

## Program Overview

### Sunday, 7 October 2018

13:00	Registration
19:00	Welcome reception

### Monday, 8 October 2018

8:15	<p><b>Opening / Welcome address</b></p> <p><i>Stefan Scheu</i> (Speaker of EForTS)  <i>Arif Satria</i> (Rector IPB &amp; Speaker JMB)  <i>Johni Najwan</i> (Rector UNJA)  <i>Laksana Tri Handoko</i> (Chairman LIPI)  <i>Svann Langguth</i> (German Embassy Jakarta)</p>
9:00	<p><b>Opening Keynote</b></p> <p style="text-align: right;">Chair: <i>Stefan Scheu</i></p> <p><i>Voitech Novotny</i>: Conservation of biological and cultural diversity in lowland rainforests of Papua New Guinea by tribal societies</p>

10:00	<p>Session 1:</p> <p><b>INTEGRATIVE EXPERIMENTS</b></p> <p style="text-align: right;">Chairs: <i>Teja Tschardtke &amp; Leti Sundawati</i></p> <p><b>Keynote – David F.R.P. Burslem</b>: Tree species and functional diversity across heterogeneous tropical forest landscapes</p>
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#### 10:30–11:00 Coffee Break

11:00	<i>Sarah H. Luke</i> : Large-scale experiments testing impacts of within-plantation management on oil palm ecosystems: the BEFTA Programme
11:15	<i>Delphine Clara Zemp</i> : Biodiversity enrichment experiment in oil palm plantations: tree growth and structural complexity

11:30	<p>Session 2:</p> <p><b>BIOGEOCHEMISTRY</b></p> <p style="text-align: right;">Chairs: <i>Amanda Matson &amp; Suria D. Tarigan</i></p>
11:30	<b>Keynote – Yit Arn Teh</b> : Synergistic effects of land-use, functional diversity and soil properties on ecosystem processes in lowland tropical forests
12:00	<i>Amanda Matson</i> : Soil and tree-stem N <sub>2</sub> O fluxes of a large-scale oil palm plantation in Sumatra, Indonesia

#### 12:15–13:30 Lunch

13:30	<i>Josephus Koks</i> : Soil and tree-stem nitrous oxide emissions from smallholder oil palm plantations in riparian areas in Sumatra, Indonesia
13:45	<i>Fitri K. Aini</i> : Termites contribution to nitrous oxide and methane emissions along a gradient of forest disturbance in Sumatra



## Tuesday, 9 October 2018

- 14:00 **Greta Formaglio:** Asymbiotic nitrogen fixation in soil and litter in a large-scale oil palm plantation
- 14:15 **Nina Hennings:** Fertilization in oil palm plantations: Microbial biomass activity and soil organic matter (SOM) decomposition under glyphosate stress
- 14:30 **Damris Muhammad:** Effects of soil carbon and metal contents on sorption of dissolved organic carbon on soils of tropical rainforest transformation systems
- 14:45 **Syahrul Kurniawan:** Decomposition and nutrient mineralization from oil palm empty fruit bunch
- 15:00 **Christanti Agustina:** Profile pattern of soil texture and basic cations in different land uses in Jambi, Indonesia
- 15:15 **Joyson Ahongshangbam:** Tree and palm water use assessed by drone based imagery

### 15:30–16:00 Coffee Break

- 16:00 **Tania June:** Aerodynamic characteristics and turbulent transfer of oil palm canopy
- 16:15 **Christian Stiegler:** El Niño–Southern Oscillation and the oil palm: Effects of drought and haze on evapotranspiration, CO<sub>2</sub> exchange and surface energy budget
- 16:30 **Martyna Kotowska:** Comparison of aboveground biomass and carbon sequestration in Indonesian rainforest conversion systems
- 16:45 **Suria D. Tarigan:** Impact of soil degradation and change in plant transpiration on the catchment water balance in tropical rainforest transformation systems
- 17:00 **Dodo Gunawan:** The analysis of vegetation change and rainfall variability in Lore Lindu National Park, Central Sulawesi, Indonesia

17:15 Poster Session

### 8:30 Session 3:

#### BIODIVERSITY

Chairs: **Holger Kreft & Damayanti Buchori**

- 8:30 **Keynote – Holger Kreft:** From bacteria to birds: heterogeneity, vegetation structure and species turnover in tropical smallholder landscapes
- 9:00 **Hermann Behling:** Tropical ecosystem and plant diversity dynamics and the impact of climate, fire and humans during late Quaternary times
- 9:15 **Christina Setyaningsih:** The effect of volcanism on the submontane rainforest vegetation composition: palaeoecological evidence from Danau Njalau, Sumatra (Indonesia)
- 9:30 **Fabian Brambach:** The impact of rainforest transformation in Sumatra on plant taxonomic, phylogenetic, and functional diversity
- 9:45 **Soekisman Tjitrosoedirdjo:** *Asytasia gangetica* ssp. *micranthea* in the coming release of glyphosate resistance corn in Indonesia
- 10:00 **Sri Sudarmiyati Tjitrosoedirdjo:** Status on the studies of invasive alien plant species in Sumatra
- 10:15 **Fifi Gus Dwiyanti:** Population genetics of endangered Dipterocarps in Indonesia: Implication for conservation strategy and sustainable utilization

### 10:30–11:00 Coffee Break

- 11:00 **Pierre-André Waite:** Xylem vulnerability to embolism in natural and intensively used tropical systems
- 11:15 **Andrea Polle:** Tropical land transformation shifts ecological functions of fungal communities
- 11:30 **Johannes Ballauff:** Land-use changes restructure fungal communities and alter their ecosystem functions
- 11:45 **Adisti Permatasari Putri Hartoyo:** Correlation between biodiversity and carbon stock status on agroforestry practices of Berau, East Kalimantan, Indonesia
- 12:00 **Damayanti Buchori:** Indirect effect of land-use change on species richness and abundance of braconid parasitoid wasps

#### 12:15–13:30 Lunch

- 13:30 **Akhmad Rizali:** Different region shapes dissimilar trophic interactions between pest and parasitoid in oil palm plantation
- 13:45 **Purnama Hidayat:** Diversity of butterflies across rainforest transformation systems in Bukit Duabelas National Park and Harapan Forest Landscape, Jambi
- 14:00 **Jochen Drescher:** Community phylogenetics and trait dispersion of arboreal ants after rainforest conversion to monocultures in Sumatra
- 14:15 **Anton Potapov:** Distribution of energy between basal and high trophic levels of belowground food webs under tropical land-use change
- 14:30 **Valentyna Krashevskaya:** Composition of protist trophic groups changes with conversion of rainforest into rubber and oil palm plantations in tropical lowlands of Sumatra
- 14:45 **Alena Krause:** Trophic plasticity in Oribatida (Acari) in transformation systems in Sumatra (Indonesia) investigated by stable isotopes ( $^{15}\text{N}$ ,  $^{13}\text{C}$ )

#### 15:00 Session 4: INTERDISCIPLINARY SOCIOECOLOGICAL APPROACHES

Chairs: *Meike Wollni & Rosyani*

- 15:00 **Keynote – Lian Pin Koh:** Promises and pitfalls of conservation drones

#### 15:30–16:00 Coffee Break

- 16:00 **Keynote – Daniel Murdiyarso:** Tropical peatland fires and opportunities for climate change mitigation
- 16:30 **Ingo Grass:** Widespread trade-offs between multifunctionality and profit in smallholder agricultural landscapes
- 16:45 **Jan Salecker:** Land-use change in oil palm dominated tropical landscapes: An agent-based model to explore ecological and socio-economic trade-offs
- 17:00 **Carola Paul:** Which degree of diversification to achieve truly multifunctional landscapes? Using land-use optimization as a basis for participatory research
- 17:15 **Katrin Rudolf:** The effect of information and sapling provision on smallholder tree planting in oil palm plantations
- 17:30 **Jennifer Merten:** Land use transformation and changing flooding regimes
- 17:45 **Poster Session**



## Wednesday, 10 October 2018

### 8:30 Session 5: CONSERVATION

Chairs: *Dirk Hölscher & Bambang Irawan*

- 8:30 **Keynote – Oliver Frör:** Conservation and society - current trends in socio-ecological valuation of ecosystem services
- 9:00 **Keynote – Jane Hill:** Conserving biodiversity in tropical agricultural landscapes
- 9:30 **Kartika Anggi Hapsari:** Improving conservation design using paleo-ecology
- 9:45 **Michael Pashkevich:** Spider community response to oil palm riparian buffers
- 10:00 **Lan Qie:** Integrating carbon and species conservation - making a case for Borneo ironwood as a conservation flagship

### 10:15–11:00 Coffee Break

- 11:00 **Chairil Anwar:** Exploring strategies applied in promoting community agreements on conservation in Lore Lindu National Park, Indonesia
- 11:15 **Sri Rahayu Utami:** Soil macroporosity and its related physical properties after forest conversion to rubber and oil palm plantation in Jambi, Indonesia

### 11:30 Session 6: SOCIOECONOMIC DIMENSIONS

Chairs: *Heiko Faust & Nunung Nuryartono*

- 11:30 **Keynote – Rob Cramb:** Human interaction with the rainforests of Sarawak
- 12:00 **Edwine Setia Purnama:** An analysis of land use transitions in Jambi Province, Sumatra, Indonesia from 1990 to 2013

### 12:15–13:30 Lunch

- 13:30 **Keynote – Alin Halimatussadiyah:** Human pressure on lowland ecosystems: what can be done?
- 14:00 **Matin Qaim:** Socioeconomic effects of oil palm cultivation for rural farm and non-farm households in Indonesia
- 14:15 **Nunung Nuryartono:** The analysis of inequality using carbon footprint approach in Indonesia
- 14:30 **Edison:** Financial feasibility study of smallholder palm oil in Muaro Jambi district, Jambi province
- 14:45 **Arieska Wening Sarwosri:** Risk attitude and time preference: crucial factors for planting oil palm by smallholders?
- 15:00 **Jonas Ibrahim Hein:** Green territorialisation, rural development, peasants, and indigenous groups' rights to land. Insights from Guaviare, Colombia
- 15:15 **Elias Cisneros:** Beyond the sum of its parts: A counterfactual simulation of Brazil's forest conservation recipe

### 15:30–16:00 Coffee Break

- 16:00 **Krisztina Kis-Katos:** Political deforestation cycles in Indonesia
- 16:15 **Soeryo Adiwibowo:** Land control under two different regimes of forest governance
- 16:30 **Sebastian Renner:** Acceptance, implications, and perspectives of palm oil certification in Indonesia
- 16:45 **Angga Eko Emzar:** International rubber price transmission and policy
- 17:00 **Dodik Ridho Nurrochmat:** Economic feasibility of the peat restoration in Sungai Bram Itam forest area, Jambi