The thesis project aims to investigate a Form Finding process as a design tool as well as the generator of a structural system, in this case a process of intersecting cones to create surface network logic, for a sailing school at Lidingö, Stockholm. Specifically the research aims at the blurring of the cone shape and the diffusion of a cellular logic by a process that increases the complexity and definition of the whole system. And as a result, a design method that generates and shapes the space.

**REFERENCES**

Ambition

The thesis project aims to investigate a Form Finding process as a design tool as well as the generator of a structural system, in this case a process of intersecting cones to create surface network logic, for a sailing school at Lidingö, Stockholm. Specifically, the research aims at the blurring of the cone shape and the diffusion of cellular logic by a process that increases the complexity and definition of the whole system. And as a result, a design method that generates and shapes the space.

**PRIMITIVE ARCHITECTURE**

sailing school at Lidingö, Sweden

**Performative Design Studio**

ELENA GUK

Tutors: Prof. Ulrika Karlsson, Jonah Fritzell, Daniel Norell and Einar Rodhe

**REFERENCES**

- Antonio Gaudi, ceramics
- Rhett Russo, ceramics
- Toyo Ito, Destination, Kakamigahara, Japan
- Günter Asprer, City Library, Stockholm, Sweden
- Miguel Fisas, Editorial DLAR, Madrid, Spain

**Water plan of Stockholm**

**Images of the site**

**Panoramic view of the site**
TECHNIQUE STUDIES variations of hole shapes and angles of slope

inversion with several clusters, diffusion cells

variations of construction
Sprayed concrete

PEN film

Aramid fiber (Technora)

PEN film

Isolation

Glass Fiber Reinforced Concrete

Fabric casting technique

wooden beams

wooden planks

section
**FUNCTIONAL STRATEGIES**

1. Public flow
2. Private flow
3. Wet zone
4. Workshop zone
5. Educational zone

**MATERIAL COMBINATION**

- Inside, wood, one figure
- Inside, concrete, second figure
- Inside, combination, new third figure
- Outside, sprayed concrete, another figure
- Combination, inside, new figure
- Combination, inside, second figure
- Combination, inside, new third figure

**Programmatic/Circulation diagram**

- Light, one cell
- Light, two cells, combination of the space
- Columns, separation of the space
- Entrance
- Light, columns, water collection
- Separation space in one cell
- Light, columns, combination of three cells
- Columns, structure entrance

**Programmatic/Circulation diagram**