P5 PRESENTATION
Interiors Buildings Cities Graduation Studio
Space of Collection

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CONTENT

01 Research and Concept

02 programme and Project targeted

03 Design and drawings
Research and Concept
Precedent study

Palazzo della Ragione
Site Plan
Square & Entrance

Plan of the Entrance A

Plan of the Entrance B

Plan of the Entrance C

Plan of the Entrance D

Plan of the Entrance E

View from Corte S. Clemente

View from Via Fiume

View from Via Daniele Manin

View from Via Marsilio de Padova

View from Via Guglielmo Oberdan
Space

Facade along the piazza

Activities happened along the facade

From this analysis, we could know that most activities are happened along the Soft Facade.
Plaza in front of the palazzo
Space of Collection
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Frist floor 1:500
Interior atmosphere
From the precedent to the site

1 what can we learn from the precedent
2 what do we need on site
Function of Prinsenhof cluster
Space of Prinsenhof cluster

The sequence of going through a narrow alley from Oude Delft and then arriving at the open air of Sint Agathaplein is also one of the characteristic experience of the Prinsenhof urban conglomeration. Lined up with trees, the Sint Agathaplein is a square stretched from east to west, where a gallery and terrace café could be found. To the north of the square is an enclosed garden, fully planted with trees and lawns, with a statue of Willem of Orange in the centre. Access from the east of the garden leads to the inner yard of the museum. Some little doors, almost unassuming, along this access, herald the hidden basement of the building, which is used as a restaurant.
02

programme
and
Project targeted
The Relationship between history and future between city and university between residents and students

Delft Collection
Delft collections are representative of the city and the university, which show the brilliant history of the city and the university. They tell the stories about the past.

Imaging that as a resident, you are surrounded by Delft collection and listen to a lecture about the latest research outcome of TU Delft

Students
Imaging that as a student, you are surrounded by Delft collection and display your design work or research achievement.

Resident
Imaging that as a resident, you are surrounded by Delft collection and listen to a lecture about the latest research outcome of TU Delft

TU Delft Research
Delft University of Technology has many the latest outcomes of research in different field. The university has responsibility to propagate these outcomes to residents, companies and local government.
Programme

Space of Collection
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Club 660.4 m²
Bar
Cafe
Restaurant

Study center 990.2 m²
Reading room
Studio (music/art/dance/performance, etc)

Archive 2318.5 m²
Atrium (multifunction hall)
Close-shelves storage room
Open-shelves storage room
Study space
How to fully use the Archive

Sala
Palazzo delle Ragione, Padova
CREA cultural center
Studium Generale

Upcoming event
JANUARY 17, 2017, 20:30 - 22:00 @ THEATER DE VESTE
SCIENCE BATTLE - ALLE ANTWOORDEN OP NIET GESTELDE VRAGEN

Recording Available
DECEMBER 13, 2016, 12:40 - 13:30 @ AULA, Zaal A
LEBANON: LIFE IN A REFUGEE CAMP
LEBANON THROUGH THE EYES OF A STUDENT By Marijke Parisi Entrance free/free sandwich Last summer a lot of things happened in Europe; it made civil engineering student Marijke Parisi realize that we all have to live with insecurities. Although we have only recently been experiencing a sense of insecurity in Europe, we are all well [*]*

Upcoming event
DECEMBER 6, 2016
VAN HASSELT LECTURE 2016: BIG DATA, HUMAN RIGHTS AND THE ETHICS OF SCIENTIFIC RESEARCH
COEN VERMEEREN
Big Data, Human Rights and the Ethics of Scientific Research John Tsioulas, ABC Religion and Ethics Australia Updated 1 Dec 2016 (First posted 30 Nov 2016) John Tsioulas is the Director of the Yoh Hiong Lay Centre for Politics, Philosophy and Law at King’s College, London. This article is adapted from the 2016 Van Hasselt Lecture, which he recently [*]*

Upcoming event
JANUARY 18, 2017, 12:45 - 14:00 @ AULA TU DELFT, FOYER
VERKEIZINGSDEBAT TU DELFT 173: ONDERWIJS IN 2042
PROF. ROB MUDE, MATTHIAS DE KONING (ORAS). SALOMON VOORHOEVE (LUST BETA)
In het kader van het lustrum 175 jaar TU Delft organiseren Studium Generale en TU Delft Debating Club een serie verkiezingsdebatten. Twee maal tijdens de lunch en vak voor de verkiezingen een groot slotdebat’s avonds in het Auditorium van de Aula. Het eerste lunchdebat staat gepland op 18 januari in de Foyer van de Aula [*]*

Upcoming event
JANUARY 18, 2017, 20:00 - 22:00 @ PRINSENKWARTIER
INTELLIGENT VEHICLES DOOR PROF. DR. D.M. (DARIO) GAVRILA
DR. DARIO GAVRILA
Automotive zit midden in een technologische transformatie. Goedkoopse sensoren, krachtige hardware gekoppeld met geavanceerde algoritmen en big data, maken hooggeautomatiseerde rijden mogelijk – dit heeft de potentie de mobiliteit van de toekomst fundamenteel te veranderen. Hoe werkt de technologie? Wat zijn de drijfveren op weg naar de zelfrijdende auto? Hoe lang gaat het nog duren? Naast [*]*

Upcoming event
JANUARY 26, 2017, 20:00 - 22:30 @ PRINSENKWARTIER
THORIUM MSR - KERNENERGIE ZONDER DE NADELEN
IR. THEO WOLTERS, IR. SANDER DE GROOT, PROF. ANNA SMITH, PROF. JILST SIETSMA
Gesmoltenzoute-reactor-technologie en de hoofdrol van het Nederlandse onderzoek daarbij. Na het symposium over Thorium MSR (Molten Salt Reactor) in Delft in april 2015, met daarbij bijna alle MSR-start-ups van de wereld als sprekers, is de ontwikkeling ervan in een stroomversnelling gekomen. Nederland sorteert daarbij voor op een hoofdrol, dankzij de leidende rol van de [*]*
Collage of concept
# Selected Collection

## The Sluyterman Collection

Location: TU Delft Library basement
Collector: Sluyterman, faculty of architecture
topic: Architectural artifacts, paintings and various design objects

- Start of the collection: 1895
- Number of collected items: 1235
- Total surface: 375 m²

The collection was founded by T.K.J. Sluyterman, a former professor of the faculty of architecture. Initially, the collection was kept at Oude Delft 75, where Sluyterman taught decorative arts from 1917 until 1932. Over the years, the collection grew; nowadays, it contains paintings, drawings, books, ceramics, furniture, architectural models, and fragments of buildings.

## The Rally Peters Collection

Location: TU Delft Library basement
Collector: Cornelis Hendrik Peters
topic: Government architect, topographic and architectural prints, reproduction of paintings

- Start of the collection: 1900
- Number of collected items: ca. 9000
- Total surface: 375 m²

The Rally Peters Collection was founded by Cornelis Hendrik Peters, a Dutch government architect who researched the development of Dutch cities. In this context, he collected a number of topographical prints which include also foreign countries such as Belgium, France, Germany, and England. In 1927 the collection was acquired by the Department of Architecture of the Technical High School Delft, with the intention to use material to support education.

## The University History Collection

Location: TU Delft Library basement
Collector: Rene Hageman, TU Delft
topic: University history 1842-present

- Start of the collection: 1842
- Number of collected items: ca. 170
- Total surface: ca. 545 m²

This University history collection consists of statutes, busts, plaques, and portraits of professors and dignitaries from the TU Delft and its predecessors: the Delft University, the Polytechnic School and the Royal Academy for Civil Engineers. The objects of the collection gave the lecture rooms or offices, or played a role in the board of the University.

## The Royal Delft Collection

Location: Rotterdamseweg 196
Collector: Royal Delft
topic: Ceramic objects

- Start of the collection: 1653
- Number of collected items: 64
- Occupied area: 185m²

The Royal Delft, better known as 'De Porcelaine Fles', started its own collection of pottery and ceramics objects. From 1653 in the former factory site located in the city centre of Delft. Since the beginning, all the objects produced in the factory, have been hand signed with the initials of the Factory's director, therefore it is possible to reconstruct the history of the objects just by referring to the name they display.

## The Chair Collection

Location: TU Delft Faculty of Architecture
Collector: TU Delft
topic: Chairs

- Start of the collection: 1957
- Number of collected items: ca. 300
- Total surface: ca. 47 m² on display

The collection started in 1957, when three students, Janis Jallens, Bert Ortmans, and Kees Albers, came up with the idea of compiling a collection of chairs that could be used during design educational activities. The Faculty of Architecture, particularly the interior design chair, supported the collection of the students. A lot of chairs were purchased at the Watergroen open-air market and other second-hand markets.
03

Design and Drawings
This figure plan shows the relationship between the new building and the existing city context. From this plan, we could clearly see how the new building cluster reform the existing void in the city center.
Analysis of Delft courtyard
20 examples of courtyard
Entrance
Dimension
Space of Collection
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Function

Function around courtyards
Ground floor plan
First floor plan
First floor plan
Negative effect
Solution Strategy 1
Solution Strategy 2
Archive Interior

This image shows the section and interior of the archive
Anatomical Theatre

Palazzo del Bo Anatomical Theatre
Archive Interior

Atrium of the archive
These two pictures show the image of atrium of the archive
Shelves surround the atrium showing the collections
Club Interior

This image shows the view of the first floor of the club. It has wood floor and white painted wall.
Club Interior

This image shows the view of the ground floor of the club.
Study center Interior

Reading room Interior
This image shows the view of the reading room of the studio building which is located at the ground floor. It has a wood floor and white painted walls.
Climate Design

Ventilation Design

All these three buildings have separated ventilation systems.

At the archive part, I use the mechanical ventilation to control the interior atmosphere. Meanwhile, the equipment room is located at the basement.

At the club and studio part, I combine the natural ventilation and mechanical ventilation system.
Climate Design

Floor Heating
At the archive part, I use the floor heating system to heat the building.

Ventilation Mode
At the upper part, the fresh air are provided from the floor. Each floor have its separated inlets, the exhausted air are pumped out from the atrium.

Ventilation Mode
At the ground floor, the fresh air are provided from the ceiling. The exhausted air are pumped out from the ceiling too.
Structure Design

Structure Diagram

Floor layout

- Roof floor
- Third floor
- Second floor
- Ground floor
Joint Connection

Damp-proof course

Precast concrete element
Mortar, 40mm
Thermal insulation, 40mm
Copper-titanium-zinc sheet

Concrete flags 50 mm
Gravel 40 mm
Synthetic roofing felt
Thermal insulation 100 mm
Vapour barrier
Screed laid to falls 20-80 mm
Concrete slab 200 mm

Detail A  1:5
Joint Connection

Concrete slabs 50 mm
Ventilated cavity 50-150 mm
Thermal insulation 150 mm
Concrete internally 200 mm
Interior wall finishing 20 mm

Detail B 1:5
Detail E 1:5

MDF board, 25mm
I-Steel
Additional mineral wool, 100mm
Rigid insulation sheathing board, 50mm
Water-proof sheet
Drainage channel with grating, copper
Thanks