



ABOUT SEBASTIAN KAMINSKI

Sebastian is an Associate Structural Engineer working in the Specialist Technology and Research Team in Arup, London. Sebastian is a specialist in the structural use of bamboo, having worked on a number of projects using bamboo and cane around the world. He has presented and run in-country training courses on the structural use of bamboo in the UK, Haiti, Nepal, Bangladesh, Indonesia and Ecuador. He is currently also involved in a number of research projects involving bamboo, and is lead author of a new bamboo-inthe-round design guide to be published in the UK shortly. Sebastian is also one of the key contributors to the latest ISO bamboo structural design code.







COURSE OUTLINE

1.Common myths

2.Introduction to bamboo structure and how it grows

3.Local species

4. Basic properties, strengths, fire

5.Designing for gravity and earthquake loads

6. Forming curves

7.Element design

8.Exercise 1

9.Connections

10.Lunch

11. Durability and Preservatives

12.Exercise 2

13.Other uses

14.Case studies

15.Key considerations

COURSE AIMS

To understand:

The properties, strengths and weaknesses of bamboo.

How bamboo behaves in fire, wind and earthquakes

Bamboo's susceptibility to insects, beetles and rot.

To design bamboo against rot.

The advantages and disadvantages of different treatment chemicals and methods for bamboo.

How bamboo can be best used in a structure.

Where bamboo should not be used. To be able to comfortably critique other people's designs in bamboo.