

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



Tropentag 2013

Agricultural development
within the rural-urban
continuum

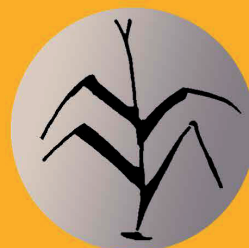
Programme

Tuesday - Thursday, Sept. 17-19, 2013
University of Hohenheim

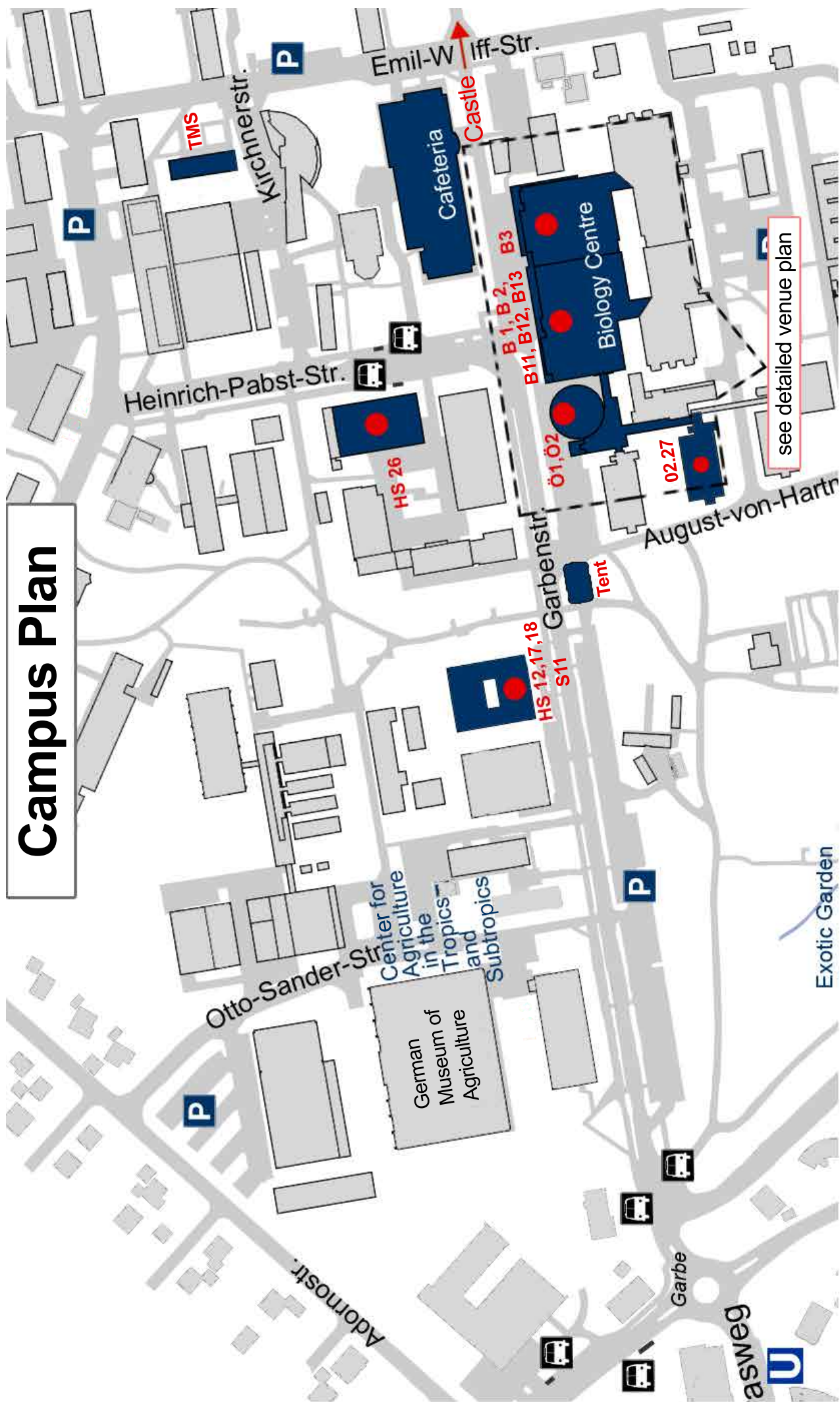
Hohenheim, Germany

www.tropentag.de

Organised by:



Campus Plan



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What you should know:

- All contributions have a unique ID number; on the last pages of the book-of-abstracts you will find these IDs with the indication of the page number to find the related abstract.
- Tickets for the dinner on Wednesday at 19:30 h at the “Cafeteria” can be obtained (10 € for students, 20 € for all others) - while stocks last - at the conference office (room B11) next to the registration desk or at the entrance to the dinner.
- Lunch can be taken at the “Cafeteria”. Menus and costs of the lunch will be posted at the Info Point; students participating in the Tropentag with valid student-ID can get student rates for lunch. Lunch must be paid in cash.
- Wireless internet will be available (ssid Gast-Hohenheim) in the foyers of Bio and Öko. Please note that the guest Wi-Fi data traffic is not encrypted, *i.e.* the users are responsible for using secure protocol (SSL). We recommend to use Eduroam (whoever has access to it), which is available in many locations on the campus.
- Presenters of oral presentations should upload their slide show in the conference office (room B11); latest one hour before their presentation.
- Luggage can be stored during the conference in room B3, however, we do not take any responsibility for your luggage.
- A prayer room can be found in room HS 11, Garbenstraße 17.
- An info board with bus lines and hours and further general information can be found next to the venue entrance; you will find there also a MESSAGE BOARD – if you wish to get in contact with someone, leave a message or arrange a meeting.
- Coffee/tea and sandwiches are available at the “Cafeteria” starting at 07:30 a.m.
- ...for any further information, or in case of a medical or other emergency, please contact the conference office in room B 11.

Enjoy the conference!

Overview of the oral presentations

Oral presentations I

Wednesday, September 18, 2013 11:00 – 12:30	<i>page</i>
Plant production systems within the rural-urban continuum Room B1	5
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Man and efficient water use Room Ö1	6
People within the rural-urban continuum Room Ö2	7
Intensive livestock systems and services Room HS 26	7

Oral presentations II

Wednesday, September 18, 2013 14:00 – 15:30	
Development within the rural-urban continuum Room B1	8
Vegetable production Room B2	9
Extensive livestock systems Room Ö1	9
Farmers' challenges: Adoption and innovation in the context of empowerment Room Ö2	10
Nutrition in monogastric animals Room HS 26	10

Oral presentations III

Wednesday, September 18, 2013 16:00 – 17:30	
Resources within the rural-urban continuum Room B1	11
Institutional arrangements for value chain development and rural change Room B2	11
Tree crops and plantation trees Room Ö1	12
Communities and climate change Room Ö2	12
Animal health and production Room HS 26	13

Oral presentations IV

Thursday, September 19, 2013 10:30 – 12:00	
Value chains and market integration within the rural-urban continuum Room B1	14
Safe and productive urban and peri-urban vegetable farming (AVRDC + IWMI session) Room B2	15
Abiotic stresses in plant production Room Ö1	15
Food consumption, consumer preference and human health Room Ö2	16
Crop biotic stresses (DPG session) Room HS 26	16

Overview of the poster sessions

Session location in brackets - detailed poster information can be found in a separate printout

Guided poster sessions I

Tuesday, September 17, 2013 | 17:00 – 18:00

- Communities and climate change (HS 12)
- Postharvest, technology and product quality (Ö-Foyer)
- Intensive livestock systems and services (Tent)
- Plant production systems within the rural-urban continuum I (HS 17)
- Crop biotic stresses (DPG session) (Tent)
- Tree crops and plantation trees I (HS 12)

Guided poster sessions II

Wednesday, September 18, 2013 | 08:30 – 09:30

- Value chains and market integration within the rural-urban continuum I (Tent)
- Animal health and production (Tent)
- Abiotic stresses in plant production I (HS 18)
- Resources within the rural-urban continuum I (B13)
- Extensive livestock systems I (HS 17)
- Tree crops and plantation trees II (HS 12)

Guided poster sessions III

Wednesday, September 18, 2013 | 09:30 – 10:30

- Value chains and market integration within the rural-urban continuum II (Tent)
- Nutrition in monogastric animals (Tent)
- Abiotic stresses in plant production II (HS 18)
- Resources within the rural-urban continuum II (B 13)
- Extensive livestock systems II (HS 17)
- Soils, environment and fertiliser (HS 12)

Guided poster sessions IV

Wednesday, September 18, 2013 | 17:45 – 19:15

- Development within the rural-urban continuum (HS 17)
- Managing and conserving forest resources (Tent)
- Farmers challenges: Adoption and innovation in the process of empowerment (Ö-Foyer)
- Plant production systems within the rural-urban continuum II (HS 17)
- People within the rural-urban continuum (Tent)
- Institutional arrangements for value chain development and rural change (HS 12)

Guided poster sessions V

Thursday, September 19, 2013 | 09:00 – 10:00

- Aquaculture, fisheries and fish (Tent)
- Vegetable production (HS 17)
- Development policy issues (HS 12)
- Man and efficient water use (HS 12)
- Ruminant nutrition (Tent)
- Food consumption, consumer preference and human health (HS 17)

Pre-conference event: 11:00 – 12:45, Film festival, Room Ö1 – see page 17 for more details

Setting the scene and *fiat panis* award ceremony

Tuesday, September 17, 2013 | 13:00 – 19:00 | Lecture Hall B1

13:00 Welcome Address

STEFAN DABBERT, President of the University of Hohenheim

FOLKARD ASCH, for the organising committee

DIRK NIEBEL, Federal Minister for Economic Cooperation and Development (BMZ)

Questions to the Minister

MICHAEL AHLHEIM, FOLKARD ASCH, REGINA BIRNER | Chair: JOHANNA LEMBENS-SCHIEL

Plenary Speeches

14:00 PAY DRECHSEL, International Water Management Institute (IWMI), Sri Lanka
Agriculture under urban stress

14:30 GORDON PRAIN, International Potato Centre (CIP), Peru
Agriculture and agricultural research in the rural-urban continuum

15:00 FELIX EKARDT, Research Unit Sustainability and Climate Policy, Leipzig, Germany
Societal challenges along the rural-urban continuum

15:30 Coffee break

16:00 Hans H. Ruthenberg Award for Graduates

ANDREA FADANI, Stiftung *fiat panis*

17:00 Guided poster session I – see page 3 + separate printout

18:00 Apero / Social gathering |
registration and exhibition area



Sponsored by Goldochsen Brauerei

18:30 Opening of Carrot City exhibition by Joe Nasr, Canada (*Carrot City is a travelling exhibition about the possibilities of urban agriculture that explores how design can enable the production of food in cities*) | Foyer B3, exhibition area

19:00 ATSAF e.V. members assembly | Room B2

Side event: 19:00 - 20:00 **Film festival** Room Ö1 – see page 17 for more details.

***fiat panis* award winners**

The Hans H. Ruthenberg Award for Graduates 2013 goes to:

- CHRISTIAN ANDRES | Fertilization of *Dioscorea rotundata* with Poultry Manure: Effects on Nutrient Dynamics and Nutrient Use Efficiencies (ETH Zurich)
- CHRISTINA KLEINAU | Are Rising Prices in Agricultural Commodity Markets in the Interests of the Bottom of the Pyramid? (University of Mannheim)
- TILL LUDWIG | Impact of Hybrid Rice on Food Security. A Spatial Partial Equilibrium Analysis of Global Adoption and Diffusion of Hybrid Rice Varieties (Humboldt-Universität zu Berlin)

Parallel poster and oral presentations sessions

Wednesday, September 18, 2013 | 08:30 – 14:00

08:30	09:30	Guided poster sessions II	– see page 3 + separate printout
09:30	10:30	Guided poster sessions III	
10:30	11:00	Coffee break	
11:00	12:30	Parallel oral presentations I	
12:30	14:00	Lunch break. Please note: Today, lunch in the “Cafeteria” is only available until 13:30	
12:30	14:00	Side event: Film festival , Room Ö1 – see page 17 for more details	

Oral presentations I

Wednesday, 18 September 2013 | 11:00 – 12:30

Plant production systems within the rural-urban continuum | Room B1

Chair: ANTHONY WHITBREAD, Georg-August-Universität Göttingen, Germany

- 11:00 **Lead paper:** MANUELE TAMO, International Institute of Tropical Agriculture (IITA), Benin | A Biological Control Pipeline for Cowpea in West Africa **(ID 896)**
- 11:30 MARCOS ALBERTO LANA | Different Maize Cultivars Overcome Climate Change Deleterious Effects at Regional Level – Hybrid and Community-Developed Cultivar **(ID 699)**
- 11:45 ULRICH KLEINWECHTER | Virtual Crop Modelling for Technology Impact Assessment - Lessons from a Potato Crop Growth Model **(ID 55)**
- 12:00 MATTHIAS LANGENSIEPEN | Agricultural Use and Vulnerability of Small Wetlands in East-Africa **(ID 676)**
- 12:15 ONAI MTENGWA | Improving Smallholder Groundnut Production Systems through Use of Composted Rock Phosphate – A Case Study at Mutare, Zimbabwe **(ID 811)**
- 12:30 – 14:00 Lunch break (**Please note:** Today, lunch is only available until 13:30),
Side event: **Film festival** 12:30 – 14:00, Room Ö1 – see page 17 for more details

Oral presentations I

Wednesday, 18 September 2013 | 11:00 – 12:30

GIZ experience in the field of agricultural development within the urban-rural continuum (GIZ session) | Room B2

Chair: CHRISTEL WELLER-MOLONGUA, Gesellschaft für Intern. Zusammenarbeit (GIZ), Germany

11:00 Introduction and presentation of the program

11:10 HEIKE OSTERMANN | Urban Agriculture – Promising Option for Sustainable Urban Development **(ID 884)**

11:40 THERESA ENDRES | Linkages in Rural-Urban Continuum, Focused on the Vegetable Value Chain: Mali **(ID 101)**

12:10 ALEXANDRA LINDEN | URBAN NEXUS – An Approach for Sustainable Development and Example for Urban-Rural-Linkages **(ID 885)**

Man and efficient water use | Room Ö1

Chair: JOACHIM MÜLLER, University of Hohenheim, Germany

11:00 TIL FEIKE | Supporting Sustainable Water Resource Management along the Tarim River (China) until 2030 **(ID 657)**

11:15 MICHAEL AHLHEIM | Welfare Economic Valuation of Sustainable Water Management and Land Use Strategies in Water-Scarce Regions: An Exemplary Study in NW-China **(ID 817)**

11:30 MELANIE WILICH | Effects of Goat Manure Enriched with Activated Charcoal on Leaching of Carbon and Nitrogen from a Subtropical Sandy Soil - A Comparison between Suction Plates and Ion Exchange Resins **(ID 624)**

11:45 JÖRGEN FIDJELAND | Ammonia Sanitisation of Faecal Sludge for Use as Fertiliser **(ID 578)**

12:00 FAZLULLAH AKHTAR | Irrigation Application Efficiency in the Lower Reaches of the Amu Darya Basin **(ID 342)**

12:15 ANTENEH GIRMA | Impact of Rainwater Management Strategies on Sustainable Rural Livelihood: Evidence from Azgo Watershed, Northeast Ethiopia **(ID 744)**

12:30 – 14:00 Lunch break (**Please note:** Today, lunch is only available until 13:30)

Side event: **Film festival** 12:30 – 14:00, Room Ö1 – see page 17 for more details.

Oral presentations I

Wednesday, 18 September 2013 | 11:00 – 12:30

People within the rural-urban continuum | Room Ö2

Chair: REGINA BIRNER, University of Hohenheim, Germany

- 11:00 **Lead paper:** FLAVIO LUIZ SCHIECK VALENTE, FIAN International, Germany | People at the Center: Food Sovereignty and Human Rights Compliant Rural-Urban Continuum Development (**ID 900**)
- 11:30 AGNES QUISUMBING | Do Shocks Affect Men's and Women's Assets Differently? Evidence from Bangladesh and Uganda (**ID 65**)
- 11:45 CHIARA KOVARIK | Gendered Differences in Climate Change Adaptation: Implications for Rural Agricultural Systems (**ID 161**)
- 12:00 RANJIT SARKAR | Measurement of Farm and Non-Farm Employment Linkages: Empirical Insights from Three Villages in Bangladesh (**ID 239**)
- 12:15 XI ZHAO | Determinants of Non-Agricultural Activities for Return Migrants in Rural China (**ID 721**)

Intensive livestock systems and services | Room HS 26

Chair: NILS TEUFEL, International Livestock Research Institute (ILRI), Kenya

- 11:00 JOHN ILUKOR | Do Para-Professionals Provide Quality Veterinary Services? Results from a Role Play Experiment in Rural Uganda (**ID 168**)
- 11:15 THEA NIELSEN | Determinants of Referrals by Paraprofessionals to Veterinarians (**ID 335**)
- 11:30 MST. NADIRA SULTANA | Assessing Different Levels of Intensity on Economic and Water Footprint in Dairy Farming Systems in Bangladesh: Implication for Sustainable Milk Supply to the Urban Consumers (**ID 706**)
- 11:45 MOHAMMAD MOHI UDDIN | Modelling Factors Affecting the Decision to Exit Dairy Farming in Bangladesh: A Two-Stage Regression Analysis (**ID 798**)
- 12:00 LUIS JESUS LINARES OTOYA | Situational Analysis of the Creole Pig Farming in Rural Areas of Otuzco District, Peru (**ID 655**)
- 12:15 SINTAYEHU YIGREM MERSHA | Contribution of Dual Purpose Cattle and of Dairy Products to Smallholder Family Nutrition in Crop-Livestock Production Systems of Ethiopia (**ID 74**)
- 12:30 – 14:00 Lunch break (**Please note:** Today, lunch is only available until 13:30)
- Side event: **Film festival** 12:30 – 14:00, Room Ö1 – see page 17 for more details.

Parallel poster and oral presentations sessions

Wednesday, September 18, 2013 | 14:00 – 19:30

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|--------|-------|--|
| 14:00 | 15:30 | Parallel oral sessions II |
| 15:30 | 16:00 | Coffee break |
| 16:00 | 17:30 | Parallel oral sessions III |
| 17:45 | 19:15 | Guided poster sessions IV – see p. 3 + separate printout |
| 18:45- | 19:30 | Side event: Film festival , Room Ö1, see page see page 17 for more details. |
| 19:30 | | Social evening - “Cafeteria” |
| 22:00 | | Party in TMS |

Oral presentations II

Wednesday, 18 September 2013 | 14:00 – 15:30

Development within the rural-urban continuum | Room B1

Chair: SIEGFRIED BAUER, Justus-Liebig University Gießen, Germany

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|-------|---|
| 14:00 | Lead paper: JOE NASR, Ryerson University, Center for Studies in Food Security (CSFS), Canada Does the Development of Urban Agriculture Fit or Disrupt the Rural-Urban Continuum? (ID 893) |
| 14:30 | NGUYEN THI HONG MAI How to Benefit the Upland Poor in Central Vietnam from Forest Devolution (ID 791) |
| 14:45 | TAISSER H. H. DEAFALLA Investigation Study of Demographic Changes Impact on Rural-Urban Continuum in Semi-Arid Region (ID 847) |
| 15:00 | BRAJA SWAIN Urbanisation, Crop-Livestock Intensification and Rural Development: The Case Study of South Asia (ID 720) |

15:30 – 16:00 Coffee break

AGRINATURA poster award

AGRINATURA – The European Alliance on Agricultural Knowledge for Development - will grant the best three Tropentag posters with a prize of 500 €, 300 € and 200 €, respectively.

The poster price ceremony will be during the closing part of the conference – don't miss it.

Oral presentations II

Wednesday, 18 September 2013 | 14:00 – 15:30

Vegetable production | Room B2

Chair: DETLEF VIRCHOW, University of Bonn, Germany

- 14:00 MARK HOSCHEK | VegGIS – A Web-Based Collaborative Research Environment – Pilot Application in Research on Vegetable Production in Greater Bangkok, Thailand **(ID 414)**
- 14:15 SAIFUL MD. ISLAM | Study on Crop Diversification of Joymondop Locality in Bangladesh: A Case of Cauliflower Cultivation **(ID 425)**
- 14:30 LAURA BENDER | Challenges in Local Seed Systems – The Case of Vegetable and Legume Seeds in Western Kenya **(ID 572)**
- 14:45 NIRMALA JOSHI | Developing a Domestication Priority Setting Approach for Wild Vegetable to Improve Food Security in Makawanpur District, Central Nepal **(ID 628)**
- 15:00 EASTONCE GWATA | Preliminary Selection of Early Bambara Groundnut for Urban Markets in Limpopo Province (South Africa) **(ID 477)**
- 15:15 JOHANNES F. J. MAX | Protected Cultivation of Tomato to Enhance Plant Productivity and Reduce Pesticide Use **(ID 580)**

Extensive livestock systems | Room Ö1

Chair: CHRISTIAN HÜLSEBUSCH, German Institute for Tropical and Subtropical Agriculture, Germany

- 14:00 BIRGIT MÜLLER | NomadSed: A Board Game on Sustainable Land Use of Mobile Pastoralists under Global Change **(ID 283)**
- 14:15 TOBIAS FELDT | Escaping Insecurity through Increased Livestock Mobility – A Sustainable Strategy? **(ID 119)**
- 14:30 TIM K. LOOS | Who Benefits Whom? A Gendered, Socio-Economic Comparison of Maasai Men and Women **(ID 664)**
- 14:45 MOHAMMED HASAN YUSUF | Sustainable Rangeland Management: How Grazing Management and Woody Cover can Alter Herbaceous Diversity, Forage Quantity, and Carbon Stocks in Semi-Arid Rangelands of Ethiopia **(ID 238)**
- 15:00 HUSSEIN WARIO | Determinants of Grazing Management in the Borana Pastoral System of Southern Ethiopia **(ID 750)**
- 15:15 CARSTEN HOFFMANN | Resources of the Agro-Pastoral Transition Zone of Inner Mongolia Grasslands: Challenges and Opportunities for 'Marginal Lands' **(ID 440)**

15:30 – 16:00 Coffee break

Oral presentations II

Wednesday, 18 September 2013 | 14:00 – 15:30

Farmers' challenges: Adoption and innovation in the process of empowerment | Room Ö2

Chair: BERNHARD FREYER, University of Natural Resources and Life Sciences (BOKU), Austria

- 14:00 FRED ASEM | Technical Efficiency of Smallholder Horticultural Farmers in Ghana **(ID 20)**
- 14:15 TEMIDAYO APATA | Understanding Local Communication Methods in Traditional Communities of Nigeria: Evidence of "Town Criers" **(ID 535)**
- 14:30 SINDU WORKNEH KEBEDE | Shocks, Coping Strategies and Vulnerability before and after the Economic Crisis: Evidence from Ethiopia **(ID 779)**
- 14:45 KATHARINA SCHILLER | Assessing the Sustainability of Leasehold Riverbed Farming for Landless and Land-Poor Households in the Terai, Nepal **(ID 472)**
- 15:00 RUPSHA BANERJEE | The Role of the Individual Agency in Participatory Irrigation Management: Lessons from India **(ID 384)**
- 15:15 SYABILLA RIVENIA | Engineering Fortification Farms: Empowering Innovation of Local Farmers on Yogyakarta, Indonesia **(ID 639)**

Nutrition in monogastric animals | Room HS 26

Chair: UTA DICKHÖFER, University of Hohenheim, Germany

- 14:00 ABERRA MELESSE | Effect of Feeding Graded Levels of *Moringa stenopetala* Leaf Meal on Carcass Traits and some Serum Biochemical Parameters of Koekoek Chickens **(ID 20)**
- 14:15 ADEKOYA OSOFOWORA | Energy Metabolisability and Ileal Digesta Viscosity of Broilers Fed Diets Containing Fungi Biodegraded and Enzyme Supplemented Malted Sorghum Sprouts **(ID 643)**
- 14:30 EUSTACE AYEMERE IYAYI | Prececal Digestibility of Phosphorus and Crude Protein of Sesame Seed Meal with Phytase Supplementation in Broilers using Regression Method **(ID 683)**
- 14:45 PASCAL OGAR OZUNG | Evaluation of Neem (*Azadirachta indica*) Leaf Meal on Growth Performance, Haematological and Serum Biochemical Characteristics of Broilers **(ID 396)**
- 15:00 ABIMBOLA OLUSEUN LADOKUN | Performance and Egg Quality Characteristics of Egg-Type Chickens as Influenced by Fluted Pumpkin (*Telfaria occidentalis*) Leaf Extract **(ID 387)**
- 15:15 CHRISTIAN LÜCKSTÄDT | Dietary Potassium Diformate in Sows during Pre-Farrowing Till Weaning: Effects on Piglet Performance in Thailand **(ID 295)**

15:30 – 16:00 Coffee break

Oral presentations III

Wednesday, 18 September 2013 | 16:00 – 17:30

Resources within the rural-urban continuum: Communities and ecosystem services | Room B1

Chair: BOHDAN LOJKA, Czech University of Life Sciences Prague, Czech Republic

- 16:00 **Lead paper:** RENÉ VAN VEENHUIZEN, RUAF Foundation, The Netherlands | Including Urban and Peri-Urban Agriculture in Developing Resilient Cities **(ID 895)**
- 16:30 NEEMA MOGHA | Plant Communities of East African Wetlands and their Relationships with Land Uses and Soil Properties **(ID 393)**
- 16:45 NI'MATUL KHASANAH | Trade-Off Analysis and Economic Valuation of Intercropping Teak (*Tectona grandis*) – Maize under Different Silvicultural Management **(ID 552)**
- 17:00 CHO CHO SAN | Resource conservation and Rice Production in Mangrove Forests of Yanbye Township, Rakhine State, Myanmar **(ID 788)**
- 17:15 OLIVER MUNDY | Farmers' Perceptions of Agrobiodiversity in Western Kenya **(ID 510)**

Institutional arrangements for value chain development and rural change | Room B2

Chair: FRANK HARTWICH, United Nations Industrial Development Organisation, Austria

- 16:00 BEATRICE W. MURIITHI | Commercialisation of Smallholder Horticulture: Gender and Intra-Household Dynamics and Poverty Implications in Kenya **(ID 531)**
- 16:15 DUC LE | Transformation of State Forest Enterprises in Vietnam: A Financial Analysis of Different Organisational Scenarios Regarding the Management of Natural Forests **(ID 585)**
- 16:30 PRIYANKA PARVATHI | Welfare Impact of Organic and Fair Trade Pepper in India **(ID 395)**
- 16:45 NEHA KUMAR | Microinsurance Decisions: Evidence from Bangladesh **(ID 66)**
- 17:00 TSEGAYE TAGESSE GATISO | Cooperative Behaviour and Resource Scarcity in Commons Dilemma: Experimental Economics Approach **(ID 281)**
- 17:15 NEDA TRIFKOVIC | Governance Strategies and Welfare Effects: Vertical Integration and Contracts in the Pangasius Sector in Vietnam **(ID 305)**

17:45 – 19:15 Poster sessions IV

18:45 – 19:30 Side event: **Film festival**, Room Ö1, see page 17 for more details.

19:30 Social evening – Conference dinner “Cafeteria”, 22:00 party in TMS

Oral presentations III

Wednesday, 18 September 2013 | 16:00 – 17:30

Tree crops and plantation trees | Room Ö1

Chair: GEORG CADISCH, University of Hohenheim, Germany

- 16:00 KONRAD MARTIN | Rubber Cultivation in Mainland Southeast Asia: Dimension and Potential Consequences for Crop Production **(ID 658)**
- 16:15 GEORG CADISCH | An Integrated Modelling Approach to Determine Environmental Services and Trade-Off Effects under Land Use Change **(ID 760)**
- 16:30 HERMANN WAIBEL | Socio-Economic Aspects of Rubber Cultivation in Southern China **(ID 471)**
- 16:45 JUE WANG | Sustainable Rubber Cultivation in Southwest China: Approach to Stakeholder Involvement and Dialogue **(ID 522)**
- 17:00 JAMES NGULU | Cultivation Potential of Different Mango Varieties in Kenya, Considering Likely Impacts of Climate Change **(ID 360)**
- 17:15 NORA KÄGI | Rehabilitation Approach for Quick and Sustainable Regain in Cocoa Production in Declining Full Sun Plantations **(ID 754)**

Communities and climate change | Room Ö2

Chair: STEFFEN ABELE, University of Applied Forest Sciences, Germany

- 16:00 KRISHNA KAKUMANU REDDY | Vulnerability Assessment and Impact of Climate Change on Agricultural Production in Krishna River Basin, India **(ID 542)**
- 16:15 MUHAMMED OYINLOLA | Hot Spots to Potential Impact of Sea Level Rise within Coastal Communities in Lagos State **(ID 768)**
- 16:30 AIVEEN DONNELLY | Potential for Group-Based Approaches to Enhance Security of Assets for Women to Manage Risk under Climate Change: A PRA in Ethiopia **(ID 125)**
- 16:45 UJJAL TIWARI | Importance of Climate Change on Farmers' Production Decisions in Nepal **(ID 140)**
- 17:00 FLORES ADRIÁN | Environmental Governance Analysis for REDD+ Implementation in the Municipality of Cachoeiras de Macacu, Brazil **(ID 416)**
- 17:15 PETER LÄDERACH | Climate Change Adaptation, Mitigation and Livelihood Benefits in Coffee Production: Where are the Synergies? **(ID 360)**

17:45 – 19:15 Poster sessions IV

18:45 – 19:30 Side event: **Film festival**, Room Ö1, see page 17 for more details.

19:30 Social evening – Conference dinner “Cafeteria”, 22:00 party in TMS

Oral presentations III

Wednesday, 18 September 2013 | 16:00 – 17:30

Animal health and production | Room HS 26

Chair: ANDRÉ MARKEMANN, University of Hohenheim, Germany

- 16:00 TALAL AL KHEWANI | Reproductive Performance and Growth Ability of Thamary and Tahami Sheep Breeds and their Crossbreds in Yemen **(ID 304)**
- 16:15 CHRISTIAN HÜLSEBUSCH | Does Organised Boran Cattle Breeding Increase Productivity? A Case Study on Ol Maisor Ranch, Kenya **(ID 466)**
- 16:30 JONATHAN MOCKSHELL | Providing Animal Health Services to the Poor in Northern Ghana: Rethinking the Role of Community Animal Health Workers? **(ID 415)**
- 16:45 SEKOU AMADOU TRAORÉ | Production Objectives, Trait and Breed Preferences of Cattle Keepers in Southern Mali **(ID 162)**
- 17:00 CHARLES MOSES LYIMO | A Global Assessment of Population Structure and Genetic Diversity in Chicken Populations from Africa, Asia, Europe, and Commercial Breeds **(ID 551)**
- 17:15 Olubunmi Ayobami Duduyemi | Factors Influencing the Choice of Genetic Stocks for Commercial Layers' Production in the Humid Tropics (ID 746)

17:45 – 19:15 Poster sessions IV

18:45 – 19:30 Side event: **Film festival**, Room Ö1, see page 17 for more details.

19:30 Social evening – Conference dinner “Cafeteria”, 22:00 party in TMS

Conference evaluation

In your conference bag you will find also an evaluation sheet – please fill this out – your assessment will give us the possibility to make Tropentag every year a bit better. You can deposit the sheet in a box at the Info Point – Thank you!

Travel grants

We would like to thank AGRINATURA and K+S for making the coming of several participants possible through a travel grant

Parallel poster and oral presentations sessions and plenary

Thursday, September 19, 2013 | 09:00 – 13:30

09:00	10:00	Guided poster sessions V – see p. 3 + separate printout
10:00	10:30	Coffee break
10:30	12:00	Parallel oral sessions IV
12:00	12:30	Plenary session Room B1 JEFFERSON FOX, East-West Centre, USA Rural to urban transitions and the peri-urban interface: A synopsis of the Tropentag
12:30	13:00	DAAD summer schools, short presentations
13:00	13:30	AGRINATURA poster award, closing and hand-over to Czech University of Life Sciences Prague, Czech Republic

Oral presentations IV

Thursday, 19 September 2013 | 10:30 – 12:00

Value chains and market integration within the rural-urban continuum | Room B1

Chair: IRIS LEWANDOWSKI, University of Hohenheim, Germany

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|-------|---|
| 10:30 | Lead paper: JILL LENNÉ, Consultant and editor, United Kingdom Crop-Livestock Research and Development - The Potential for Spillovers (ID 886) |
| 11:00 | JOHANNES SCHLESINGER Spatio-Temporal Dynamics along the Urban-Rural Continuum - A GIS-based Analysis of two African Cities (ID 607) |
| 11:15 | PABLO PACHECO Following the Timber from Forests to Cities: Assessing Informal Market Networks in the Ecuadorian Amazon (ID 648) |
| 11:30 | SMITHA K.P. Cow Based Minimum-Budget Rice Farming (Gō-Adharitha Krishi): A Sustainability Model within the Rural-Urban Continuum (ID 606) |
| 11:45 | SIMONE KATHRIN KRIESEMER Technology Options for Agriculture in the Rural-Urban Continuum: The Sustainability of three Good Practices (ID 666) |

12:00 – 13:30 Plenary session | Room B1

Oral presentations IV

Thursday, 19 September 2013 | 10:30 – 12:00

Safe and productive urban and peri-urban vegetable farming (AVRDC + IWMI session) | Room B2

Chair: ROBERT J. HOLMER, AVRDC, Thailand and PAY DRECHSEL, IWMI, Sri Lanka

The international agricultural research centers *The World Vegetable Center (AVRDC)* and the *International Water Management Institute*, both involved in research on urban and peri-urban agriculture, have jointly arranged this session.

- 10:30 ROBERT J. HOLMER | Importance of Vegetables for Food and Nutrition Security in a Rapidly Urbanising World **(ID 882)**
- 10:45 RENÉ VAN VEENHUIZEN | The Socio-Economic Impact of Urban Agriculture **(ID 888)**
- 11:00 ANDREAS WILHELM EBERT | Vegetable Genetic Diversity Maintained by the AVRDC Genebank – A Cornerstone for Sustainable Production of Nutritious Food **(ID 881)**
- 11:15 PAY DRECHSEL | Irrigated Urban Vegetable Farming in Africa: Options for Health Risk Management **(ID 889)**
- 11:30 PHILIPP WECKENBROCK | Wastewater Irrigation in two South Asian Settings – Is the Negative Perception of the Practice Justified? **(ID 887)**
- 11:45 MIRIAM OTOO | Recovering Nutrients from Waste: Moving from Theory to Business **(ID 890)**

Abiotic stresses in plant production | Room Ö1

Chair: MICHAEL FREI, University of Bonn, Germany

- 10:30 DESISLAVA PETKOVA | Effect of Plant Water Stress on CO₂ Concentrations in the Rhizosphere **(ID 589)**
- 10:45 IBRAHIM ABUBAKAR | Recurrence of Drought in Nigeria: Causes, Effects and Mitigation **(ID 290)**
- 11:00 MARCUS GIESE | Whole-Plant Transpiration in Response to Variable Water Pressure Deficit and Nitrogen Supply **(ID 260)**
- 11:15 YINGZHI GAO | Root Spatial Expansion Ability of *Leymus chinensis* in Response to Clipping and Salt Stress **(ID 154)**
- 11:30 JONATHAN C. ONYEKWELU | Domestication of Socio-Economically Important Forest Food Tree Species: Effects of Light Intensities on Germination and Early Growth of *Chrysophyllum albidum* and *Irvingia gabonensis* **(ID 618)**

12:00 – 13:30 Plenary session | Room B1

Oral presentations IV

Thursday, 19 September 2013 | 10:30 – 12:00

Food consumption, consumer preference and human health | Room Ö2

Chair: GUDRUN B. KEDING, Bioversity International, Kenya

- 10:30 HANNAH JAENICKE | Nutrition-Sensitive Agriculture for Rural and Urban Health **(ID 172)**
- 10:45 LYDIAH WASWA | Linking Agriculture and Nutrition: Dietary Diversity of Women and Children in Different Agro-Ecological Zones of Western Kenya **(ID 678)**
- 11:00 HALA YOUSRY | Indigenous Knowledge and Practices Related to Food Preparation and Preservation in a Bedouin Community, Egypt **(ID 341)**
- 11:15 RAVI NANDI | Consumer Preferences and Influencing Factors for Purchase Places of Organic Food Products: An Empirical Evidence from India **(ID 743)**
- 11:30 OLUWAFUNMISO ADEOLA OLAJIDE | Youths Awareness and Consumption of Functional Foods in Nigeria: The Case of Plantain Flour **(ID 336)**
- 11:45 KASSA GETU DEREJE | Evaluation of Linseed (*Linum usitatissimum* L.) Collections from Ethiopia for Oil Quality Parameters **(ID 808)**

Crop biotic stresses (DPG session) | Room HS 26

Chair: FALKO FELDMANN, German Phytomedical Society, Germany

- 10:30 **Award ceremony:** Anton-de-Bary-Medal for PROF. DR. JÜRGEN KRANZ
- 10:45 **Lead paper:** STEPHAN WINTER, Leibniz-Institute, Braunschweig, Germany | Virus Diseases of Major Significance to Tropical Crop Production - From Diagnosis to Disease Management **(ID 898)**
- 11:00 KENNETH ODHIAMBO | Potential of Selected Plants as IPM Components against *Leptocybe invasa* **(ID 418)**
- 11:15 OLAWUYI ODUNAYO JOSEPH | Genotype × Concentration × Mycorrhiza Interactions on Early Maturing Maize under *Striga lutea* in Nigeria **(ID 313)**
- 11:30 ESMAT HEGAZI | Mass-Trapping of the Xylophagous Moth Species, *Zeuzera pyrina* by UV-Light-Pheromone Sticky Trap **(ID 306)**
- 11:45 ZOE HEUSCHKEL | Assessment of Farmers' Plant Disease Knowledge in Organic Cacao Cultivation **(ID 300)**

12:00 – 13:30 Plenary session | Room B1

Introduction

In addition to the paper and poster presentations, lectures and discussions during the Tropentag, we are also using film to convey information about a central aspect of this year's theme: urban and peri-urban agriculture. Films not only document activities in visual form; they also provide an opportunity for the people involved to express their own views about what they are doing, their problems, their feelings, their dreams. Using multiple dimensions of images, language and music, films bring information in a compressed and vivid way – and also engage the multiple senses of the audience. In agricultural research and development (ARD), films are increasingly being used as a learning tool as well as a means to stimulate and strengthen partnerships between scientists, rural advisors and local communities. The role of the filmmaker with her/his technical expertise, creativity and sense of aesthetics can be to make the messages more lively and clearer, but also to support the partners in ARD to express themselves in words and actions. This comes through most strongly in the use of participatory video as a tool for community-led change. This mini-festival tries to give you a taste of how film has been used in documenting, encouraging and supporting urban and peri-urban agriculture in the South (Africa, Asia and Latin America) and the North (Europe).

Tuesday, 17.09. - 11:00 – 12:45 Presentation of series of films**Urban agriculture, Part I: Introduction to urban agriculture; Part II: From awareness to action, ETC–RUAF, 2001, 44:29 min.**

This video was produced to facilitate a greater understanding of urban agriculture among policy-makers, urban planners, non-governmental organisations (NGOs), sectoral organisations and other people who can contribute to the integration of urban agriculture into urban policies, plans and development programmes.

Small urban producers organizations: key partners for sustainable development, FAO / ETC / IPES / IDRC (produced by World Report Foundation), 2006, 13:30 min.

This video advocates and analyses the specific support to be provided to (peri-)urban farmer organisations by governments, civil society organisations and international organisations, respectively. It draws on four case studies from Amsterdam (the Netherlands), Dakar (Senegal), Hyderabad (India) and Rosario (Argentina).

Aquaculture in Action – A hidden harvest growing aquatic plants in 4 Southeast Asian cities (Bangkok, Hanoi, HCMC & Phnom Penh), European Union / RUAF Foundation, 2006, 28:23 min.

This video, produced by the PAPUSSA (Production in Aquatic Peri-urban Systems in Southeast Asia) project, describes the considerable value and impact of growing edible aquatic plants in the four cities. It shows the production cycle from pond/field, through harvesting, processing and marketing to the urban consumers, highlighting the benefits in employment and income generation, particularly for lower-income peri-urban households, while also often using and recycling urban wastewater as a readily available source of nutrients. Future constraints and increasing pressures from urbanisation are also discussed in relation to the many peri-urban dwellers whose livelihoods depend on growing aquatic plants.

Animals in the city, FORWARD Film Production, for ESDU/AUB, 2004, 14:53 min.

This video, produced by the Environment and Sustainable Development Unit (ESDU) of the American University of Beirut (AUB), tackles the very sensitive issue of raising animals in the city. Policymakers often regard livestock as a nuisance rather than an economic opportunity, yet animal husbandry remains important for the livelihoods of many households in urban areas.

This documentary film is a live witness of Arab Khaldeh families raising sheep in the suburbs of Beirut, the capital of Lebanon, showing how rural households have integrated themselves and their livestock into city life.

Gardens in South Africa, filmed by members of three community garden initiatives, facilitated and produced by InsightShare, 2008, 3:51 min.

This participatory video was filmed, planned and edited by people living in Inanda Township, Durban, South Africa. This refreshingly clear and authentic short film introduces some of the people involved and reveals the motivation and passion behind three community garden initiatives in and around the township. It was one of several short films that came out of a 2-week training in participatory video (PV) run by InsightShare and supported by a local NGO partner, The Valley Trust. This eventually led to the establishment of a long-term community PV hub in Durban, run by and for the community, called *Bambumlilo* (Zulu for "Catch the fire").

Tuesday, 19:00 – 20:00 Film presentation and discussion with filmmaker Teresa Beck

Speaking gardens: the Berlin urban gardening movement – Teresa Beck – 2013 – 35 min.

The documentary presents seven urban gardening projects in Berlin (community gardens, intercultural gardens, roof gardens, also "guerrilla gardening"). The film focuses on the personal view of the urban gardeners, their visions as well as their concrete projects experimenting with a new way of "alternative" city planning. The citizens would like to change their cities in order to make them greener, to cultivate their own food and to work in intercultural communities. Besides the social aspect, they are also encouraged by political commitment, which in the long run aims at developing new concepts of urban life. The filmmaker wishes to raise awareness about the gardeners' commitment and the possibility of civic participation in towns.

Wednesday, 18.09. - 12:30 – 14:00 Film presentation and discussion with Klaus Gräff, founder of Transition Town Initiative Tübingen-Rottenburg

Voices of transition – Nils Aguilar – 2006 – 65 min.

By focusing on immediate profit and ignoring millennia of experience in agronomy, agro-industry is responsible for the unprecedented erosion of soils now occurring around the world. Add climate change and dwindling natural resources to the picture, and it appears that even societies in the Global North are no longer safe from famines. *Voices of Transition* is optimistic but clear-sighted. It reveals that these current and impending crises are, in fact, positive challenges! In England, the Transition Towns movement is developing at an astonishing pace. It shows that food production must not be solely in the hands of rural farmers (or faceless corporations), but that we can bring it into the very heart of cities. City-dwellers are no longer mere consumers, but instead play a vital part in the transformation of their communities towards local resilience.

Wednesday, 18:45 – 19:30 Film presentation and discussion with filmmaker Ella von der Haide

Another world is plantable! Part 1: Buenos Aires – Ella von der Haide – 2003 – 25 min.

Military dictatorship, neoliberalism and the economic crisis of 2001 have all left their mark on Argentine society. The garden initiatives in the densely populated heart of Buenos Aires are part of a societal development that has arisen beyond the confines of the state and that seeks grass-roots democratic alternatives. The community gardens respond to human needs not only materially through the production of ecological food, but also help to rebuild the social safety net and actively to bring into being political and economic utopias. In the film, gardeners from two garden projects relate their political aims and ideas as well as their experiences in their daily work with plants. The first project is MTD (Movement of Unemployed Workers) Claypole; the second is the Asamblea (Neighbourhood Initiative) La Bocca.

Thursday, 19 September 2013 | from 14:30 onwards

- Post conference (guided) visit of the castle
- Post conference visit of the Agricultural Museum

For both events please register before Wednesday 18:00 h in B11

List of Exhibitors: you will find these partners in the exhibition area | Foyer B3

AGRINATURA

ATSAF

Bern University of Applied Sciences/ YPARD Europe

Bernt Messtechnik

CeTSAF, University of Göttingen

Deutscher Akademischer Austausch Dienst (DAAD)

Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ)/BEAF

Deutsche Phytomedizinische Gesellschaft (DPG)

DITSL

Foundation Sabab Lou

IFCN Dairy Research Center

K+S

LI-COR Biosciences

NatureLife International

Projektträger Internationales Büro im DLR e.V.

University of Bonn

University of Hohenheim

- Coordination for Organic Farming and Consumer Protection
- FRESH
- FSC
- German-Chinese International Research Training Group
- Ökumenische Hochschulgemeinde
- International PhD Programme
- PROTUS
- Tropenzentrum, Center for Agriculture in the Tropics and Subtropics

University of Kassel/ICCD

Vétérinaires sans Frontières Germany

Wittwer Buchhandlung

Exhibitions | Foyer B3, exhibition area

Carrot City Exhibition (Ryerson University)

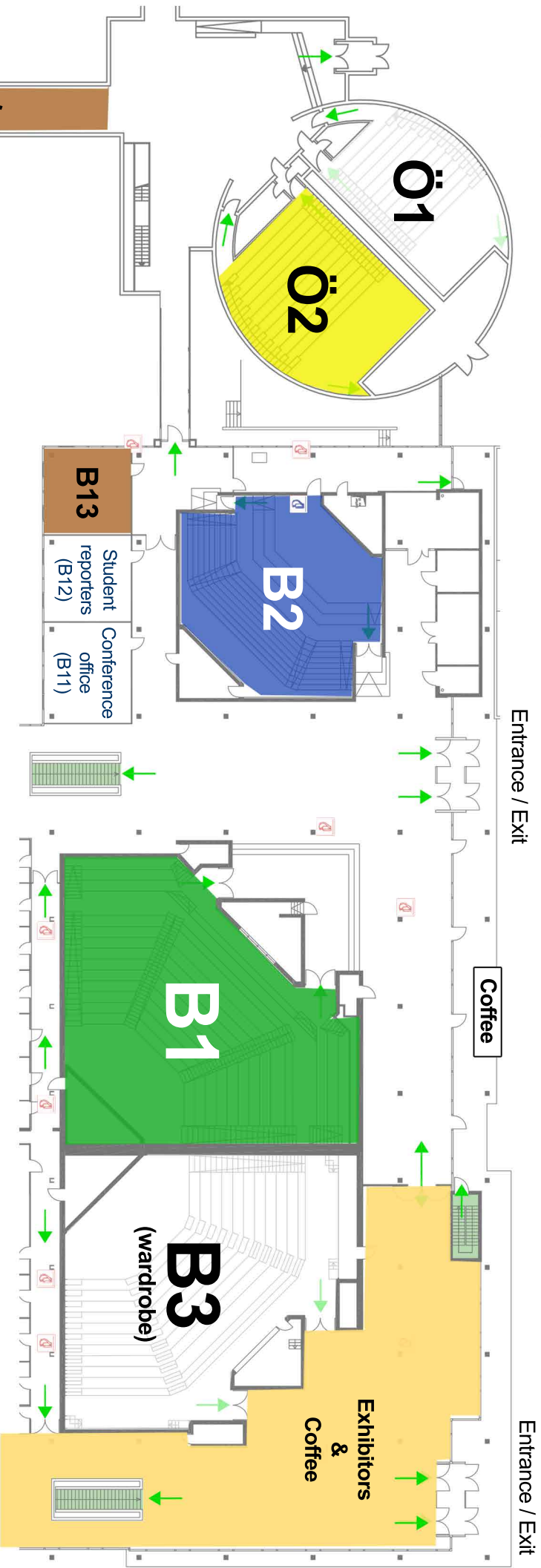
Quinoa Exhibition (GIZ)

Tuesday Sept. 17	09:00	Registration of participants (Foyer B1)			11:00 – 12:45 Film festival Room Ö1		Room B1
	13:00	Welcome address: Stefan Dabbert, President of the University of Hohenheim; Folkard Asch, organisation; BM Dirk Niebel, Federal Minister for Economic Cooperation and Development					
		Questions to the Minister: Michael Ahlheim, Folkard Asch, Regina Birner (Chair: Johanna Lembens-Schiel)					
	14:00	Plenary speeches Pay Drechsel; Gordon Prain; Felix Ekardt					
	15:30	<i>Tea / Coffee break</i>					
	16:00	Hans H. Ruthenberg Award for Graduates awards Andrea Fadani, Foundation <i>fiat panis</i>					
	17:00	Guided poster sessions I					
	18:00	Apero / social gathering		19:00 – 20:00 Film festival Room Ö1			
	18:30	Opening of Carrot City exhibition by J. Nasr, Canada Foyer B3		19:00 ATSAF members’ assembly Room B2			
		Guided poster sessions II and III					
Wednesday Sept. 18	08:30						
	10:30	<i>Tea / Coffee break</i>					
		Parallel oral presentation sessions					
		B1	B2	Ö1	Ö2	HS 26	
	11:00	Plant production and systems within the rural-urban continuum	GIZ session	Man and efficient water use	People within the rural-urban continuum	Intensive livestock systems and services	
	12:30	Lunch break		12:30 – 14:00 Film festival Room Ö1			
	14:00	Development within the rural-urban continuum	Vegetable production within the rural-urban continuum	Extensive livestock systems within the rural urban continuum	Farmers' challenges: Adoption and innovation in the context of empower.	Nutrition in monogastric animals	
	15:30	<i>Tea / Coffee break</i>					
	16:00	Resources within the rural-urban continuum	Institutional arrangements for value chain develop. and rural change	Tree crops and plantation trees	Communities and climate change	Animal health and production	
		Guided poster sessions IV		18:45 – 19:30 Film festival Room Ö1			
Thursday Sept. 19	17:45	Conference dinner (Cafeteria, University of Hohenheim)		22:00 Party / social gathering (TMS)			
	19:00	Guided poster sessions V					
	09:00						
	10:00	<i>Tea / Coffee break</i>					
		Parallel oral presentation sessions					
	10:30	Value chains and market integration within the rural-urban continuum	IWMI + AVRDC session	Abiotic stresses in plant production	Food consumption, consumers preference and human health	Crop biotic stresses (DPG session)	
	12:00	Plenary session: Jefferson Fox: Rural to urban transition and the peri-urban interface: A synopsis of the Tropentag					
	12:30	DAAD summer schools					
	13:00	AGRINATURA Poster award, closing and hand-over to Czech University of Life Sciences Prague, Czech Republic					
from 14:30 onwards: Guided Castle tour and guided tour of Agricultural Museum – registration in B11 until Wednesday, 18:00							

HS 12, 17, 18
S 11, Tent
U

HS 26

Cafeteria, TMS, Castle



Emergency Exit

Organised by:

University of Hohenheim

Center for Agriculture in the Tropics and
Subtropics

Council for Tropical and Subtropical Agricultural
Research, ATSAF e.V.

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Federal Ministry
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