



MINISTRY FOR FOREIGN
AFFAIRS OF FINLAND

“SOL NASCENTE”
UEM-AALTO SUSTAINABILITY AND CLEAN TECHNOLOGIES NETWORK

STUDENT EXCHANGE REPORT
October 17 – 15 November, 2014

PROGRAM FOR THE UEM WOOD TECHNOLOGY MASTER'S DEGREE STUDENTS
August 17 – 15 December, 2014

UEM students and thesis topics:

Darla da Conceição Arrone / Effect of ecological conditions in the lignin content of *Eucalyptus grandis* and *Eucalyptus camaldulensis*

Tomás Fernando Bastique / The effect of thickness in conventional wood drying of *Brachystegia spiciformis* Benth and the environmental problems caused by emissions of volatile organic compounds

Eunice Catarina Frederico Siteo / Testing hardwood extractives as preservatives for less naturally durable timbers

Devson Abudo Gouvindo / Effect of the geometry of saw teeth on productivity and technological quality of sawn wood of Umbila (*Pterocarpus angolensis*) and Chanfuta (*Azelia quanzensis*)

Zigy Amélia Langa / Effects of rectangular end round mortise and tenon joint in the manufacturing of school chair using local wood *Brachystegia spiciformis* (messassa)

Carvalho Cordeiro José Matsinhe / Technological analysis of bending of three hardwood of high commercial value

Adelino Estevão Bucuane / Evaluation of efficiency for producing articles through wood of native species using the Computer Numerical Control

MASTER´S DEGREE STUDENTS SCHEDULE IN AALTO

THESIS WORK:

- Table of contents
- SWOT analysis
- Literature part (integration of industrial environmental engineering aspects)

COURSES:

- Puu-0.4430, Special Studies in Environmental Engineering, 5 cr
- Puu-127.C, Course with Varying Content International Project in Environmental Engineering, 5 cr
- Puu-28.6020, Project Work in Wood Technology P, 2 cr
- Puu-28.C, Course with Varying Content Partial completion of Puu-28.5000, 1 cr
- Puu-28.C, Course with Varying Content Lectures: Enhancing the Functionality of Wood Products, 1 cr

INDUSTRY VISITS

- Versowood (Vierumäki)
- Metsä Wood, Kertopuu LVL Mill (Lohja)
- Nikari (furniture company)
- Fiskarin LaatuPuu Oy
- UPM kymmene (Kuusankoski)
- Koskisen Oy (Järvelä)

OTHER

- Laboratory work and demonstrations in Otaniemi and Arabia campus
- Sibelius Hall (Lahti) & Pro Wood gallery excursion
- Nuuksio/Haltia excursion
- Social events and sports
- Doctoral dissertation and Master´s theses presentations
- Some lectures in MUO-E8005 Sustainable Product and Service Design (Arabia campus)
- Co-creating the Next Millennium seminar "Addressing Our Global Challenges Through Research and Innovation: Cases Bioeconomy & Sustainable Technologies" (Dipoli, Otaniemi campus)
- Private Forestry Investments and Land Use Change: Impact on the adaptive capacity of local communities in Mozambique (PAIMO), seminar (University of Helsinki)



Main building of Otaniemi campus, Aalto University.



Otaniemi "forest trail".



Versowood Oy visit.



Versowood visit.



Wood construction (Järvelä).



Sibelius Hall (Lahti).



Pro Wood gallery (Lahti)



Metsä Wood (Kertopuu, Lohja).



Haltia – The Finnish Nature Centre (Nuuksio).



Nuuskio National Park.



Social event.



Nikari furniture company.



Fiskarin laatupuu Oy.



Koskisen Oy visit.



Sightseeing (UPM, Kuusankoski).



UPM Kuusankoski visit.



Final seminar, Aalto University.



UEM students with new certificates.



Celebration with new certificates, Aalto University (Otaniemi).