

Welcome

Dear participants of the Tropentag 2023 conference,

On behalf of the Leibniz Centre for Agricultural Landscape Research (ZALF) and the Humboldt-Universität zu Berlin, we welcome you to the Tropentag 2023 conference in Berlin.

The theme of this year's conference is

Competing pathways for equitable food systems transformation: trade-offs and synergies

The need to transform food systems is becoming increasingly urgent. COVID-19, climate change, conflicts, wars, and growing social and income inequalities are exposing the vulnerabilities of our food systems. Although food systems are producing as much food and calories as ever before, global crop and dietary diversity are steadily declining. This has increased the vulnerability of our environment and food production to climatic shocks, with negative impacts on human nutrition and health. The importance of looking at food systems as a whole and transforming them to be just, equitable and sustainable has been widely recognised.

But what such a transformation of food systems should and could look like remains hotly contested. Some argue for more technical solutions, such as climate-smart agriculture while others call for a paradigm shift towards alternative food systems such as agroecology. Despite the ongoing debate on the direction and solutions for food systems transformation, it is clear that priorities differ across countries, regions, and households, with different trade-offs and synergies.

Tropentag 2023 invites a debate on competing pathways for food systems transformation, drawing from diverse perspectives, disciplines and methodologies. Plenary discussions, thematic sessions, guided poster tours, and workshops will engage participants in a lively debate on the benefits and costs of different of food systems transformation pathways and the associated trade-offs and synergies for different stakeholders.

We wish you a great conference!

Berlin, September 2023

Stefan Sieber, Dagmar Mithöfer, Caroline Hambloch, Wolfgang Bokelmann, Heike Schobert, Lisa Brandt, Eric Tielkes (Tropentag 2023 organisation team)

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Poster sessions P3 | 17:45 – 18:30

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...some data

We have 132 oral presentations in 29 sessions and 388 poster presentations in Berlin and another 103 online in 58 sessions. Six plenary keynotes will cover the overall theme of the conference.

Almost 1100 persons from 82 countries registered for our event – 230 to participate online.

Good to know



Registration desk & conference office

The conference office with the registration is located in Room 1.102 (first floor).



Address:

Humboldt-Universität zu Berlin
Seminar Building
Dorotheenstrasse 24, 10117 Berlin
Germany
GPS coordinates 52.519690, 13.392973
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 in the conference office free of charge.



Wireless internet

WiFi is available throughout the conference venue:

- Network: `_Free_Wifi_Berlin` (No username or password required.)
- Eduroam (if member of the eduroam community):
Username: your personal username
Password: your personal password



First Aid / Emergency

International emergency call: 112. First Aid Kits are available at the registration desk.



Online programme

You can find the conference programme also on the whova application:
https://whova.com/portal/webapp/trope_202309/Agenda



Coffee breaks / Please use your own mug for beverages.

Coffee, tea, water, snacks and fruits are available free of charge at two locations:
Entrance hall of the seminar building (Dorotheenstrasse 24)
1st floor in the main building (Unter den Linden 6)



Lunch

Lunch can be purchased at these locations (and more):

- Café Weltgeist (student café) – seminar building (ground floor);
- Off campus:
Kaffeiserie (café) behind the seminar building (Universitätsstrasse 2, 10117 Berlin);
Many restaurants on Georgenstrasse & train station Friedrichstrasse and around;
Café Felix & restaurant at Staatsbibliothek zu Berlin (Unter den Linden 8, 10117 Berlin)

The canteen of Humboldt-Universität can only be visited if you hold a MensaCard of the Humboldt-Universität zu Berlin.



Prayer room / room of silence

A room is available in the seminar building on the 6th floor, room No. 1.604.



Smoke-free conference, smoke-free campus

Please note that the campus of the Humboldt-Universität zu Berlin is non-smoking.



Parent-child rooms

The Humboldt-Universität campus has various parent-child rooms. Please bear in mind that these rooms are for use by parents with children and mothers-to-be only.

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 green T-shirts and Tropentag badges!

Student reporters

Also 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/tropentag>

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

<https://www.youtube.com/user/tropentagmedia/feed>

https://twitter.com/atsaf_tropentag

https://www.instagram.com/atsaf_tropentag/

What you should know about the oral and poster presentations

Oral presentations

All oral presentations should be uploaded on the day prior to the presentation, at the latest 2 hours before the presentation 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 seminar building and main building (see map on pages 11-17 of this programme).

Poster presentations

All guided poster presentations will be held in the seminar building (Dorotheenstrasse 24). Please have a look at the maps on the pages 12-14. 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.

All online poster sessions can be followed via the whova application and these sessions will also be streamed in a lecture hall.

Apples

We spared no effort to offer you freshly picked apples from the region around Berlin at Tropentag 2023. Last week the organisation team and many volunteers picked 1000 kg of apples for you. Thanks for this support!

PS The apples come directly from the orchard and have not seen a factory. Please wash the apples before eating.

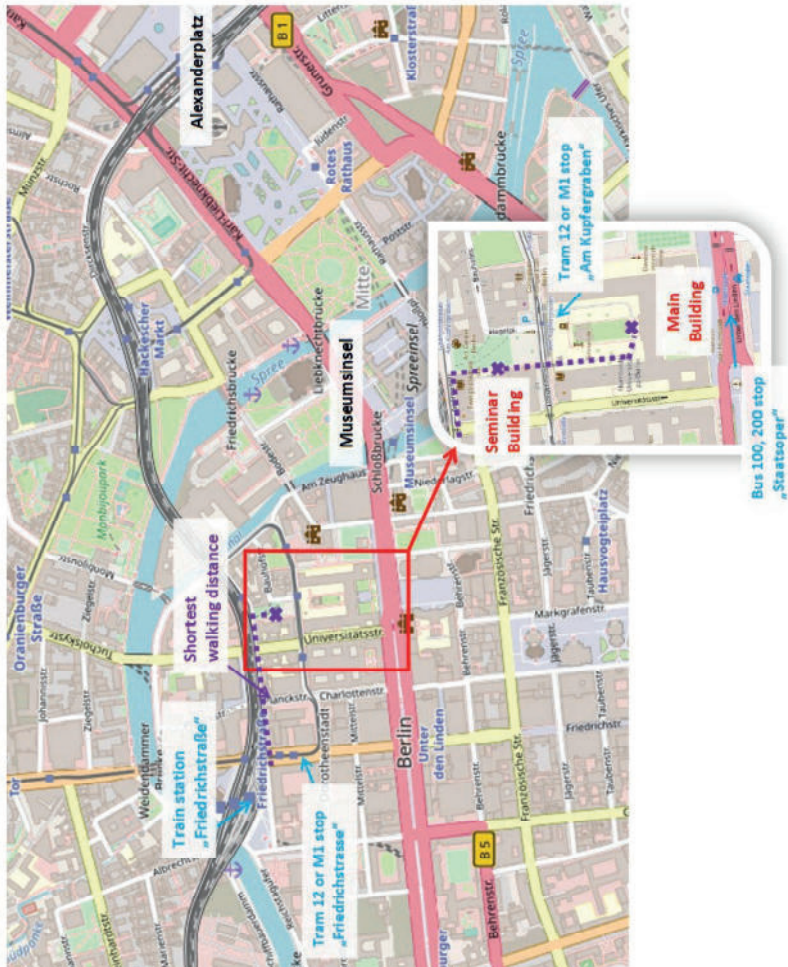
“Guten Appetit” and enjoy the lovingly picked apples.

Merch, programme booklet and our CSR

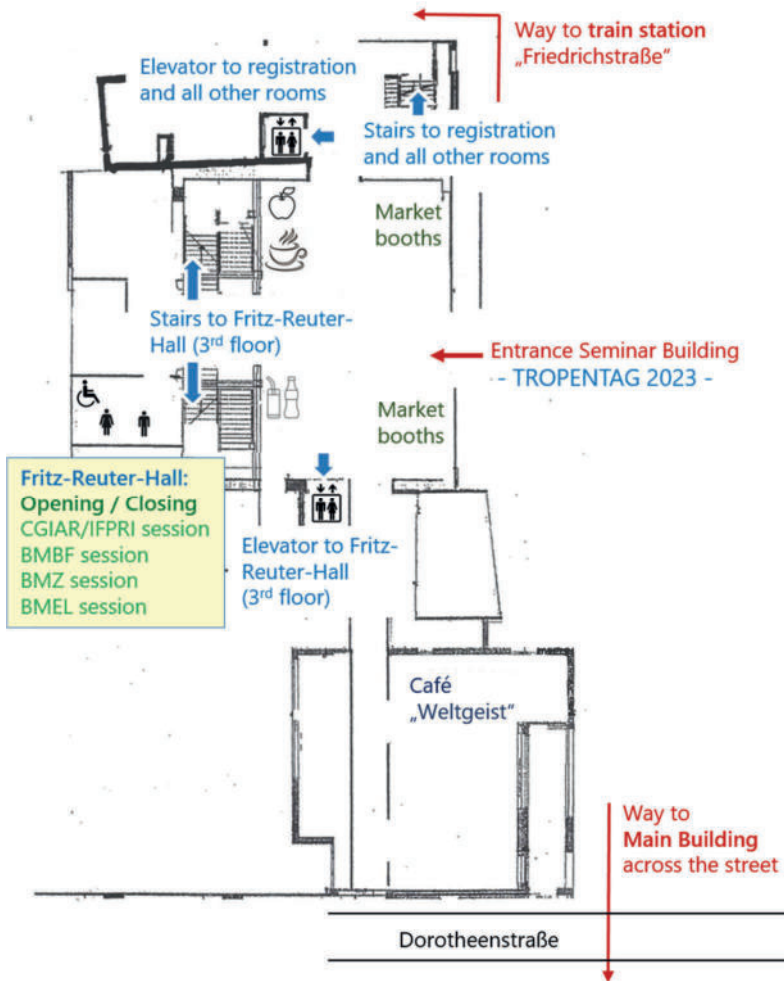
This year we decided to honour the CSR goals by keeping our merch as green as possible. The lanyards are made from 100% recycled plastic bottles (rPET). With our gym bags, which are made 100% recycled textiles, you can carry your personal belongings with you. Your own mug is always with you. In order to reduce paper consumption, we have dispensed with an extra notepad. If you would like to make some notes, you will find blank pages for notes in the program booklet, just like last year. Your pen is made of FSC accredited beech wood and especially durable.

Enjoy the conference with your sustainable items!
Your TROPENTAG 2023 team

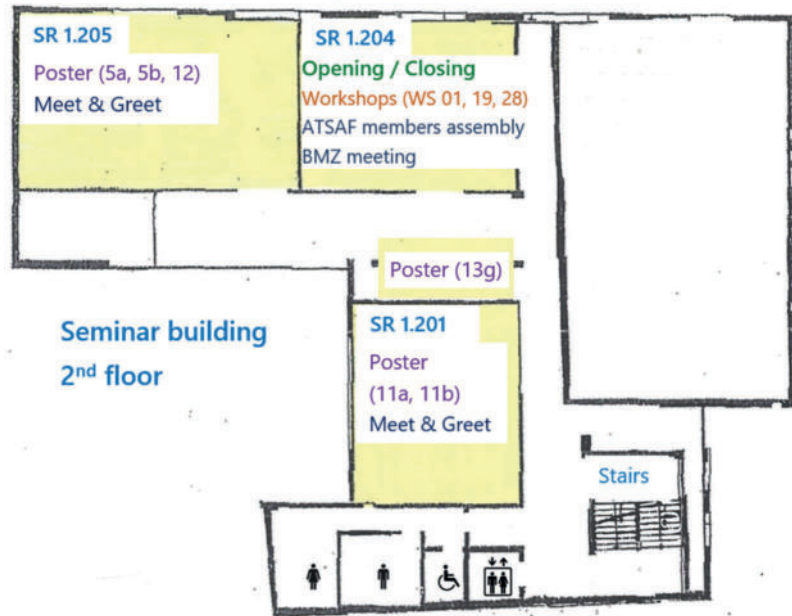
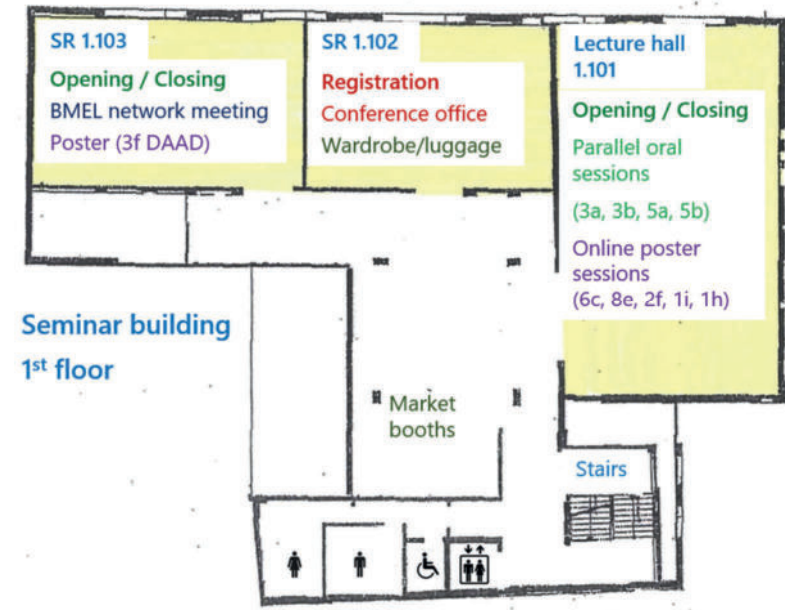
Map of the Berlin city center: conference venue and sightseeing



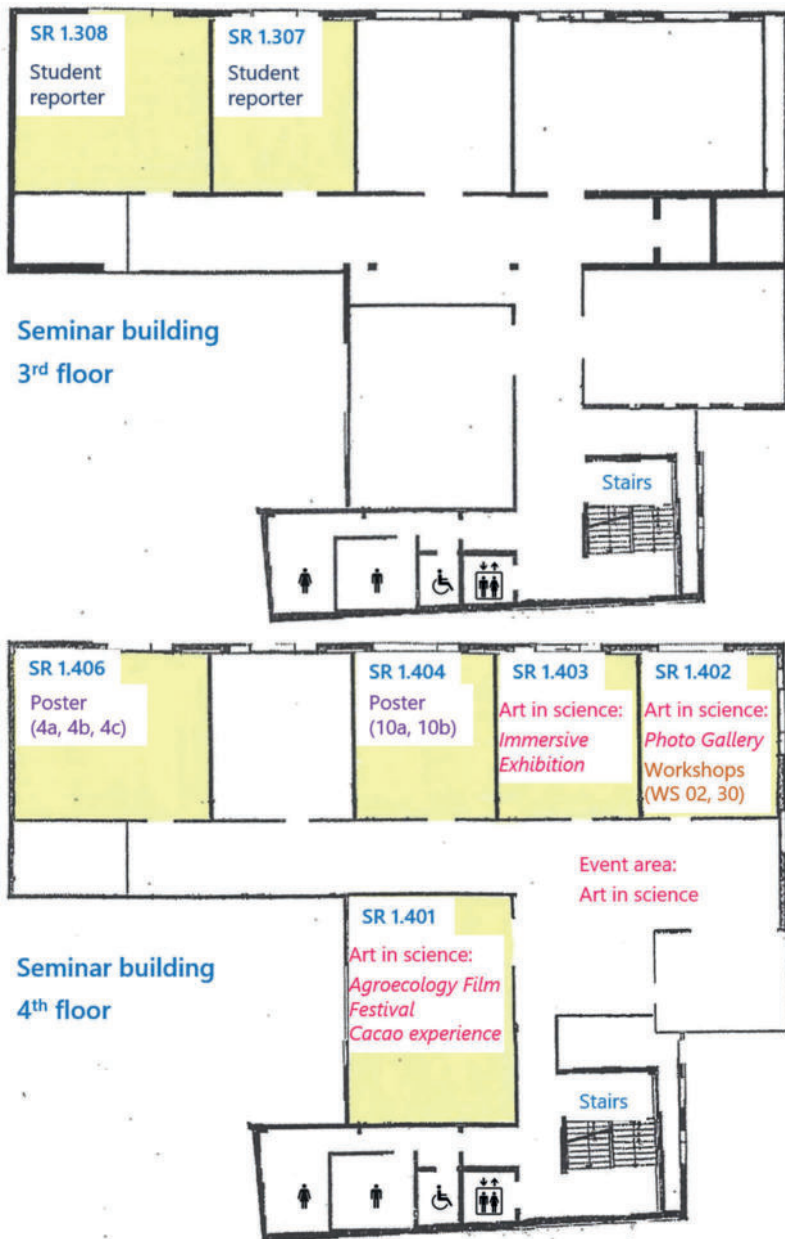
Map of the HU campus: Seminar Building (ground floor)



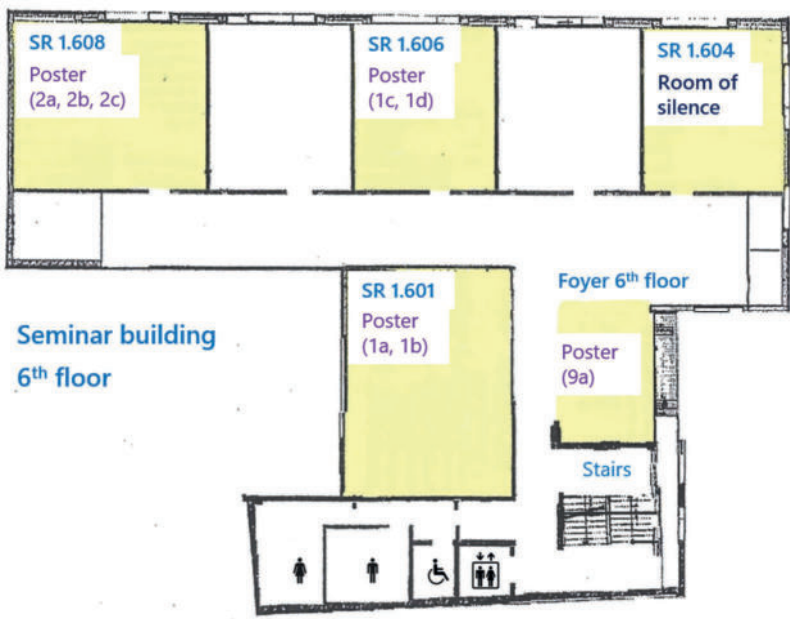
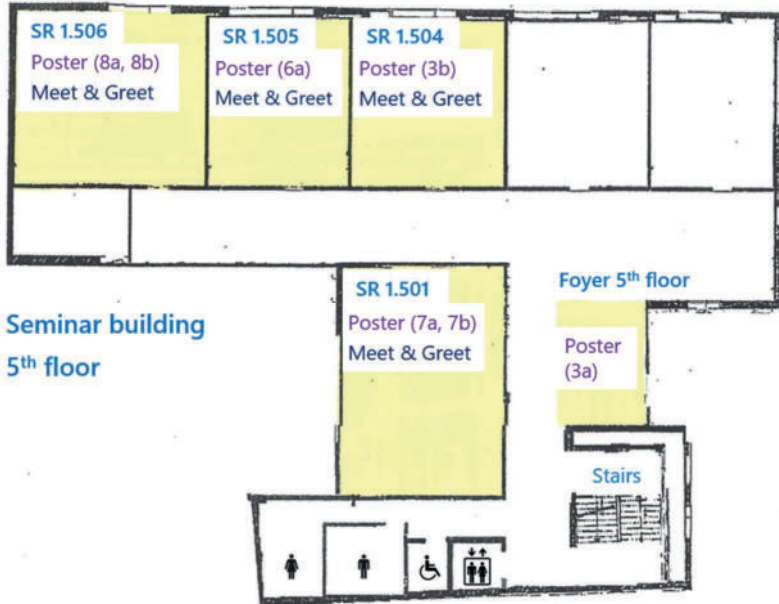
Map of the HU campus: Seminar Building (1st and 2nd floor)



Map of the HU campus: Seminar Building (3rd and 4th floor)

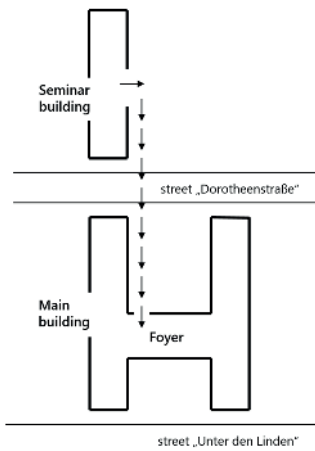


Map of the HU campus: Seminar Building (5th and 6th floor)

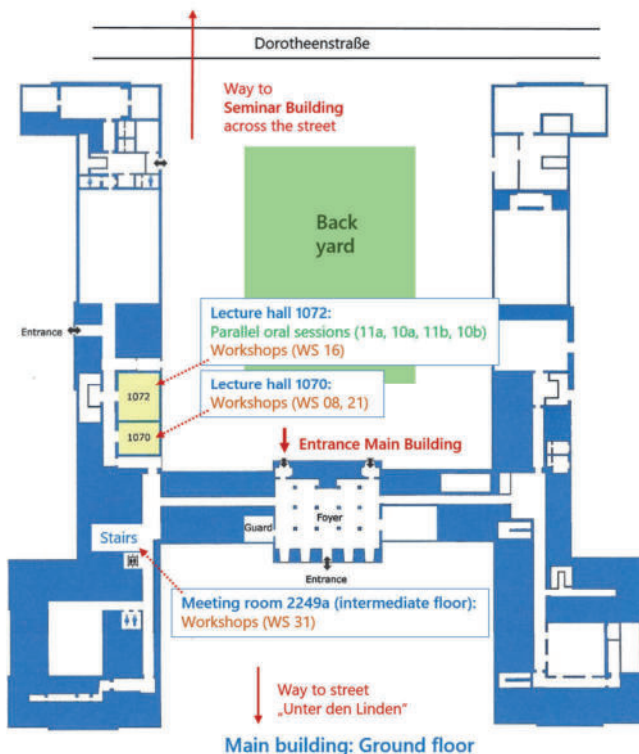


How to get from seminar building to main building?

Please leave the foyer of the seminar building and turn right. Cross the street “Dorotheenstraße” and the back yard of the main building and enter the foyer of the main building over the back entrance as shown below.



Main building ground floor

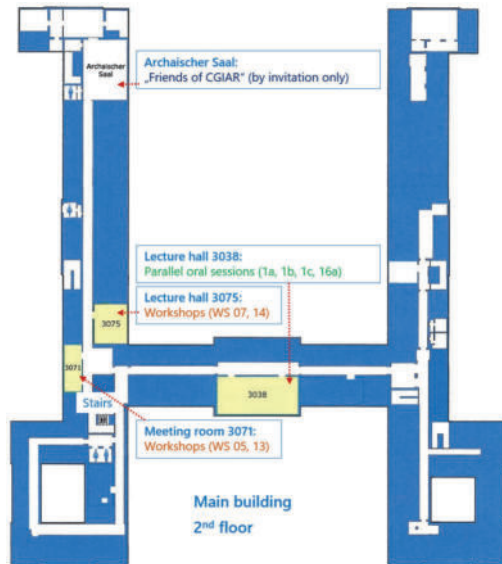


Main building 1st and 2nd floor

Main building 1st floor



Main building 2nd floor



Tropentag's Art in Science (4th Floor of seminar building)

The arts are becoming a favored medium for deepening the scientific process and conveying complex information to the public. In the realm of development-oriented research, scientists engage in new cultural settings and interpret local realities in the framing of their research projects. In doing this, scientists must learn to adapt in new settings and develop cultural sensitivity for engaging with local communities. Arts can help scientists decolonize knowledge production practices and enable them to engage more deeply with people on the ground. Furthermore, art can enhance the voices of farmer communities and help to communicate scientific observations to a broader public, while giving something back to the people who make our research possible.



At this year's Tropentag conference in Berlin, we wish to bring an artistic twist into science on our Art in Science section - an entire floor dedicated to art-based scientific communication and practice. A thrilling program of activities awaits visitors on the 4th floor, aimed at encouraging scientists to engage with arts-based research methodologies and to produce compelling results able to reach a non-academic public. We believe that adopting creativity and cultural sensitivity in our work can help scientists breach some of the many gaps and limitations of the scientific approach and enable close and just collaborations with local stakeholders.

Audiovisual Exhibition

Giovanna Chavez-Miguel, Maria Schmiedbauer, Alexei Galar, Tatiana Cardenas

In this exhibition room, an exciting curation of audiovisual works from various artists awaits related to farmer livelihoods, extractivism, and land use conflicts. The immersive exhibition will be open to participants of the Tropentag during the entire time of the conference.

19.–22.09.2023 | 12–End | 1.403

Immersive Experience “Cacao: The sound of Extinction”

Alexei Galar, Inés Lauber, Janika Hämmerle

Composer and soundscape artists, Alexei Galar, and food experience designer, Inés Lauber, bring us a multi-sensorial immersive experience around one of the world's favorite seeds: cacao. This sound installation takes visitors on a journey to reconnect with food and nature. Participants will rediscover the sweet sounds of biodiversity, while tasting the bitter flavors of extinction we face nowadays through the degradation of primary ecosystems induced by the expansion of export-oriented cash crops in the tropics.



20.09.2023 | 13:00–13:30 & 18:00 -18:30 | 1.401 | Cacao experience

21.09.2023 | 09:30 –10:00 & 17:30 -18:00 | 1.401 | Cacao experience

Walk-in Photo Gallery

Michael Büntrup, Marco Hödtke, Giovanna Chavez Miguel

The "Let's Plant" non-profit association organizes, in collaboration with Tropentag 2023, a photo competition on the theme "Visualize the restoration of degraded land through a holistic landscape management approach in the tropics or subtropics". A selection of the past years' winner pictures, including tree planting, forest and landscape rehabilitation, and of course local people acting in and using such landscapes, will be presented in a walk-in gallery also to be found on the 4th floor lets-plant.org/projects#photocontest

20.–22.09.2023 | all day | 1.402

Agroecology Film Festival: Tales of Latin American Farmers

Giovanna Chavez-Miguel, Maria Schmiedbauer, Alexei Galar, Janika Hämmerle

Tropentag will present short and long films displaying traditional farmers' ways of life. The Agroecology Film Festival will be inaugurated on Tuesday 19th of September at 19:00 with the exclusive premiere of the short film "The Potato Guardians" directed by ATSAF PhD scholar, Giovanna Chavez-Miguel, and continue showing films visualizing Latin American agroecological movements in the following days.

Timetable:

19.09.2023 | 19:00–20:00 | 1.401

Los Guardianes de la Papa | *The Potato Guardians* | Peru · Mex · Germany | 2024
Q&A with the Director: Giovanna Chávez Miguel

19.09.2023 | 20:00–21:00 | 1.401

Sonidos Agroecológicos: Cantares del Páramo | Colombia · UK | 2022
Felipe Otalora · Cindy Villano

20.09.2023 | 19:30–21:00 | 1.401

Sembradoras de vida | *Mothers of the Land* | Peru | 2019
Diego Sarmiento and Álvaro Sarmiento

21.09.2023 | daytime | 1.403

The Custodians of the Andean Gold | Bolivia, Peru | 2021
Perspectives on Pastoralism Film Festival | CELEP

20.–22.09.2023 | daytime | 1.403

Seeds of Change | Guatemala | 2019 | USAID

Come by and mingle with creative scientists!

The exhibitors

You will find the exhibitors in the foyer and 1st floor of seminar building.

- AGRINATURA (The European Alliance on Agricultural knowledge for Development) | www.agrinatura-eu.eu & YPARD (International Network of Young Professionals for Agricultural Development) | www.ypard.net
- Alliance of Bioersivity International and the International Center for Tropical Agriculture (CIAT) | www.alliancebioersivityciat.org & International Food Policy Research Institute (IFPRI) | www.ifpri.org & CGIAR | www.cgiar.org
- Council for Tropical and Subtropical Agricultural Research (ATSAF) | www.atsaf.org
- Federal Ministry for Economic Cooperation and Development (BMZ) | www.bmz.de/en & International Cooperation Services for Sustainable Development (GIZ) | www.giz.de/en
- Federal Ministry of Food and Agriculture (BMEL) | www.bmel.de/en & Federal Office for Agriculture and Food (BLE) | www.ble.de/en
- German Academic Exchange Service (DAAD) | www.daad.de/en
- Original Beans | www.originalbeans.com | 4th floor Art in Science
- Schorlemer Stiftung | www.schorlemer-stiftung.de & German Farmers' Association (DBV) | www.bauernverband.de/english
- Univerity of Hohenheim | Hohenheim Tropics | tropen.uni-hohenheim.de/en
- Welttierschutzstiftung (WTS) | www.welttierschutzstiftung.org/en
- University of Kassel | Centre for International Rural Development | www.uni-kassel.de/uni/en & JARTS: Journal of Agriculture and Rural Development in the Tropics and Subtropics | www.jarts.info

Programme overview Tuesday 19.09.2023

12-End **Art in Science:** Aduivisual exhibitions and Agroecology Film Festival | 4th floor seminar building

13:00-18:00 Pre-conference workshops

- W1: Accompanying research: enhancing the evidence base of development cooperation? | Seminar Building, Seminar room 1.204
- W2: Transformative and art-based methods for integrating community voices: from concepts to operationalization. | Seminar building, Seminar room 1.402
- W4: Empowering Researchers in Transformative Science Communication: Poster and Abstract Creation. | Main Building, Seminar room 2093
- W5: Unregulated small-scale gold mining (galamsey) operations destroying farmlands, biodiversity and natural habitats: Exploring pathways for food security in Africa. | Main Building, Meeting room 3071
- W6: The benefits and challenges of regional diets + “Cook out” Hackathon. | Centre for Rural Development (SLE), Robert-Koch Platz 4, 10115 Berlin
- W7: Valorisation of biomass wastes from agriculture and agrifood industry for the production of energy in Africa. | online
- W8: Agroecology in urban food systems for better nutrition in the African and Asian context. | Main Building, Lecture hall 1070
- W9: Can agroecology feed the world? | Main Building, Meeting room 2070 A
- W10: Evidence for Policy: The Role of Impact Assessments at IFAD. | Main Building, Seminar room 2095 B

Film Premiere – 19:00 – 21:00 at seminar room 1.401

19:00 – 21:00 **“The Potato Guardians”**, followed by a Q&A session

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 a team of creative geographers willing to visualize Andean food systems with maps. Her short film was realised with the support of farmer communities, potato conservationists’ association AGUAPAN, the international potato Center, ZALF, and ATSAF.

Meet Giovanna and her team at the exclusive premiere to see the result of her research project in Peru on the big screen!

20:00 – 21:00 **“Sonidos Agroecológicos: Cantares del Páramo”**

by Felipe Otalora and Cindy Villano

To be a peasant artist in the paramos of Sumapaz and Chingaza is synonymous of love, defense and protection of the land. An audiovisual and musical journey through soundscapes of the high Andes: winds, birds, mountains, lagoons and voices of farmers, who sing about the social, environmental and political history of Colombia, leading us to dream of a better world: an agroecological world!

Programme overview Wednesday 20.09.2023

from 08:00 *Registration of participants* *Seminar building
1.102 (first floor)*

All day **Art in Science:** Short films, audiovisual exhibitions and walk-in photo gallery 4th floor seminar building

08:30-11:30 **Pre-conference workshops**

W11: Mixed Farming Systems in the tropics, a CGIAR Initiative in 5 countries / Challenges and Collaboration in Laos. | Main Building, Sem. room 2095 B

W12: Applying Gender Sensitive Breeding in Forage Systems: What lessons and methods can we learn to move forward? | Main Building, Meeting room 2070 A

W13: Transition towards sustainable food systems – the hidden potential of Animal Welfare. | Main Building, Meeting room 3071

W14: Dependencies on fossil based agrochemicals and their impacts on the African continent. | Main Building, Lecture hall 3075

W15: Workshop 15: Researching sustainable land management in sub-Saharan Africa. | Main Building, Lecture hall 2091/92

W16: Sustainable livelihoods and agrarian studies: what are the connections? An informal workshop led by Ian Scoones. | Main Building, Lecture hall 1072

W17: Workshop 17: Ecosystem services in silvopastoral systems across regions – trade-offs or synergies? | Main Building, Seminar room 2095 A

W18: Navigating Food Systems Transformation for Africa: Future Pathways between Paradigm Shifts and Proven Concepts. | Main Building, Seminar room 2093

W19: Making research transparent and reproducible – Creating a paradigm shift in Open Science! | Seminar Building, Seminar room 1.204

W20: Integrating stakeholders' perspectives into scientific communication. | Main Building, Lecture hall 2094

W21: Shifting the paradigm: Refugees as a solution for tropical landscape restoration. | Main Building, Lecture hall 1070

W22: Technologies and farm to store models to scale up regenerative, climate-Smart Natural Farming in India. | online

W31: Do the typical ranking criteria for universities mirror the needs for applied sciences? | Main Building, Meeting room 2249 a

11:45-12:25 *Lunch break*

Ctd. Programme overview - Wednesday 20.09.2023

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Plenary session Wednesday 20.09.2023

- 12:25 Opening of the conference | DAGMAR MITHÖFER, Humboldt-Universität zu Berlin, Thayer Institute & STEFAN SIEBER, Leibniz Centre for Agricultural Landscape Research (ZALF), Heads of organising committee
- 12:40 **Foundation *fiat panis*** | Chair: ANDREA FADANI, Foundation *fiat panis* Ulm, Germany
-  The **Hans H. Ruthenberg Award for Graduates 2023:**
 ELEANOR GARDNER (Univ. of Bonn) | *Forest incomes: A means to achieve aspirations and move out of poverty?* | PROF. DR. THOMAS HECKELEI.
 FALK MILAN GEORG KRUMBE (Univ. of Hohenheim) | *The economic dependency of Ghana's cocoa sector on pollination services* | JUN.-PROF. DR. ARNDT FEUERBACHER.
 LOUIS PHILIPP SCHWARZE (Univ. of Hohenheim) | *Governance of pesticides in Zambia* | DR. THOMAS DAUM.
- 13:45 **Welcome addresses**
- CEM ÖZDEMİR, Federal Minister of Food and Agriculture, Germany
- JULIA VON BLUMENTHAL, President of Humboldt-Universität zu Berlin, Germany
- FRANK A. EWERT, Scientific director of Leibniz Centre for Agricultural Landscape Research (ZALF), Germany
- DAGMAR MITHÖFER, Humboldt-Universität zu Berlin, Thayer Institute & STEFAN SIEBER, Leibniz Centre for Agricultural Landscape Research (ZALF), Heads of organising committee
- FOLKARD ASCH, ATSAF / University of Hohenheim, Germany
- 14:30 *Coffee and tea break*

15:00

Keynote speeches and discussion | Chairs: DAGMAR MITHÖFER, Humboldt-Universität zu Berlin, Thae Institute & STEFAN SIEBER, Leibniz Centre for Agricultural Landscape Research (ZALF)



JOHAN SWINNEN – International Food Policy Research Institute (IFPRI), CGIAR, USA – is Managing Director of Systems Transformation, CGIAR, and Director General of the International Food Policy Research Institute (IFPRI). He presently serves as a co-lead of the finance lever of the UN Food Systems Summit, is a Commissioner in the Food Systems Economics Commission, Co-Chair of the Think20 Task Force on Climate Change, Sustainable Energy, and Environment, and also a member of the Champions 12.3 Leadership Group to Reduce Food Loss and Waste and the Africa Europe Strategic Task Force on Sustainable Agriculture and Food Systems.



JODY HARRIS – World Vegetable Centre (Thailand) – is an applied researcher with a particular interest in the politics and ethics of food systems, and in transforming systems to support healthy diets and nutrition equitably. She conducts mixed methods research into social and policy processes in the field of food, including theoretical and empirical work on equity and marginalization. Jody is a co-author of the recent UN-CFS HLPE report on inequality in food systems, and a co-coordinator of the Food Equity Centre.



CATHERINE NAKALEMBE – University of Maryland (USA) – is an Assistant Professor at the University of Maryland, the Africa Program Director under NASA Harvest, and a member of the NASA SERVIR Applied Sciences Team on which she serves as the Agriculture and Food Security Thematic Lead. Catherine has broad research interests and leads projects focusing on the development methods and applications of satellite remote sensing and machine learning to agriculture and food security, land use and land-use change mapping, humanitarian mapping, and climate change, and supports several capacity-building in the use of remote sensing for agriculture monitoring and research.

16:45-17:15 *Coffee and tea break*

17:15-18:45 Parallel oral thematic sessions I

Oral presentation sessions I – 17:15-18:45**1a Crop production and management****Room: Lecture hall 3038****Chair: TSU-WEI CHEN**

- 17:15 THOMAS BRINGHENTI, Irrigation alone cannot counteract adverse climatic effects on macadamia yields in South Africa (ID 599)
- 17:30 EVA GOLDMANN, Change along the way? Balancing systems approach and comparability when adapting long-term experiments (ID 468)
- 17:45 AMINATA GANEME, Improving the productivity of the sorghum-cowpea intercropping systems through varietal diversity in Sudano-Sahelian zone of Burkina Faso (ID 54) - ONLINE
- 18:00 COFFI LEONCE GEOFFROY SOSSA, Water use efficiency and the net ecosystem C balance assessments from rice cultivation in Benin (ID 634) - ONLINE
- 18:15 ALEXANDER HEER, Environment-specific selection of high-quality cotton cultivars from on-station and on-farm trials (ID 757)
- 18:30 WRAP UP AND FINAL DISCUSSION

2c Agricultural landscape and land use change**Room: Lecture hall 2091/92****Chair: ROBERT CÁRCAMO MALLEN**

- 17:15 KIRA FASTNER, Telecoupled urban demand drives agro-ecological land use in desert regions: New challenges for governing natural resources (ID 585)
- 17:30 OLIVIER KASHONGWE, Assessment of intertemporal changes of land allocation to CSA practices and associated institutional framework in sub-Saharan Africa (ID 417)
- 17:45 FELICIA O. AKINYEMI, Mapping heterogeneous smallholder maize-cassava systems in southwest Nigeria based on Sentinel-1 and Sentinel-2 time series (ID 574)
- 18:00 MATTHIAS BAUMANN, Novel metrics to describe deforestation dynamics in global commodity frontiers (ID 581)
- 18:15 ASABENEH ALEMAYEHU MUNUYEE, Application of the DPSIR framework for the identification of land use and land cover change drivers from forest to agriculture in the dry woodlands of Northwestern Ethiopia (ID 686)
- 18:30 WRAP UP AND FINAL DISCUSSION

3a Climate change, agriculture and adaptation

Room: Lecture hall 1.101**Chair: CHRISTOPH GORNOTT**

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- 17:15 GINA MASKELL, Cross-geography adaptation to climate change in coffee-growing regions: Is it risk-specific or generalised? (ID 946)
- 17:30 LEA SOPHIA SCHRÖDER, Uphill shifting cultivation under pressure: Perspectives and adaptation of tribal farmers in northeast India (ID 387)
- 17:45 ESTHER S. IBRAHIM, Predicting potato diseases in smallholder agricultural areas of Nigeria using machine learning and remote sensing-based climate data (ID 326)
- 18:00 OPEYEMI ADELESI, Accounting for weather variability in farm management resource allocation in northern Ghana: An integrated modelling approach (ID 172)
- 18:15 MISGINAW ARFICHO, Pooling resources, pooling risk: Customary institutions in pastoral adaptation to climate change (ID 859)
- 18:30 WRAP UP AND FINAL DISCUSSION
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4a Agrobiodiversity and (agro)forestry to transform food systems

Room: Lecture hall 2097**Chair: STEF DE HAAN**

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- 17:15 SARIKA MITTRA, Mainstreaming agrobiodiversity for enhancing climate resilience, nutrition, and livelihoods (ID 952)
- 17:30 HOA DO, Development of agroforestry in upland northern Vietnam: A farmers' perspective (ID 121)
- 17:45 CONSTANT YVES ADOU YAO, Diversity and diversification in cocoa agroforestry systems and household food security: Case study of central and southeastern Côte d'Ivoire (ID 538)
- 18:00 SOPHIE JAGO, Incentivising the conservation of rare agrobiodiversity in Ethiopia (ID 340)
- 18:15 KLARA DZHAKYPBEKOVA, Contribution of NTFP certification to smallholder forest livelihoods: A case from Kyzyl-Unkur village in walnut-fruit forests in Kyrgyzstan (ID 900)
- 18:30 WRAP UP AND FINAL DISCUSSION
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8a Food system diversification for food security

Room: Lecture hall 2094

Chair: EMMANUEL DONKOR

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- 17:15 NIXON MURATHI KIRATU, Pathways to nutritional outcomes for different irrigation arrangements: Evidence from smallholder households in rural Kenya (ID 255)
- 17:30 MARTHA ATAA-ASANTEWAA, Food system transformation for sustainable food and nutrition security for all: What place for smallholder tree-crop farming? (ID 383)
- 17:45 DANIEL GRIMM, The potential of mushroom production for food security and farmer incomes in Uganda (ID 934)
- 18:00 GARI DUGUMA, Impacts of social capital and rural households' livelihood strategies on food/nutrition security and income (ID 348)
- 18:15 RICHARD ALIOMA, Impacts of biofortified bean adoption on productivity, income, and nutritional outcome: The case of Zimbabwe (ID 784)
- 18:30 WRAP UP AND FINAL DISCUSSION
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11a Social learning and knowledge systems: understanding and integrating multiple actor perspectives to foster food systems transformation

Room: Lecture hall 1072

**Chair: LILLI SCHEITERLE and
MICHELLE CHEVELEV- BONATTI**

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- 17:15 GREMARY AZA, Local perspectives on nonmaterial values of nature, biodiversity in rural communities in the Peruvian Amazon (ID 633)
- 17:30 MORITZ EGGER, Realities of sustainability: Application of photovoice to identify locally and culturally relevant sustainability criteria of cocoa farmers in Ecuador (ID 39)
- 17:45 FIONA FLINTAN, The importance of “collectivity” for transformative pastoral food systems (ID 350)
- 18:00 THOMAS FALK, Experiential learning and the power of women (ID 50)
- 18:15 LEONARDO MEDINA SANTA CRUZ, The human dimensions of climate-related security risks in rural settings: A social learning approach (ID 850)
- 18:30 WRAP UP AND FINAL DISCUSSION
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13a Advancing a demand-driven research portfolio to improve water, land and food systems in the Global South (CGIAR/Systems Transformation Action Area)

Room: Fritz-Reuter Hall

Chair: CLAUDIA RINGLER

- 17:15 CLAUDIA RINGLER, The role of groundwater as an accelerator of agricultural transformation: Insights from the CGIAR initiative on NEXUS Gains (ID 994)
- 17:30 MARCELA QUINTERO, Leveraging agroecological transitions: Experiences from the CGIAR initiative on agroecology (ID 995)
- 17:45 ANA MARIA LOBOGUERRERO & JON HELLIN, Applying a social equity approach to transformative adaptation: Minimising trade-offs between environmental and socio-economic outcomes (ID 996)
- 18:00 AUGUSTO CASTRO-NUNEZ, Navigating climate mitigation in global food systems: Insights from CGIAR (ID 997)
- 18:15 JONATHAN STEINKE, Responsible digital innovation in agri-food systems: Ethical and equitable transformation for sustainable agriculture (ID 1005)
- 18:30 NICHOLAS MINOT, CGIAR initiative on rethinking food markets: An overview and an example of preliminary results from Ethiopia (ID 1006)
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18:45-22.00 **Apéro / Social gathering in the foyer (seminar building)**

Talk “A view on trends in food security research”

| 19:00-20:00 | Fritz-Reuter-Hall

"A view on trends in food security research - Analysing three years of submissions to Food Security"

by SERGE SAVARY, Editor-in-Chief, Food Security

Special event:

Meet & Greet with keynote speakers | 19:30-20:30

Meet & Greet discussion rounds of junior scientists with keynote speakers.
Participation only after individual registration and only for junior scientists.



JOHAN SWINNEN | Achieving resilient food systems
| SR 1.201



JODI HARRIS | Food system transformation through the lenses of nutrition and equity | SR 1.205



BRIDGET MUGAMBE | Rethinking agricultural strategies for Africa | SR 1.501



LENIS SAWEDA LIVERPOOL-TASIE | Transforming food markets in sub-Saharan Africa | SR 1.504



CATHERINE NAKALEMBE | Interplay of agric., land use, climate change, and food security | SR 1.505



IAN SCOONES | Pastoralism, Uncertainty and Resilience: Global Lessons from the Margins | SR 1.506

Agroecology Film Festival | 19:30-21:00 | SR 1.401

"Sembradoras de vida | Mothers of the Land"

Perspectives on Pastoralism Film Festival | CELEP

In the Andean cosmovision, women and the earth are strongly interrelated. Both the woman's body and the earth are capable of giving life. In the current context of the industrialisation of agriculture, the use of chemical pesticides and genetically modified seeds, it is women who, connected to the earth in sisterhood, take on the role of protectors. The film follows five women from the Peruvian Andes in their daily struggle to maintain a traditional and organic way of working the land.

ATSAF e.V. members assembly | 19:30 | SR 1.204

Programme overview – Thursday 21.09.2023

All day	Art in Science: Short films, audiovisual exhibitions and walk-in photo gallery 4 th floor seminar building	page
08:30-09:15	Poster sessions P1	34 – 39
09:30-10:15	Poster sessions P2	40 – 45
10:15-10:45	<i>Coffee and tea break</i>	<i>Foyer</i>
10:45-12:15	Oral presentation sessions II	46 – 50
12:15-13:45	<i>Lunch break – see page 9 for tips where to purchase your lunch</i>	
13:45-15:15	Oral presentation sessions III	51 – 54
15:15-15:45	<i>Coffee and tea break</i>	<i>Foyer</i>
15:45-17:15	Oral presentation sessions IV	55 – 58
17:30-18:10	Poster sessions P3	69 – 64
18:20-19:00	Poster sessions P4	65 – 70
19:30-23:00	<i>Conference dinner with live music im Museum für Naturkunde</i>	

Special event – Conference dinner at Museum für Naturkunde from 19:30 h onwards with live music



Foto Mitte: © Carola Radke, Museum für Naturkunde Berlin

Explore the Museum für Naturkunde at night and spend an evening full of great conversations in a special atmosphere. The Museum für Naturkunde Berlin is an integrated research museum where internationally recognized collections-based science is carried out. The museum is a unique place where the scientific and social dialogue on the future of our planet is shaped.

This special place will transform the Tropentag 2023 into a unique experience.

- Date: September 21, 2023 (Thursday)
- Start Time: 19:30 h
- Venue: Museum für Naturkunde Berlin, Invalidenstrasse 43, 10115 Berlin
- Transfers: no buses will be provided by the organisers
- Walking distance: 1,9 km (approx. 25 min)
- Public transportation: Take the U6 (subway) at 'Friedrichstrasse' station in the direction of 'Kurt-Schumacher-Platz' and get off after two stops at the 'U Naturkundemuseum' station (approx. 12 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

Musical entertainment will be provided by the Salsa Brava Band Cayeye from Berlin, who named themselves after a plantain-based dish from the Caribbean.



As with the ingredients of the dish, different flavors are also expressed in the band: the musicians bring influences from Europe and America together and create a thrilling musical experience on stage. The band formed in early 2022 and plays and improvises to a broad Latin American salsa.

Poster sessions P1 – 08:30-09:15

1a Crop production and management I

Room: SR 1.601 (Elevator pitch)
Chair: TSU-WEI CHEN

- 524 | JOSÉ LUIS URREA-BENÍTEZ | Adapting the CROPGRO model to simulate biomass production and soil organic carbon of *Brachiaria* cv. hybrid Cayman and *Panicum maximum* in East Africa
- 792 | NATALIA MATIZ-RUBIO | Nitrogen fixation and nitrous oxide emissions in tropical silvopastoral systems based on Urochloa grasses and Leucaena shrub legume
- 831 | NILS TEUFEL | Do groundnut haulm quality influence farmers decision on variety adoption? An explorative study from an eastern Indian state
- 576 | ROBERT SCHÄFER | Alternative agricultural approaches for the South: All the same or clear distinctions?
- 985 | REUSSITE MALEMBAKA | Life cycle inventory of soybean production systems in Minas Gerais and Paraná states, in Brazil
- 235 | YAMIKANI MAKWINJA | Perception of smallholder farmers on efficacy of ecological farming in Chiradzulu district, southern Malawi
- 755 | ALEMAYEHU TERESSA NEGAWO | Assessment of duplicates in perennial soybean (*Neonotonia wightii*) collection
- 238 | STACY DENISE HAMMOND HAMMOND | Assessment of slow-growth treatments to develop an efficient in vitro medium-term conservation method for garlic (*Allium sativum* L.)
- 390 | MATTHIAS WISSUWA | Genotypic variation and associated loci for lateral root density and length in rice (*Oryza sativa* L.)
- 631 | MICHAEL HENRY BÖHME | Survey and collection of solanaceous indigenous plants in central Vietnam
- 552 | DAWIT TSEGAYE SISAY | Participatory bread wheat variety evaluation through seed producer cooperatives in Amhara region, Ethiopia
-

2a Optimisation strategies, synergies and trade-offs between sustainability, productivity and profit in farming systems I

Room: SR 1.608
Chair: ANNE ELISE STRATTON

- 226 | JAWWAD SHAFIQ | Treated wastewater usage for agriculture in water stress areas: a case study in Sialkot, Pakistan
- 470 | CAROLIN ROSENBERG | Promotion of mechanisation for smallholder farmers: insights and learnings from Zambia
- 558 | NUTTAPON KHONGDEE | Potential of agrivoltaic system for lettuce plantation in a non-irrigated small scale areas: case study in northern Thailand
- 268 | JUDITH HENZE | Agricultural production practices, challenges and opportunities of small-scale farmers in Burkina Faso and Senegal
- 901 | PHUONG ANH NGUYEN | Determinants of organic fertilisers utilisation among smallholder coffee farmers in Vietnam
- 676 | PHYU THAW TUN | Assessment of cropping systems and net economic returns in three agroecosystems of southern Myanmar
- 689 | HAJI ATHUMANI MSANGI | Balancing trade-offs and achieving synergies: the case for joint adoption of conventional and agroecological farming in Tanzania
-

3a Climate change, agriculture and adaptation I

Room: Foyer 5th floor**Chair: CHRISTOPH GORNOTT**

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- 299 | ESTELLINA NAMUTEBI | Indigenous tree species reforestation: An adaptation measure to climate change in central Uganda
- 51 | MASOUD YAZDANPANAH | Encouraging farmers' response to climate change induced water stress through norm activation model among Iranian farmers
- 316 | CHRISTOPH FUNK | Assessing the climate change vulnerability of rice farmers in below mean sea level regions: An agro-ecological unit-based approach
- 837 | CHIARA SOPHIA WEITUSCHAT | Effects of reported and observed weather shocks on crop losses in south-eastern Madagascar
- 606 | SHIBIRE BEKELE ESHETU | Land use diversification to fight food insecurity and improve resilience towards climate change in Ethiopia
- 372 | MANUEL KRAUSS | Wastewater residues and hydrogel application: Pathways to increase water and food security in Morocco?
- 29 | MARIUS HOBART | Drought monitoring/prediction using remotely-sensed data and SSP climate change scenarios in a Tunisian olive orchard
-

4a Agrobiodiversity and (agro)forestry to transform food systems I

Room: SR 1.406**Chair: SILKE STÖBER**

-
- 261 | MARIA CORDERO-FERNANDEZ | Analysis of social dynamics for the in-situ maintenance of native potato agrobiodiversity in Paucartambo, Peru
- 795 | JULIA KNOLLMANN | Does agroforestry affect human health and nutrition?
- 547 | JULIA MÄNNLE | Does training in dynamic agroforestry change doing, organising, meaning, and knowing in smallholder systems in Bolivia?
- 842 | JANIKA HÄMMERLE | Assessing the relevance of traditional market channels for potato diversity on the Peruvian Andes
- 847 | HAMZA GUERBAOUI | Land cover changes and natural vegetation dynamics in northern Niger (1955-2023)
- 81 | PATRICK OPOKU | The effects of cocoa production and consumption on biodiversity loss and ecosystem services
- 857 | GIOVANNA CHAVEZ-MIGUEL | Understanding the relevance of traditional market networks for local economies and agrobiodiversity on the Peruvian Andes
- 874 | LORENZ BACHMANN | Farmer's seed diversity and seed conservation practices in Nakuru Kenya
- 369 | ASMELASH DAGNE DATIKO | Agroforestry and permaculture for sustainable development of human and nature
-

THURSDAY 21.09.2023

5a The role of livestock production systems in food systems transformation I

Room: SR 1.205

Chair: CHRISTIAN BATEKI ADJOGO

- 31 | AUNG AUNG | Investigation on *in vitro* nutritive values and *in vitro* methane production of different tree legume forages available in the campus of the university of veterinary science, Yezin, Myanmar
- 405 | NATALIA MATIZ-RUBIO | Transforming beef farming systems: advances in grazing management for sustainable production
- 832 | REIN VAN DER HOEK | Sustainable feed and forage options for livestock development in Uzbekistan
- 808 | REGINA RÖBLER | Phenotypic diversity and local adaptation of Sahelian goat populations in Niger
- 280 | HAMDY ABDEL-SHAIFY | Towards more efficient and sustainable production in Egyptian buffalo: The clue lies in the genome
- 137 | NAHLA ELHASSAN | Ultrasonic measurements of fetal parameters for estimation of gestational period in Nubian goats supplemented with *Moringa oleifera* leaves
- 362 | CARLOS ALFREDO GÓMEZ BRAVO | Intake and digestibility of four rations with different fibre levels in alpacas (*Vicugna pacos*)
- 939 | NATALIA MATIZ-RUBIO | Benefits of *Leucaena diversifolia* in grazing steers diet: Performance, methane and fatty acids
- 118 | MICHAEL PETERS | Extent of livestock and cropping enterprises in selected counties in Kenya: An assessment
- 352 | SHEHADEH KASKOUS | Influence of the quarter-individual milking system “Multi-Lactor” on the milk yield and quality in dairy cows: Results of a field study

7a Agrifood markets and value chains I

Room: SR 1.501

Chair: AYOBAMI ADETOYINBO

- 179 | YAO MARIUS KPANI | Maize farmers’ willingness to pay for agricultural insurance in the Plateau region of Togo
- 768 | BERNARD KWAMENA COBBINA ESSEL | Youth entrepreneurship success: A case study of food processing enterprises in Ghana
- 93 | KAREN ENCISO | Market potential for new hybrid forages for East Africa
- 596 | EVI MARIANA | Striking the right balance between quality and cost: An analysis of productivity and profitability of value chains of third-wave and non-third-wave coffee smallholders in Central Java, Indonesia
- 89 | ALCIDO ELENOR WANDER | Sustainability and added value in agribusiness production chains: The poultry case
- 281 | JUSTIN KALISTI URASSA | Causes and determinants of post-harvest milk losses among milk producers in Tanzania
- 313 | NOPASOM SINPHURMSUKSKUL | Complying with the voluntary sustainability standard: How ready are Thai sugarcane farmers?
- 937 | TERESA MOSQUERA-VÁSQUEZ | Co-creative characterisation of food systems for the generation of transition routes towards their sustainability in indigenous population

8a Food system diversification for food security I

Room: SR 1.506**Chair: CAROLINE HAMBLOCH**

- 409 | EMMANUEL DONKOR | Combating malnutrition in Africa through diversification of the food systems
- 646 | SUSANNE BODACH | From waste to relief: Unlocking the potential for food rescue in low- and middle-income countries
- 754 | IRMGARD JORDAN | Kitchen gardens reduce time needed to access vegetables: A qualitative study in Turkana, Kenya
- 476 | NIXON MURATHI KIRATU | Intra-household factors under different irrigation arrangements affecting irrigation-nutrition pathways in smallholder farm households in Kenya
- 243 | CONSTANT YVES ADOU YAO | Women, products from associated species with cocoa trees and food security of cocoa-producing households in central Côte d'Ivoire
- 902 | SAFIYYA KASSIM | Off-farm livelihood diversification enhances food security among cocoa farmers in Ghana
-

11a Social learning and knowledge systems: understanding and integrating multiple actor perspectives to foster food systems transformation I

Room: SR 1.201**Chair: MICHELLE CHEVELEV-BONATTI**

- 477 | AYAT ULLAH | Is community participation necessary for the success of development programmes? Key lessons from Pakistan
- 49 | THOMAS FALK | Games for social learning: Triggering collective changes in commons management
- 723 | LILIAN BECK | Collaborative learning to encourage adoption of agroecology: A participatory video-based farmer-to-farmer learning process in Cambodia
- 698 | PIA GLEICH | Collective action and social learning in integrated resource systems: Evidence from inland fisheries in Cambodia
- 728 | CARLA BALDIVIESO | Mapping knowledge for managing aquatic food systems: The case of community fish refuges in Cambodia
- 430 | ROMAN HINZ | Spatially explicit representation of climate-smart agriculture in Ghana: A participatory scenario process
- 733 | JAMES BILLY KASULE | Using video technology as an agricultural extension tool: A case study on climate smart agriculture in Uganda
- 615 | ANDREAS BAUER | Strengthening community-based research for river health and climate change mitigation in eastern Africa
-

13f DAAD Alumni seminar I

Room: SR 1.103**Chair: CLAUDIA RAEDIG**

- 535 | JOSÉ ANDRÉS RODRIGUEZ ZUMBADO | Nature's contributions to sustainable agriculture in tropical landscapes
- 276 | NARGES SAFFAR | Sustainable production of pistachios in dealing with climate change in central plateau of Iran
- 38 | FELIX FRIMPONG | Development of climate-smart dryland rice varieties with consumer-preferred qualities for Ghana
- 816 | THIAGO SABATINELLI Rodrigues | Brazilian cabruca: Agroforestry as a pathway to biodiversity conservation and food security for small cocoa farmers
-

13f DAAD Alumni seminar I ctd.

- 834 | ERIKA LUCIA ARIAS RAMIREZ | Online fair trade organic food market from organised civil society
- 853 | MICHAEL ELIAS MGALULA | Ethnobotanical study on the utilisation of wild edible indigenous fruits in Miombo woodland of Tabora region western Tanzania
- 366 | HAWENI HABTAMU | Resource potential of bamboo, challenges and future directions towards sustainable management and utilisation in Ethiopia
- 128 | CHUKWUEBUKA CHRISTOPHER OKOLO | Storage and distribution of soil organic carbon, total nitrogen and CO₂ emissions in semi-arid soils
- 644 | NINA NOVIRA | Competition on land between food crop and other land use in Indonesia
- 171 | MAYRA FLORES TAVARES | Smallholders and ecological restoration: Understanding local perspectives and priorities in southeast Brazil
- 443 | NIMRA BATOOL | Effectiveness of biopesticides for aphid pest management in wheat
- 970 | JOSÉ ANDRÉS RODRIGUEZ ZUMBADO | Quantifying contributions towards reducing species extinction risk through sustainable agriculture in tropical landscapes
-

6a + 12a Knowledge systems and energy nexus

Online and streaming in

Chair: HARISON KIPKULEI

Lecture Hall 1.101

- 59 | OPEYEMI ANTHONY AMUSAN | Evaluation of waste management in southwestern Nigeria for clean environment, circular economy and agri-food systems development
- 357 | MOHAMMED ISMAIL ADAM | Potential water harvesting sites for groundwater recharging using remote sensing and GIS for modern irrigation scheme
- 645 | NATASCHA SCARFF | An analysis of the cost-effectiveness of solar-powered irrigation systems in Côte d'Ivoire
- 938 | JULIUS GITHINJI | Analysis of dairy farmer's willingness to pay for targeted extension and advisory services in Kenya
- 431 | KONSTANTINOS DELLIS | Competing pathways for equitable food systems transformation: Trade-offs and synergies
- 244 | LEIDY TATIANA SILVA RUÍZ | Multicriteria analysis to operationalize agri-food systems sustainability transitions in the water-energy-food-biodiversity nexus
- 92 | RODGERS MUTYEBERE | Effect of information on farmers' preferences for disaster risk reduction measures: Evidence from a discrete choice experiment in western Uganda
- 510 | RICARDO SITUMEANG | Unlocking the potential of biogas technology in West Java, Indonesia: A multilevel analysis of adoption barriers and opportunities
- 876 | DAVOUD ROUZANEH | Designing a framework for transferring climate information to non-experts (based on narrative communication and storytelling)
- 445 | ANTOINE BERCY | Towards harmonisation of biogas research: A comprehensive systematic review of anaerobic digestion parameters and processes
-

10a + 10b Social justice and gender

Online and streaming in

Chair: CLAUDIA CORAL

Lecture Hall 2091/92

- 845 | RODGERS MUTYEBERE | Climate change and interaction with labour issues in small-holder agriculture in sub-Saharan Africa
- 385 | MOHANAMANI PALANISAMY | Factors influencing youth in family farming: A study from southern India
- 447 | TANAYA DUTTAGUPTA | Hidden pathways: Approaches to understand intra-household gender relations and climate adaptation in Kenya dairy systems
- 706 | DIANA SANTOS | Is associativity the key? Unraveling power dynamics in rural trading using an 'intertwining approach'
-

THURSDAY 21.09.2023

Poster sessions P2 – 09:30-10:15

1a Crop production and management II

Room: SR 1.601 (Elevator pitch)

Chair: TSU-WEI CHEN

- 183 | HELENA BOCHMANN | The lateral root architecture of the aus-panel
 731 | SYLVIA BULETI | Performance of integrated climate smart push-pull system with pigeon pea as an intensification pathway
 203 | JOSEPH BLAISE DONGMO LEKAGNE | Effects of *Tithonia diversifolia* on the growth, secondary metabolites and anticandida activity of *Cymbopogon citratus*
 217 | BERNHARD FREYER | Biochar and bioslurry production using water hyacinth from Lake Tana / Ethiopia – methodological issues and impact on crop yields
 649 | PETER MKILINDI | Invasive alien plants and the future of agriculture: Reviewing control approaches in western Serengeti, Tanzania
 347 | JUAN ANDRÉS CARDOSO | Contrasting accessions of tropical forage *Urochloa*: Pioneering tool for the prediction of carbon-soil sequestration
 327 | GILBERT KOSKEY | Relay intercropping of durum wheat and lentil enhances mycorrhizal functionality, weed control and crop productivity
 200 | JEERANAN KHOMAMPAI | The influence of endophytic actinomycetes inoculation in rhizosphere soil on growth and yield quality of tomato
 730 | DUY HOANG VU | Azolla compost as an alternative source of nitrogen for organic vegetable cultivation
 662 | SAHER ANYAD | Exploring the potential for improving crop water productivity to sustain future crop production in Egypt
 623 | JEAN-MARTIAL JOHNSON | Alternate wetting and severe drying: A sustainable irrigation strategy for rice production in Burkina Faso?

1d Abiotic stress

Room: SR 1.606

Chair: FOLKARD ASCH

- 515 | ANTHONY KIMARO | Yield and drought resistance of maize within *Gliricidia sepium* and pigeonpea intercropping systems
 775 | HEMANTH KUMAR PUPPALA | Effect of salinity on nutrient uptake and growth of two genotypes of *Solanum lycopersicum* and *Cucumis sativus* under contrasting VPD levels
 799 | FOLKARD ASCH | Effect of salt stress on transpiration of some sweet potato genotypes
 875 | THERESA DETERING | The effect of vapour pressure deficit on genotypic nutrient uptake and biomass production of hydroponically grown tomato
 889 | AMBIKA PANDEY | Understanding the genetic and physiological basis of arsenic responses and exclusion in rice (*Oryza sativa* L.)
 905 | GECKEM DAMBO | Hyperspectral estimation of pigments composition in wheat canopy layers under heat and drought field conditions
 657 | JOHANNA VOLK | Nutritious food from salty ground: the development of an early-detection-screening-tool for salinity tolerant sweet potato varieties
 917 | GECKEM DAMBO | Effects of soil water deficit and air humidity on reflectance indices and biomass in spring wheat

1d Abiotic stress ctd.

- 965 | OKAFOR UCHE CYPRIAN | Unlocking the resilience of yacon (*Smallanthus sonchifolius*): A systematic review
- 213 | ENDERSON FERREIRA | Induction of water stress tolerance in soybean by multifunctional micro-organisms
-

2a Optimisation strategies, synergies and trade-offs between sustainability, productivity and profit in farming systems II

Room: SR 1.608

Chair: ANNE ELISE STRATTON

- 269 | POWELL MPONELA | A tool for analysing sustainability of smallholder farms: farm input subsidy policy use case
- 835 | SELORM Y. DORVLO | Possible pathway and interactions for integrating mechanisation into sustainable rice production in Ghana
- 843 | OWEN MACHUKU | Trends and determinants of change in rice-based production systems in the Zambezi floodplain in Zambia
- 191 | JENS VAN HEE | Identifying and predicting best-performance cases to foster a sustainability transition in West African cocoa production
- 215 | ANDREAS ARON-WINKLER | Towards sustainable land management and agricultural practices in Central Vietnam: challenges and opportunities
- 742 | DAPHINE KAMUSINGIZE | Banana food-fibre nexus: The position of Uganda's banana smallholder farmers
- 709 | MD AMIRUL ISLAM | Changing trends in management practices and their implications for production under different rice-based systems in coastal Bangladesh
-

3a Climate change, agriculture and adaptation II

Room: Foyer 5th floor

Chair: CHRISTOPH GORNOTT

- 396 | REAGAN LEWIS | The effects of economic and environmental strategies on typical dairy farms performance in Western Kenya
- 400 | NATALIA MATIZ-RUBIO | Productive, environmental, and economic shifts of dairy systems by adopting silvo-pastoral systems and improved pastures
- 667 | CHRISTIAN BATEKI ADJOGO | Replacing oxen with tractors: Reduction or shift in greenhouse gas emissions?
- 421 | REIN VAN DER HOEK | Spatial targeting of adaptation efforts in the livestock sector
- 449 | KATRIN AGETHEN | Economic performance and greenhouse gas emissions of two typical beef production systems in Eastern Kenya
- 967 | ANNA HAMPF | Climate change impacts on the agro-climatic suitability of major food and cash crops in Madagascar
- 461 | DANIEL ALBERTO PEROZO-SUÁREZ | How do extreme climate events affect farm food production? An analysis from Brazil
- 738 | NATALIA MATIZ-RUBIO | Prioritizing climate-smart cattle farming practices and technologies for sustainable livestock production in Colombia's Orinoquia region
- 236 | LENNART JANSEN | Climate change impacts on maize yields in Cameroon as mediated by heat-tolerance adaptation
-

4a Agrobiodiversity and (agro)forestry to transform food systems II

Room: SR 1.406

Chair: SILKE STÖBER

- 141 | ANDRÉS CHARRY | Sustainable livelihoods in protected areas: The case of *Pimenta dioica* in the Maya biosphere reserve
- 918 | AMINA AHMED | Uses of *Hyphaene* species known as mikoche and consumption constraints as food in Tanzania
- 683 | IMKE SCHEEPSTRA | Agrobiodiversity maintenance through everyday practices: A gender-analysis of women's role in native potato conservation
- 180 | FRED KALANZI | Diversity and use of trees for food security in smallholder farming systems of Uganda
- 954 | RASHMI YADAV | Characterisation of Indian mustard germplasm for agro-morphological traits and biotic stress tolerance
- 707 | KAZEEM AKANNI JIMOH | Capability approach to wellbeing analysis: A case study of NTFP producing households in Iseyin, Nigeria
- 467 | BONNA ANTOINETTE TOKOU | Agroecological services to improve the livelihoods of cocoa farmers in Côte d'Ivoire
- 984 | JANELLE SYLVESTER | Food system drivers of deforestation: An analysis of deforestation as an outcome of the food system
- 487 | EMIEL DE MEYER | The urban jungle, an underexplored habitat for neglected and indigenous plant diversity
-

5a The role of livestock production systems in food systems transformation II

Room: SR 1.205

Chair: EVA SCHLECHT

- 278 | DAGMAR BRAAMHAAR | Tracing the origin of external feed inputs to assess the circularity of livestock farming systems in Kenya
- 256 | ERMIAS HABTE | Evaluation of nonstructural carbohydrate traits of Napier grass (*Cenchrus purpureus*) genotypes grown under field drought stress condition
- 435 | SISAY BELETE | Nutritional values of indigenous browse and herbaceous legume species for ruminants in Ethiopia: a meta-analysis
- 746 | VICTOR AKINWANDE | *In vitro* gas fermentation assessment of shed leaves of some predominant plants as ruminants' forage
- 579 | RAWAD SWIDAN | Chemical composition of willow trees for silage making based on harvest frequency
- 329 | HOLGER KIRSCHT | Black soldier flies (BSF) as alternative livestock feed in Kenya: Gendered perspectives on business models
- 211 | CHRISTIAN LÜCKSTÄDT | The influence of drinking water acidification in broilers under Indonesian conditions
- 245 | MOHAMED AHMED | Response of broiler chicken to different levels of replacement of boiled bambara seeds (*Vigna subterranean* verdc) for super-concentrate
- 957 | KESINEE GATPHAYAK | Effects of dietary supplementation of red yeast (*Sporidiobolus pararoseus*) in mycotoxin contaminated feed on gene expression in the liver of broilers and layers
-

7a Agrifood markets and value chains II

Room: SR 1.501

Chair: AYOBAMI ADETOYINBO

- 507 | STEFAN BURKART | The carbon footprint of beef transportation in Colombia: Market connections and distribution networks
- 292 | LYDIA ADELEKE | Status of local feed mills in Nigeria: The case of Akure metropolis
- 277 | BUAPUN PROMPHAKPING | Fresh food markets, small-food producers and transformative path of food system in Thailand
- 98 | JEIMY KATHERIN FEO MAHECHA | Entrepreneurial innovation pathways of the Amazonian cocoa chocolate value chain: A success associative story in San Martin, Peru
- 870 | MARY MAKYAO | Local logistics and transport for African indigenous vegetables in sub-Saharan Africa: A case of Kakamega and Vihiga counties in Kenya
- 914 | ATHENA BIRKENBERG | From dumping to upcycling: Modelling environmental and economic impact of coffee cherry uses
- 159 | FEDERICO CEBALLOS-SIERRA | How do environmental shocks affect competitors in an agricultural supply chain? Evidence from a competitors' weighting matrix
- 458 | DANIEL ALBERTO PEROZO-SUÁREZ | Strengthening value chains of products from the Amazon: Lessons from and to the "Gosto da Amazônia" Project
- 776 | JOSEPH ALULU | Impact of seed innovations on farm performance among African indigenous vegetables producers in western Kenya

8a Food system diversification for food security II

Room: SR 1.506

Chair: CAROLINE HAMBLOCH

- 891 | SAFIYYA KASSIM | Promoting food security in Zimbabwe by addressing adoption challenges for female farmers: Pfumvudza agricultural program
- 446 | MATTHIAS FINCKH | Livelihood diversity, dietary diversity and resilience: Findings from rural households in the Bolivian Amazon
- 175 | JAMES BOSOMTWE QUAIKOE | The significance of social capital for smallholder farmers: Selected evidence on welfare from Kenya
- 519 | BERNARD KWAMENA COBBINA ESSEL | Rural entrepreneurship and food insecurity in Ghana
- 578 | KEBEDE CHAKA | Enhancing sustainable food security and transforming food systems in four woredas of Gurage zone, Ethiopia
- 674 | SABA SHOKROLLAHI | Spatial modelling of food product ecosystem service for evaluated food security in Iran (case study: Qazvin province)

11a Social learning and knowledge systems: understanding and integrating multiple actor perspectives to foster food systems transformation II

Room: SR 1.201

Chair: LILLI SCHEITERLE

- 774 | TANDU RAMBA | Empowering smallholder farmers in climate field schools: Farmer led-research
- 827 | ASHARA NIJAMDEEN | Discovering Sri Lankan expert mangrove stakeholder views and attitudes toward mangrove management using Q methodology
- 904 | NATALIA TRIANA-ANGEL | The underlying causes of deforestation during "peacetime": Evidence from the implementation of the peace agreement in Colombia
- 136 | OLUWATOYIN KOLAWOLE | Game farming as sustainable livelihoods and biodiversity conservation strategy in Okavango rural communities in Botswana

11a Social learning and knowledge systems: understanding and integrating multiple actor perspectives to foster food systems transformation II ctd.

- 232 | MICHAEL PETERS | Using photovoice as an M&E Tool: Evidence of change from smallholder livestock producers' perspective in Vietnam
- 699 | NISHANTH GURAV | Sustainable use and conservation of wild food plants through indigenous wisdom
- 469 | EVA GOLDMANN | Highlighting project impact: The underestimated power of personal stories
- 953 | RAINER ZACHMANN | Production of training materials – “research guides”- for international agricultural research, training and communication
-

13f DAAD Alumni seminar II

Room: SR 1.103

Chair: ANNE SIEGMEIER

- 971 | MELESSE ZELEKE AGEGNEHU | The role of false banana (*Ensete ventricosum*) for sustainable agriculture in Ethiopia
- 973 | OLIVER KUWA | Promoting food security through conservation agriculture: A case study of intensifying sustainable farming practices among smallholder farmers in Zimbabwe
- 975 | JULIAN DANIEL MIJAILOFF | Forest-based bioeconomy in Argentina: Identifying social actors and dominant, marginal and alternative discourses
- 976 | BACH NGO DUY | Identifying powerful actors in community forestry for effective sustainable forest management: A case study in Son La province
- 977 | SUMIT MAHAJAN | Factors affecting availing of veterinary services in India: A regional perspective
- 978 | SRI OKTAVIA | Food security and sustainability through geographical indications (GIs) protection system for honeybee's producers communities within forest peripher
- 979 | GANZORIG GONCHIGSUMLAA | Socio-economic and ecologic factors for mobility of herder households in Mongolian steppe
- 980 | THI THUY HONG DO | Promoting sustainable land use practices among the forest-dependent communities: Case studies of Vietnam
- 981 | MARIO CUCHILLO HILARIO | Body composition changes of male mice C57BL/6 fed high-fat diets supplemented with bovine milk coming from three feeding systems in subhumid tropics
- 982 | MARY ADU-SARPONG | Improving household food security; the role of neglected and underutilised (NUS) species: case study in nkawie forest district
- 983 | ISIAAH ETEMO MUCHILWA | Empowering jua-kali to combat mycotoxins in Kenya's maize supplies: A participatory design approach with transdisciplinary knowledge integration
-

8a + 8b Food and nutrition security

Online and streaming in

Chair: N.N.

Lecture Hall 1.101

- 274 | FERDINAND KAMIDI ISABU | Assessing the factors influencing fish consumption frequency among households in Kibera informal settlement
- 45 | SARA ASHOUR | Can trade facilitation policies help mitigate future food crises? Evidence from the Kingdom of Jordan
- 787 | ADRIEN DOGO | Co-developing nutritious foods with societal actors to improve child nutrition in northern Benin drylands
-

8a + 8b Food and nutrition security ctd.

- 453 | CECILIA MAINA | Role of food choice motives in socioeconomic disparities in food consumption and nutritional outcomes
- 729 | MÉLINA HOUNDOLO | Schools food environments in Boukombe and Natitingou and students' perceptions about these environments
- 744 | CHÉRIF ISSIFOU | Towards a local system for screening child malnutrition
- 943 | EKUNDAYO GLORIA CHRISTELLE GBENOU | Do agricultural cooperatives enhance rural transformation?
- 328 | DORCAS FADOJU | Effects of credit constraints on the welfare of farm households in Southwest Nigeria
- 893 | MALIKATH BANKOLE | Sociocultural factors influencing production and consumption of fruits and vegetables in Boukombé in northern Benin
- 767 | IFEOLUWA OLA | Effect of food environment on urban dwellers' dietary diversity in southwest Nigeria
-

11a + 11b Social learning

Online and streaming in

Chair: MARGARETA AMY LELEA

Lecture Hall 2091/92

- 815 | PHUONG THI NGUYEN | To maintain vegetable agro-biodiversity for nutrition security: Insights from ethnic minorities in northern Vietnam
- 580 | JANNATUL ULYA | Socio-ecological interaction of rural agricultural system surrounding conservation area: Case study from Jepara regency, Indonesia
- 375 | IKENNA EJIBA | Climate change, translocal migration and adaptation of rural farm households in Arochukwu, southeast Nigeria
- 455 | DIÉ-YACINE KA | Comparative analysis of the agroecological transition through the prism of the territory concept: Two case studies in Senegal
- 846 | KOUÉTÉ PAUL JIMMY | Cultural knowledge in child complementary feeding in agropastoral settings of northern Benin
-

THURSDAY 21.09.2023

Oral presentation sessions II – 10:45-12:15**1b Pest, diseases and control options****Room: Lecture hall 3038****Chair: STEPHAN WINTER**

- 10:45 STEPHAN WINTER, Transformation and intensification of food crop production in Africa in light of increasing threats from pests and diseases (ID 603)
- 11:15 TINON NEHAL DJAOUGA MAMADOU, Distribution, incidence and severity of Fusarium wilt on cotton in Benin (ID 680) - ONLINE
- 11:30 JAMES MWANGI, Mobilizing natural enemies for sustainable plant pests and diseases management (ID 732)
- 11:45 SAMAR SHEAT, Screening cassava for resistance against cassava mosaic and cassava brown streak viruses using a precise and rapid high throughput workflow (ID 604)
- 12:00 WRAP UP AND FINAL DISCUSSION

2b Sustainable land use, food systems, and commodity chains in regions of climate vulnerability, deforestation, and conflict**Room: Lecture hall 2091/92****Chair: MICHELLE CHEVELEV-BONATTI
and BARBARA SCHRÖTER**

- 10:45 MIGUEL ROMERO, Effectiveness of cocoa cropping systems to reduce deforestation in Colombia's post-conflict areas (ID 959)
- 11:00 LISSET PEREZ-MARULANDA, Boosting the adoption of sustainable land-use systems for climate-change mitigation and peacebuilding (ID 158)
- 11:15 MA. VILLARINO, Toward zero deforestation value chains: environmental upgrading and downgrading among non-certified cocoa producers in Colombia (ID 270)
- 11:30 LAURA KRINGS, Promoting environmentally and socially responsible global supply chains (ID 231)
- 11:45 TATIANA RODRIGUEZ, Narratives for the sustainability of agri-food systems in Ecuador: Understanding their divergences, similarities, and complementarities to catalyze transformative change (ID 666)
- 12:00 WRAP UP AND FINAL DISCUSSION

3b Resilience and adaptation to climate change

Room: Lecture hall 1.101

Chair: MARCOS LANA

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- 10:45 SHEM KUYAH, Perspectives on premier pathways for sustainable intensification of agriculture in Africa (ID 131)
- 11:00 JACOB EMANUEL JOSEPH, Potential for the adoption and use of climate-informed agro-advisories by smallholder farmers in a dryland district of Tanzania (ID 563)
- 11:15 AMRITBIR RIAR, Practising agroecology strengthens farmers' perceived ability to cope with climate change (ID 543)
- 11:30 ROBYN BLAKE-RATH, Behavioural traits and resilience to droughts among farming households in Thailand (ID 687)
- 11:45 ROBERTO SCOZ, Climate resilience of family livestock farmers with silvopastoral system (ID 330)
- 12:00 WRAP UP AND FINAL DISCUSSION
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4b Management and biodiversity in agroforestry and tree systems

Room: Lecture hall 2097

Chair: Martin Wiehle

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- 10:45 NIKOLAS PIONT KONWSKI GRÜNTHER, Multispectral drone image analysis for shade tree species characterisation in cocoa agroforestry systems (ID 906)
- 11:00 SIRIKI FANE, Decomposition and nutrient release patterns of shrubs/trees leafy biomass in the Sahelian ecological zone of Senegal in West Africa (ID 926)
- 11:15 ELISHEBA IMBAYA, Tree diversity and aboveground carbon stocks in push-pull systems in western Kenya (ID 751)
- 11:30 KAI BEHN, Land-use effects on plant and arthropod diversity in South African savannahs (ID 156)
- 11:45 NDUNGU S. NYOKABI, Exploring regenerative agriculture using photovoice: The case of the Mau Narok-Cherogany Complex in Kenya (ID 459)
- 12:00 WRAP UP AND FINAL DISCUSSION
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THURSDAY 21.09.2023

8b Food environment and consumer behaviour for improved nutrition and health

Room: Lecture hall 2094**Chair: GUDRUN B. KEDING and CONSTANCE RYBAK**

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- 10:45 INA CRAMER, Evaluation of the attractiveness of four variations of infant food packaging label using eye tracking (ID 821)
- 11:00 MUSTAFA NASIRI, What meat attributes do consumers in Afghanistan value the most? – An analysis of choice attributes (ID 826)
- 11:15 RONALD OCHIENG MWANGA, Exploring the determinants of a healthy food nutrition environment in rural households (ID 704)
- 11:30 IRENE INDULI, Community action plans to enhance sustainable food availability and accessibility in Busia County, Kenya (ID 682)
- 11:45 JUDITH HENZE, Southern African diet: Developing a regional diet for better health for people and planet (ID 222)
- 12:00 WRAP UP AND FINAL DISCUSSION
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10a Gender and intersectional perspectives in transforming food systems

Room: Lecture hall 1072**Chair: CAROLINE HAMBLOCH**

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- 10:45 LINA TAMI-BARRERA, Gendered livelihood strategies and food security of cacao smallholders in Alto Sinú, Colombia (ID 414)
- 11:00 KUSHALA WITHARANAGE, How do gender-caste intersectionalities influence the involvement of communities in organic cotton farming? (ID 779)
- 11:15 DIETMAR STOIAN, Asset control among rural households in Petén, Guatemala: Evidence on gendered and joint decision making (ID 617)
- 11:30 PRAPTI BAROOAH, Developing women's empowerment in energy index: Conceptual framework and empirical evidence (ID 798)
- 11:45 RUTH MENDUM, Gender and climate change adaptation in refugee hosting landscapes in the arid tropics of Eastern Africa (ID 207)
- 12:00 WRAP UP AND FINAL DISCUSSION
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13b Research cooperation for sustainable development (BMBF/DLR session)

Room: Fritz-Reuter-Hall

Chair: MIKHAIL RUSAKOV

Moderation:

DR. KIRSTEN KIENZLER, Head of Department Cooperation with (non-EU) Eastern European Countries, South Caucasus, Central Asia, Project Management Agency (DLR-PT)

MIKHAIL RUSAKOV, Scientific Officer, Cooperation with (non-EU) Eastern European Countries, South Caucasus, Central Asia, Project Management Agency (DLR-PT)

With contributions and project examples by:

- GABRIELE HERMANI, Head of Division Cooperation with (non-EU) Eastern European Countries, South Caucasus, Central Asia, Federal Ministry of Education and Research (BMBF)
 - PATRICIA ROMANOWSKY, Science Officer, Federal Ministry of Education and Research (BMBF)
 - DR. NILS HEIN, Leibniz-Institute for the Analyses of Biodiversity Change (ZFMK, LIB), Berlin: *Project CaBOL - Caucasus Barcode of Life - Assessing the Biodiversity of the Caucasus*
 - DR. KARSTEN RINKE, Helmholtz-Centre for Environmental Research (UFZ), Magdeburg: *Project SEVAMOD2 - Establishing knowledge-based management for the largest lake in the Caucasus (Lake Sevan, Armenia)*
 - DR. IRINA HOPP, Justus-Liebig-University Gießen: *Project TRANS-LIVE-STOCK - Challenges and opportunities for value chains in trans-border livestock trade between Tajikistan and Uzbekistan*
 - DR. PAUL BERTHEAU, Reiner-Lemoine-Institute (RLI), Berlin: *Project Green-HyRECA – Production potential of green hydrogen in Central Asia*
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THURSDAY 21.09.2023

13e Memorial session: Seeds of change

Room: SR 2093**Chair: MARTINA PADMANABHAN**

We dedicate this panel “seeds of change” to late Dr. Anja Christinck for her seminal work on agrobiodiversity, participatory breeding and organic farming. Based on her research undertaken with farmers in western Rajasthan on management of diversity in pearl millet cultivars, she inspired practitioners, scholars and activists likewise. With her unique approach to teaching, consultancy and collaborative writing while based in the tiny village of Gichenbach, she reached out worldwide and contributed towards the development of seed networks, promotion of farmers rights and cultivating agrobiodiversity. With this panel we honor her thorough knowledge, methodological innovation and friendly persistence to promote a holistic approach to social-ecological relations. We invite you to share stories and listen to research results motivated by her.

Anja passed away on the 19th of August, 2022 in Germany. We do invite you to share your online condolences and warm memories at www.seed4change.de

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| 10:45 | OM PARKASH YADAV, Strategies for enhancing productivity and resilience of pearl millet in stress environments of Rajasthan, India (ID 360) |
| 11:00 | BRIGITTE KAUFMANN, Learning processes to foster ‘localised’ innovation in food and farming systems (ID 741) |
| 11:15 | MARTINA PADMANABHAN, Seeds in organic farming in Indonesia: Falling through the sieves of regulation and practice (ID 777) |
| 11:30 | EVA WELTZIEN, Pearl millet breeding for agroecology: Biodiversity considerations in West Africa (ID 955) |
| 11:45 | WRAP UP AND FINAL DISCUSSION |
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Oral presentation sessions III – 13:45-15:15

1c Soil and plant nutrition management

Room: Lecture hall 3038

Chair: JOHANNES SCHULER

- 13:45 MILLION SILESHI HAILE, Impact of integrated soil fertility management practices on smallholder farmers welfare in Ethiopia (ID 422)
- 14:00 ABDULLAH THASEEM MUHAMMED SHAH, From burning to conserving residues: The role of machinery service providers in disseminating conservation tillage (ID 592)
- 14:15 FELIPE QUARTUCCI, Deep soil carbon loss offsets rapid aboveground growth after reforestation of the Atlantic forest, Brazil (ID 391)
- 14:30 ABIODUN OLUSOLA OMOTAYO, Does organic manure and other soil management practices impact productivity and welfare outcomes of indigenous plant farmers in South Africa? (ID 869)
- 14:45 FELIX MATHERI, How do composting materials and duration impact compost evolution and quality in the tropics? (ID 812) - ONLINE
- 15:00 WRAP UP AND FINAL DISCUSSION

2a Optimisation strategies, synergies and trade-offs between sustainability, productivity and profit in farming systems

Room: Lecture hall 2091/92

Chair: ANNE ELISE STRATTON

- 13:45 SOYTAVANH MIENMANY, Co-designing and scaling sustainable intensification of mixed farming systems in Laos (ID 713)
- 14:00 LISA MURKEN, Climate-driven crop suitability effects on conflict in sub-Saharan Africa (ID 836)
- 14:15 RICARDO VARGAS-CARPINTERO, Developing macaúba value webs: A novel oil crop, multipurpose palm for agricultural diversification in Brazil (ID 824)
- 14:30 CHRISTINE ARWATA ALUM, Resource allocation trade-offs in smallholder cropping systems using multi-objective optimisation (ID 311) - ONLINE
- 14:45 RICHELYN ROSE CLAVERO, Emerging pathways in changing rice-based production systems in Luzon, Philippines (ID 856)
- 15:00 WRAP UP AND FINAL DISCUSSION

THURSDAY 21.09.2023

4c Biodiversity data as key to conservation of natural resources

Room: Lecture hall 2097

Chair: BONNIE BLAIMER

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- 13:45 TOBIAS KUEMMERLE, Land-use impacts on biodiversity across spatial scales in a deforestation hotspot (ID 249)
- 14:00 ANJA LINSTÄDTER, Reconstructing past and predicting future biodiversity in (sub-) tropical forests by harnessing their archive function (ID 801)
- 14:15 ROEL VAN KLINK, Widespread declines of formerly abundant species drive insect loss (ID 97)
- 14:30 RUDOLF MEIER, Reducing the taxon bias in biodiversity data using robots, nanopore sequencing, and AI identification tools for arthropods (ID 365)
- 14:45 CAMILA MAZZONI, Invertebrate-derived DNA (iDNA) as a source for vertebrate biodiversity and disease monitoring (ID 407)
- 15:00 TOBIAS LANDMANN, An insect-based biodiversity metric for agroecological systems in Africa (ID 254)
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5a The role of livestock production systems in food systems transformation

Room: Lecture hall 1.101

Chair: CHRISTIAN BATEKI ADJOGO

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- 13:45 MAMADOU COULIBALY, Efficacy of two anthelmintics against gastrointestinal nematodes of sheep in the silvopastoral zone of Senegal, Mali and Burkina Faso (ID 544)
- 14:00 TOLULOPE AREMU, Yellow mealworm as a protein alternative for lactating rabbit does (ID 628)
- 14:15 MARIA OGUCHE, Redefining frameworks for animal welfare, ethics, and trade-offs in non-conventional livestock species production: The case of Cameroon (ID 495)
- 14:30 PAUL SSUNA, Assessing the feasibility of applying the welfare quality® assessment protocol for dairy cows on farms in Kiruhura District, Uganda (ID 306)
- 14:45 KAREN ENCISO, Co-integrated panel models to estimate relationships between cattle and greenhouse gas emissions for Latin America (ID 143)
- 15:00 WRAP UP AND FINAL DISCUSSION
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7a Agrifood markets and value chains

Room: Lecture hall 2094

Chair: AYOBAMI ADETOYINBO

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- 13:45 GIDEON DANSO-ABBEAM, Impact of agroecological practices on farm performance in Botswana (ID 266) - ONLINE
- 14:00 QUOC NGUYEN-MINH, Missing middle in agri-food transitions: The case of safe food supplying in Vietnam (ID 429)
- 14:15 MULUKEN ELIAS ADAMSEGED, Innovation scaling for equitable food systems transformation: Introducing an innovation bundle profiling tool to enhance scalability (ID 782) - ONLINE
- 14:30 AYOBAMI ADETOYINBO, The contingent interplay between resources, entrepreneurship, and agribusiness performance among small-scale agri-food actors (ID 660)
- 14:45 HERIZO MICHA FOURNIER, Analysis of the specialty cocoa value chain in Huila, Colombia (ID 149)
- 15:00 WRAP UP AND FINAL DISCUSSION
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11b Social dynamics of food systems transformation

Room: Lecture hall 1072

Chair: KATHARINA LÖHR

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- 13:45 GIOVANNA CHAVEZ-MIGUEL, Local food system resilience in context of shocks and crises: Vulnerabilities and responses of agroecology-based farmers in Peru, the United States, and Germany (ID 185)
- 14:00 LIZA MELINA MEZA FLORES, *M'inka, ayni* and *apachikuy*: Social practices for food systems in crisis (ID 139) - ONLINE
- 14:15 FRANZISKA JÄCKEL, Understanding migration trends and livelihood vulnerability: A case study from Ghana (ID 635)
- 14:30 OLIVER SCHULTE, Building resilience or missing specification? Crop and labour diversification in Southeast Asia (ID 624)
- 14:45 AKANKSHA SINGH, Power relations and socio-ecological resilience in small-scale farming systems: Learnings from a long-term research program (ID 526)
- 15:00 WRAP UP AND FINAL DISCUSSION
-

THURSDAY 21.09.2023

13c Payments for Ecosystem Services: Win-Win Solutions? (BMZ/GIZ session)

Room: Fritz-Reuter-Hall

Chair: CLAUDIA RINGLER

CLAUDIA RINGLER, IFPRI, Director of Natural Resources and Resilience: *Context setting remarks*

JOHAN SWINNEN, IFPRI Director General, Managing Director of CGIAR Systems Transformation Science Group: *Welcome remarks*

Discussion inputs:

MARCELA QUINTERO, Associate Director General, Research Strategy and Innovation for the Alliance of Bioversity and CIAT; Senior Director Food Systems Transformation Science Group: Payments for ecosystem services: *What, where & how?*

FELICITAS RÖHRIG, Senior Policy Officer, Division of Agriculture and Rural Development, BMZ: *BMZ interest in ecosystem service payments*

STEVEN LAWRY, CIFOR Senior Associate: *Learnings from carbon markets/REDD++*

AMOS WEKESA, Global EverGreening Alliance (GEA): *Experiences from linking farmers with carbon markets in Africa*

PRANAB CHOUDHURY, Foundation for Ecological Security: *The Promise of Commons as a unique PES scheme*

Discussion:

Key Considerations required for scaling of PES opportunities

Oral presentation sessions IV – 15:45-17:15

5b Livestock and income, livelihoods and resilience

Room: Lecture hall 1.101

Chair: REGINA RÖBLER

- 15:45 FAIZAL ADAMS, Crop-livestock integration in urban agriculture: Implication for urban food security in Ghana (ID 3)
- 16:00 CODJO ESTEBAN HÉNOC MEDENOU, Diversity of sheep farming systems in the urban and peri-urban areas of southern Benin (ID 346) - ONLINE
- 16:15 REIN VAN DER HOEK, Feasibility of improved silvopastoral systems in the Caribbean region of Nicaragua (ID 840)
- 16:30 LOUIS PHILIPP SCHWARZE, Screening for innovations that address sustainability trade-offs in Kenyan livestock systems (ID 577)
- 16:45 STEFAN BURKART, Profitability analysis of a silvo-pastoral system in Colombia: Economic and environmental benefits (ID 157)
- 17:00 WRAP UP AND FINAL DISCUSSION

6a Knowledge systems and digitalisation

Room: Lecture hall 3038

Chair: JONATHAN STEINKE

- 15:45 ARIANE GOETZ, The best of two worlds? Problems and new approaches of science communication with practitioners in sustainable agriculture (ID 72)
- 16:00 YEMANE ASMELASH GEBREMARIAM, Roles and practices of agricultural extension agents in transforming the extension system in Ethiopia (ID 192)
- 16:15 EVELYNE NJUGUNA, Can digitalisation contribute to sustainable transformation of smallholder agriculture in Africa? (ID 344)
- 16:30 JUAN CAMILO RIVERA PALACIO, Crop yield estimation using mobile pictures and deep learning in collaboration with thousands of smallholder coffee producers (ID 216)
- 16:45 DAMILOLA ALADESURU, Farmers' perceptions on use of video as alternative tool for learning climate smart agriculture (ID 304)
- 17:00 WRAP UP AND FINAL DISCUSSION

THURSDAY 21.09.2023

7b Food processing, food quality and food safety

Room: Lecture hall 2094

Chair: JANVIER NTWALI

-
- 15:45 EDUARDO DUQUE-DUSSAN, Hybrid tunnel solar dryer for coffee processing in Colombia: Design and experimental evaluation (ID 22)
- 16:00 CARLITO BALINGBING, Determining sound signature of major insect pests in stored rice using inexpensive acoustic system (ID 374)
- 16:15 CAROLYNE KIPKOECH, Dioxins and polycyclic aromatic hydrocarbons in farmed and wild-harvested edible insects from East Africa (ID 714)
- 16:30 WIOMOU JOÉVIN BONZI, Computational sizing of a hybrid photovoltaic system for peanut oil production in Senegal (ID 616)
- 16:45 JAMILA SMANALIEVA, Enhancement of antioxidant properties of traditional dairy products with the addition of dried fruits (ID 471)
- 17:00 WRAP UP AND FINAL DISCUSSION
-

9a Governance and (bio)economic aspects of food systems transformation

Room: Lecture hall 2091/92

Chair: HARRY HOFFMANN

-
- 15:45 MIRIAM E. ROMERO ANTONIO, The state of urban food policy action in emerging asia (ID 319)
- 16:00 JULIET KARIUKI, Trade-offs and synergies amongst competing pathways for sustainable agricultural transformation in africa (ID 655)
- 16:15 ATHENA BIRKENBERG, Governance challenges and digital tools in small-holder agricultural carbon projects; insights from Kenya (ID 710)
- 16:30 PAY DRECHSEL, On the feasibility of an agricultural revolution: Sri Lanka's move to go 100% organic (ID 133)
- 16:45 MELINA GRIFFIN E, Access to agricultural land for Uruguayan youth and the role of the national institute INC (ID 145) - ONLINE
- 17:00 WRAP UP AND FINAL DISCUSSION
-

10b How to foster inclusive food systems? Approaches to assessing social vulnerability and foster social equity

Room: Lecture hall 1072

Chair: CLAUDIA CORAL

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- 15:45 CHRISTOPH FUNK, Assessing flood vulnerability for social inclusion and disaster preparedness in Kerala's farming communities (ID 481)
- 16:00 NELSON ALBERT OCHIENG, Land tenure and agricultural crimes: Empirical evidence from rural Tanzania (ID 770)
- 16:15 ZIED IDOUDI, Positive grounds for agroforestry-based systems in Tunisia to transform to more equitability and inclusiveness (ID 512)
- 16:30 RYAN NEHRING, A conceptual framework of living labs for people: Fostering innovations for low-emissions food systems and social equity (ID 464)
- 16:45 EVA THUIJSMAN, Operationalizing social equity in agricultural research (ID 332)
- 17:00 WRAP UP AND FINAL DISCUSSION
-

12a Renewable energy and circular economy in the frame of water-food-energy nexus

Room: Lecture hall 2097

Chair: MICHAEL BRÜNTRUP AND GÖTZ ÜCKERT

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- 15:45 ADITYA KOREKALLU SRINIVASA, Unpacking stakeholder perceptions on challenges for increasing adoption of solar powered irrigation systems in India: A Q methodology study (ID 556)
- 16:00 SEBASTIAN SEMELLA, Automated national biomass profiles for sub-Saharan Africa: Data for circular economy (ID 886)
- 16:15 ANN WATERS-BAYER, Climate justice in transforming land-use systems for food and renewable energy (ID 74)
- 16:30 PIERRE ELLSSEL, From waste to wonder? Scaling the off-farm production of organic and biofertilisers in Africa: A scoping study (ID 144)
- 16:45 ANGGA PRADESHA, The impacts of groundwater development on agriculture food system in Senegal: A general equilibrium assessment (ID 358)
- 17:00 WRAP UP AND FINAL DISCUSSION
-

THURSDAY 21.09.2023

13d Leveraging human rights-based action towards equitable food systems: A panel discussion (BMEL/BLE)

Room: Fritz-Reuter-Hall

Chair: MAJA CLAUSEN

In the BMEL Session (ID 990), an expert panel will discuss the various facets and research needs of a rights based approach towards equitable food systems:

- DR. GEORGES DJOHY, University of Parakou, Benin, project “Enhancing women’s agency in navigating changing food environments to improve child nutrition in African drylands (NaviNut)”.
 - SARAH LUISA BRAND, Food and Agriculture Organisation of the United Nations (FAO).
 - DANG TO KIEN, Social Policy Ecology Research Institute (SPERI), Vietnam, project “Nutrition Intervention Forecasting and Monitoring (NIFAM)”.
 - DR. ANDREAS GRAMZOW, GFA Consulting Group GmbH.
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Poster sessions P3 – 17:30-18:10

1a Crop production and management III

Room: SR 1.601 (Elevator pitch)

Chair: TSU-WEI CHEN

- 197 | KIRSTINE FRIIS LANGE | Title characterisation of the Mayan Milpa system: Maintenance of crop diversity
- 411 | JUUSO TUURE | Impact of maize plant residue on soil temperature dynamics in a dryland environment in Kenya
- 88 | MAHSHID SOORI | In Iran's semi-arid regions, planting primed seeds is an efficient way to provide fodder under severe climatic conditions
- 622 | SOFIA MARCON | Assessment of cover crops implementation in mango and longan orchards in Battambang province, Cambodia
- 665 | RIZKI MAFTUKHAH | Trade-offs between nitrogen fixation and heavy metal(loid)s accumulation in a cassava-legume intercropping system on post-tin mining soils amended with local organic amendments
- 688 | AMIT KUMAR BASUKALA | Effect of irrigation efficiency enhancement on crop productivity and irrigation water availability under climate change in Nepal
- 314 | SAÏD CHANFI REHEMA | Dose effect of organic matter on growth and biomass parameters of *Hibiscus sabdariffa* (L.) (Bissap) in the fatick region
- 565 | REENA MACAGGA | Reusing pineapple residue to promote nutrient cycling and reduce GHG emissions in small-scale pineapple cultivation
- 296 | HARISON KIPKULEI | Integration of CERES-maize modelling and remote sensing for crop condition and yield assessment in three agroecological zones in Kenya

1c Soil and plant nutrition management I

Room: SR 1.606

Chair: JOHANNES SCHULER

- 315 | AWA TOURÉ | The effect of the dose of organic manure on the growth and agromorphological parameters of okra (*Abelmoschus esculentus*) in the region of Fatick, Senegal
- 873 | JACOB KAINGO | Variability and critical values of nutrients in a highland banana farming system in East Africa
- 717 | ANGELA LARTEY - YOUNG | Impact of shea waste slurry on soil physical properties
- 626 | JÖRN GERMER | Production of a hydroponic nutrient solution from organic residues
- 462 | EMMANUEL ABBAN-BAIDOO | Biochar co-compost improves growth and yield of amaranth and cowpea in highly weathered sub-Saharan soils
- 251 | SAWAN KUSHWAH | Measures to increasing availability of phosphorous in organic farming
- 201 | PHANUMAT AINTA | Potential of insect frass as a bio-organic fertiliser from super worm (*Zophobas morio*) and meal worm (*Tenebrio molitor*)
- 170 | SAOWALAK SOMBOON | Decomposition, greenhouse gas emissions, and nitrogen release of rice straw and its derived biochar in paddy soil under anaerobic incubation

2b Sustainable land use, food systems, and commodity chains in regions of climate vulnerability, deforestation, and conflict

Room: SR 1.608

Chair: BARBARA SCHRÖTER,

- 567 | MARIA SOFIA MORALES GUZMAN | Analyzing cacao productivity in agroforestry systems through the lens of social-ecological interactions: A comparison of two municipalities in Colombia
- 929 | MARTHA LILIA DEL RÍO DUQUE | Cocoa sustainable business models and poverty traps in rural areas of Colombia
- 936 | STEF DE HAAN | Agrobiodiversity, resilience and food system change in the Andes
- 181 | MARY EYENIYEH NGAIVI | Breaking the mold: Gender dynamics and sustainable agri-food systems adoption for low emission food systems
- 230 | BARBARA SCHRÖTER | Aiming for sustainability? An analysis of global commodity chains of gold mining and cattle ranching in Colombia
- 239 | AMAHNUI GEORGE AMENCHWI | Sustainable farm management practices for climate change mitigation and livelihood improvement
-

3b Resilience and adaptation to climate change I

Room: SR 1.504 (Elevator pitch)

Chair: MARCOS LANA

- 379 | LUZIA DEIBLER | Resilience and agroforestry options in rural Zambia: Identifying the vulnerable and tailoring support to their aspired future
- 753 | FRANCIS ODUOR | Community-led interventions buffer effects impacts of extreme drought drylands: A case of Turkana county, Kenya
- 878 | MARGHERITA SQUARCINA | Food system resilience: Conceptualisation and empirical application
- 151 | CAROLINE KAWIRA | Household nutritional resilience against climate variability in the Karamoja border region of Kenya and Uganda
- 410 | FATIMA LAMBARRAA-LEHNHARDT | Gambian farmers' perception of and access to climate services on early warning and adaptation
- 436 | GIRI PRASAD KANDEL | Building resilience to climate change: Addressing smallholder farmers' food security concerns in Nepal
- 764 | PRAPTI BAROOAH | Water and well-being: How access to irrigation influences food security among smallholder farmers
- 503 | OSMAN TAHIDU DAMBA | Climate Information and demographic influence on climate-smart agricultural technology adoption in Ghana
-

4b Management and biodiversity in agroforestry and tree systems I

Room: SR 1.406

Chair: MARTIN WIEHLE

- 864 | CLAUDIA RAEDIG | Biodiverse resilient forest landscapes as engines for sustainable agriculture and food security
- 639 | TAINA SORAIA MULLER | Vanilla wild relatives naturally occurring in the Atlantic rain-forest-central biodiversity corridor in southern Bahia - Brazil
- 168 | SASIPRAPA KULLACHONPHURI | Influence of coffee agroforestry systems on soil carbon stock and carbon mineralisation: A case study in northern Thailand
- 224 | PHONLAWAT SOILUEANG | Seasonal dynamics of soil carbon and nitrogen stocks with various coffee agroforestry systems in Thailand
- 514 | MENGESTEAB HAILU UBUY | Aboveground biomass models for trees and shrubs of exclosures in the drylands of Tigray, northern Ethiopia
-

4b Management and biodiversity in agroforestry and tree systems I ctd.

- 897 | MARIE KALOUSOVÁ | Analysis of the diversity and timber potential in cocoa agroforestry systems in alta Verapaz, Guatemala
- 287 | PASCALE WAELTI | Participatory development of bush control techniques to improve rangelands and food security in Borana, Ethiopia

5a The role of livestock production systems in food systems transformation III

Room: SR 1.205

Chair: CHRISTIAN BATEKI ADJOGO

- 539 | AMINATA BEYE | Use of trees and shrub by farmers to control gastrointestinal nematodes (GIN) in extensive livestock production systems of West Africa
- 534 | LINDA CLECHIO GABRIELLA TRAORÉ | Prevalence and intensity of gastrointestinal nematode infection in small ruminants in three West African countries
- 804 | MARTIN WAINAINA | Surveillance of climate-sensitive zoonotic diseases: Leptospirosis at livestock slaughterhouses in three regions of Uganda
- 740 | MD. SHAHADAT HOSSAIN | Development of a fluorescent RBL reporter system for diagnosis of porcine cysticercosis
- 852 | SIMON MINZ | Benefits and financing options supporting the adoption of an East Coast fever vaccine in Tanzania
- 927 | LYDIAH KISOO | Practices and drivers for antibiotic use in Kenyan small-holder dairy farms
- 80 | ADEKOYEJO OYEGUNWA | Liver histopathology and growth performance of turkey poult fed with aflatoxin contaminated diets supplemented with nevatox binder
- 860 | STEFAN BURKART | The status of knowledge, attitudes, and practice in the cultivation and usage of improved forages in Kenya and Uganda

6a Knowledge systems and digitalisation I

Room: SR 1.505

Chair: JONATHAN STEINKE

- 66 | PIETERJAN DE BAUW | Research gaps for the horticultural sector in least developed countries: Monitoring urgencies and brokering research
- 465 | RYAN NEHRING | A political ecology approach for the co-production of knowledge in living labs
- 160 | ERMIA TESFAYE TEFERI | Farmers' willingness to pay for improved vegetable extension service: The case in northwestern Ethiopia
- 711 | SOPHIA BOTHE | Residue fact sheets for energetic and material use of agricultural crop residues in Ethiopia
- 221 | JOSÉ LUIS URREA-BENÍTEZ | Cultivating integrity: Addressing the impact of predatory publishing on agricultural research
- 813 | OUSSAMA HIMMY | Assessing mining disturbance for ecosystem services in Ouagadougou, Burkina Faso using Landsat data

8b Food environment and consumer behaviour for improved nutrition and health

Room: SR 1.506

Chair: CONSTANCE RYBAK

- 841 | IRIS SCHRÖTER | Visual perception and evaluation of child food packaging design by customers in northern Benin
- 275 | SHANJIDA SHARMIN | Consumers' attitudes towards social e-commerce for rice and shrimps with emphasise on female entrepreneurs in Bangladesh
- 819 | MD SHAHIN ALAM | The rise of A2 milk: Consumer demand, farmer perception, and marketing strategies in a metropolitan area
- 793 | EWARD MUSHI | Influence of socio-psychological food environment on consumer food choice in Mkuranga and Ilala districts, Tanzania
- 712 | VICTORIA KARIATHI | Food literacy and nutrition status in rural and urban Tanzania: Exploration of the nexus
- 317 | SIMONE KATHRIN KRIESEMER | Nutrition interventions for enhanced child health outcomes in Hanoi, Vietnam

10a Gender and intersectional perspectives in transforming food systems

Room: SR 1.404 (Elevator pitch)

Chair: CAROLINE HAMBLOCH

- 594 | STEFAN BURKART | Sustainable business models with a gender-sensitive approach for artificial cattle insemination services in the northwest highlands of Vietnam
- 520 | MICHAEL EULER | Can gender-intentional information campaigns through social institutions enhance women's participation in wheat seed markets?
- 300 | ALEXANDRA P. C. KRAUSE | Empowering rural farm women in agricultural development: A decision analysis approach with a focus on gender
- 322 | TIRUWORK AREGA | Impacts of electrification on the welfare of rural households in Ethiopia: A gendered perspective
- 324 | SARAH TOJO MANDAHARISOA | Farmer field schools in southeastern Madagascar: Best practices for gender-sensitivity
- 587 | IMMACULATA OKEKE | Are animal breeding technologies shifting gender norms? The case of Tanzanian small-scale dairy farming
- 609 | VIJESH KRISHNA | Shifting gender roles in agriculture: Estimating the impact of a women-centric R&D programme in India
- 482 | ANDRÉS VEGA-MARTINEZ | To what extent do the work organisation and the role of women determine farm trajectories in the Colombian and Brazilian Amazon?

13g International Partner Projects - University of Applied Sciences Weihenstephan Triesdorf

Room: Foyer 2th floor

Chair: BERND MÜLLER

- 146 | GEZAHEGN NIGUSSE KELIKAY | Nutritional, microbial and sensory of complementary food from kocho, orange-fleshed sweet potato and haricot bean
- 161 | ZERIHUN TESHOME MELAKU | Genetic diversity in anchote (*Coccinia abyssinica* (Lam.) Cogn) using microsatellite markers
- 285 | GELETA DIRIBA-SHIFERAW | Production potentials and technology practices for potato and tomato cultivation in Arsi zone, Ethiopia
- 618 | ANIS DZANKOVIC | Tomato production in Ethiopia – gross margin comparison of smallholder tomato farmers

13g International Partner Projects - University of Applied Sciences Weihenstephan Triesdorf ctd.

- 703 | SOLOMON BIZUAYEHU WASSIE | Production efficiency of smallholder onion producers in Ethiopia: Stochastic frontier model
- 998 | LINANGUIDABA BAWELIMA ADJAYI | Economic analysis of the local milk value chain in the Kara region
- 999 | ASMA KOUSSANI | Implementation of rapeseed oil production unit in Tunisia
- 1000 | TIWONGE VANESSA LONGWE | Nourishing futures: cultivating nutrition and male engagement for healthy childhoods on Likoma Island, Malawi
- 1001 | THERESA MANONGA | Aflatoxin management in groundnuts in Malawi
- 1002 | AMIRA NAJJAR | Improving the olive production in Tunisia: Virtual and practical pruning training
- 1003 | SOUHA NEILI EP ESSID | Establishing an experimental farm for educational services to promote the value chain of the olive-growing sector in southern Tunisia
- 1004 | DOLAPO NATALIE OMOKANJUOLA | Promotion of biofortified crops through establishing production & processing demonstration sites for vitamin A maize in Gombe State, Nigeria
- 872 | DIDERLINE MANFOUO TCHOPOU | Promotion of entrepreneurial innovations in the village poultry value chain for sustainable rural development

2a, 2b + 2c Landscape and land use

Online and streaming in

Chair: N.N.

Lecture Hall 1.101

- 531 | RAYMUNDO VENTO TIELVES | Local agricultural innovation system for rural producers in Consolación del Sur, Pinar del Río, Cuba
- 496 | ADAM MOHAMMED | Assessment of diversification strategies on level of living among soybean farmers in Kaduna State, Nigeria
- 262 | OYEBISI OLATUNJI OLAJIDE | Resilience to climate shocks among rural households in Nigeria
- 456 | KAREN CASTAÑO QUINTANA | Pollinating insect communities in livestock farming landscapes with silvopastoral systems in the Amazon region of Colombia
- 237 | IDOWU FASAKIN | Nexus between climate change adaptation strategies and poverty: evidence from rural farming households in Kwara State, Nigeria
- 63 | OPEYEMI AMUSAN | Evaluating waste management challenges, practices and habits for circular economy and green growth in Nigeria
- 202 | FAITH KANDIE | Assessing spatio-temporal patterns of rain-fed and irrigated agriculture using time-series earth observation in Baringo, Kenya

5a + 5b Food chains, food processing and consumers

Online and streaming in

Chair: ANDREAS BUERKERT

Lecture Hall 2091/92

- 528 | JANINE CONFORTE FIFONSSI DONHOUEDE | The relative role of soil, climate, and genotype in the variation in nutritional value of *Annona senegalensis* fruits and leaves
- 25 | SAMI ULLAH | Fresh strawberry (*Fragaria × ananassa*) and jamun (*Syzygium cumini*) fruit physico-chemical, antioxidative and organoleptic quality management by organic acid application
- 126 | ROLDÁN TORRES-GUTIÉRREZ | Microbiota and metabolites in the spontaneous fermentation of agricultural products in the Ecuadorian Amazon

5a + 5b Food chains, food processing and consumers ctd.

- 12 | ABEBE YIMER | Nutritional and anti-nutritional composition of some wild edible plants consumed in southwest Ethiopia
 - 545 | SALI NDINDENG | Rice milling and parboiling trade-offs for economic and nutritional gains in West Africa
 - 780 | KRISTINA ROESEL | A gentle push towards behaviour change: Designing nudge interventions to increase hygiene and food safety at pork joints in Uganda
 - 518 | VIKTORIA ZETTEL | Nutritional enhancement of Kenyan porridges: Chia seed and oyster mushroom fortification
 - 52 | NAKATO CAROLINE BUKIRWA | The impact of COVID-19 lockdown on milk production and marketing activities in Kiboga district
 - 571 | DIRISA WAKAABU | Sustainability and agroecology monitoring by private sector companies in the global rice value chain
 - 83 | ZERA KEDIR ALO | Wheat value chain analysis in Bale zone, Ethiopia
 - 505 | OLUSEGUN OGUNWANDE | Technical efficiency and value addition of hybrid tomato under urban homestead farming in southwest Nigeria
 - 800 | BIGNON STEPHANIE NOUNAGNON | Empowering sustainable shea butter processing: A decentralised energy access solution for Burkina Faso
-

Poster sessions P4 – 18:20-19:00

1c Soil and plant nutrition management II

Room: SR 1.606**Chair: JOHANNES SCHULER**

- 858 | CHIKE MADUEKE | Participatory soil mapping in Benin, supported by gamma ray measurement
- 582 | JAKOB HERRMANN | Prospects and limitations of farmers' knowledge and portable sensor equipment in soil salinity assessment and monitoring: A case study from Mozambique
- 899 | MARIANE PORTO MUNIZ | Performance of Poaceae cultivated in soil degraded by chromite mining in Hidrolândia, Brazil
- 62 | SAMI UL-ALLAH | Improvement in zinc biofortification of wheat to combat zinc malnutrition and food security issues in semi-arid regions of Pakistan
- 498 | JOSÉ LUIS URREA-BENÍTEZ | Urochloa and biofortified maize rotation improve zinc uptake: A promising strategy to fostering human health
- 381 | MATTHIAS WISSUWA | A roadmap towards the development of Zn-biofortified rice for Madagascar
- 862 | FRIEDERIKE SELENSKY | Sustainable nutrient management: Exploring transformation pathways across intervention levels
-

2c Agricultural landscape and land use change I

Room: SR 1.608**Chair: ROBERT CÁRCAMO MALLEN**

- 536 | FIONA HASENBACH | How to increase the benefits of soil carbon projects for small-holder farmers? A case study from Kenya
- 557 | KATHARINA HEMMLER | Agro-ecological effects of terrestrial sand mining in Accra metropolitan area, Ghana
- 307 | LA THI THAM | Factors affecting the transition to the long-rotation plantations of smallholders. A case study in Quang Tri province, central Vietnam
- 308 | OLAYA SHEWCHENKO | The best practices of royal project model on reducing hot spots and pm 2.5 in northern Thailand
- 321 | ESTHER S. IBRAHIM | Mapping crop types and cropping systems in Nigeria with sentinel-2 imagery
- 590 | S. MOHAMMAD MIRMAZLOUMI | User-centred agricultural drought monitoring: Integrating multisource remote sensing data for effective decision making
- 378 | PHILIPPE RUFIN | Transfer learning for smallholder field delineation and field size estimation in sub-Saharan Africa
- 637 | OLUWASEYI OLASOJI | Intrinsic drivers of land abandonment in Africa: A case study of Nigeria
- 398 | MAX HOFMANN | Combining crop-cuts with remotely-sensed weather data to predict maize yields in sub-Saharan Africa
- 910 | NATALIA TRIANA-ANGEL | Owning the land, but at what cost? Changes in power relations and land accumulation in cattle ranching in wartime Colombia, 2001-2012
-

3b Resilience and adaptation to climate change II

Room: SR 1.504 (Elevator pitch)

Chair: MARCOS LANA

- 286 | ALEXANDER CANO | Farmers' adaptation behaviour to climate change: The case of central Colombia
- 532 | NATALIA MATIZ-RUBIO | Assessing the mitigation potential of nutrient blocks made of tropical tree and legumes
- 354 | FLORENCE ACHIENG' OPONDO | Analysis of adaption strategies for minimising the effects of climate change by smallholder farmers in Laikipia county, Kenya
- 720 | ASHLY AREVALO | Wheat rhizosphere bacteriome to heat stress for developing resilient wheat cultivars to sustain food security
- 863 | LUTANGU ANDREW LITIA | Adoption of technologies to increase the resilience of smallholder farmers in Zambia
- 441 | NGONJOCK EBAKO JANE MAUREEN | Adoption of climate-smart agriculture in smallholder agri-food systems transformation in Kara, Togo: Tradeoffs and synergies
- 511 | MIKA ACHE | Promotion of climate risk insurances for smallholder farmers: Insights and learnings from Zambia
-

4b Management and biodiversity in agroforestry and tree systems II

Room: SR 1.406

Chair: MARTIN WIEHLE

- 359 | MIGUEL ANGEL CENTELLAS LEVY | The impact of agroforestry systems on the reduction of forest fires. A case study in the tropical Andes of Cochabamba, Bolivia
- 726 | ALEMAYEHU TERESSA NEGAWO | Assessment of accession integrity over continued re-generation of genebank germplasm
- 302 | RITA ANDINI | Revealing the genetic diversity of *Pinus merkusii* in Aceh via simple sequence repeat (SSR)
- 664 | TERESA ROJAS LARA | Borneo peat swamp forest and orangutan conservation in central Kalimantan, Indonesia
- 638 | THUY DINH | Trade-offs and synergy of the transition in crop-livestock-tree systems in northwest Vietnam
- 553 | EMMANUEL TETTEH JUMPAH | Yield, labour use, and hybrid cocoa adoption in Ahafo Ano south-west district, Ghana
- 428 | IRENE AWINO OJUOK | Farmer managed natural regeneration: Socioeconomic determinants and tree adoption patterns for smallholders in Kenya
-

5b Livestock and income, livelihoods and resilience

Room: SR 1.205

Chair: REGINA RÖBLER

- 597 | STEFAN BURKART | Performance and livestock producers' integration into cattle and pig farmer groups in the northwest highlands of Vietnam
- 828 | NILS TEUFEL | Village livestock promoters: effective, sustainable and scalable supporter for small-scale dairy producers in Nepal?
- 218 | ADRIANO SILVA | Intensive grazing system making possible a profitable and sustainable livestock production in the dry tropic of Mexico
- 301 | THI MINH NGUYEN | Duck-rice-fish system without insecticides: An useful organic agricultural value chain in rural north Vietnam
- 154 | ANJA LIENERT | Information exchange patterns and technology adoption behaviour of cattle farmers in the Colombian Amazon
-

5b Livestock and income, livelihoods and resilience ctd.

- 651 | NUMAN ARSHAD | Impacts of urbanisation and climate change on the livelihood of livestock owners in the Cholistan desert, Pakistan
- 312 | PASCALE WAELTI | Re-stocking vulnerable pastoral households with camels and goats helps increase their resilience
- 619 | JENNIFER GITAU | Impacts of the COVID-19 pandemic on livelihoods of pastoral communities in the Kenyan rangelands
- 941 | GEORGES DJOHY | Navigating uncertainties: In what directions are Fulani pastoralists going nowadays in Benin?
- 988 | MOSTAFA K. NASSAR | Development of novel Egyptian local broiler chicken lines: An Egyptian model for similar initiatives in low- and middle-income African countries under natural biodiversity and climate challenges

6b Knowledge systems and digitalisation II

Room: SR 1.505

Chair: JONATHAN STEINKE

- 485 | EMIEL DE MEYER | Digital ethnobiology: Exploring the digisphere in search of traditional and indigenous knowledge and practices
- 529 | RADIP TANDUKAR | Video tutorials for agricultural practices – effective or useless?
- 823 | MAX HOFMANN | GLEAM-X: An online application to support sustainable transformation of livestock systems towards lower emissions
- 466 | ANTON EITZINGER | GeoTree: A participatory digital tool for forest landscape restoration in the tropics
- 148 | RICO AMOUSSOUHOUI | Technology acceptance model for adopting digital extension service: A comparative study of riceadvice use in Nigeria
- 516 | LINDA ISUYI | Agriculture and social media: A study of whatsapp use by livestock value chain actors in Nigeria
- 548 | KHADIJEH SOLEIMANI | Factors affecting the acceptance of social networks as an educational resource by farmers: A study of farmers in southern Iran
- 803 | MASOUD YAZDANPANAHAH | Digitalisation of agricultural knowledge providers: The case study of Fars agriculture organisation in Iran

7b Food processing, food quality and food safety I

Room: SR 1.501

Chair: JANVIER NTWALI

- 439 | SAMUEL MEZEMIR YIMENU | Postharvest practices and determinants of potato and tomato losses for appropriate interventions design in Ethiopia
- 386 | TAMARA ANNABELLE THEIMEL | Fast and gentle solar-sorptive drying of fruit and spices with energy efficient water recovery
- 195 | ALEXANDER MORGENSTERN | Solar food processing by drying in an off-grid system in Kenya
- 492 | JANVIER NTWALI | Technical evaluation of a solar-biomass flatbed dryer for maize cobs drying in Rwanda
- 830 | TAINA SORAIA MULLER | Evaluation of contact toxicity of essential oils for *Sitophilus zeamais* control
- 903 | YETENAYET BEKELE TOLA | Performance of locally made low-cost evaporative cooling pad alternative to commercial pad

8b Food environment and consumer behaviour for improved nutrition and health II

Room: SR 1.506

Chair: GUDRUN B. KEDING

- 5 | ROBERT AIDOO | Perceptions and consumption of fortified food products in Ghana: The case of mushroom-fortified bread
- 690 | TITILAYO AKINWEHINMI | Consumers' willingness to pay for genetically biofortified foods: Evidence from Nigeria
- 342 | OLUWATOSIN ADERANTI | Physical activity, time use and diet in the nutrition transition of adolescents in rural India and Nepal
- 497 | KIEN DANG | Preserving food environments and livelihoods: Transitions and challenges for the Ca Dong people in Vietnam
- 839 | NGUYEN LAN | Linking seed accessibility to nutrition using structural equation modelling approach: The case of ethnic minority in northern Vietnam
- 855 | MSABILA DAMIAN CHARLES | Beyond diet: Assessing the physical activity dimensions to combat malnutrition in Tanzania

9a Governance and (bio)economic aspects of food systems transformation I

Room: Foyer 6th floor

Chair: HARRY HOFFMANN

- 527 | MANUEL DÍAZ | Unraveling governance challenges in the provision of extension services for smallholder agricultural carbon projects: evidence from western Kenya
- 289 | THERESA HERBOLD | International genebanks at risk: Hazard assessment and consequences for risk management
- 297 | JOHNNY OGUNJI | COVID-19 lockdown in south-east Nigeria: Evidence-based findings to support need for food systems transformation
- 555 | ADITYA KOREKALLU SRINIVASA | Analysing policy attributes for promoting solar powered irrigation systems in Karnataka, India
- 336 | Karin Gaesing | Financial needs of farmers in Benin and how financial institutions try to respond to them
- 94 | STEFAN BURKART | Improved forage seed markets in East Africa: developments, bottlenecks, and future opportunities
- 95 | MANUEL DÍAZ | The processes behind the consolidation of sustainability policies in Colombia: Evidence from the policy for sustainable cattle 2022-2050
- 355 | GIDEON MAWENGE | Policy performance and stakeholders' perspectives on achieving sustainable food production in Namibia
- 868 | PIYANIT CHURAK | How to design sustainable urban food policies for a secure and nutritious future in Chiang Mai, Thailand: A case study of combining approaches

10a Gender and intersectional perspectives in transforming food systems II

Room: SR 1.404 (Elevator pitch)

Chair: CAROLINE HAMBLOCH

- 169 | CHRISTOPH KUBITZA | Nutrition, gender and social cohesion effects of commercialisation of African indigenous vegetables on smallholder farmers
- 888 | DANIELA MOJICA LOPEZ | Understanding territorial bioeconomy systems: The case of a rural women's community-based organisation in Colombia using biodiversity for the production of plant-based natural products
- 150 | NANDAR AYE CHAN | Gender gap in rice productivity: Micro-evidence from Myanmar

10a Gender and intersectional perspectives in transforming food systems II ctd

- 694 | CLAUDIA STEPHANIE CORAL GUERRA | Women farmers' strategies to enhanced cocoa production: An Ivorian perspective
- 190 | MAHLET DEGEFU AWOKE | Gender roles in agroforestry: Challenges and opportunities in Dodoma region, Tanzania
- 463 | KWABENA BUABENG | Farmers perception of female extension services in Ghana
- 220 | SHIBIRE BEKELE ESHETU | Agroecology as a choice of farming practice for women household members and restoration potentials: A case of Lake Chamo catchment, southern Ethiopia

1b + 1d Biotic and abiotic stress

Online and streaming in

Chair: **BETTINA EICHLER-LÖBERMANN**

Lecture Hall 1.101

- 829 | LAURENCE DOSSOU | Molecular tools to predict resistance-breaking abilities of rice yellow mottle virus isolates
- 65 | ETHELYN ECHEP FORCHIBE | Comparative effects of different cabbage varieties on the bionomics of two aphid species (hemiptera: Aphididae)
- 113 | FAIZA SALAH | Effect of trap colour, cultural and sanitation measures on density of *Bactrocera zonata* in Sudan
- 114 | HAYDER ABDELGADER | The relative abundance and association between fruit flies, *Bactrocera* spp. in Sudan
- 882 | HERMAN EBAIARREY | Assessing the tolerance of cocoa (*Theobroma cacao* L.) progenies to the black pod disease caused by *Phytophthora megakarya* bras. and griff
- 116 | BETH WANGUI WAWERU | Population dynamics and damage threshold of *Pratylenchus* n. sp. and *Meloidogyne javanica* on finger millet
- 129 | RAUL LOPEZ | Phenotypic plasticity and response to saline stress of seven pasture legumes
- 167 | THERESE NGOSONG NKAFU | Integrated pest management is cost-effective and successfully reduced insect pests of eggplant (*Solanum melongena* var. pink ravaya) in two agroecological zones in Ghana
- 460 | GABEYE DJAMILOU | Diagnosis of pesticides use on off-season irrigated crops in Goulbi Maradi valley, Niger
- 364 | AUNG ZAW OO | Could pigmented rice be an alternative variety for increased nutritional security and mitigation of salinity stress?
- 752 | KRISTIAN JOHNSON | The role of ionic and osmotic stress on the response of rice to salinity stress
- 613 | EDEN FASIKA HAILE | Salt tolerance and molecular genetic diversity analysis in chickpea (*Cicer arietinum* L.) from Ethiopia

5a + b Animals and livestock systems

Online and streaming in

Chair: **MARION REICHENBACH**

Lecture Hall 2091/92

- 789 | BOSSIMA IVAN KOURA | Comparing milk production and quality by White Fulani and Gudali cows during the dry season in a semi-arid zone of Benin
- 805 | MARIETTE HOUNGBO | Preference traits of farmers for indigenous local chicken breeds in southern Benin
- 570 | EMAN EL- BASSIOUNY | Farmers' perception of sheep production constraints in rural Egypt

5a + b Animals and livestock systems ctd.

- 478 | MULLAKKALPARAMBIL VELAYUDHAN SILPA | Climatic stressors induced molecular responses of crossbred dairy cows in tropical Savannah region
- 339 | IBIYEMI O. OPOWOYE | Effect of probiotic microbial culture from maize steep in drinking water of broiler chickens
- 343 | PANINE YASSEGOUNGBE | Enteric methane emissions of peri-urban dairy farms during the wet season in southern Benin
- 96 | EYERIN-EBI H. JAPAN | Effect of *Ocimum gratissimum* on carcass quality of broiler chicken
- 630 | WALEED AL-MARZOOQI | Bacterial community succession in the intestinal tract of broiler chicken raised in in open-sided house system
- 896 | GLADYS IBHAZE | Evaluation of alternative feed resource in intake, milk yield and milk quality of lactating West African dwarf goats
- 643 | ELIE SONON | Grazing behaviour of the endemic lagune cattle in sub-humid savannah of Benin
- 654 | EDWIN OYIENG | Production parameters estimates of smallholder pig production systems in Uganda
- 415 | PHILLIPINE SITHOLE | Genomic characterisation of two South African composite breeds in comparison to their base breeds
- 440 | ESTHER TAIWO | Nutrient digestibility and blood profile of broiler chickens fed fermented sweet orange peel-based diets
-

Programme overview– Friday 22.09.2023

All day	Art in Science: Short films, audiovisual exhibitions and walk-in photo gallery 4 th floor seminar building	page
08:30-09:30	Poster sessions P5	72 – 76
09:30-10:00	<i>Coffee and tea break</i>	<i>Foyer</i>
10:00-10:15	Poster awards	77
10:15-10:35	Photocompetition - best photo / best photo series	
10:35-10:45	Conference review by the student reporters	
10:45-11:15	<i>Coffee and tea break</i>	<i>Foyer</i>
11:15-13:00	Keynote speeches and discussion	77 – 78
13:00-13:15	Closing remarks and hand-over to Vienna, Austria	78
13:15-14:00	<i>Lunch break</i>	
14:30-18:00	Post-conference workshops	78
14:00-18:15	Post-conference excursions	79 – 80

Poster sessions P5 – 08:30-09:30

1b Pest, diseases and control options

Room: SR 1.601**Chair: STEPHAN WINTER**

-
- 794 | MARIE KALOUSOVÁ | Uncovering the genetic diversity of *Hemileia vastatrix* in three coffee-producing areas in Guatemala and its implications for resistance of coffee varieties
- 68 | ESMAT HEGAZI | Effect of sowing date of faba bean (*Vicia faba* L) cultivars on Oro-banche crenata seed bank and faba bean production
- 849 | FARIMAH ASADI | Fatty acids as sustainable biorationals for weed control
- 871 | JÖRN GERMER | Effects of microbial inoculants on growth and salinity tolerance of hydroponically-grown tomatoes
- 427 | MEKURIA WOLDE ASSENA | Inhibitory activity of bacterial lipopeptides against *Fusarium oxysporum* f.sp. *strigae*
- 480 | DHARMENDRA PATEL | Protecting organic cotton: Biopesticides tested against the American bollworm
- 484 | ADRIANE WENDLAND | Reaction of common bean genotypes to plant parasitic nematodes
- 991 | MOBOLADE AKINBULUMA | Enhancing management of invasive fall armyworm under different tillage and cropping systems in Nigeria
-

2c Agricultural landscape and land use change II

Room: SR 1.608**Chair: Robert Cárcamo Mallen**

-
- 402 | MAXIMUS ANOCHIRIM | Effect of climate and land-use change on the structure and diversity of woody vegetation – lessons from West Africa’s woodlands
- 668 | NATCHANON SANTASUP | Visible and near-infrared spectroscopy for agricultural soil analysis using alternative data preprocessing and wavelength selection
- 673 | HARISON KIPKULEI | Leveraging earth observation and crop modelling for crop condition monitoring and production assessment in Busia County, Kenya
- 678 | YOUNESS BOUBOU | Rural-urban transformation determines cropping patterns in Morocco’s mountain oases
- 450 | RAQUEL CAPELLA | Land-use change within the western Amazon region: Analysing spatial-temporal variations on forest structure with remote sensing techniques
- 210 | NIPON MAWAN | Converting natural forests to different coffee cropping systems affects soil nitrogen transformation in tropical Thailand
- 212 | SAHER AYYAD | The potential of green water for dry season cultivation of seasonal floodplain wetlands in Africa
- 241 | ANDRÉS CHARRY | Comparative analysis of sustainable productive systems for the Honduran Mosquitia
- 763 | VERENA HUBER GARCIA | Multi-scale time series of biophysical parameters and vegetation structure in heterogeneous landscapes of West Africa
- 778 | ASME LASH TESFAYE | Forest resource base and land use land cover dynamics in the Elgo sub-basin, southern Ethiopia
-

7b Food processing, food quality and food safety II

Room: SR 1.501

Chair: JANVIER NTWALI

- 588 | MD SHAHIN ALAM | Assessing the impact of urbanisation on milk quality and safety: A study in Bengaluru's metropolitan dairy farming systems
- 916 | RACHEL BYARUGABA | The nutrient composition of leaves from multiple defoliated grain amaranth (*Amaranthus cruentus*)
- 333 | FEMKE MAES | Public taps: A drop in the bucket? Experimental evidence from Uganda
- 86 | RHOWELL JR. TIOZON | Germination enhances the multi-nutritional properties of pigmented rice revealed through metabolomic and machine-learning techniques
- 737 | DANSTONE ABOGE | Chemical characteristics and acceptability of cereal-crisper composite porridge
- 621 | GBOLAHAN ALAGBE | Effect of processing methods on the nutritional composition flours and sensory properties of cake from bambara and pigeon pea flour
- 420 | CHIKONKOLO MWEWA MWAPE | Evaluation of temperature and energy requirements for gari processing at standard quality parameters in Togo
- 204 | JAMES SIMON CHACHA | Micronutrients and secondary plant metabolites composition of commonly consumed African indigenous vegetables from Tanzania
-

9a Governance and (bio)economic aspects of food systems transformation II

Room: Foyer 6th floor

Chair: Harry Hoffmann

- 472 | DOMINIC BARON | An analysis of the European regulatory status of selected non-timber forest products from the Brazilian Cerrado
- 361 | HAMY RAHARINAIVO | Assessing the decision-making process to evaluate the institutional governance related to the implementation of forest landscape restoration in Irodo watershed, Madagascar
- 920 | JUSTICE ANKOMAH-BAFFOE | Soil governance a constrain to soil security in Africa: A case study in Ghana
- 457 | THEDY KIMBI | Effect of contract farming on farm productivity among sorghum farmers in Dodoma, Tanzania: Endogenous switching regression
- 969 | HAUKE DAHL | Catalyzing private finance into climate-smart agriculture: The science-driven accelerator program
- 719 | MUSSE TESFAYE GEBRE | A policy mix for achieving ambitious goals on forest landscape restoration: analysing coherence and consistency in Ethiopia forest-related policy
- 474 | EVA SEEWALD | The interdependence of different measurements of natural resources dependence and poverty: Comparative evidence from Vietnam
- 219 | MEHWISH ZUBERI | Is there a future for small farmers in bioeconomy? The case of improved seeds in South Punjab, Pakistan
- 762 | AREZOU BABAJANI | Barriers to the progress of the organic agriculture system in Iran: A thematic hierarchical mapping
- 376 | MIGUEL ANGEL LA ROSA SALAZAR | Institutional development and land-use dynamics at the agricultural frontier in the Peruvian Amazon
-

10b How to foster inclusive food systems? Approaches to assessing social vulnerability and foster social equity

Room: SR 1.404

Chair: CLAUDIA CORAL

- 525 | CARLA CRONAUER | Unpacking farmer diversity to support inclusive climate-resilient agricultural practices
- 807 | ROBERT MBECHÉ | Effect of COVID-19 on forest dependent households in Kenya: Does access to forest resources act as a safety net?
- 71 | GRETCHEN GONZAGA | The impact of weather calamities in (semi)sedentary indigenous communities in the Philippines
- 380 | BRIGITTE RUESINK | Is deforestation hindering refugee integration? The case of the Mantapala settlement in rural Zambia
- 384 | DOROTHEE WEIFFEN | Violent conflict moderates food security impacts of agricultural asset transfers in Syria: A heterogeneity analysis using machine learning
- 403 | ESTELLINA NAMUTEBI | Silent voices in the oil and gas development in Uganda's Albertine Graben
- 696 | ANDREW ADAM-BRADFORD | Shifting the paradigm on refugee-hosting landscapes: From land degradation to land restoration and resilience
- 209 | ANNELIE GÜTTE | Brewing a more equitable cup – game changers from producers' perspectives: Examples from Costa Rica, Tanzania, and El Salvador
- 479 | EVA-MARIA McCORMACK | Inequity, transformation and talking hope: Towards a new discourse on climate change and sustainability

11b Social dynamics of food systems transformation

Room: SR 1.201

Chair: BETTINA KÖNIG

- 310 | LULSEGED TAMENE DESTA | Local community preferences for ecosystem services: Tradeoff analysis for a biosphere reserve in southwestern Ethiopia
- 586 | ESTHER GLORIA MBABAZI | The road to recovery: Smallholder household resilience to food insecurity amidst climate-change and COVID-19-induced shocks
- 848 | ANYWAY KATANHA | Actor-network theory for eco-resources species *Ziziphus mauritiana* (Masau) management in Zimbabwe
- 716 | HYCENTH TIM NDAH | Farmers' perception of the effects of interactive training and on-farm testing of seedball technology for enhancing adoption: Maradi, Niger
- 337 | ALEXANDER HOLLAU | Material and non-material contributions of rice agroecosystems to indigenous farmers in the Upper Baram, Malaysia
- 861 | RICHARD SAM | Social and environmental impacts of Maryland oil palm plantations on forests biodiversity and community livelihoods in Liberia
- 353 | KOSSI HOUNKPATI | Identifying success factors of forest landscape restoration: A case study of Tchamba prefecture Togo
- 373 | EVELYN ASANTE-YEBOAH | Designing socio-ecological landscapes for sustainable outcome: evaluating land-use options on ecosystem-service provisioning in south-western Ghana
- 392 | YIDNEKACHEW ZEWDE | Drivers, enablers and barriers for wider adoption of agroecological farming practices in Ethiopia: A case of vegetable production
- 426 | ANDREA CECILIA SANCHEZ BOGADO | Factors associated with the adoption of diversified farming systems: A global meta-analysis
- 438 | HAMZA MOLUH NJOYA | A social perspective on on-farm tree functions, drivers of deforestation and land degradation: Togolese farmers perceptions
- 253 | DOMINIC AHRENS | Narratives, interests, and actors in forestry-SDG interactions: A systematic literature-based discourse analysis
-

12a Renewable energy and circular economy in the frame of water-food-energy nexus

Room: SR 1.205

Chair: MICHAEL BRÜNTRUP

- 773 | KARTIKA ANGGRAENI | Value chain development of a clean-burning solid biofuel in southern Africa
- 47 | GEETA BHATRAI BASTAKOTI | Importance and effectiveness of waste decomposer in biodegradable and agro-waste management in context of Nepal
- 334 | OSVALDO ROMERO ROMERO | Innovative integration of renewable energy and agricultural production as contribution on sustainable local development
- 363 | SUBHA NIRANJAN | Effectiveness of improved cookstoves in promoting sustainable food consumption: A case study of a rural community in Meghalaya, India
- 432 | LAMECK NKHONJERA | Sustainable energy access: A catalyst to landscape restoration and water management in rural Malawi
- 199 | DIANA CRISTINA MORENO VARGAS | Coproducing the water-energy-food-biodiversity nexus to operationalise agri-food systems sustainability transitions
- 715 | FRIEDERIKE NAEGELI DE TORRES | Technology suitability maps for bioenergy potential in Togo
- 702 | HYCENH TIM NDAH | Adoption potential for sustainable small-scale irrigation with solar pumps in Burkina Faso
-

1a + 1c Crop management and plant nutrition

Online and streaming in

Chair: N.N.

Lecture Hall 1.101

- 483 | MASINIRINA NOMENJANAHARY ANNY RANJAKASON | Synergistic effects of localised application of organic and phosphorus fertiliser on rice growth and yield in P-deficient upland soils of Madagascar
- 806 | GRACE ADUSEI | Model-based climate change adaptational potential and productivity of some cowpea genotypes and its sensitivity to bias adjustment
- 825 | JÉSSICA MARTINS DE LIMA | Organic waste management: The case of açai pits as nutrient substrate to plant production in the Brazilian Amazon
- 907 | AMOS BANINWAIN NAMBIMA DENE | Impact study of biochar and biomass amendment of *Gliricidia sepium* and shading on the productivity of agroforestry systems
- 176 | JANADI C. ILEPERUMA | Root-soil-contact influences on maize root growth, nutrient uptake, and nitrogen-cycling microorganisms in the rhizosphere
- 252 | ISHWAR PATIDAR | Effect of long-term management on yield of dicotyledon plants in cotton systems
- 530 | CHRISTELLE LEDROIT | Functional biodiversity in organic and conventional cotton farming systems
- 700 | BHUPENDRA SINGH SISODIA | Effect of conventional and organic practices on cotton quality parameters compared across 15 years
- 189 | TEDI YUNANTO | Opportunities of mine reclamation areas for food crops plantation: Case study of coffee plants in former limestone mining
- 614 | HABTAMU SEYOUM ARAGAW | Optimisation of micropropagation protocol for mass multiplication of hybrid coffee (*Coffea arabica* L.) cultivars of Ethiopia
-

3a + 3b Climate change**Online and streaming in****Chair: LUC HIPPOLYTE DOSSA****Lecture Hall 2091/92**

- 783 | REINHARD REBERNIG | Differences in livelihood resilience between diversified and intensified smallholder farms in Java, Indonesia
- 227 | TONY CARR | Addressing future food demand in The Gambia: Can increased crop productivity and climate change adaptation close the supply-demand gap?
- 898 | MELISSA MORCOTE MARTINEZ | Water management practices and adaptation to climate change: Cocoa farmers perceptions in Alto Beni, Bolivia
- 229 | NINA GRASSNICK | Greenhouse gas mitigation and soil carbon sequestration practices in the sheep sector
- 412 | BIRGIT HABERMANN | Positive deviance in adaptation to climate change with sheep fattening: New pathways for farmer-led extension in Ethiopia
- 370 | COSSI ULRICHE AFATONDI | Non-local cattle breed farmers' perception of climate variability and adaptation strategies in Benin
- 388 | REGINA KILWENGE | Climate-related risk modelling of banana xanthomonas wilt (BXW) disease incidence within cropland area of Rwanda
- 736 | AMINA ELTIGANI | Screening of sorghum hybrids for carbon sequestration potential under optimum irrigation and drought stress
- 881 | HILDA CHIA ETA | Weather and climate information use and needs for rice production, cross river state, Nigeria
- 164 | ABEEB OMOTOSO | Impact of climate change adaptation strategies on Net farm income of smallholder maize farmers in South Africa

4a, 4b + 4c (Agro)forestry and (agro)biodiversity**Online and streaming in****Chair: N.N.****Lecture Hall 2094**

- 283 | JEAN BOSCO NKURIKIYE | Tree growing on farmlands in Rwanda: Farmers' preferences for adopting agroforestry in the eastern drylands
- 572 | THIERRY DÉHOUEGNON HOUEHANOU | Socio-environmental drivers of local knowledge of climate change risk and woody species as fertilisers in Benin western Atacora (West Africa)
- 325 | PEACE-EFEH OGBATA | Consumers' attitudes, purchasing intentions and preferences related to baobab fruit shell briquettes in Malawi
- 186 | DJIBRIM ABDOULAYE | Socio-economic importance of *Borossus* palm parklands to the household of the Dallol Maouri of Gaya region, Niger
- 550 | CHIGUSA KELLER | Effects of pruning on workload and yields of native cacao under agroforests in Bolivia
- 851 | MEKI SHEHABU MUKTAR | The potential of tropical forage species maintained in the ilri-forage-genebank for sustainable agriculture and food-security
- 960 | JOHANNES RAHER | Satellite remote sensing for above-ground biomass mapping of agroforestry plots: Enhancing income streams through carbon credits
- 620 | SIMON BOCK | Transforming degraded cacao plantations to fruit-rich 'food forests' with agroecology in the Peruvian Amazon
- 911 | YAMILE MARIEL SALAME VILLAFANI | Flood risk reduction nature-based solutions: potential forest restoration and agricultural land use in Búzi, Mozambique
- 942 | TASNEEM OSMAN | Invasive alien species invading our health in Kenya

Plenary session Friday 22.09.2023 | 10:00 – 13:15

Poster award session: the best five Tropentag posters will be granted a prize of 300 € each.



The StudentReporters will show us their perspective of this years' conference.



Photocompetition organised by Let's Plant! e.V.
<https://www.lets-plant.org/>

10:30 – 11:15 Coffee and tea break

11:15 **Keynote speeches** | Chair: DAGMAR MITHÖFER, Humboldt-Universität zu Berlin, Thae Institute & STEFAN SIEBER, Leibniz Centre for Agricultural Landscape Research (ZALF), Heads of organising committee



IAN SCOONES – University of Sussex, Institute of Development Studies (UK) – is Professor at the Institute of Development Studies at the University of Sussex, UK. He is the PI of the ERC Advanced Grant project, PASTRES (Pastoralism, Uncertainty and Resilience: Global Lessons from the Margins, www.pastres.org). He was also co-director of the ESRC STEPS Centre (www.steps-centre.org). Over 35 years, he has worked on agrarian and environmental change, mostly in sub-Saharan Africa, with a particular focus on livestock and pastoral systems.



LENIS SAWEDA LIVERPOOL-TASIE – Michigan State University (USA) – is a MSU Foundation Professor in the Dept. of Agricultural, Food, and Resource Economics at Michigan State University. Currently, she is visiting scientist with the International Institute for Tropical Agriculture (IITA) in Ibadan, Nigeria. Her research focusses on emergent issues related to smallholder productivity and welfare within transforming food markets in sub-Saharan Africa and alongside poorly functioning markets in the region. She is a member of the advisory Board for International Food and Agricultural Development (BIFAD) and the lead principal investigator for two projects related to Africa's food systems transformation (RSM2SNF funded by Bill and Melinda Gates Foundation & Nigeria Agricultural Policy Activity funded by USAID).



BRIDGET MUGAMBE – AFSA - Alliance for Food Sovereignty in Africa - Kampala, Uganda. Bridget is a social scientist with over 15 years work experience with NGOs in management, strategic planning, budgeting, fundraising, and gender mainstreaming. Her competencies are mainly in policy analysis, campaigns and advocacy, capacity building, generation and dissemination of information on food sovereignty. As AFSA's Program Coordinator, Bridget oversees policy advocacy on seed sovereignty, community land rights, climate justice, and consumer action, supporting AFSA working groups to implement agreed strategies and work plans, and spearheading fundraising initiatives within the organization.

13:00 – 13:15 Closing ceremony



Closing by STEFAN SIEBER and DAGMAR MITHÖFER and hand-over to BOKU - University of Natural Resources and Life Sciences, Vienna, Austria

13:30 – 14:30

Lunch break – see page 8 for tips where to purchase your lunch

14:30 – 18:00

Post-conference workshops – see below for details

14:00 – 18:15

Post-conference excursions – see page 80 for details

Thank you very much for your attendance and see you next year at TT24 in Vienna

Post-conference workshops – Friday 22.09.2023 – 14:30-18:00

W23: Challenges to promoting agroforestry | SR 2095A

W24: Decolonising methods in fieldwork-based socio-economic research | Meeting room 2070A

W25: How to empower local initiatives in the 21st century? - Round table discussion and subsequent workshop on Web3/Blockchain Technology | SR 2093

W26: Red Latinoamericana para la Innovación Rural (LatIR)/ Latin America Network for Rural Innovation | online only

W27: Constructing multidimensional food and nutrition security indices | online only

W28: Murder in Mato Grosso do Sul: Method to deal with Questions of global justice (The simulation game) | SR 1.204

W29: Needs and offers for agricultural finance for smallholder farmers | SR 2095A

W30: Making better photos of research in and on landscapes and agriculture | SR 1.402

Post-conference excursions

Friday 22.09.2023 – 14:00 -18:15

There are a few remaining places. If you are interested in these excursions, please go to the conference office in SR 1.201

Guided tour at the project 'Weltacker Berlin'

On the world acre tour you will be guided over the 2000 m² and you will be explained all the crops that you can discover with us. The guide will respond to your needs and guide you through the fields in an age-appropriate way, generally dealing with questions of resources and land as well as the connections between agriculture and climate.



The 'Weltacker' is located in the parc 'Botanischer Volkspark Blankenfelde-Pankow'. On the grounds of what was once Berlin's largest school garden, the Blankenfelde-Pankow Botanical People's Park offers 34 hectares of listed buildings and gardens dating from the beginning of the 20th century, surrounded by valuable natural forests and meadows. In the Botanical People's Park, visitors can expect a diverse plant community with many endangered species. The park gathers thousands of partly rare plants, herbaceous perennials and plants that have been brought together over the years, for example in the Southeast European Forest and the Small Arboretum. In addition to nature, the show greenhouses in the park, the geological wall, the arboretum and the Bauerngarten are particularly worth seeing.

Schedule

- Meeting point: main entrance of the Seminar Building (conference venue), Dorotheenstrasse 24, 10117 Berlin
- Transportation by chartered bus
- Meeting time: 13:45 h
- Departure: 14:00 h
- Guided tour through Weltacker: 15:15 – 17:00 h

Ctd on next page

- Return to the conference venue via chartered bus (departure 17:30 / arrival approx. 18:15 h)
Alternatively, you can stay on site and return by public transportation
- Costs: EUR 5.- (donation for the 'Weltacker' project)
- Address of 'Weltacker': Blankenfelder Chaussee 5, 13159 Berlin (Located in the 'Botanischer Volkspark Blankenfelde-Pankow')
- Language: English

Guided tour 'Colonial Presence' at 'Ethnologische Museum' and the 'Museum of Asiatische Kunst' (Humboldt-Forum)

Since its foundation stone was laid, the Humboldt Forum has accompanied the debate on the topic of colonialism. Using selected objects from the 'Ethnologische Museum' and the 'Museum of Asiatische Kunst', visitors dealt with the issues of provenance, the restitution of cultural assets and the effects of colonialism on our society today.



After the guided tour you can discover the exhibition by yourself until the museum closes at 6 pm.

Schedule

- Meeting point: main entrance of the Seminar Building (conference venue), Dorotheenstrasse 24, 10117 Berlin
- Meeting time: 14:15 h
- Start time: 14:30 h
- Walking distance from the conference venue approx. 11 min. / 1.0 km
- Guided tour: approx. 15:00-16:00 h (duration 60 min)
- Afterwards you have the opportunity to discover the exhibition by yourself.
- Costs: EUR 5.-
- Language: English

Space for your notes:

