




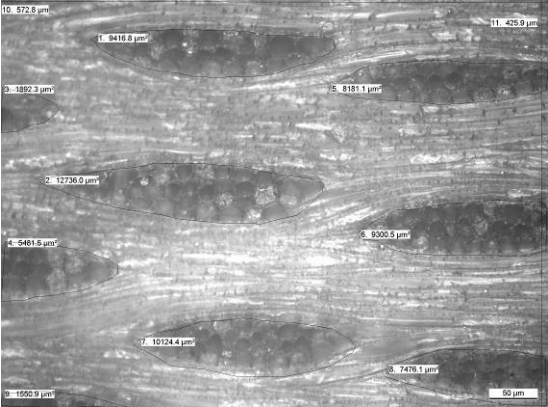

Report on Official visit to RISO
Rakesh Sinha – Jr. Research Officer
KAPEG

Purpose of Visit

- To participate in experiments on fatigue testing of composites
- Techniques to prepare samples for microscopy and their observation in microscope
- Introduction to software Abaqus, which is used for finite element analysis of mechanical behavior and strength of components and materials.

Table 1: Activities at RISO

Pictures	Date/Activities
 <p>Small wind turbines installed at RISO</p>	26/11/07 Arrival to Copenhagen
	27/11/07 <ul style="list-style-type: none"> • Introduction to RISO National laboratory of Denmark, • Visit towards wind turbine site • Introduction to Abacus
	28/11/07 <ul style="list-style-type: none"> • Planning of activities • Discussion on Static test with Jakob regarding extensometer and its reading
 <p>Preparing setup for static test of wood</p>	29/11/07 <ul style="list-style-type: none"> • Discussion on static test with Jakob • Further introduction and tutorial on Abacus by Hai Qeng
	30/11/07 <ul style="list-style-type: none"> • Working on Abacus as per tutorial handouts. • Discussion about the load cell with Jakob
	3/12/07 <ul style="list-style-type: none"> • Discussion with Leon and further planning for workshop, presentation, abacus. <ul style="list-style-type: none"> • Workshop to be conducted from 10 to 12th Dec 2008.

	<ul style="list-style-type: none"> • Discussion on role of KAPEG during Workshop. • KAPEG need to prepare budget for expenses in Nepal for workshop.
 <p>Giving presentation on introduction to KAPEG</p>	<p>4/12/07</p> <ul style="list-style-type: none"> • Presentation on Introduction to KAPEG and its role. • Experiments on Static test of 'Lakure' samples.
 <p>Microscopic view of longitudinal section of wooden sample SL(lakure)</p>	<p>5/12/07</p> <ul style="list-style-type: none"> • Statistical analysis of data for static test of samples at RISO and comparison of data from Nepal. • Discussion on size of test specimen- The size or the thickness of the test specimen should be limited to 10 mm although there was not much variation in the stress strain curve for 10mm and 5mm thickness of sample. • Discussion on test standards and its effect on test results
 <p>Polishing wooden samples for the purpose of microscopic observation</p>	<p>6/12/07</p> <ul style="list-style-type: none"> • Visit to DTU • Preparing samples for microscopy by polishing them and observing with microscope



Discussion with Bo about the microscopic observation of wooden sample

7/12/2007

- Discussion with Bo(RISO technical staff) regarding the use of microscope and microscopic view of wooden samples
- Discussion with Bo regarding the measurement of density of wood, its methodology and importance
- General introduction to hardness tester and its operating procedure

10/12/07

Departure from Copenhagen