

## Preliminary Conference Program

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### Sunday, 10<sup>th</sup> July 2005

17:00 h      **Icebreaker** in the Botanical Garden of Leipzig University,  
Linnéstr. 1, 04103 Leipzig, Germany (next to the conference site)  
(included)

### Monday, 11<sup>th</sup> July 2005

8:00 h      **Opening of Conference Office**

9:00 h      **Welcome**  
Prof. Wilfried Morawetz, Martin Unterseher, University of Leipzig, Germany

### Vascular epiphytes

Chairman: Gerhard Zotz, University of Basel, Institute of Botany, Switzerland

9:45 h      **Keynote Address**  
Gerhard Zotz, University of Basel, Switzerland

10:30 h      ***Biogeography of Vascular Epiphytes in South-East of Brazil***  
Tiago Boeer Breier, University of Estadual de Campinas, São Paulo, Brazil

10:50 h      ***Andes versus Amazon – patterns of vascular epiphyte diversity on different spatial scales***  
Nils Koester, University of Bonn, Germany

11:10 h      **Coffee Break**

11:30 h      ***Long-term changes in epiphyte assemblages – dynamics and underlying mechanisms***  
Stefan Laube, University of Kaiserslautern, Germany

11:50 h      ***Litter decomposition within epiphytic Bird's Nest Ferns (Asplenium spp.) in a range of forest habitats in Sabah, Malaysia***  
Jake L. Snaddon<sup>1</sup>, W.A. Foster<sup>1</sup>, P. Eggleton<sup>2</sup>, <sup>1</sup>University of Cambridge, <sup>2</sup>The Natural History Museum, London, UK

12:10 h      ***Spatiotemporal variation in population dynamics of epiphytic orchids***  
Manuela Winkler, Peter Hietz, University of Natural Resources and Applied Life Sciences (BOKU), Vienna, Austria

12:30 h      ***The ecology of vascular epiphytes on Ficus crassiuscula host trees in a Peruvian cloud forest***  
D.J. Catchpole, J.B. Kirkpatrick, School of Geography & Environmental Studies, University of Tasmania, Tasmania, Australia

12:50 h      ***The response of epiphytes to anthropogenic disturbance of pine-oak forests in the highlands of Chiapas, Mexico***  
Jan H.D. Wolf, University of Amsterdam, The Netherlands

13:10 h Lunch

## Fungi and fungal organisms in the canopy

Chairman: Martin Schnittler, E.M. Arndt University Greifswald, Germany

14:20 h Introduction

14:25 h *Plant parasitic microfungi in Western Panama*

Ralph Mangelndorff, Meike Piepenbring, J.W. Goethe University Frankfurt am Main, Germany

14:45 h *Leaf parasitic fungi in the canopy of the Surumoni Crane Plot (Venezuela)*

Peter Otto, University of Leipzig, Germany

15:05 h *Environmental and host specificity of epifoliar fungal symbionts in two tropical rain forests*

Gregory S. Gilbert<sup>1,2</sup>, Don R. Reynolds<sup>3</sup>, Ariadna Bethancourt<sup>4</sup>, <sup>1</sup>University of California, Santa Cruz, USA, <sup>2</sup>Smithsonian Tropical Research Institute, Balboa, Ancón, Rep. of Panamá, <sup>3</sup>Natural History Museum, Los Angeles, USA, <sup>4</sup>University of Panamá, República de Panamá

15:25 h *Diversity and habitat preferences of lignicolous fungi in the canopy of a temperate, mixed deciduous forest*

Martin Unterseher, University of Leipzig, Germany

15:45 h *Myxomycetes in the LAK Plot*

Martin Schnittler, E.M. Arndt University Greifswald, Germany

## Tuesday, 12<sup>th</sup> July 2005

8:00 h Opening of Conference Office

## Canopy climate I: Canopy / atmosphere interactions

Chairman: Andrew Mitchell, Global Canopy Programme, Oxford, UK

9:00 h Introduction

9:05 h *Forest Canopies and Climate Change: Science, Risk and Law*

Andrew Mitchell, Global Canopy Programme, Oxford, UK

9:30 h *Biodiversity drives CO<sub>2</sub> effects in the canopy of a hundred year old deciduous forest*

Christian Koerner, University of Basel, Switzerland

9:55 h *Biology & Chemistry of Rainforest Canopies in Amazonia might be crucial for Extra-Amazonian Continental Water Cycle*

A.D. Nobre<sup>1</sup>, C.A. Nobre<sup>2</sup>, J. Marengo<sup>2</sup>, J. Tomasella<sup>2</sup>, L.A. Cuartas<sup>2</sup>, <sup>1</sup>Instituto Nacional de Pesquisas da Amazonia INPA, <sup>2</sup>Instituto Nacional de Pesquisas Espaciais INPE, CPTEC

10:20 h *Spatial Patterns and in the Dynamics and Physiology of Amazonian Rainforests*

Yadvinder Malhi<sup>1</sup>, Oliver Phillips<sup>2</sup>, Timothy Baker<sup>2</sup>, Jon Lloyd<sup>2</sup>, Lina Mercado<sup>3</sup>, Sandra Patino<sup>2</sup>, Luiz Aragao<sup>1</sup>, <sup>1</sup>School of Geography and the Environment, University of Oxford, UK, <sup>2</sup>Earth and Biosphere Institute, University of Leeds, UK, <sup>3</sup>Centre for Ecology and Hydrology, Wallingford, UK

10:45 h Coffee break

11:15 h *Climate Change Impacts on the Forest Canopies*

Dieter Anhof, University of Passau, Germany

11:40 h *Arthropods, the canopy and atmospheric dynamics: Vital connections?*  
Roger Kitching<sup>1</sup>, Andrew Mitchell<sup>2</sup>,<sup>1</sup>Griffith University, Brisbane, Australia,<sup>2</sup>Global Canopy Programme, Oxford, UK

12:05 h *Predicted impact of global change on forest arthropods*  
Claire M.P. Ozanne, Imogen P. Palmer, Roehampton University, London, UK

12:30 h **Lunch**

13:40 h *Epiphytes as indicators of climate change*  
S. Robbert Gradstein, Jorge Jacome, Michael Kessler, Albrecht von Haller Institute of Plant Sciences, Goettingen, Germany

14:05 h *Climate change, remote sensing and forest canopies*  
John Grace, University of Edinburgh, UK

## **Canopy climate II, Competition for light in forest canopies**

Chairman: Karl Heinz Haeberle: Technical University of Munich, Germany

14:30 h *Vertical attenuation of Photosynthetically Active Radiation in forest canopies: average patterns, variation, and implications*  
Geoffrey G. Parker, Smithsonian Environmental Research Center, Edgewater, USA

14:55 h *Robust segmentation routines for hemispherical photography under different radiation conditions*  
Manuela Roscher, Sven Wagner, Ellen Schwalbe, Hans-Gerd Maas, Technical University of Dresden, Germany

15:20 h *Competitiveness and fitness of trees in a mixed temperate forest: The case study "Kranzberger Forst"*  
Karl Heinz Haeberle, I.M.Reiter, A.J. Nunn, M. Loew, P. Nikolova, T. Seifert, C. Heerdt, M. Leuchner, H. Werner, R. Matyssek, Ecophysiology of Plants, WZW, Technical University of Munich, Freising, Germany

15:45 h *Beyond the Visible – application of infra-red thermography within micrometeorological and biophysical forest canopy research*  
Joerg Szarzynski<sup>1</sup>, David C. Shaw<sup>2</sup>,<sup>1</sup>Center for Development Research (ZEF), Bonn, Germany,<sup>2</sup>University of Washington, USA

16:15 h *Retention of canopy closure in tropical rainforests: a simple yet effective strategy for mitigating adverse impacts of roads and other linear infrastructure corridors*  
Stephen M. Turton, Miriam W. Goosem, David S. Gillieson, Catherine L. Pohlman, James Cook University, Cairns, Australia

16:40 h **Poster session and Coffee break**

18:00 h Guided city tours

## Wednesday, 13<sup>th</sup> July 2005

8:00 h      Opening of Conference Office

### Physiological, biomechanical and allometric constraint on tree height

Chairmen: Frederick C. Meinzer, U.S. Forest Service, Corvallis, USA, and Guillermo Goldstein, University of Miami, Coarl Gables, USA

9:00 h      Introduction

9:05 h      *Biomechanical and Allometric Changes Along Latitude and Elevation Transects: Are there General Trends?*

Karl J. Niklas, Cornell University, Ithaca, USA

9:30 h      *Limits to Tree Height: the Effect of Leaf Arrangement and Physiology*

Roland Ennos, University of Manchester, UK

9:55 h      *What happens after maximum crown size is reached? Adaptive reiteration as a mechanism for crown maintenance*

Hiroaki Ishii, Kobe University, Japan

10:20 h      Coffee break

10:50 h      *Immediate and Long-Term Effects of Hurricane Winds on Subtropical Dry Forest Structure*

Skip J. Van Bloem<sup>1</sup>, Peter G. Murphy<sup>2</sup>, Ariel E. Lugo<sup>3</sup>, <sup>1</sup>University of Puerto Rico, Mayaguez, USA, <sup>2</sup>Michigan State University, East Lansing, USA, <sup>3</sup>International Institute of Tropical Forestry, Puerto Rico, USA

11:15 h      *Fresh perspectives on hydraulic and hydrostatic limitations to tree height and tree growth*

Barbara J. Bond<sup>1</sup>, Michael G. Ryan<sup>2</sup>, Nathan Phillips<sup>3</sup>, Nate McDowell<sup>4</sup>, Frederick C. Meinzer<sup>5</sup>, <sup>1</sup>Oregon State University, Corvallis, <sup>2</sup>U.S. Forest Service, Ft. Collins, <sup>3</sup>Boston University, <sup>4</sup>Los Alamos National Laboratory, Los Alamos, <sup>5</sup>U.S. Forest Service, Corvallis, USA

11:40 h      *Architectural complexity versus cellular senescence: reconciling two alternative views on tree lifespan*

Maurizio Mencuccini<sup>1</sup>, J. Martinez-Vilalta<sup>1</sup>, H. A. Hamid<sup>1</sup>, E. Korakaki<sup>1</sup>, D. Vanderklein<sup>2</sup>, Steve Lee<sup>3</sup>, B. Michiels<sup>4</sup>, <sup>1</sup>University of Edinburgh, UK, <sup>2</sup>MontClair University, USA, <sup>3</sup>Forest Research, Northern Research Station, Roslin, UK, <sup>4</sup>Institute for Forestry and Game Management, Geraardsbergen, Belgium

12:05 h      *Scaling of Plant Hydraulic Architecture*

Joshua S. Weitz, Kiona Ogle, Henry S. Horn, Princeton University, USA

12:30 h      Lunch

13:30 h      *Size dependency of water- and nitrogen-use in photosynthesis and hydraulic conductance of three Acer species with different maximum sizes*

Eri Nabeshima, Tsutomu Hiura, Hokkaido University, Tomakomai, Japan

13:55 h      *Investigation into ecophysiology and increment of tree crowns*

Stephan Bonn, Andreas Roloff, Institute of Forest Botany and Forest Zoology, Tharandt, Germany

14:20 h      Coffee break

## Floral ecology, reproductive systems, pollination and seed dispersal

Chairman: Gerhard Gottsberger, University of Ulm, Germany

- 15:00 h      **Keynote address**  
*Is stratification of cerrado vegetation related to pollination and seed dispersal systems? Quantitative studies in a cerrado s.s. woodland in Brazil, and a comparison with Neotropical lowland rainforests*  
Gerhard Gottsberger, University of Ulm, Germany
- 15:30 h      *Long term Flowering and Fruiting Patterns of Canopy Trees in the rainforest of Southern Western Ghats, India*  
T. Ganesh<sup>1</sup>, M.S. Devy<sup>1</sup>, P. Davidar, K.S.Bawa<sup>2</sup>, <sup>1</sup>Ashoka Trust for Research in Ecology and the Environment (ATREE), Bangalore, India, <sup>2</sup>Pondicherry University, India
- 15:50 h      *Generative phenology of a complex mesophyll vine forest plant community in Northeast Queensland, Australia*  
Christian Geyer, Daniela Inkrot, Wilfried Morawetz, University of Leipzig, Germany
- 16:10 h      *Flowering biology of four temperate tree species*  
Ophir Tal, Wilfried Morawetz, University of Leipzig, Germany
- 16:30 h      *Reproductive biology in Apeiba - why is it such a sticky subject?*  
Dawn Frame, Institute of Botany, Montpellier, France
- 16:50 h      **Coffee break**
- 17:05 h      *Birds and their flowers in understory and up, UP there in the canopy in a tropical rain forest, Southeastern Brazil*  
M.A. Rocca, M. Sazima, Universidade Estadual de Campina, Brazil
- 17:25 h      *Parkia pendula (Willd.) Benth. ex Walp. (Mimosaceae): Amount of nectar and gum and its importance for the mammal fauna of a Mata Atlântica fragment in Pernambuco, Brazil*  
Daniel Piechowski, Gerhard Gottsberger, University of Ulm, Germany
- 17:40 h      *Herbivory and reproductive success: a case study of the influence of a rutelid scarab beetle on fruit set of Sclerolobium densiflorum Benth. (Caesalpiniaceae) trees in Mata Atlântica rainforest fragments of Pernambuco, Brazil*  
Leonhard Krause, Gerhard Gottsberger<sup>Speaker</sup>, University of Ulm, Germany
- 17:50 h      *Considering directionality in fruit dispersal models*  
Konrad Waelder<sup>1</sup>, Sven Wagner<sup>2</sup>, <sup>1</sup>TU Bergakademie Freiberg, <sup>2</sup>Technical University of Dresden, Germany
- 18:10 h      *Seed Dispersal of Epiphytic Bromeliads (Tillandsioideae) in Costa Rica*  
M.A. de Jong, E.D. Borg, A.M. Cascante-Marin, J.G.B. Oostermeijer, J.H.D. Wolf, Institute for Biodiversity and Ecosystem Dynamics (IBED), Amsterdam, The Netherlands

## Thursday, 14<sup>th</sup> July 2005

8:00 h      Opening of Conference Office

### Arthropods in temperate and tropical forest canopies I

Chairmen: Andreas Floren, University of Wuerzburg, Germany, and Yves Basset, Smithsonian Tropical Research Institute, Panama City, Republic of Panama

9:00 h      **Keynote address**

Andreas Floren, University of Wuerzburg, Germany / Yves Basset, Smithsonian Tropical Research Institute, Panama City, Republic of Panama

9:45 h      *The ants of Central European tree canopies (Hymenoptera: Formicidae) - an underestimated population*

Bernhard Seifert, Staatliches Museum fuer Naturkunde, Goerlitz, Germany

10:05 h      *Single oaks in beech forests - important stepping stones or lost islands?*

Joerg Mueller, Bayerische Landesanstalt fuer Wald und Forstwirtschaft, Freising, Germany

10:25 h      *Canopy and soil arthropod beta diversity in different scales in subtropical evergreen forests of the Azorean islands*

Paulo A.V. Borges<sup>1</sup>, Clara Gaspar<sup>1,3</sup>, Sérgio P. Ribeiro<sup>2, speaker</sup>, Sandra Jarroca<sup>1</sup>, Ana C. Rodrigues<sup>1</sup>, Paula Gonçalves<sup>1</sup>, Catarina Melo<sup>1</sup>, Artur R.M. Serrano<sup>4</sup>, Carlos Aguiar<sup>4</sup>, Genage André<sup>4</sup>, José A. Quartau<sup>4</sup>, <sup>1</sup>Universidade dos Açores, Portugal, <sup>2</sup>Universidade Federal de Ouro Preto, Ouro Preto, Brazil, <sup>3</sup>University of Sheffield, UK, <sup>4</sup>Faculdade de Ciências de Lisboa (DBA), Centro de Biologia Ambiental, Lisboa, Portugal

10:45 h      **Coffee break**

11:15 h      *Diversity and guild structure of different xylobiontic beetle groups in a neotropical rainforest (San Lorenzo, Panama) and a temperate deciduous forest (Germany, Central Europe)*

Juergen Schmidl, Ecology & Nature Conservation group, Institute for Zoology I, Erlangen, Germany

11:35 h      *Comparison of the weevil biodiversity between tropical and temperate primeval forests*

Peter Sprick<sup>1</sup>, Andreas Floren<sup>2</sup>, <sup>1</sup>Hanover, <sup>2</sup>University of Wuerzburg, Germany

11:55 h      *Distribution and biodiversity of Orthoptera in a neotropical rainforest (San Lorenzo, Panama) and a temperate deciduous forest (Germany, Central Europe)*

Johannes Bail, University of Erlangen, Germany

12:15 h      *Ichneumonidae (Hymenoptera) from the canopies of tropical forests in Malaysia and of temperate forests in Poland*

Klaus Horstmann, Andreas Floren, University Wuerzburg, Germany

12:35 h      *What proportion of tropical forest beetles are found in the canopy?*

Nigel Stork, James Cook University, Cairns Old, Australia

12:55 h      **Lunch**

14:00 h      *IBISCA-Panama: a large-scale study of arthropod mega-diversity in a rainforest. General protocol, preliminary results and perspectives*

Bruno Corbara, Canopy Raft Consortium & Université Blaise Pascal, Clermont-Ferrand, France

14:20 h      *Project IBISCA - One example: Stratification and beta-diversity of Auchenorrhyncha in a Panamanian rainforest*

Yves Basset<sup>1</sup>, Maurice Leponce<sup>2</sup>, <sup>1</sup>Smithsonian Tropical Research Institute, Panama City, Republic of Panama, <sup>2</sup>Royal Belgian Institute of Natural Sciences, Brussels, Belgium

- 14:40 h *Distribution of ants in a Panamanian rainforest*  
Maurice Leponce<sup>1</sup>, Jacques H.C. Delabie<sup>2</sup>, Bruno Corbara<sup>3</sup>, Jérôme Orivel<sup>4</sup>, Yves Roisin<sup>5</sup>,  
 Servio Ribeiro<sup>6</sup>, Marcos T. Seniuk<sup>6</sup>, Flávia A. Esteves<sup>6</sup>, Juergen Schmidl<sup>7</sup>, Andreas Floren<sup>8</sup> &  
 Alain Dejean<sup>4</sup>, <sup>1</sup>Royal Belgian Institute of Natural Sciences, Brussels, Belgium, <sup>2</sup>U.P.A.  
 Laboratório de Mirmecologia, Convention CEPLAC-UESC, Itabuna, Brazil, <sup>3</sup>LAPSCO, University  
 of Blaise Pascal, Clermont-Ferrand, France, <sup>4</sup>University of Toulouse III, France, <sup>5</sup>Free University  
 of Brussels, Belgium, <sup>6</sup>Federal University of Ouro Preto, Brazil, <sup>7</sup>Ecology & Nature  
 Conservation, Inst. for Zoology I, Erlangen, Germany, <sup>8</sup>University of Wuerzburg, Germany
- 15:00 h *NN*  
 Didham
- 15:20 h *Coffee break*
- 15:50 h *Termites in the canopy of a Panamanian rainforest*  
Yves Roisin<sup>1</sup>, Alain Dejean<sup>2</sup>, Bruno Corbara<sup>3</sup>, Jérôme Orivel<sup>2</sup>, Maurice Leponce<sup>4</sup>, <sup>1</sup>Free  
 University of Brussels, Belgium, <sup>2</sup>Université Toulouse III, France, <sup>3</sup>University of Blaise Pascal,  
 Clermont-Ferrand, France, <sup>4</sup>Royal Belgian Institute of Natural Sciences, Brussels, Belgium
- 16:10 h *The bees of the canopy and the ground: new insights from wet forest*  
David W. Roubik<sup>1</sup>, Dawn Frame<sup>2</sup>, <sup>1</sup>Smithsonian Tropical Research Institute, Balboa, Republic of  
 Panama, <sup>2</sup>Institute of Botany, Montpellier, France
- 16:30 h *Patterns in Moth Assemblages Along Vertical Forest Transects in The San Lorenzo  
 Forest, Panama: Taxonomic Sufficiency, Larval And Adult Preferences, and/or  
 Seasonality?*  
Roger Kitching<sup>1</sup>, Evandro Gama De Oliveira<sup>2</sup>, Yves Basset<sup>3</sup>, Aydee Cornejo<sup>4</sup>  
<sup>1</sup>Griffith University, Australia, <sup>2</sup>University of Ouro Preto, Brazil, <sup>3</sup>Smithsonian Tropical Research  
 Institute, Panama, <sup>4</sup>University of Panama, Panama
- 16:50 h *Gall-former insect species and density distribution across canopy habitats in a wet  
 tropical forest*  
Sérvio P. Ribeiro, Andiana Vieira, Federal University of Ouro Preto, Brazil
- 17:10 h *Free Discussion*
- 20:00 h Conference Dinner in the Leipzig „Moritzbastei“  
 (EUR 30, incl. buffet, 2 drinks, live music)

## Friday, 15<sup>th</sup> July 2005

8:00 h            Opening of Conference Office

### Forest Canopy Herbivores and Herbivory Across the Globe

Chairman: David C. Shaw, University of Washington, USA

9:00 h            Introduction

9:05 h            *The many ways we measure herbivory*

Kristina Ernest<sup>1</sup>, David Shaw<sup>2</sup>, <sup>1</sup>Central Washington University, <sup>2</sup>University of Washington, USA

9:30 h            *The Dynamics of Insect Defoliators and Canopies in Northern Forests of Canada*

Vince Nealis, Natural Resources Canada, Victoria, Canada

9:55 h            *Forest herbivory in Puerto Rico and North Carolina: Linking the green and brown food webs*

H. Bruce Rinker<sup>1</sup>, Steven J. Fonte<sup>2</sup>, Barbara C. Reynolds<sup>3</sup>, <sup>1</sup>Pinellas County Environmental Lands Division, Tarpon Springs, <sup>2</sup>University of California, Davis, <sup>3</sup>University of North Carolina, Asheville, USA

10:20 h            Coffee break

10:55 h            *Patterns of herbivory in mangrove canopies in relation to nutrient availability*

Ilka C. Feller, Smithsonian Environmental Research Center, Maryland, USA

11:20 h            *Herbivory rates and leaf damage distribution in the canopies of Neotropical ecosystems: from savannas, semi-deciduous forests, to wet rainforests*

Sérvio P. Ribeiro, Federal University of Ouro Preto, Brazil

11:45 h            *High Above the Kangaroos: Herbivory Down Under*

Meg Lowman, Saul Lowitt, New College of Florida, Sarasota

12:10 h            Lunch

13:30 h            *Insect herbivores on a large tropical island: the ordinary and the extraordinary from New Guinea*

Vojtech Novotny, Czech Academy of Sciences & Biological Faculty, University of South Bohemia, Ceske Budejovice, Czech Republic

13:55 h            *Between diversity, resource, and pollution: herbivores in Central European managed forests*

Ulrich Simon, Technical University Munich, Freising, Germany

14:20 h            *Spatial patterns of folivory at *Acer pseudoplatanus* L. in a Central-European mixed deciduous forest*

Jan Mitscherling<sup>1</sup>, Peter J. Horschler<sup>2</sup>, Wilfried Morawetz<sup>1</sup>, <sup>1</sup>University of Leipzig, <sup>2</sup>German Federal Institute of Hydrology (BfG), Koblenz, Germany

14:45 h            *Spatial and seasonal patterns of insect herbivory in southern beech (*Nothofagus*) Patagonian forests, Argentina*

Cristina Noemi Mazía<sup>1</sup>, Enrique J. Chaneton<sup>1</sup>, Thomas Kitzberger<sup>2</sup>, <sup>1</sup>Universidad de Buenos Aires, <sup>2</sup>Universidad del Comahue, Argentina.

15:10 h            Poster session & Coffee break

16:30 h            Guided city tours

## Saturday, 16<sup>th</sup> July 2005

8:00 h Opening of Conference Office

### Evolution, biodiversity and genetics

Chairman: Wilfried Morawetz, University of Leipzig, Germany

9:00 h Introduction

9:05 h *Floristic Background of Yunnan Province - with Perspectives of Forest Canopy Study*  
Min Cao, Chinese Academy of Sciences, P.R. China

9:25 h *Interspatial phenological differences of a mammal pollinated canopy tree species and associated movement patterns of arboreal mammals in south India: consequences to fruit production*  
M.S. Devy, T. Ganesh, Ashoka Trust for Research in Ecology and the Environment (ATREE), Bangalore, India

9:45 h *Species diversity and spatial distribution of epiphytes in a montane moist evergreen broad-leaved forest at Xujiaba region, Ailao Mts., SW China*  
Wenyao Liu<sup>1,2</sup>, Haiqing Xu<sup>1</sup>, <sup>1</sup>Chinese Academy of Science, Kunming, Yunnan P.R. China, <sup>2</sup>Curtin University of Technology, Perth, Australia

10:05 h *National Biogenetic Information System ( Nbgis) For Sustainable Management of Bioresources (Biodiversity)*  
P. Shanmughavel, Bharathiar University, Coimbatore, India

10:25 h Coffee break

10:45 h *Development of Epiphytic Communities and Structural Complexity in Riparian Forests along the Queets River in Olympic National Park, Washington, USA*  
Robert Van Pelt, Robert J. Naiman, University of Washington, Seattle, USA

11:05 h *How Tree Structure Promotes Biodiversity in a Redwood Rain Forest Canopy*  
Stephen C. Sillett<sup>1</sup>, Robert Van Pelt<sup>2</sup>, <sup>1</sup>Humboldt State University, Arcata, <sup>2</sup>University of Washington, Seattle, USA

11:25 h *Construction and Management of a Canopy Walkway in a Tropical Lowland Rainforest Remnant – the Singapore Experience*  
Benjamin Lee, Central Nature Reserve, c/o National Parks Board, Singapore

11:45 h Lunch

### 13:00-17:00 h Informatics Workshop

Anne Fiala, The Evergreen State College, Olympia, USA

We invite participants to a half-day **eco-informatics workshop** organized by The Canopy Database Project (<http://canopy.evergreen.edu>). The Canopy Database Project (CDP) brings together canopy researchers and computer scientists to address issues of data acquisition, management, analysis and exchange relating to canopy studies at all stages of the research process. Our workshop will start by demonstrating the use of databases in research, and their potential advantages over more traditionally-used spreadsheet programs. We will then demonstrate the functionality of our tool for creating an MS Access database package (*DataBank*), which 'automagically' creates a database along with data-entry forms and metadata (ecological metadata language EML). Participants will work on transferring their own datasets into a database using *DataBank*. We will also present the functionality of our visualization tool (*CanopyView*) using a sample dataset that we provide. This workshop will enhance each participant's ability to efficiently carry out their research, including synthetic research, which demands combining of data from multiple sources.

## Arthropods in temperate and tropical forest canopies II

Chairman: K. Eduard Linsenmair, University of Wuerzburg, Germany

- 13:00 h      Introduction
- 13:05 h      *The Distribution and Abundance of Canopy Arthropods and their Relationship to Canopy Structure and Microclimate in a Bornean Rainforest*  
Roman J. Dial<sup>1</sup>, Martin D. F. Ellwood<sup>2</sup>, Edward Turner<sup>2</sup>, William A. Foster<sup>2</sup>, <sup>1</sup>Alaska Pacific University, Anchorage, USA, <sup>2</sup>University of Cambridge, UK
- 13:25 h      *Diversity of Spiders (Arachnida, Araneae) in the Floodplain-Forest Leipzig*  
Kathrin Stenchly<sup>1</sup>, Detlef Bernhard<sup>1</sup>, Oliver D. Finch<sup>2</sup>, <sup>1</sup>University of Leipzig, <sup>2</sup>Carl von Ossietzky University of Oldenburg, Germany
- 13:45 h      *Vertical stratification of the rare beetle, Rhynchaenus testaceus, other leaf miners and their parasitoids on alder*  
Kerry Fieldhouse<sup>1</sup>, Claire McDonald<sup>2</sup>, Steve Compton<sup>3</sup>, Roger Key<sup>4</sup>, <sup>1</sup>Leeds, <sup>2</sup>Glasgow, <sup>3</sup>University of Leeds, <sup>4</sup>English Nature, UK
- 14:05 h      *Disturbance and the fate of a mesocosm fauna*  
Martin D.F. Ellwood, William A. Foster, University of Cambridge, UK
- 14:25 h      *Invertebrate colonisation of artificial canopy habitats in response to disturbance*  
Kathrin Affeld<sup>1</sup>, Susan Woner<sup>1</sup>, Raphael Didham<sup>2</sup>, Jon Sullivan<sup>1</sup>, Richard Sedcole<sup>3</sup>; <sup>1</sup>Bio-Protection and Ecology Division, <sup>3</sup>Lincoln University, Canterbury, <sup>2</sup>University of Canterbury, Christchurch New Zealand
- 14:45 h      *The importance of ecological data on the assessment of canopy-arthropod communities*  
Tapio Linderhaus, Wilfried Morawetz, University of Leipzig, Germany
- 15:05 h      Coffee break
- 15:30 h      *Crowns of white fir as diversity "hot-spot" for true bugs?!*  
Martin Gossner, Loricula - Agentur fuer Kronenforschung, oekologische Studien und Determination, Fronreute, Germany, *lecture given by* Jared David May
- 15:50 h      *How to tap a rich but nasty resource: on the ecology and evolution of leafhoppers in deciduous forests*  
Herbert Nickel, Institute of Zoology, Ecology Group, Goettingen, Germany
- 16:10 h      *Are sawflies adapted to host individuals?*  
Haike Ruhnke<sup>1</sup>, M. Schaedler<sup>2</sup>, S. Klotz<sup>1</sup>, R. Brandl<sup>2</sup>, <sup>1</sup>UFZ Centre for Environmental Research Leipzig-Halle, Halle, <sup>2</sup>University of Marburg, Germany
- 16:30 h      *Arthropod community on 10 canopy tree species in temperate deciduous forest*  
Masashi Murakami<sup>1</sup>, Tomoaki Ichie<sup>2</sup>, <sup>1</sup>Hokkaido University Forests, Tomakomai, Hokkaido, Japan, <sup>2</sup>CTFS-AA, Natural Sciences, Singapore
- 16:50 h      *Estimating faunal diversity: Abundance, species richness and faunal similarity of oribatid mite communities (Acari, Oribatida) in the canopy of a temperate mixed forest*  
Stephanie Sobek<sup>1</sup>, Christian Kampichler<sup>1,2</sup>, Gerd Weigmann<sup>1</sup>  
<sup>1</sup>Free University of Berlin, <sup>2</sup>Universidad Juarez Autónoma de Tabasco, Villahermosa, Tabasco, Mexico
- 17:10 h      Conclusion and Farewell