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Shipbuilding

Wooden Shipbuilding School

Wood

Amsterdam

6700m²
CONTENT

- Craftsmanship -
- Context -
- Concept -
- Architecture -
A craftsman is a skilled manual worker who makes items that may be functional or strictly decorative.
Craft is extremely hits by the efficient and low-cost industrialized production system.
Product oriented craft is facing great crisis

Fact 1

Dinajpur craft export industry in decline

Kongkon Karmaker with Andrew Eagle

Bhikrudnath Sarmanto, 64, of Purbo Basudebpur village in Dinajpur's Phulbari, is proud of his business success. In 1977 after completing training with the Bangladesh Small and Cottage Industries Corporation he established a handicraft centre. By 1982 he had achieved his first export, a bamboo tray to the United States. Subsequently Sarmanto exported traditional craft products to several countries including India, Pakistan, Japan and Germany.

Indeed he was not alone in his endeavors and rural villages in Phulbari became renowned for producing traditional baskets, rice containers, hand fans, teapots, boxes and other items for domestic and decorative use. Exporting traditional crafts became a mainstay of the area.

Craft sector jobs in decline

BY TERRON DEWAR Business reporter dewart@jamaicaobserver.com

Wednesday, August 13, 2014

Robin Wood thinks there is no incentive for sole traders to take on trainees

Robin Wood from Edale in Derbyshire is the last professional pole lathe bowl turner in the UK.
Craftsmanship as the added value of luxury
Film about woodcraft
Interview
Who's the customer?
Why they choose Craft?
Position

Efficiency & low cost

Uniqueness & quality
Shipwright

the top class carpenter
About wooden shipbuilding

Structure - Hulls - Furniture
Amsterdam

the rich and profound history of wooden shipbuilding since Dutch’s Golden Age
Ship as an international icon of the city

Amsterdam
Waterfront environment
Culture background
Urban context
Land price
...

Buiksloterham

Used to be the largest ship industrial area in Amsterdam
Transforming into culture industry area, an gathering space for all kinds of artist, craftsman, designer...
Development strategy
Encourage the development of cultural related industry
Craft school distribution in Amsterdam
Research on the program setting of traditional shipbuilding school
Program setting & Area
Meeting point of culture industry area and ship industry area
NDSM - DSAM
Industrial buildings & Company buildings
Damen ship repairing company
Mixed business area
Amsterdam Central Station - SITE
Transportation: Ferryboat + Walking
Time-consuming: 15min
IJ canal & Amsterdam marina
Challenge Ⅰ

A space that can not only inspire students to pay more attention to quality, but also convey the spirit of craftsmen and cultivate students' pride of shipwright.

Challenge Ⅱ

How can this school become an exhibition window to promote the culture and values of wooden shipbuilding to the public?
School
Example: Hout en Meubilerings College (HMC)
Context: Urban (City center)
Program: Vocational school

Factory
Example: International Boatbuilding College (IBTC)
Context: Urban (Industrial area)
Program: Full-time school

Workshops
Example: Northwest Shipbuilding School
Context: Rural area (Waterfront)
Program: Vocational school
Inspiration

Traditional working manner & working environment
Fascination

Skeleton of ship hull
Fascination

Typical shipbuilding space: ship shelter
Concept
Materiality

Steel & Concrete

Wood
Wood as the original material of shipbuilding space
Wooden shipbuilding

Industrial shipbuilding

Wooden shipbuilding
Shipbuilding space

How to organize the efficient transportation flow based on the existing context of the original site?
Interior working space

How to combine the functional related interior working space with the shipbuilding space?
Student activity space

How to combine the student activity space with the working spaces, in a way that they don’t disturb each other, but still with certain connections?
Semi-public space
Transition strategy

Ship, Material, Student, Visitor...
Shipbuilding square - Canal
Shipbuilding Hall - Canal
Working
Shipbuilding space - Workshop - Studio
Student hall
Shipbuilding hall
Shipbuilding square
Program

- Furniture Making
- Polishing
- Cutting
- Spraying
- Joinery Making

Spatial Quality

- Daylight
- Roomy Space
- Spatial Connection
- Atmospher
- Materialization

(Solar) Time Zone: 1
Lat: 52, Long: 4.5
Amsterdam

Interior working space
Connections & Boundary
Lounge
Knee Braced Portal Frame Structure

Timber Frame Structure

Loadbearing Structure System
Ventilation System