



# HELSINKI SUMMER SCHOOL

*Designing Sustainable Forest Landscapes: REDD+, Industrial Forestry, and Food Security*

*Course Programme<sup>1</sup>*

*Day 1, Tuesday, August 9<sup>th</sup>, 2011*

<i>Theme</i>	<i>Opening Day</i>
<i>Topic</i>	<i>Course briefing</i>
<i>Premises</i>	<i>Main Building, City Centre. Information on the lecture room is found on the Intranet pages</i>
<b>13:30-15:00</b>	<b>Introductory session: Course outline and field trip arrangements</b>
<b>15:00-17:00</b>	<b>Opening ceremony</b>

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<sup>1</sup> The Organiser reserves the right to change the speakers and/or modify the content of the course programme without prior notice



# HELSINKI SUMMER SCHOOL

*Designing Sustainable Forest Landscapes: REDD+, Industrial Forestry, and Food Security*

*Course Programme*

*Day 2, Wednesday, August 10<sup>th</sup>, 2011*

<i>Theme</i>	<i>Course outline and basic concepts</i>
<i>Topic</i>	<i>Introduction to multidisciplinary approach to forest landscape management</i>
<i>Premises</i>	<i>Viikki campus. Information on the lecture room is found on the Intranet pages</i>
<b>8:15-8:30</b>	<b>Welcome and introduction to course programme and practical issues</b>
<b>8:30-10:00</b>	<b>REDD+ as a Tool for Landscape Management</b> <i>Professor Markku Kanninen, Viikki Tropical Resources Institute Department of Forest Sciences, University of Helsinki</i>
<b>10:00-10:10</b>	<b>Introduction to virtual trees</b> <i>Dr. Eija Juurola, Researcher Department of Forest Sciences, University of Helsinki</i>
<b>10:10-10:30</b>	<b>Coffee break</b>
<b>10:30-12:30</b>	<b>How does technology help foresters to lower impact on forest resources and improve the quality of environmental services?</b> <i>Prof. Ola Sallnäs, Southern Swedish Forest Research Centre, Swedish University of Agricultural Sciences Prof. Bo Dahlin, Department of Forest Sciences, University of Helsinki</i>
<b>12:30-13:30</b>	<b>Lunch break</b>
<b>13:30-15:30</b>	<b>From forest to farm: Managing rural landscapes for better sustainability</b> <i>Dr. Peter Dewees, Manager of Program on Forests, World Bank</i>
<b>15:30-17:30</b>	<b>Ecosystem services: Total economic valuation of forest resources</b> <i>Lecturer Mika Rekola, Forest Economics Department of Forest Sciences, University of Helsinki</i>
<b>17:30-20:30</b>	<b>Departure to Hyytiälä<sup>2</sup> (There will a stop half way to the research station)</b>
<b>20:30-21:00</b>	<b>Arrival to Hyytiälä and check-in</b>
<b>21:00-21:30</b>	<b>Diner</b>

<sup>2</sup> **IMPORTANT:** Everyone must come to class on Wednesday 10.8 with own belongings since the place of departure will be on Viikki campus and the trip to the field station will start immediately after the last lecture.



# HELSINKI SUMMER SCHOOL

*Designing Sustainable Forest Landscapes: REDD+, Industrial Forestry, and Food Security*

*Course Programme*

*Day 3, Thursday, August 11<sup>th</sup>, 2011*

<i>Theme</i>	<i>Field trip</i>
<i>Topic</i>	<i>Forest-Atmosphere Interactions: Biological Production and Carbon Sequestration</i>
<i>Premises</i>	<i>Hyytiälä Field Station</i>
<b>9:00-10:00</b>	<b>Introduction to reflexion exercise and group work</b>
<b>10:00-10:15</b>	<b>Introduction to the Hyytiälä forestry field station</b> <i>Dr. Pekka Kaitaniemi, Administrator, Hyytiälä Forestry Field Station</i>
<b>10:15-11:15</b>	<b>Influence of vegetation on climate and the role of carbon cycle</b> <i>Professor Eero Nikinmaa, Forest-atmosphere interactions</i> <i>Dr. Pasi Kolari, Post-Doc Researcher</i> <i>Department of Forest Sciences, University of Helsinki</i>
<b>11:15-12:15</b>	<b>Lunch break</b>
<b>12:15-13:15</b>	<b>Lecture continues...</b>
<b>13:15-14:15</b>	<b>Introduction to the SMEAR station</b> <i>Professor Eero Nikinmaa</i> <i>Dr. Pasi Kolari, Forest-atmosphere interactions</i> <i>Department of Forest Sciences, University of Helsinki</i>
<b>14:15-16:00</b>	<b>Visit to SMEAR II- station. Carbon and hydrological cycle measurements</b> <i>Dr. Pasi Kolari, Post-Doc Researcher</i> <i>Mr. Janne Levula, Hyytiälä Site Manager</i> <i>Department of Forest Sciences, University of Helsinki</i>
<b>16:00-16:30</b>	<b>Trip to Siikaneva peatland</b>
<b>16:30-18:00</b>	<b>Visit to Siikaneva peatland. Carbon measurements with micrometeorological methods.</b> <i>Dr. Pasi Kolari, Post-Doc Researcher</i> <i>Department of Forest Sciences, University of Helsinki</i>
<b>18:00-18:30</b>	<b>Return to Hyytiälä forestry field station</b>
<b>19:00-22:00</b>	<b>Social programme: Diner, sauna, and barbecue</b>



# HELSINKI SUMMER SCHOOL

*Designing Sustainable Forest Landscapes: REDD+, Industrial Forestry, and Food Security*

*Course Programme*

*Day 4, Friday, August 12<sup>th</sup>, 2011*

<i>Theme</i>	<i>Field trip</i>
<i>Topic</i>	<i>The supply chain cycle: From forests to the production site</i>
<i>Premises</i>	
<b>8:00-9:30</b>	<b>Forests in the history of finnish art</b> <i>Lecturer Hanna-Kaisa Johansson</i> <i>Art History, University of Helsinki</i>
<b>9:30-11:00</b>	<b>Group work</b> <i>Mr. Adrián Monge Monge, PhD Resercher,</i> <i>Department of Forest Sciences, University of Helsinki</i>
<b>11:00-11:30</b>	<b>Lunch</b>
<b>11:30-12:30</b>	<b>Trip to Mänttä</b>
<b>12:30-14:30</b>	<b>Visit to the Serlachius Museum</b> <i>Guided by Lecturer Hanna-Kaisa Johansson</i> <i>Art History, University of Helsinki</i>
<b>14:45-16:15</b>	<b>Visit to the Metsä Tissue converting plant</b> <i>Hosted by Mr. Jori Sahlstén, Mänttä Mill Manager, Metsä Tissue Oy</i>
<b>16:30-20:30</b>	<b>Trip back to Helsinki</b>
	<b>First evaluation</b>



# HELSINKI SUMMER SCHOOL

*Designing Sustainable Forest Landscapes: REDD+, Industrial Forestry, and Food Security*

*Course Programme*

*Day 5, Monday, August 15<sup>th</sup>, 2011*

<i>Theme</i>	<i>Biodiversity and food security</i>
<i>Topic</i>	<i>Forest biodiversity, food security and water management in ecosystem services</i>
<i>Premises</i>	<i>Viikki campus. Information on the lecture room is found on the Intranet pages</i>
<b>8:15-9:00</b>	<b>Reflexion exercise and group work</b>
<b>9:15-10:45</b>	<b>Biodiversity functioning as a foundation for ecosystem services</b> <i>Dr. Irina Herzon, Researcher</i> <i>Department of Agricultural Sciences, University of Helsinki</i>
<b>10:45-11:00</b>	<b>Coffee break</b>
<b>11:00-12:30</b>	<b>Sustainability in food systems and food security</b> <i>Prof. Juha Helenius, Agroecology</i> <i>Department of Agricultural Sciences, University of Helsinki</i>
<b>12:30-13:30</b>	<b>Lunch break</b>
<b>13:30-15:00</b>	<b>Potential effects of climate change on forest biodiversity</b> <i>Dr. Eshetu Yirdaw, Lecturer</i> <i>Viikki Tropical Resources Institute, University of Helsinki</i>
<b>15:00-15:30</b>	<b>Coffee break</b>
<b>15:30-17:00</b>	<b>The Role of water catchments and soil management in forest ecosystems</b> <i>Dr. Mike Starr, Lecturer</i> <i>Department of Forest Sciences, University of Helsinki</i>
<b>17:00-18:00</b>	<b>Delivery of first evaluation and group work</b>



# HELSINKI SUMMER SCHOOL

## *Designing Sustainable Forest Landscapes: REDD+, Industrial Forestry, and Food Security*

### *Course Programme*

*Day 6, Tuesday, August 16<sup>th</sup>, 2011*

<i>Theme</i>	<i>REDD+ Mechanism</i>
<i>Topic</i>	<i>National Policies, Financing Tools and Livelihoods</i>
<i>Premises</i>	<i>Viikki campus. Information on the lecture room is found on the Intranet pages</i>
<b>8:15-9:00</b>	<b>Reflexion exercise and group work</b>
<b>9:00-10:30</b>	<b>Are current national climate change strategies and policy tools enough to comply with the REDD+ mechanism?</b> <i>Mr. Fobissie Kalame, PhD Researcher</i> <i>Viikki Tropical Resources Institute, University of Helsinki</i>
<b>10:30-11:00</b>	<b>Coffee break</b>
<b>11:00-12:30</b>	<b>Methodologies for implementation of REDD+ projects</b> <i>Mr. Adrián Monge Monge, PhD Researcher</i> <i>Viikki Tropical Resources Institute, University of Helsinki</i>
<b>12:30-13:30</b>	<b>Lunch break</b>
<b>13:30-15:00</b>	<b>Financing mechanisms to avoid deforestation and forest degradation</b> <i>Docent Markku Simula, Forest Economics</i> <i>Department of Forest Sciences, University of Helsinki</i>
<b>15:00-15:30</b>	<b>Coffee break</b>
<b>15:30-17:00</b>	<b>PC-Assisted tools for planning for ecosystem services (MIMES Model)</b> <i>Video Demo (jointly with the agriculture students)</i> <i>Dr. Roelof Boumans, University of Vermont</i>
<b>17:00-18:00</b>	<b>Group work</b>



# HELSINKI SUMMER SCHOOL

## *Designing Sustainable Forest Landscapes: REDD+, Industrial Forestry, and Food Security*

### *Course Programme*

*Day 7, Wednesday, August 17<sup>th</sup>, 2011*

<i>Theme</i>	<i>Forest Management and Technology</i>
<i>Topic</i>	<i>Challenges of climate change in planning and management of forest resources</i>
<i>Premises</i>	<i>Viiikki campus. Information on the lecture room is found on the Intranet pages</i>
<b>8:15-9:00</b>	<b>Reflexion exercise</b>
<b>9:00-10:30</b>	<b>Group work</b>
<b>10:30-11:00</b>	<b>Coffee break</b>
<b>11:00-12:30</b>	<b>Group Work</b>
<b>12:30-13:30</b>	<b>Lunch break</b>
<b>13:30-14:15</b>	<b>Carbon stock assessment in REDD+ projects</b> <i>Mr. Jarno Hämäläinen, Head of Unit</i> <i>REDD+ and Sustainable Forestry, Arbonaut Oy</i>
<b>14:15-15:45</b>	<b>LiDAR Data properties, processing and analysis software</b> <i>Ms. Tuija Suihkonen, Remote Sensing Expert, Arbonaut Oy</i>
<b>15:45-16:30</b>	<b>Cloud services for REDD+ monitoring</b> <i>Mr. Jarno Hämäläinen, Remote Sensing Expert</i> <i>REDD+ and Sustainable Forestry, Arbonaut Oy</i>
<b>16:30-18:30</b>	<b>Meeting with the students of agriculture</b> <i>Ms. Kirsi Kettula, PhD Researcher</i> <i>Department of Forest Sciences, University of Helsinki</i>
	<b>Second evaluation</b>



# HELSINKI SUMMER SCHOOL

## *Designing Sustainable Forest Landscapes: REDD+, Industrial Forestry, and Food Security*

### *Course Programme*

*Day 8, Thursday, August 18<sup>th</sup>, 2011*

<i>Theme</i>	<i>Valuation and policy</i>
<i>Topic</i>	<i>Assessment of Economic Impact of Environmental Services</i>
<i>Premises</i>	<i>Viikki campus. Information on the lecture room is found on the Intranet pages</i>
<b>8:15-9:00</b>	<b>Reflexion exercise and group work</b>
<b>9:00-10:30</b>	<b>The life cycle of forest products and the economics of climate change</b> <i>Ms. Henna Lyhykäinen, PhD Researcher</i> <i>Department of Forest Sciences, University of Helsinki</i>
<b>10:30-10:45</b>	<b>Introduction to the excursion to Morby Farm</b> <i>Lecturer Irina Herzon</i> <i>Department of Agricultural Sciences, University of Helsinki</i>
<b>10:45-11:00</b>	<b>Coffee break</b>
<b>11:00-12:00</b>	<b>Group work</b>
<b>12:00-13:00</b>	<b>Lunch break</b>
<b>13:00-20:00</b>	<b>Excursion to Morby Farm, Raserborg, Uusimaa</b> <i>(jointly with the students of agriculture)</i>



# HELSINKI SUMMER SCHOOL

## *Designing Sustainable Forest Landscapes: REDD+, Industrial Forestry, and Food Security*

### *Course Programme*

*Day 9, Friday, August 19<sup>th</sup>, 2011*

<i>Theme</i>	<i>Drama session</i>
<i>Topic</i>	<i>REDD+ Mechanism: Governance of resources and ecosystem services A joint session with the students of the course on Ecosystem services in Tomorrow's Agriculture</i>
<i>Premises</i>	<i>Viikki campus. Information on the lecture room is found on the Intranet pages</i>
<b>8:15-9:00</b>	<b>Reflexion exercise and delivery of second evaluation</b>
<b>9:00-9:30</b>	<b>Session 1: Introduction to the drama exercise</b>  <i>Ms. Kirsi Kettula-Konttas, PhD Researcher Department of Forest Sciences, University of Helsinki Mr. Adrián Monge Monge, PhD Researcher Viikki Tropical Resources Institute, University of Helsinki</i>
<b>9:30-10:30</b>	<b>Session 2: Interview with stakeholder experts</b> <b>Visiting experts:</b> <i>Ms. Salla Rantala, Centre for International Forestry Research (CIFOR)</i>
<b>10:30-11:00</b>	<b>Coffee break</b>
<b>11:00-12:30</b>	<b>Session 3: Preparation of stakeholder negotiation</b>
<b>12:30-13:30</b>	<b>Lunch break</b>
<b>13:30-15:00</b>	<b>Session 4: Stakeholder negotiation</b>
<b>15:00-15:30</b>	<b>Coffee break</b>
<b>15:30-16:00</b>	<b>Session 5: Report of outcomes of stakeholder negotiation</b>
<b>16:00-17:00</b>	<b>Session 6: Discussion on the negotiation outcomes</b>
<b>17:00-18:00</b>	<b>Group work</b>
	<b>IMPORTANT: The deadline for the delivery of poster's electronic files is Sunday, 21<sup>st</sup> August at 13:00.</b>



# HELSINKI SUMMER SCHOOL

## *Designing Sustainable Forest Landscapes: REDD+, Industrial Forestry, and Food Security*

### *Course Programme*

*Day 10, Monday, August 22<sup>nd</sup>, 2011*

<i>Theme</i>	<i>Global Challenges in Forestry</i>
<i>Topic</i>	<i>Environmental services in forest plantations</i>
<i>Premises</i>	<i>Viikki campus. Information on the lecture room is found on the Intranet pages</i>
<b>8:15-9:00</b>	<b>Reflexion exercise</b>
<b>9:00-10:00</b>	<b>Plantation forests: Global perspectives</b> <i>Professor Markku Kanninen, Viikki Tropical Resources Institute Department of Forest Sciences, University of Helsinki</i>
<b>10:00-10:30</b>	<b>Coffee break</b>
<b>10:30-12:30</b>	<b>Ecosystem services in forest plantations</b> <i>Professor Pierre Ackerman, Department of Forest and Wood Science Faculty of AgriSciences, Stellenbosch University</i>
<b>12:30-13:30</b>	<b>Lunch break</b>
<b>13:30-14:30</b>	<b>New initiatives to implement payments for ecosystem services</b> <i>Panel discussion with representatives of the Tropical Agricultural Research and Higher Education Center (CATIE, in Spanish language) Dr. José Joaquín Campos, Director General Dr. John Beer, Director of the Department of Agriculture and Forestry Dr. Brian Friegan, Professor of Forest Management</i>
<b>14:30-15:00</b>	<b>Coffee break</b>
<b>15:00-16:30</b>	<b>Ecosystem services in forest plantations: The Brazilian case</b> <i>Professor Luiz Carlos Estraviz Rodriguez, Forest Economics Department of Forest Sciences, University of São Paulo</i>
<b>16:30-17:30</b>	<b>Group work</b>
	<b>Third evaluation</b>



# HELSINKI SUMMER SCHOOL

## *Designing Sustainable Forest Landscapes: REDD+, Industrial Forestry, and Food Security*

### *Course Programme*

*Day 11, Tuesday, August 23<sup>rd</sup>, 2011*

<i>Theme</i>	<i>Public Seminar</i>
<i>Topic</i>	<i>Agriculture and Forestry in a Changing World: Designing for the Future</i>
<i>Premises</i>	<i>Main Building</i>
<b>8:15-17:00</b>	<b>See separate programme</b>



# HELSINKI SUMMER SCHOOL

## *Designing Sustainable Forest Landscapes: REDD+, Industrial Forestry, and Food Security*

### *Course Programme*

*Day 12, Wednesday, August 24<sup>th</sup>, 2011*

<i>Theme</i>	<i>Group presentations</i>
<i>Topic</i>	<i>Presentation of the results of group reports</i>
<i>Premises</i>	<i>Viikki campus. Information on the lecture room is found on the Intranet pages</i>
<b>8:15-9:00</b>	<b>Reflexion exercise and third evaluation</b>
<b>9:30-10:30</b>	<b>Session 1: Groups 1 and 2</b>
<b>10:30-11:00</b>	<b>Coffee break</b>
<b>11:00-12:30</b>	<b>Session 2: Groups 3 and 4</b>
<b>12:30-13:30</b>	<b>Lunch break</b>
<b>13:30-14:30</b>	<b>Session 3: Group 5</b>
<b>14:30-15:00</b>	<b>Coffee break</b>
<b>15:00-17:00</b>	<b>Summary of group exercise and reports</b>



# HELSINKI SUMMER SCHOOL

## *Designing Sustainable Forest Landscapes: REDD+, Industrial Forestry, and Food Security*

### *Course Programme*

*Day 13, Thursday, August 25<sup>th</sup>, 2011*

<i>Theme</i>	<i>End of the course</i>
<i>Topic</i>	<i>Analysis and evaluation</i>
<i>Premises</i>	<i>Viikki campus. Information on the lecture room is found on the Intranet pages</i>
<b>8:15-10:00</b>	<b>Reflexion exercise, delivery of third evaluation, and SWOT analysis</b>
<b>10:00-10:30</b>	<b>Coffee break</b>
<b>10:30-12:30</b>	<b>Group work, course assignments and evaluations</b>
<b>12:30-13:30</b>	<b>Lunch break</b>
<b>13:30-16:30</b>	<b>Group work, course assignments and evaluations</b>
	<b>End of the course</b>