelihoods of farm households (ID 599)
- 11:15 MONICA FISHER, The role of agrifood entrepreneurs during ongoing war in Sudan: A gender perspective (ID 768)
- 11:30 SARAH GRAF, Is deforestation inherent to production systems? How field types contribute to understanding the forest frontier (ID 476)
- 11:45 SANJANA RAJASEKAR, Gendered and intersectional access to social protection: Evidence from cattle-rearing women in Gujarat, India (ID 576)
- 12:00 SOLOMIE GEBREZGABHER, Circular water and food systems as a post conflict restoration and reconstruction strategy (ID 712)

10c. Trees for impact - approaches in different contexts (ICRAF-CIFOR)

Room: EXNH EH01

Chair: KAI MAUSCH

- 10:45 The panellists will share insights and examples on how decision-making processes interact with trees as nature-based solutions for enhancing and building resilience in fragile situations. The complexity of decision-making processes at multiple levels results in high uncertainty of scaling local solutions. The challenge is to understand these processes to be able to design and co-develop impactful offerings to people amid uncertainty and risks. The panel will focus on the importance of generating evidence around decision-making to inform strategic choices of governments, humanitarian agencies, and communities. Together with the audience, the panel will identify the most pressing knowledge gaps and explore future research needs to ensure the best possible choice during tree-based resilience-building in fragile situations.

Moderator: IMMACULATE EDEL

Panelists:

KAI MAUSCH: Why aspirations should guide resilience building

EIKE LUEDELING: Key decision factors in adoption - what really matters

MARY CROSSLAND: Getting prepared: Intrahousehold decision making and ecological farming

ALEX AWITI: Agroecology: Decision-making when confronting conflict and disasters

MICHAEL HAUSER: Purpose and choices in resilience partnerships

Oral presentation sessions III – 13:45-15:15

1c. Soil and plant nutrition management

Room: EXNH EH02

Chair: KATHARINA KEIBLINGER

- 13:45 RODOLPHE AZIZ, Enhancing crop productivity through fertiliser applications to neglected and under-utilised crops in sub-Saharan African countries: A meta-analysis (ID 298)
- 14:00 DEOGRATIAS KOFI AGBOTUI, Maize response to fertiliser microdosing in agroforestry parklands in the Savannah region of Ghana (ID 211)
- 14:15 HARTINA, Preliminary investigation into paddy soil properties and rice growth after humic acid and gypsum applications (ID 480)
- 14:30 PETER BOLO, Regenerative agriculture practices improve soil health in phosphorus deficient soils in western Kenya (ID 630)
- 14:45 ORRACHA SAE-TUN, Local soil amendments enhance soil organic carbon quantity and quality in Indonesian post-tin mining soil (ID 223)
- 15:00 WRAP UP AND FINAL DISCUSSION

2b. Strategies for sustainable livestock systems

Room: EXNH EH03

Chair: SIRAK BAHTA

- 13:45 AN NOTENBAERT, Evaluating the potential environmental co-benefits of perennial grass-legume mixtures in Ethiopia (ID 536)
- 14:00 KALKIDAN AYELE MULATU, Unlocking farmer-preferred multipurpose forage mixtures: A tricot approach in Ethiopia (ID 553)
- 14:15 DAHLANUDDIN, Sustainability of innovation adoption under small-holder cattle production systems in Eastern Indonesia and Timor Leste (ID 554)
- 14:30 ADMASU MARUTA, Dynamic duo: Exploring mortality rate shock effects in integrated livestock models (ID 627)
- 14:45 OGHAIKI ASAAH NDAMBI, Feasibility study: Black soldier fly production for animal feed in Ethiopia (ID 604)
- 15:00 WRAP UP AND FINAL DISCUSSION

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3c. Socio-economic development and the food environment**Room: EXNH EH04****Chair: IRMGARD JORDAN**

- 13:45 YAW BONSU OSEI-ASARE, Farmer participation on the Ghana commodity exchange: Does the risk attitude of resource-poor farmers matter? (ID 797)
- 14:00 MARIAM ABDULKAREEM, Sustainable innovations in food production: Evaluating the environmental and socio-economic impact of dry tilapia fish (ID 297)
- 14:15 NDUNGU S. NYOKABI, Photovoice as a research method for exploring nutrition and diet quality at a household level: The case of the Mau Narok-Cheragany complex in Kenya (ID 730)
- 14:30 ROSINA WANYAMA, Understanding consumers' and retailers' preferences for nutritious foods in Ethiopia: A discrete choice experiment approach (ID 369)
- 14:45 IRENE INDULI, Organic farming and commercialisation of fruits and vegetables in Makueni county, Kenya (ID 544)
- 15:00 WRAP UP AND FINAL DISCUSSION

5c. CC modeling studies and scaling**Room: ILWA SR28****Chair: ANDREAS KLIK**

- 13:45 SUDHARSAN MALAIAPPAN, Charting agroecological pathways: Multicriteria priority mapping for India's sustainable transition (ID 591)
- 14:00 BRIGITTE RUESINK, Modelling agroforestry adoption dynamics among smallholder farmers in rural Zambia: An agent-based approach (ID 445)
- 14:15 HAROLD ACHICANOY, Drought beyond the horizon drawing new borders along spatial clusters of agriculturally relevant extreme weather (ID 258)
- 14:30 DOMINIK PAIREDER, Combatting sand and dust storms: The performance and value of sustainable land management in arid to sub-tropical areas (ID 728)
- 14:45 ROSA NOEMI JAUREGUI, Defining a target population of environments in Africa for brachiaria sp. and guinea grass breeding (ID 770)
- 15:00 WRAP UP AND FINAL DISCUSSION

6a. Non-timber forest products**Room: ILWA SR26****Chair: GEORG GRATZER**

- 13:45 ACHILLE ASSOGBADJO, Are non-timber forest products (NTFPs) the alternatives to overcome sustainable development challenges in Africa? (ID 37) LEAD PAPER
- 14:15 SEYIRAM KUMORDZIE, A review on the sustainable production of *Caparis erythrocarpos*: An economically important species for medicine and conservation (ID 110)
- 14:30 TOBIAS LANDMANN, Pollen diversity and protein content in differentially degraded semi-arid landscapes in Kenya (ID 136)
- 14:45 BINYAM ABAYNEH ADERA, The role of advisory services in the commercialisation of NTFPs from the Cerrado, Brazil (ID 308)
- 15:00 WRAP UP AND FINAL DISCUSSION

9a. Social innovations for implementing the SDGs**Room: EXNH EH05****Chair: FRANZ FEHR**

- 13:45 BERNICE ADU-BOAHEN, The effect of agricultural cooperative membership on women's empowerment in the Ashanti region of Ghana (ID 84)
- 14:00 SHANJIDA SHARMIN, Emergence of female agri-food entrepreneurs in Facebook commerce: A choice modelling exercise to examine consumer preferences in Bangladesh (ID 450)
- 14:15 HASSEN OUERGHEMMI, Are farmer organisations (FOs) such a big deal for agroecological innovation? An assessment of small holders FOs' innovation intermediation functioning (ID 583)
- 14:30 INGRID ÖBORN, Achieving the SDGs in the East African drylands: Pathways and challenges towards a social-ecological transformation (ID 721)
- 14:45 PETER GERSTMEIER, Bottlenecks for a powerful and applied agricultural university education in Uganda (ID 838)
- 15:00 WRAP UP AND FINAL DISCUSSION

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10d. CropTrust

Room: EXNH EH01**Chair: NORA CASTANEDA-ALVAREZ**

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| 13:45 | NORA CASTAÑEDA, The Crop Trust: conserving our food forever |
| 13:55 | KAUE DE SOUSA, Citizen science supports crop diversity use and promotion |
| 14:20 | TATIANA RIVERA, Seeds of change: Unlocking the potential of plant genetic material transfer for food and agriculture (ID 137) |
| 14:35 | EVA WELTZIEN, Increasing farmers' opportunities to benefit from national seed collections: Experiences of five African national genebanks (ID 688) |
| 14:50 | CÉLINE TERMOTE, Farmers in Vihiga county, Kenya, transform their food system through multi-sectoral and multi-actor collaborations (ID 729) |
| 15:05 | Q&A to the panellists |
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Oral presentation sessions IV – 15:45-17:15

1d. Pest, diseases and control options	
Room: EXNH EH02	Chair: STEPHAN WINTER
15:45	JOHANNES KOPTON, When and where to warn farmers: Analysing the value of spatio-temporal pest risk prediction for pest monitoring decisions (ID 392)
16:00	KAI BEHN, Invasive plant species drive land use changes in East Africa (ID 470)
16:15	SAMAR SHEAT, The fungus <i>Ceratobasidium theobromae</i> causes a severe disease of cassava in Southeast Asia, the cassava witches' broom disease (ID 840)
16:30	RUTH STELLA THEI, Abundance and species diversity of predatory arthropods in potato plants with application of botanical pesticides (ID 606)
16:45	SYLVIA BULETI, Maximizing the benefits of push-pull technology with pigeon pea integration (ID 746)
17:00	WRAP UP AND FINAL DISCUSSION
2c. Rangeland, pastoralism, livestock, and GHG emissions	
Room: EXNH EH03	Chair: CHRISTIAN HÜLSEBUSCH
15:45	GLARION ISIAHO, Assessing Africa's environmental footprints: Unveiling cattle production variations across regions (ID 549)
16:00	WILHELMINA NUULE, Cattle behaviour and herders' supportive strategies: A case study of mountain grazing in Kunene North, Namibia (ID 434)
16:15	MALIT YUSUF WAKO, A comparative analysis of rangeland governance among two pastoral communities of northern Kenya (ID 443)
16:30	SÈWANOU FRIMENCE ALLOGBÈNOU TOSSOU, Effect of sedentarisation on pastoral management in four Fulani villages in northern Benin (ID 237)
16:45	SONJA LEITNER, Greenhouse gas emissions from traditional livestock enclosures in Kenya and options for mitigation (ID 471)
17:00	WRAP UP AND FINAL DISCUSSION

4a. Sustainable water and fisheries management**Room: ILWA SR28****Chair: EMMANUEL FRIMPONG**

- 15:45 LOISE SARFO, The natural imperative for African aquaculture species and system diversification: Case studies from Ghana (ID 731)
- 16:00 NUSRAT ZAITUN HOSSAIN, Effects of improved pond aquaculture techniques on household well-being: A case study from rural Bangladesh (ID 138)
- 16:15 LORINE AUMA OMONDI, Evaluation of faecal indicator bacteria and anti-microbial resistance of *Escherichia coli* isolated from river Njoro, Nakuru county, Kenya (ID 605)
- 16:30 RIMWAODO PIERRE SILGA, Freshwater shrimp farming in captivity in Burkina Faso: Cases of *Macrobrachium dux* and *Macrobrachium* sp (ID 474)
- 16:45 JOHN LIVINGSTONE MUTYABA, Role of social networks in exposing small-holder farmers to cage fish farming technologies (ID 268)
- 17:00 WRAP UP AND FINAL DISCUSSION

6b. Trees outside forests: agroforestry and urban trees**Room: EXNH EH04****Chair: CHRISTOPH KLEINN**

- 15:45 MITIKU AYELE HANDISO, Effects of canopy management of *Terminalia brownii* (Fresen) on microclimate and yield of maize (*Zea mays* L.) in parkland agroforestry of South Ari district, southern Ethiopia (ID 144)
- 16:00 TAO JIANG, Unveiling urbanisation effects on trees outside forests dynamics along the urban-rural gradient in Bengaluru, India (ID 153)
- 16:15 VINDHYA PRASAD TEWARI, The green credit plan: An initiative of the Indian government contributing towards natural climate solution (ID 216)
- 16:30 HANNAH-CELINE CAMINADA, Sustainable cocoa agroforestry in Côte d'Ivoire: Enhancing organic fertilisation for upgraded nature's contributions to people (ID 311)
- 16:45 BASIRU BOJANG, Effect of soil compaction by livestock on tree roots in a silvopastoral system (ID 403)
- 17:00 WRAP UP AND FINAL DISCUSSION

9b. Technological innovations for implementing the SDGs

Room: EXNH EH05

Chair: SANDRA NICOLICS

- 15:45 BINAL DOBARIYA, Utilisation of nut and fruit processing byproducts for sustainable cosmetic formulations: A pathway to microplastic-free beauty products (ID 81)
- 16:00 ANNKATHRIN ROSENBAUM, Crop water stress monitoring tools for drip-irrigated rice cultivation with reclaimed wastewater (ID 384)
- 16:15 DEEPALI CHADHA, Making climate-smart technologies work for women farmers: Insights from socio-technical innovation bundling approach in India (ID 608)
- 16:30 OLIVIER KASHONGWE, Digital innovation options for sustainable crop-livestock intensification in sub-Sahara Africa (INNOVAFRIKA concept) (ID 765)
- 16:45 ROBIN MAATZ, New and sustainable innovations to meet the global demand for meat: Cultivated meat as a supplement to conventional livestock farming (ID 129)
- 17:00 WRAP UP AND FINAL DISCUSSION

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10b. Improving food environments for better nutrition and good health – Presentation and discussion of project results (BMEL/BLE session)

Room: EXNH EH01

Chair: LISA JÄCKERING

15:45 The human right to adequate food guides the international engagement of BMEL. As such, the German Federal Ministry of Food and Agriculture (BMEL) funding instrument “International Research Cooperation for Global Food Security and Nutrition” has its focus on research for better nutrition achieving the human right to adequate food. BMEL fosters via this instrument more resilient food systems and environments by funding trans- and interdisciplinary research projects that co-create needs-oriented knowledge and elaborate inputs for relevant stakeholders. The Federal Office for Agriculture and Food (BLE) acts as executing agency, Food environments influence food choices. Increasing accessibility of ultra-processed foods and nutrition transition, increase the prevalence of non-communicable diseases. In addition, current food systems often fail to provide healthy, sustainable and affordable choices for everyone. Changing the structure of food environments, hence, affects local consumption behaviour patterns. Reflecting these complex and multiple correlations, BMEL launched the research call “Food Environments for improved nutrition” in 2019. Based on this call, seven international research consortia currently receive funding. During this BMEL Session, three of them will present their research results regarding options to enhance food environments for improved nutrition and health outcomes. The following researchers have been selected to present their respective project:

1. MERLE MÜLLER-HANSEN, Augsburg University, Germany, project “App-and consumer- based change of food environments for better nutrition and health in India (NutriAI-DE)”
2. VICTORIA KARIATHI, Sokoine University of Agriculture and Msabila Damian Charles, University of Dar es Salaam, Tanzania, project “Behaviour change to healthy food consumption and physical activity to address the triple burden of malnutrition in a rural-urban comparative study in Tanzania (FoCo-Active)”
3. GEORGES DJOHY, University of Parakou, Benin, project “Enhancing women’s agency in navigating changing food environments to improve child nutrition in African drylands (NaviNut)”

These presentations will be complemented by a facilitated panel discussion and interaction with the audience to exchange experiences and generate recommendations to enhance systemic change.

Poster sessions P3 – 17:30-18:10

1a III. Agroecology: Drivers of adoption, impact of practices and lessons learned

Room: ILWA SR29.2a

Chair: SERAINA SCHUDEL

- 619 | NAKARIN JEEATID | Stability analysis of yield and fruit quality in inbred lines of cherry tomato
- 272 | NIKOLAUS HRUSCHKA | Insights into participatory guarantee systems (PGS) in Latin America: A Paraguayan case study
- 529 | SUDHARSAN MALAIAPPAN | Krishi Kund for agroecological transition of degraded lands: Microsite for improved production and ecosystem services
- 531 | SUDHARSAN MALAIAPPAN | Agroecology homestead models: Enhancing nutrition, soil health, and income for tribal farmers
- 282 | RACHEL VOSS | Supporting locally driven agroecological transformation through agroecological living landscapes (ALLs): A practical toolkit for implementation
- 289 | MIKÉMINA PILO | Consumer valuation of organic horticultural products in Lama community of Togo
- 833 | ESTHER S. IBRAHIM | Integrating an agro-system model and remote sensing information to simulate maize and potato yields in smallholder intercropping systems on the Jos plateau, Nigeria
- 853 | KAREN MONTIEL LOPEZ | Integrating science-based evidence for the formulation of policies to scale up the use of bio-inputs in tropical agricultural systems
- 737 | TANAY JOSHI | Motivational drivers for choices of agricultural production systems: A comparative study of farmers in Tanzania and Niger

1e I. Abiotic stresses

Room: ILWA SR23

Chair: FOLKARD ASCH

- 780 | MILDRED JULIETH MAYORGA | Effect of clonal integration on drought and water-logging response in *Urochloa humidicola*
- 83 | DIAH AJENG SETIAWATI | Investigation on leaf temperature and water use of Tatsoi cultivation under light and water stress
- 128 | ANNA TABEA MENGAN | Hydroponic screening for salinity tolerance in quinoa (*Chenopodium quinoa*): Physiological mechanisms
- 477 | SUSANNE WERNER | Effects of root zone temperature on nutrient depletion dynamics and growth performance of hydroponically grown tomato
- 212 | NUTTAPON KHONGDEE | Mitigating drought stress in Arabica coffee seedlings through soil stabilisation with biochar derived from highland agricultural waste
- 547 | GECKEM DAMBO | Leaf pigment composition in wheat (*Triticum aestivum* L.) exposed to water deficit and heat stress
- 349 | AGYEYA PRATAP | Unraveling heat-stress tolerance in bread wheat (*Triticum aestivum* L.) using physiology and proteomics approaches
- 401 | JANINA SMAOUI | Salinity impacts on agriculture in sub-Saharan Africa – State of the art and call for action

2b I. Strategies for sustainable livestock systems

Room: ILWA SR29.1b

Chair: SIRAK BAHTA

- 49 | AURA BRAVO | Economic impact of *Canavalia brasiliensis* hay supplementation in beef cattle farming in the Colombian Caribbean

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- 231 | ANDREAS MILIMONKA | Effects of a *Lactobacillus buchneri* inoculant on the fermentation profile, microbial counts, and aerobic stability of corn silage at different dry matter contents
- 96 | MUHAMMAD KHAIRUL BASHAR | Assessment of oxalate content and their nutritive values of different Napier cultivars in Bangladesh
- 64 | PETERS MICHAEL | Salient considerations to address forage seeds access and use in eastern Africa
- 370 | AURA BRAVO | Impacts of *Urochloa* hybrid forage seed adoption in the global tropics 2001-2022
- 147 | HANG THI DAO | Evaluation of improved forages for improved livestock nutrition and productivity in the northwest highlands of Vietnam
- 184 | MARY ATIENO | Participatory forage evaluation for integration in mixed crop-livestock-tree systems in Lao PDR: An entry point for sustainable intensification

5b. Field to landscape experiments: practices and technologies

Room: ILWA SR29.1a

Chair: HELENA LOPES

- 53 | YOSEPHINE AVI AYU REMBULAN | Factors influencing farmers' resilience in multi-disaster threats: A case study from Indonesia
- 424 | SHARON MENDONCE | Tank cascade system: A nature-based solution for achieving climate resilience in Sri Lanka's dry zone
- 439 | TASNEEM OSMAN | Tackling the nexus: Invasive alien species, mosquitoes, and health challenges evidence from Kenya
- 451 | JANNIKE VAN BRUGGEN | Adaptive capacity of apricot farming communities in response to changing water availability in Kyrgyzstan
- 465 | RICHARD DOOSO OLOO | Genetic analysis of heat tolerance in dairy cattle performing in sub-Saharan Africa
- 607 | JANE OMENDA | Climate-smart agriculture practices influence on sorghum performance and soil water content in the central highlands of Kenya
- 743 | ANTON EITZINGER | Empowering African farmers through digital knowledge exchange networks
- 767 | ABEL CHEMURA | A double jeopardy: Climate change affects both yield and grain quality of cereals in Ethiopia

6a III. Forest and trees: ecosystem services

Room: SCHW SR09

Chair: GEORG GRATZER

- 639 | JOSEPH BAHATI | Long-term changes in land cover, floristics, and structure of Mpanga central forest reserve: Facts from remote sensing and observational plots and their relevance for forest ecology and management
- 707 | DOMINIK SURI | Influence of spiritual norms and an exogenous income shock on forest management in Guatemala
- 179 | DOMINIC AHRENS | Agribusiness in transition: Bridging forest conservation initiatives and agricultural productivity in the Gran Chaco, Cerrado and Amazon
- 343 | PAOLA MONTENEGRO-DÍAZ | Challenges and solutions for water security in an Andean region: Insights from Azuay district
- 805 | YASMINA ADEBI | Ecosystem services and interactions of the local communities in southern Benin community conservation areas: Naglanou forest and Lake Toho
- 419 | EMERSON CARIAS PADILLA | Sustainable livelihoods in recreation forest communities: A case study from Cambodia
- 633 | HAMY RAHARINAIVO | Women's engagement in forest landscape restoration (FLR) practices in Irodo watershed (DIANA region): Practices and challenges

6a III continued

- 398 | HAMZA MOLUH NJOYA | Can cooperative membership foster compliance with European Union regulations? Evidence from cocoa farmers in Côte d'Ivoire
- 810 | IDALINA DIAS SARDINHA | Linking drivers of food insecurity and ecosystem services in Africa

8a. Multiple crises: political, institutional and economic structures and challenges

Room: ILWA SR28**Chair: MICHAEL HAUSER**

- 151 | KASEM KUNASRI | Moving off the farm: Does farming efficiency matter? Insights from panel data for Thailand
- 280 | RACHEL VOSS | A conceptual framework for agency and behaviour change in agri-food systems transformation
- 310 | TATIANA RIVERA | A case study of the FARC peace agreement impact on land markets in Caquetá, Colombia
- 359 | OHEMAA AGBOLOSOO-MENSAH | Neocolonialism, empowerment or no big deal - Implications of new EU rules for organic group certification on third countries
- 372 | MANUEL DÍAZ | A systematic literature review on the relationships between land tenure, cattle farming, and climate change
- 486 | MARKUS RAUCHECKER | Combating desertification through development projects in Namibia's Waterberg region – state building instead of desertification reduction
- 522 | CLARIETTA CHAGWIZA | Impact of foreign direct investment on environmental sustainability: Evidence from South Africa
- 665 | ELIANA LINS MORANDI | The role of meso-institutions in technical assistance public policies: Evidence from urban and peri-urban farms in the largest Latin American metropolitan area
- 754 | MIGUEL ANGEL LA ROSA SALAZAR | Ideas and legacies underlying land-use dynamics of agricultural frontiers in the Peruvian Amazon
- 376 | MANUEL DÍAZ | The imperative of policy research for scaling improved forages in the tropics
- 613 | JANIKA HÄMMERLE | Assessing the relevance of local market channels for potato diversity on the Peruvian Andes

9a. Social innovations for implementing the SDGs

Room: ILWA SR24**Chair: GABRIELE SLEZAK**

- 771 | AREZOU BABAJANI | A comparative analysis of organic agro-food systems in developing and developed regions: Structures and policies
- 807 | BERNARD KWAMENA COBBINA ESSEL | Does participation in socially responsible business practices affect the performance of food processing enterprises: Lessons from youth-owned businesses?
- 588 | MD AMIRUL ISLAM | Opportunities and agricultural interventions in coastal Bangladesh: Farmers' aspirations and production strategies
- 670 | JULIA MÄNNLE | Caring, learning, doing, relating - role of training on dynamic agro-forestry in reshaping relational patterns in smallholder systems in Bolivia
- 440 | EMMANUEL TETTEH JUMPAH | Resource use efficiency under sustainable intensification practices among maize farmers in rural Ghana
- 706 | MONICA FISHER | Designing agricultural advisory to promote social equity in the diffusion of climate-smart agricultural practices: Lessons from Zambia
- 458 | ANDRÉS CHARRY | Safeguarding human and environmental rights in agricultural supply chains - A risk management toolkit

Online 3a/3b. Food and nutrition**Streaming in EXNH EH03****Chair: CHRISTIAN PLANK**

- 826 | ILIMATH LAFIA | Peer education promotes mutual nutrition learning and agri-food entrepreneurship among women in the agro-pastoral areas of northern Benin
- 592 | SAMI ULLAH | Comparative biochemical, anti-oxidative and sensory attributes of freeze-dried and air-dried 'chandler' strawberry fruit
- 380 | ANGELINE NGAMASSI KONCHIPE | Effects of *Tithonia diversifolia* on seed germination, growth parameters and the nutrient content of soybean
- 167 | AUNG ZAW OO | Phosphorus fertiliser management on grain quality and seed phytic concentrations of black rice for consumption and production
- 209 | TOLULOPE JERUMEH | Unlocking nutritional frontiers: Analysing household diet quality and health outcomes in Nigeria
- 241 | DEYSI YENNY RUIZ LLONTOP | Milk quality based on soil fertility and pasture composition in Fleckvieh systems in the Peruvian Amazon
- 255 | TADESSE FENTA YEHUALA | Improving the quality of pearl millet and wheat flour composite bread by optimising process parameters
- 357 | MARIAM NAKITTO | Evaluating standard procedures for instrumental textural analysis of steamed potato: Relationship with sensory parameters

Online 5a/5c. Online: Climate change**Streaming in EXNH EH01****Chair: MATTHEW HERRNEGGER**

- 14 | TOBIAS CREMER | Biosphere learning laboratory Lake Bosomtwe: Biosphere reserve management in times of climate change
- 296 | LUZ ASIO | Crop management practices and coping strategies of rice farmers in typhoon-prone Eastern Visayas, Philippines
- 556 | HOSSEIN MOSTAFAVI | Modelling of the climate change impacts on the Iranian riverine fish species diversity as a hot spot area
- 318 | DEYSI YENNY RUIZ LLONTOP | Greenhouse gases in livestock farming: The case study in Fleckvieh cattle in the Peruvian Amazon
- 581 | POOJA KORI | Bearing the brunt: Gendered impacts of heat stress on agri-food systems
- 345 | KOSSI-MESSAN JACQUES AGBOKA | Identification of potential future areas for sustainable cashew production in Togo using the maxent model
- 125 | LALAINA ANDRIANARIJAONA | Fertiliser management effect on rice growth and CH₄ emissions in lowland paddy rice in Madagascar
- 141 | DINA NABASUMBA | Adaptation of crop portfolios to perceived indicators of climate variability by smallholder farmers in south-western Uganda
- 809 | DUYN HOANG VU | Water-saving irrigated rice cultivation promotes rice plant growth and improves farmers' income
- 26 | SAHAR MEHANNA | Impacts of climate change on fisheries resources and food security in Egypt
- 715 | AMIT KUMAR SRIVASTAVA | Forecasting grain maize yield in sub-Saharan Africa: A hybrid modelling approach
- 612 | KAROLINA ŁACHMACKA | Impact of climate change on oceanic ecosystems: Challenges, adaptations and strategies
- 379 | MASOUD YAZDANPANAH | How does social capital promote adaptive behaviour among Iranian farmers?

Poster sessions P4 – 18:20-19:00

1b. Agroforestry for reconciling ecosystem functions, biodiversity and productivity

Room: ILWA SR29.2a

Chair: JOHANNA JACOBI

- 750 | OLFA BOUSSADIA | The impact of soil management, agroecological zone, and season on ground-dwelling insect diversity in Tunisian olive groves
- 557 | THANCHANOK YOUSEN | Effects of different coffee cropping systems on nutrient status and yield of arabica coffee
- 484 | DJIBRIM ABDOULAYE | Diachronic study of the dallo Maouri *Borassus aethiopus* mart. parkland in the south-western Niger employing remote sensing
- 699 | THAO PHAM | Revealing yield drivers in Sulawesi cocoa agroforestry: The primacy of farm management over shade levels
- 692 | RAMA NARAYANAN HARIHARA SUBRAMANIAN | Land use alters nocturnal insect communities and their contribution to coffee pollination in India's western Ghats
- 629 | JOHANNES HERZOG | Shallow groundwater in sustainable agriculture and water management: Insights from Ghana's cocoa farming landscape
- 562 | LILIAN BECK | On-farm challenges and solutions for small-scale farmers to establish agroforestry: A case example from Cambodia
- 324 | AMISU MOHAMMED | Effect of zinc and boron on maize grain yield in agroforestry parklands of northern Ghana
- 776 | GERONIME MARLENE HOUETO | Characterisation of shea tree and maize agroforestry parklands in northern Benin
- 622 | KAROLÍNA CHALUPOVÁ | Comparison of the amount of carbon sequestered in different land use in the Amazon highland
- 655 | DIANA CRISTINA MORENO VARGAS | How to foster transformative solutions in agriculture through the WEF-biodiversity nexus?
- 747 | NISHANTH GURAV | Role of folk nomenclature in understanding and managing plant diversity
- 708 | HELENA CRISTINA SERRANO | Decomposition rate and other indicators for ecosystem services evaluation in African agroecosystems

1e II. Abiotic stresses

Room: ILWA SR29.1a

Chair: FOLKARD ASCH

- 698 | JANE CYPRIANA PEDINEDI JERALD | The effect of potassium fertiliser on the physiological responses of field-grown sweetpotato to salinity
- 131 | HEMANTH KUMAR PUPPALA | Cultivar-specific responses to salinity: Investigating growth and ion distribution dynamics in *Solanum lycopersicum* under variable VPD conditions
- 782 | JOHANNA VOLK | Between eustress and distress: Tracing hormesis of salinity in a sweetpotato clonal pool
- 285 | ANNKATHRIN ROSENBAUM | Agronomic and remote sensing-based assessment of paddy rice responses to salinity stress in Andalusia, Spain
- 281 | SHIKHAR ACHARYA | Does lettuce and pak choi benefit from intercropping with the halophyte glasswort?
- 180 | BARBORA MOTYLOVÁ | Impact of environmental stress on bioactive compounds in shiitake mushrooms
- 760 | PREM SAGAR MATHANGI | Assessing physiological responses in different leaf positions of wheat genotypes under water deficit

2b II. Strategies for sustainable livestock systems

Room: ILWA SR29.1b

Chair: SIRAK BAHTA

- 104 | RONA CATHRINA LIZARDO | Fermentation products, nutritive value, and aerobic stability of pineapple by-product silage prepared using *Lactobacillus buchneri*
- 816 | RISMA RIZKIA NURDIANTI | Evaluation of nutritional composition of tropical forages and relationship between fibre fraction and fibre digestibility
- 90 | ROMANA ROSCHINSKY | 70 years of small ruminant research in Fiji: Review and current challenges
- 176 | AURA BRAVO | Adoption factors of forage innovations in cattle production systems in the northwest highlands of Vietnam
- 363 | DAGMAR BRAAMHAAR | From rural to urban: Exploring livestock farming practices in urbanizing landscapes
- 197 | NAHLA ELHASSAN | Determination of dietary regimen of *Moringa oleifera* leaves on selected blood constituents, productive traits, reproductive performance in Nubian goat
- 697 | ELIZABETH YEBOAH | Potential options to sustainably intensify mixed crop-ruminant systems in northern Ghana
- 331 | TERRY ANSAH | Biomass yield and nutritive value of pigeon pea (*Cajanus cajan*) forage as affected by the coppicing regime and spatiotemporal storage

3a. Sustainable diets and nutrition for different target groups

Room: ILWA SR24

Chair: BARBARA STADLMAYR

- 33 | ORKHAN SARIYEV | Poverty and food security impacts of sustainable intensification: Evidence from Ethiopia
- 112 | JANOSCH KLEMM | Individual-level drivers of food choices and diet quality among adolescents in urban West Africa: Evidence from Accra, Ghana
- 119 | THI SAU NGUYEN | Improving urban consumers' access to safe vegetables: Case for factories and workers in Hanoi, Vietnam
- 302 | INA CRAMER | Exploring Kenyan mothers' attention and child food choice through eye tracking in a natural environment
- 510 | SIMEGN ALAMIREW | Exploring sociocultural determinants of dietary behaviour among rural women of reproductive age in Amhara region, Ethiopia
- 569 | IRMGARD JORDAN | Navigating nourishment: Unveiling disparities between rural and urban food environments—a case study in Kenya
- 609 | SRI OKTAVIA | The role of international and national legal framework for the prevention and reduction of food loss and waste (FLW)
- 301 | VICTORIA KARIATHI | Food literacy: Novel strategy to address hidden hunger among women in rural and urban Tanzania
- 658 | IVANA CARYNTHIA LIGO | Menugal farming: Sustaining food security, climate resilience, and cultural heritage in Borneo
- 101 | SIGRUN PRENNER | Linkages between food narratives and eating habits of low-income households in informal urban settlements in Nairobi, Kenya
- 733 | JUDITH HENZE | Innovative solutions for food security: Examining the nutritive gardens systems in Burkina Faso

4a I. Sustainable water and fisheries management

Room: ILWA SR27

Chair: EMMANUEL FRIMPONG

- 59 | CHRISTIAN LÜCKSTÄDT | Impact of dietary potassium diformate on the productivity index of *Litopenaeus vannamei* shrimp under tropical conditions

4a I. continued

- 703 | EMMANUEL NYAMEKYE | Successful captive propagation of *Coptodon discolor*: An IUCN red list near-threatened fish in Ghana
- 796 | JUAN SEBASTIAN VALENCIA SANCHEZ | Sociocultural indicators in seed production and conservation in the Atrato river basin - Colombian Pacific
- 568 | ANDREAS BAUER | Indigenous knowledge on river health management: The case of river Mayanja, East Africa
- 709 | ISABEL WAGARA | Integrated agri-aquaculture systems for food security, poverty reduction, and resilience in Eastern Africa
- 468 | MICHAEL STUMMER | Impact of multiple socio-ecological stressors in the Purnio river basin, Colombia
- 824 | IDRISSE KABORÉ | Water and its biological resources sustainability in tropical developing countries: Aquatic ecosystems health assessment

6b I. Trees outside forests: agroforestry and urban trees**Room: ILWA SR29.2b****Chair: CHRISTOPH KLEIN**

- 412 | HAFTE TESFAY | Enhancing landscape connectivity through agroforests: The case of Gedeo's agroforests in Ethiopia
- 654 | JUAN ANDRÉS CARDOSO | Leveraging state-of-the-art computer vision models for tree monitoring in silvopastoral systems
- 259 | ARMEL GAEL MOUAFFO | Characterisation of managed ecosystems in buffer zones of the Dja biosphere reserve: Implications for tree domestication and biodiversity conservation
- 453 | MARIUS HOBART | Target-oriented spectral index distribution parameters for estimating leaf chlorophyll content from three-dimensional RGB point clouds in an olive orchard in Tunisia
- 835 | REAGAN OTIENO OCHIENG | Analysing the charcoal value chain in the changing landscape of Turkana, north-west Kenya
- 420 | TEDI YUNANTO | Differences in planting methods on growth rates of *Calliandra calothyrsus* in ex-limestone mining areas

8b. Multiple crises: natural resources, food and livelihoods in fragile settings**Room: ILWA SR28****Chair: JOHANNES WALDMÜLLER**

- 8 | MOJTABA NIKZAD | Assessing navigating currency fluctuations on sustainable agricultural trade balance: Insights from Iran's economic sanctions
- 48 | ABRAHAM ZAKARIA | Effects of land tenure security-driven afforestation on household food security in Ghana
- 75 | VALERY NDAGIJIMANA | Mapping social cohesion in restoration landscape in western Rwanda: Evidence from Rutsiro and Ngororero restoration sites
- 174 | AURA BRAVO | The seed system landscape for improved forages in Vietnam: Threats, trends, and opportunities
- 236 | HOA BUI THI KHANH | Modelling the impact of land use choices on livelihoods and food environments in peri-urban Hanoi
- 276 | HANNAH KAMAU | Land consolidation in Kenya: An ex-ante evaluation of benefits, costs, and risks
- 391 | MITCHRIS CHAPMAN KODAM | Cocoa farm reconversion in Ghana's cocoa regions: The influence of farm and socio-economic factors
- 452 | RACHIDI ABOUDOU | Positive impact of the COVID-19 pandemic in Africa: A progress towards the United Nations Sustainable Development Goals

597 | MITCHELL MCTOUGH | Augmenting anticipatory action and resilience in fragile, data-challenged, conflict-affected settings: The case of Tigray, Ethiopia

Online 3c. Online: Socio-economic development and the food environment

Room: EXNH EH01

Chair: JOHANA MARC CASTILLO RIVERA

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- 35 | ERMIAS TESFAYE TEFERI | Does diversification of farming reinforce diversity of diet?
- 51 | OBSE FIKIRU | Effect of packaging materials, storage methods, and duration on functional qualities of red-hot pepper powder
- 827 | NICOLE SARAH | Local innovation support facility (LISF) as a catalyst for farmer creativity in developing innovative solutions for food and nutrition security in northern Benin
- 334 | DORCAS TWUMWAA GYAN | Preserving resources, securing livelihoods: Reducing food loss and waste for sustainable development in Ghana
- 82 | JOHANA MARCELA CASTILLO RIVERA | PlaSa Colombia: A data-based systemic approach for transforming food systems
- 356 | DONALD KIRWA | Consumer preferences and willingness to pay for certified high-iron beans among urban households in West Pokot County, Kenya
- 418 | EDUARDO DUQUE-DUSSAN | Peaberry coffee beans shape influence final cup quality
- 762 | ADEYINKA ADEDIWURA | Consumers' willingness to pay for certified and hygienically handled smoked catfish in Ibadan North local government area, Oyo State, Nigeria
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Online 6a. Forestry, environmental conservation and ecosystem services

Streaming in room: EXNH EH03

Chair: N.N.

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- 367 | N. INNOCENT GBAI | Prospective analysis of land use dynamics in the town of N'Dali (North-East Benin)
- 126 | VAHATRA RAKOTONINDRINA | Spatio-temporal changes of soil microbial communities under different land cover types in eastern Madagascar
- 394 | YANDRO JIMENEZ | Indications for forest restoration of the Turquino interpretive trail, Alto del Naranjo – La Platica sector, Cuba
- 671 | THI THUY DUONG NGUYEN | Silver on the mountain: Value chain of *Morchella* spp. in Nepal
- 682 | BORIS OUATTARA | Filling gaps in landscape fires detection, emission and management in Africa
- 341 | JOSHUA AGGREY | Challenges and strategies for post-mine land restoration efforts in Ghana
- 432 | YANDRO JIMENEZ | Bases for the sustainable use of non-timber forest products in the La Platica community, Cuba
- 210 | AFUA AMPONSAH AMANKWAH | Deforestation in forest-savannah transition zone of Ghana: Boabeng-Fiema monkey sanctuary
- 175 | KEBEDE CHAKA | Assessment of cooperatives' capacity gaps in forest management and capacity building activities to improve performances
- 316 | FIONA WEIRAUCH | Community-based fire management lessons learned from two provinces in Cambodia's Tonle Sap Biosphere Reserve
- 664 | THAM LA THI | Short or long plantation rotation? Analysis of economic efficiency of Acacia timber production in Vietnam
- 382 | MENGESTEAB HAILU UBAY | Aboveground biomass models for trees and shrubs of exclosures in the drylands of Tigray, northern Ethiopia
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Programme overview– Friday 13.09.2024

08:30-13:15	Art in Science: Photo Exhibitions	ILWA SR22 SCHW
	Art in Science: Agroecology Film Festival	ILWA SR21
09:00-10:00	Poster sessions P5	page
	<i>Streaming of online poster sessions</i>	EXNH EH01 EXNH EH03
10:00-10:30	<i>Coffee and tea break</i>	AULA SCHW & ILWA
10:30-12:30	Plenary session	TÜWI HS 01
	Final input and discussion	
	<i>Streaming of final input and discussion</i>	EXNH HS 01
12:30-12:40	Arts in Science: Photocompetition - best photo / best photo series	TÜWI HS 01
12:40-12:50	Poster Awards	TÜWI HS 01
12:50-13:00	Conference review by the student reporters	TÜWI HS 01
13:00-13:15	Closing remarks and handing over to University of Bonn, Germany	TÜWI HS 01
	End of Tropentag 2024	
13:15-14:15	<i>Lunch break</i>	
14:30-17:30	Post-conference workshops	page
15:30-16:00	<i>Coffee and tea break</i>	AULA SCHW & ILWA

FRIDAY 22.09.2023

Poster sessions P5 – 09:00 - 10:00

1c. Soil and plant nutrition management

Room: ILWA SR29.2a

Chair: KATHARINA KEIBLINGER

- 181 | JEMROSE CHINEMEREM EHIBE | Phosphorus fertiliser management for high yields in groundnut-maize rotation system in Ebonyi state Nigeria
- 342 | EMMANUEL NGONGA | Understanding spatial variability of soil physical properties to better inform rainfed soybean and maize cultivation in Southern Africa
- 68 | NAOKO KAWASAKI | Productivity of soybean-maize-mung bean intercropping in East Java, Indonesia
- 532 | SHEM KUYAH | Maximizing carbon sequestration through integration of pigeon pea in smallholder systems across South Asia and Africa
- 821 | SIRIKI FANÉ | Plant leafy biomass and their manure derivatives effect on *Sorghum bicolor* L. yield in the Sudano-Sahelian zone of Mali
- 779 | OLIVIER KASHONGWE | Manure improvement options for smallholder farmers in the Savannas of West Africa
- 761 | ROBERT KAHLE | Nitrogen availability as result of interaction between fertiliser and soil properties
- 690 | FAPAILIN CHAIWAN | The potential use of diatomaceous earth for improvement of paddy rice production in Thailand
- 683 | CHARLES CHIGEMEZU NWOKORO | Improving rice production through digital technology: Validating the RiceAdvice decision support tool in Mali
- 798 | JACOB KAINGO | Effect of seedbed depth on ginger (*Zingiber officinale*) yields in Uganda
- 788 | ABIOLLA ROBERTSON KÉVIN AMOUSSOU | Assessing impact of forest landscape restoration on the erosion of agricultural land in sub-Saharan Africa Mékrou's watershed

2d. Poultry

Room: ILWA SR24

Chair: ERIC TIELKES

- 80 | OLUWATOSIN DOSUMU | Evaluating the influence of *Lagenaria breviflora* fruit extract on growth performance, hematological parameters, and serum biochemistry in broiler chickens
- 621 | DESMOND AYERTEY | Effects of disease control strategies on the efficiency of chicken production in Ghana's Bono region
- 774 | OLUWOLE SIKIRU BANJO | Awareness and mitigation measures of aflatoxin among poultry farmers and feed millers in Ijebu-Ode and Igbesa areas of Ogun state, Nigeria
- 312 | EBENEZER MBA | Assessment of cassava as a partial substitute for maize in local chicken diets: Performance and economic evaluation
- 91 | OLUWAGBEMIGA ADELEYE | The effect of algal biomass supplementation on performance and welfare of rabbit does and kits

3c. Socio-economic development and the food environment

Room: ILWA SR27

Chair: IRMGARD JORDAN

- 36 | TOBIAS LANDMANN | A spatially explicit framework for biodiversity intactness reporting in Africa
- 173 | KRISTEN E BRYK | Navigating complexity: A framework for updating and monitoring forecasts of nutrition interventions in evolving food environments
- 240 | EMIL BEGINKULOV | Consumer preferences and willingness to pay for certified dried fruits and nuts in Central Asia
- 250 | ABED AL KAREEM YEHYA | Diversity and economic potential of home gardens in different agro-ecological zones of Lebanon
- 307 | JANNA PFISTER | Empowerment as an effect of participation in participatory guarantee systems (PGS): A case study in Argentina
- 314 | CHIKE MADUEKE | Understanding the micro-nutrient chain in northern Ghana
- 377 | NILOOFAR KHALILI | Forecasting adults' inclination towards adopting healthy dietary habits: A case study from rural and urban Tanzania
- 430 | LUCY APIYO ADUNDO | A photovoice study on the influence of the built food environment on individuals' food choices
- 469 | IRIS SCHRÖTER | Influence of front-of-pack design of child food products on the choice behaviour of Beninese customers
- 499 | TOSIN AKINGBEMISILU | Evaluation of build food environments mapping approaches for policy decision making: Perspective from Kenya, Benin, Uganda and Ivory Coast
- 533 | ALEXANDER MORGENSTERN | Challenges in the use of a solar ice production and drying systems in Kenya

4a II. Sustainable water and fisheries management

Room: ILWA SR29.2b

Chair: EMMANUEL FRIMPONG

- 705 | GIRI PRASAD KANDEL | Nexus of climate change, smallholder farmers food security and rural-out migration in Nepal: From fields to new horizons
- 815 | VINCENT PAUL-SANON | Contribution to the identification of responses to the effects of socio-ecological stressors on aquatic ecosystems in Burkina Faso
- 411 | CHRISTIAN PYERIN | A transdisciplinary approach to hydro-meteorological risk reduction in an informal semi-urban neighbourhood in El Salvador
- 813 | TILL AYASSE | Integrating field observations and community insights to evaluate mangrove ecosystem health and conservation strategies in Funzi Bay, Kenya
- 595 | GABRIEL BÖNNHOFF | Resilient interfaces for integrated land and water resource management of various catchments in Ethiopia, Kenya, Uganda, Mozambique, and Burkina Faso
- 503 | ANDREAS BAUER | Multiple lines of evidence for assessing human pressures on aquatic ecosystems in Kenya and Uganda

5c. CC modeling studies and scaling

Room: SCHW SR09

Chair: IDRIS KABORE

- 111 | CAROLIN AUWÄRTER | Toward a better future, how resilient food systems enhance the implementation of the SDGs, an Austrian case study
- 121 | ALEXANDER CANO | Drivers of farmers' adaptive behaviour to climate change: The 3F-SEC framework
- 405 | NAGHMEH MOBARGHAEI | Investigating the effects of climate change on national parks in Iran
- 423 | SPRENGER ARVID | Raising adaptive capacities through agrometeorological learning – lessons from Burkina Faso and Senegal

FRIDAY 13.09.2024

5c. continued

- 475 | JONAS MEIER | How earth observation closes the gap between *in-situ* greenhouse gas measurements and regional earth system modelling in West Africa
- 485 | LARS CASPERSEN | Climate change threatens the viability of temperate fruit orchards in the Mediterranean region
- 493 | NELE GLOY | Agricultural water demand for agroforestry systems in the Sahel in a changing climate
- 535 | MARIANA VEZZONE | Response of dryland crops to climate change: Understanding the nexus between water and nutrient use efficiency, nutritional security, and food safety
- 745 | MÉLIKA KÈMI VODOUNHESSI | Assessing the impacts of climate change on agricultural land suitability for cash and staple crops in Ghana and Benin
- 773 | SAMUEL KAYAMO | A discrete stochastic programming approach to quantify the financial value of seasonal forecasts to smallholder farmers in the Central Rift Valley of Ethiopia
- 794 | ADAM MUHAMMAD ADAM | The ongoing journey of intercropping modelling: Key insights from the model developers and expert users on fundamental assumptions

6b II. Social forestry, community forestry**Room: ILWA SR29.1a****Chair: CHRISTOPH KLEINN**

- 716 | MALENA TORRES ULLOA | Family labour and farm practices among cocoa producing farmers in the coastal region of Ecuador
- 115 | CHRISTOPHER KLAPPERICH | Rethinking reforestation: Countering native tree narratives in the Philippines
- 329 | KLARA KEGLER | Impact of shade tree species and soil type on root traits in cocoa agroforestry system
- 540 | JEREMIE GILLIERON | Microcredit dynamics and gender empowerment in Kampong Thom community forestry
- 575 | AMANDA COOKE | Relationship between habitat characteristics and acoustic ecological indicators in cocoa agroforestry systems of Ghana
- 772 | KAZEEM AKANNI JIMOH | How do alternative livelihood activities impact poverty reduction in forest-based households? Evidence from Omo Biosphere Reserve, Nigeria
- 518 | RISHABH MAHENDRA | Exploring support for ecosystem cooperatives: Assessing environmental and cooperative values
- 511 | THE TRUNG HOANG | Leveraging citizen science for enhanced forest fire management in tropical and subtropical forestry
- 317 | MIRNA ASNUR | Maintaining and restoring sustainable food systems on indigenous people's lands through social forestry in Indonesia
- 516 | FERDINAND ADU-BAFFOUR | Local communities' preferences and willingness to contribute communal labour towards rehabilitating small-scale mined community lands: A choice experiment approach

9b. Technological innovations for implementing the SDGs**Room: ILWA SR29.1b****Chair: SANDRA NICOLICS**

- 429 | MD REZAUL KARIM | Role of network for diffusion and adoption of climate-smart agriculture technologies in Bangladesh
- 466 | GOKUL PAUDEL | Can sustainable intensification boost agricultural productivity and fertiliser use efficiency? Insights from wheat systems in the eastern Indo-Gangetic Plains

9b. continued

- 700 | PRIESKARINDA LESTARI | Tropical waste valorisation for sustainable resources: Developing cellulose-based biodegradable paper from coffee and corn husks
- 742 | INNOCENT OKONKWO | The impact of demonstration farms on sweet-potato production scale and determinants in Benue state, Nigeria
- 757 | GIANG PHAM | Terra-i+: Satellite-based innovation to monitor agroforestry supply chain sustainability
- 9 | DERBOVEN NILS | Remotely engineering irrigation schemes in data-scarce project environments: Case study in SNNPR Ethiopia
- 31 | ADAUGO OKOLI | Smallholder agriculture takes root in climate action: Evaluating soil organic carbon monitoring
- 169 | MANUEL DÍAZ | Analysis of the implementation of the policy guidelines for sustainable bovine livestock farming 2022–2050
- 238 | THEODORE ASIMENG | Improving innovation adoption among African smallholder farmers in West Africa: Implementation research with the “follow the innovation” method
- 299 | COSMAS LUTOMIA | From afterthought to forefront: Transforming agricultural resilience through co-designed socio-technical innovations
- 428 | TOSIN SOMORIN | Development of a multi-criteria-based decision support tool for circular resource recovery and reuse business models

Online 7a/9a. Online: Gender and social innovations**Streaming in room: EXNH EH01****Chair: JULIA MÄNNLE**

- 29 | FARAI ALICE GWELO | How mobile apps are transforming smallholder agriculture: Appropriation of mobile apps for fulfilment of smallholder farmers' interests
- 819 | EVELINE MARIE FULBERT WINDINMI COMPAORÉ | Behaviour and attitude toward integrated pest management in Burkina Faso: A gender length perspective in the Cascade region
- 577 | ELJO DACI | ALBAMAP - Promoting optimal map cultivation in Albania
- 332 | GLEJDIS HAJDINI | Map production in Albania - Traditional cultivation and challenges for sage and lemon balm
- 417 | JOHANNA CARVAJAL | Supporting conservation in rural Andean communities: Linking water, human well-being and the sustainable development goals
- 726 | SELORM Y. DORVLO | Strategies for implementing gender-transformative sustainable agricultural mechanisation within smallholder agriculture production
- 792 | PEDRO PABLO BACCA ACOSTA | Conflict dynamics and opportunities for rural women's associativity under agroecological production schemes in Nariño, Colombia
- 473 | RASHIDA CHANTIMA ZIBLILA | Equal benefits or not? Farmer perceptions of the cowpea living mulch technology in northern Ghana
- 579 | THURANIRA MURIUKI | Towards a circular production system in the coconut value chain: Actor, roles, linkage and constraints in Kilifi county, Kenya
- 146 | MASOUD YAZDANPANAH | Assessing Farmers' readiness to embrace online social networks as educational tools: Base on TRI
- 505 | EMMANUEL LETAA | Do attitudes of men and women towards gender equality affect women's economic empowerment?

Online 8a. Online: Multiple crises

Streaming in EXNH EH03

Chair: JANNA PFISTER

- 27 | FARAI ALICE GWELO | Digital transformation of smallholder agriculture: Enrolment of smallholder farmers into global production and marketing paradigms
- 323 | ANINWAA BOAKYE-DANKWA | Transformation of the Ghanaian cocoa system: A multilevel perspective
- 672 | SARAH ENIOLA | Multidimensional effects of migration on output of farming households in southwest Nigeria
- 720 | BELINDA NAA SAAKOR DJABENG | Urban expansion and its impact on sustainable food production: A case study of Dodowa, Ghana
- 243 | XINRAN WANG | An analysis of challenges and opportunities for upscaling the organic fertiliser industry in Kenya
- 501 | ADMASSU TESSO HULUKA | Comparative study on rural and urban multidimensional poverty in conflict-stricken East Wollega zone, Ethiopia

Plenary session Friday 13.09.2024 | 10:30 – 13:15

10:00 – 10:30

Coffee break

10:30 – 12:30

Final input and discussion |

TÜWI HS 01

Moderation: MICHAEL HAUSER, BOKU University

**NZULA KITAKA**

Egerton University, Dept Biological Science, Kenya

"Is cooperations and partnerships, the transformation recipe to sustainable development in times of crises?"

Prof. Nzula Kitaka is an Associate Professor and researcher in Aquatic/Water Science at Egerton University, Kenya, and currently serves as Vice President of Africa-UniNet, a consortium of African and Austrian universities. She previously directed Egerton's Board of Postgraduate Studies. Prof. Kitaka has led numerous international research projects, including the "Trans-Path-Plan" focusing on water for food and river basins, funded by the Dutch Ministry of Foreign Affairs. She has been pivotal in capacity development, notably organizing the Tropical Limnology Course, which evolved into a regional training program and an International Joint Degree in Limnology and Wetland Management. Prof. Kitaka is also involved in various academic collaborations, such as the Joint Master's Degree in Aquatic Ecosystem Management with Ethiopian universities. She holds advisory roles in several high-profile boards, including the EPSRC Centre in the UK, contributing significantly to water science and education globally.

FRIDAY 13.09.2024

**JENNIE BARRON**

Swedish University of Agricultural Sciences (SLU),
Dept. for Soil and Environment, Uppsala, Sweden

“Rainfed agriculture - an essential pillar of sustainable and climate resilient food system”

I am professor in ‘Agricultural Water Management’ at Department of Soil and Environment, Swedish University of Agricultural Sciences (SLU), Uppsala Sweden since October 2017. My research interests are in agriculture, soil health and water management, such as soil physical properties and functions, drainage, irrigation and storage for sustainable intensification in tropical and temperate regions. I currently explore agro-climatic trends about soil physical properties in rainfed systems, to better understand rainfed systems potential in future climate and food supplies, with empirical and modelling approaches. I hold an MSc Ag.Eng., SLU, and PhD in NRM, Stockholm University. Over the last 25 years, I have worked with interdisciplinary agricultural, water and land management-related research, policy and development in sub-Saharan Africa and Asia with explicit outcome-impact orientation IWMI, SEI, Stockholm University and ICRAF among others. My work regularly contributes to international and national research and policy processes incl., including EU Mission Soil projects, the Swedish Environmental Advisory Council, FAO, and CG System institute on water, agricultural development and sustainability.

**JOHANNES M. WALDMÜLLER**

Department of Political Science, International Politics,
University Vienna, Austria

“Beyond sustainable development in the era of planetary crises: Challenges and insights from Latin America towards deep green transformation”

As current Assistant Professor at IPW in the field of International Environmental Politics, and Climate

Change Advisor for Brot für die Welt/Diakonie-ACT Austria, Johannes' work is concerned with international cooperation in the field of climate action and humanitarian aid, as well as academic research in these fields through the interdisciplinary Latin America Research Network at the University of Vienna. Previously, he was Senior Expert in Green Transition Politics at the Centre for Social Innovation (ZSI) Austria. In this position, he collaborated in evaluating the Horizon Europe Framework Programme for the European Commission in the light of the European green transition. Between 2016 and 2021, he was Full Professor in Environmental and Development Politics at the Universidad de Las Américas in Quito, FLACSO and Polytechnic University of Ecuador. After graduating with a PhD in Development Studies from the Graduate Institute of International Studies in Geneva, and Master's degrees in Philosophy and International Development from the University of Vienna, he was a postdoc at the New York University (2015-2016).



JOHANNA JACOBI

Department of Environmental Systems Science, Agrarökologische Transitionen, ETH Zürich, Switzerland

“Agroecology and living well: Towards agri-food systems within the ‘doughnut’”

Johanna Jacobi leads the Agroecological Transitions research group at ETH Zürich. She studied Geography, Biology and Social Anthropology at the University of Freiburg. For her PhD studies at the University of Bern, she researched with the organic cooperative El Ceibo on the resilience of cocoa farms in Bolivia to climate change. After a postdoctoral project at the University of California, Berkeley, on agroforestry, she lived and worked in Bolivia for several years, researching food system sustainability and resilience in Latin America and Africa. Her research focuses on agroecology as a transformative science, a practice and a social movement using participatory action research, transdisciplinary methods and approaches from political ecology.

12:30-12:40	Photo competition - best photo / best photo series TÜWI HS 01
12:40-12:50	Poster Awards TÜWI HS 01
12:50-13:00	Conference review by the student reporters TÜWI HS 01

13:00 – 13:15 Closing ceremony

Closing remarks by ERWIN KÜNZI, Austrian Development Agency (ADA) and handing over to University of Bonn, Germany by ANDREAS MELCHER, BOKU University

End of Tropentag 2024

13:15-14:15	Lunch break
14:30-17:30	Post-conference workshops
15:30-16:00	Coffee and tea break

Thank you very much for your attendance and see you next year at TT25 in Bonn

Post-conference workshops – Friday 13.09.2024 – 14:30–17:30

W27: Approaches to upscaling agroforestry | ILWA SR23

W20: Rocking soils? How to conduct silicate rock powder experiments in the tropics | ILWA SR21

W21: Agroecological Transitions in Kenya: Pathways and Lessons
| EXNH EH04

W22: Plants, Microbes, People & Learning Landscapes: Biological nitrification inhibition (BNI) for Sustainable Agriculture | ILWA SR26

W23: Making better photos of research in and on landscapes and agriculture
| ILWA SR25

W24: Let's explore how to integrate gender sensitivity in agricultural research and projects | ILWA SR23

W29: Lessons learned from Tropentag for integrated land water resources management in Africa | ILWA SR24

Suggested Visits and Tours

Friday 13.09.2024 – 14:00 -18:15

Natural History Museum

Tip: The Thin Skin of the Earth – Our Soils. Traveling exhibition of the SENCKENBERG Museum für Naturkunde Görlitz.

Weltmuseum Wien

Tip: On the Backs of Camels

Haus des Meeres - See the fascinating underwater world and more...

Tip: visit and see danube sturgeons, members of a BOKU coordinated nature conservation project, more info [here](#).

Wien Museum

- free entrance

The museum's permanent exhibition "Vienna. My History" offers a chronological tour of the city — from the first settlement to the present day.

Kunst Historisches Museum Wien

Tip: Guided Tours

City tours by bus

On a city tour by bus, you'll learn about Vienna and the most beautiful sights in comfort and relaxation – from the "classics" along the Ringstrasse – like the State Opera, Imperial Palace, City Hall, and MuseumsQuartier – through to Schönbrunn Palace or Danube Island, all the highlights are included.

FRIDAY 13.09.2024

Space for your notes:

Organised by:

BOKU University - Institute of Development Research

ATSAF - Council for Tropical and Subtropical Agricultural Research



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K+S Kali GmbH



Research Institute of Organic Agriculture FiBL



University of Florence, Italy



Austrian Development Agency



Aussenwirtschaft Austria



Landwirtschaftskammer Wien



The Association for the Promotion of International Development
and Stability

