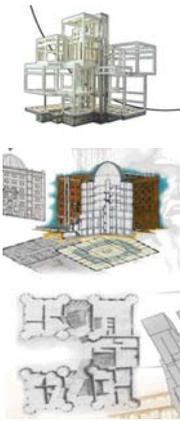


PORTFOLIO BART VAN BUEREN 2017



PORTFOLIO BART VAN BUEREN 2017



CURRICULUM VITAE

Name: B.J.A. (Bart) van Bueren 白汛埔

Date of birth: 28-2-'82

Nationality: Dutch

WORK EXPERIENCE

- 2012 - now **Visiting expert at NCKU** 國立成功大學 Tainan, Taiwan in sustainable and climate adaptation architecture. Teaching at five different departments, involved in international relations and in charge of various projects. My main task is to set up a Circular Economy program for NCKU.
- 2014 - now **Director at Dutch Design Post**. A non-profit organization stimulating creative industries between the Netherlands and Taiwan. 60+ designers visited Taiwan on themes such as social and sustainable design. www.facebook.com/dutchdesignpost
- 2008 - now **Owner at Waterarchitect van Bueren**. Architecture and consultancy in in DeltaDesign, from floating home to urban climate adaptation. www.waterarchitect.com
- 2007 - 2008 **Cofounder of DeltaSync**. I am one of the five founders and the only full-time working in the first year. My responsibilities were in representation, sales, project leading and execution of architecture and engineering. www.deltasync.nl
- 2007 - 2012 **Guest lecturer HRO**. Occasional presentations and teaching.
- 2005 - 2007 **Assistant MSc building technology**. Offering support for workshops in USA, Bosnia and Japan and the 'Free Form Design'-symposium. Related sides jobs were TUDelft promotion and mentoring students.
- 2003 - 2004 **Reconstruction pavilion Maison d'Artiste**. Engineering and building a historical design from 1923.

EDUCATION

- 2003 - 2007 **MSc in architecture, TUDelft** with Honours, final grade:9
- 2003 - 2007 **MSc in building technology, TUDelft** with Honours, final grade: 9. My thesis project combined the MSc in Architecture and the MSc in Building Technology in the project 'Living Bridge in Dordrecht'. I transformed a river from a barrier into an urban structure with floating buildings.
- 2006 **Honours track, TUDelft**, extracurricular certificate for top ~30 TUDelft students. In this I did additional research in the synergy of architecture with technological innovations.
- 2004 **Exchange semester at MIT, USA**. During my MSc studies I spent 6 months at the renowned Massachusetts Institute of Technology.

SCIENTIFIC PUBLICATIONS

- Chen, J.R., Yao, G.C. & Bueren, B.J.A. van (2016): The vibration serviceability of floating building. Taiwan Journal of Architecture. Awarded as excellent research paper by the Taiwan Architecture Society.
- Bueren, B.J.A. van & Goh, Y.S. (2016): Internationalizing SMEs in Creative Industries via Triple Helix Strategy. International Journal of Culture and Creative Industries. (full article online here)
- Bueren, B.J.A. van, Matsuoka, R.H. & Chen, Y.J. (2015): Floating rotating house; Case study of a Tainan fisherman's house design. International Conference on Amphibious Architecture, Design and Engineering. Full paper and key-note at ICAADE
- Rooij, S. van, B.J.A. van Bueren, Kuijs, E. & Verduin, E. (2011): Case study on application of islands in shallow foreshores of deltas: Salt reduction in the Haringvliet with Balance Island. Winner DeltaWaterAward 2012 and DeltaAlliance Young Professionals Award. (full article online here)
- Graaf, R.E. de, Bueren, B.J.A. van, Czapiewska, K., Fremouw, M & Kuiper, M. (2006): Floating City IJmeer: Accelerator voor Delta Technology. Awarded first price Royal Haskoning Deltacompetition 2006. (full article online here)

PROJECTS (SELECTION)

- 2017 - now **Library of Things**. A circular economy initiative at NCKU campus.
- 2015 - now **8 Innovation reports**. On social and sustainable businesses.
- 2014 - now **Floating rotating house**. Research to build a house with carbon negative footprint. By NCKU Research Center for Energy Technology and Strategy.
- 2013 - 2016 **Balance Island international**. Study to apply this 'Building with Nature'-concept in Vietnam and Bangladesh. In consortium with Sweco, Imares and Deltares, commissioned by RVO.
- 2010 - 2012 **WaterWonen-Rotterdam** project-director. Developing floating homes on behalf of a real-estate consortium.
- 2009 - 2013 **R&D of floating foundation**. A patented product for highly feasible floating foundations.
- 2007 - 2010 **Floating pavilion Shanghai/Rotterdam**. initialized by my graduation project, Rotterdam realized this 1100m² iconic floating pavilion.

PRESENTATIONS (SELECTION)

- 2015 International Conference on Amphibious Architecture keynote in Bangkok
- 2013 TEDx Tainan 2013
- 2012 UN Rio+20 climate top in Rio de Janeiro
- 2012 EU-China RBMP Flood Risk Management Workshop in Beijing
- 2010 Floriade Dialogue World Expo 2010 in Shanghai
- 2009 meet and greet Prime Minister Balkenende at OVG
- 2008 FIDIC keynote speaker in Quebec

COMPETITIONS (SELECTION)

- 2012 **Delta Alliance Young Professionals Award**, with Balance Island
- 2011-2012 **Delta Water Award** 1st place, with Balance Island
- 2011 Province **South-Holland price** 2nd place
- 2009 Province **South-Holland price** 1st place. An innovative, yet realistic future adaptive solution with service boats won this prestigious prize.
- 2009 and 2010 **Green Concrete** ideas competition nomination.
- 2008 **Young Technical Professional 2008**. Kivi Niria and NLEngineers awarded me as most promising engineer under 36 from all the Netherlands.
- 2008 **Archiprix 2009** design nomination.
- 2007 **Winner NCRV klimaatshow** on Dutch national television.
- 2006 **First prize Deltacompetition** International winning paper 'Floating city IJmeer'. The project got published over 500 times worldwide.
- 2004 **Design project selected for MIT** archives

ABOUT BART VAN BUEREN

Bart van Bueren aims to be a visionary entrepreneur in sustainability, architecture and innovative technology. As founder, Van Bueren successfully launched Deltasync, Waterarchitect and the Dutch Design Post. His skills came clear when his graduation project turned into a building commission for an 1100m² floating pavilion executed by DeltaSync. It became internationally known as icon of climate adaptation. On four continents he presented his visions and in 2008 he got elected as Young Technical Professional by NLEngineers. Since 2012 Van Bueren is assigned as visiting expert in DeltaDesign at NCKU in Taiwan, here he teaches in five different departments and facilitates in international collaborations. Among the competitions he won are Deltacompetition'06, SouthHolland Price'09 and DeltaWaterAward'12.



ABOUT TAIWAN DUTCH DESIGN POST

The Taiwan Dutch Design Post (TDDP) is a non-profit organization which unites Dutch and Taiwanese creative industries to collaborate, involving university and government. In May 2014, the TDDP opened a residency workspace in Tainan, Taiwan. Here, Dutch designers get support in their projects in production, sales or any collaboration in Taiwan. At the basis of the collaboration is a 'Triple Helix' synergy between governments, companies and universities of both countries. TDDP mediates all their interest and creates win-win (win²) opportunities.

The central theme in the projects are working towards a circular economy. Van Bueren acquired funding from both countries for internationalization, (social) innovation, entrepreneurship and sustainability in the creative industry sector. In three years, over 50 Dutch designers visited and 15 of them stayed over a month as resident. They created, collaborated and inspired together with the Taiwanese community. Also the Facebook community has grown over 1.700 likes.

- www.facebook.com/dutchdesignpost



ABOUT NATIONAL CHENG KUNG UNIVERSITY

National Cheng Kung University (NCKU) is known to have the highest quality of Design education in Taiwan. As foreign visiting expert, I teach at several departments in the 'College of Planning and Design'; Industrial Design, Architecture and Institute of Creative Industries Design. At the Engineering Departments i teach and run projects related to Watermanagement and Energy (RCETS). I believe working across so many different disciplines will lead to sustainable all-integrated solutions. I'm also active in expanding NCKU's international network and initiate new collaborations.

more info Taiwan Dutch Design Post:

Full English portfolio:
www.dutchdesignpost.com/download/TaiwanDutchDesignPost2017.pdf

Full Chinese portfolio:
www.dutchdesignpost.com/download/TaiwanDutchDesignPost2017CH.pdf

Facebook TDDP:
www.facebook.com/dutchdesignpost

Videos TDDP:
<https://vimeo.com/taiwandutchdesignpost>

Facebook Circular Economy at NCKU:
www.facebook.com/circularncku



more info Waterarchitect van Bueren:

Full English portfolio:
www.waterarchitect.com/download/Waterarchitect2017.pdf

website:
www.waterarchitect.com

water architect
van bueren

ABOUT WATERARCHITECT

Waterarchitect creates DeltaDesign as solution for the 21st century challenges, which are climate adaptation; urbanization and reuse of resources. Our skills are embodied in the Dutch heritage of deltatechnology, eco-awareness and real Dutch architecture. Our projects range from modern floating homes up to integrated solutions for a whole delta-area. With our personal approach we build-up lasting relations with our clients, built upon trust, quality and a clear solution for your requirements.

Waterarchitect is a multi-disciplinary collective of professionals. Its founder, Bart van Bueren specializes in DeltaDesign since 2005 and immediately got recognition as architect of the floating city (2006). Not much later municipality of Rotterdam embodied his climate adaptation vision in the cities' strategy of harbor redevelopment. His vision got exhibited at the WorldExpo 2010 Shanghai and resulted in the famous Floating Pavilion of Rotterdam. Al Gore himself made the soap bubble design from Van Bueren an icon for climate adaptation.

By now, the collective of Waterarchitect got nominated and won a dozen competitions. Waterarchitect's vision gets presented worldwide, followed by numerous publications. In collaboration with WaterWonen-rotterdam we are developed floating buildings in the Netherlands. With our ongoing research for flood resilient urbanization, we successfully patented in 2011 a low cost floating foundation enabling a businesscase for floating development.

- www.waterarchitect.nl

DELTA COMPETITION: FLOATING CITY

The Floating City proved to be a very successful concept. This is a semi-scientific proposal for large scale water development. It's climate adaptive and provides an enormous profit in space. In 2006 the Floating City got awarded as first prize at the international Deltacompetition. I created the globally published designs. Organizations as TUDelft and Urgenda used this project for promotion of climate adaptation strategies and delatotechnology and in the Netherlands. The design holds residential buildings containing 64 homes, centered around a covered court. On the outside are large roof terraces as outdoor spaces. I was the architect within a technical team of five.

The concept was presented at the World ExpoDesign 2010 in Shanghai, and lead to the development of the floating pavilion in Rotterdam. The floating pavilion originates from my graduation thesis in 2007.

OCTOBER 2006



CASANOVA: WATERLIVING- BRIDGE

This design is a row of 16 houses combined with function as bridge. A green walking route goes over the rooftops of the houses. The rooftop-area is public accessible and provides a wonderful view to the surrounding landscape. Residents are able to enjoy the connection with water on both sides of their house. This design won the public award out of 60 entries.

DECEMBER 2007

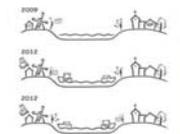


INNOVATION NETWORK: FLOATING GREENHOUSES

It may sound strange, but plants do not need soil to grow. Plants get their nutrients from (ground)water. In horticulture, most vegetables already grow on rock wool beds. Horticulture has an extremely high yield per m2, but a more efficient land use would be to place greenhouses on water. As there is a shortage of space of about 300 ha in the Westland, the Province of Zuid Holland has carried out a study into floating greenhouses in the port of Rotterdam.

This design shows floating gardens with aqua culture and hydro culture with a closed ecological system. The objective is to produce sustainable and climate-adaptive food for a self-sufficient, densely populated delta metropolis. This study has been worked out in the publication 'Kassen in de toekomst: licht en drijvend'(2010). A patent is now being detailed to realize a floating horticulture floor at 150 euro per m2.

JUNE 2009



ZUID-HOLLANDPRICE: FUTURE ADAPTIVE WITH WATER VEINS

This winning proposal was to work on the quality of life in Dutch towns with a aging and declining population. Old towns in Holland typically have waterways reaching the marketplace. This proposal is to make facilities mobile, like a floating post office, bank, store or restaurant. The facilities will move to a different village every day which will increase their customers area and therefore they can be feasible in areas with low population. This proposal was praised for its historical reference of old harbor usage, which eventually also adds to the cultural preservation.

The Zuid-Hollandprice 2010 is among the largest open competition in The Netherlands. This price is won by Bart van Bueren teamed up with Dries Schuur specialist in spacial planning.

OCTOBER 2009

TOPPING

Cities are very efficient in usage of space, but surprisingly rooftops are often left unused. This study is on the use of this forgotten place. One possible use is roofgardens. It can become a place of meditation in the middle of the busy city and even provide for local food-production. Additionally roofgardens retain water to prevent sewage overflow from heavy showers, plus they purify smog and they give a cooling effect against urban heat-island effect.

In a more in-depth research Waterarchitect analyzed the structural quality of reinforced concrete structures from post-war rebuilding period. Conclusions were options for rooftop-greenhouses and even additional houses ontop of buildings. This research was nominated in 2009 for 'Groen beton, In de Kiem gescoord'

NOVEMBER 2009



RCI ROTTERDAM: FLOATING PAVILION

The Rotterdam Floating Pavilion originated from Van Bueren's graduation project. To align the design with the available budget the pavilion changed from five to three domes. Nonetheless this building got internationally recognized as 'Icon of Climate Adaptation'. Both from the inside and outside it has a futuristic appearance, making visitors curious about it's statement and integrated innovative technologies. Prestigious congresses are organized here and it's branding Dutch DeltaTechnology as Netherlands Water Centre (NWC). The auditorium can seat 150 people and the central space even up to 300. This space is usually used for exhibitions for the newest innovations. The pavilion is located in the Rijnhaven centrally next to Rotterdams' highrise, but in the future the complete building can be relocated to make place for new floating settlements in the harbor.

JUNE 2010



WORLDEXPO 2010: ROTTERDAM UBPA

The municipality of Rotterdam has got an ambitious climate program, RCI. Reducing 50% of CO2 emissions compared to 1990 and a city which is 100% climateproof. To realize this ambition, Rotterdam profiles with a vision made by Waterarchitect. Rotterdam promoted herself in an exhibition at the World Expo Shanghai 2010. Two large models of the floating domes are shown in this expo as my design. Rotterdam Willem de Kooning Academy had lead on this exposition. Waterarchitect participated in the Dutch Water Week and gave several presentations.

JUNE 2010

Materia-un-packed



OFFICE FURNITURE: CARDBOARD BOOKCASE

With my office furniture we express our (design) vision. This bookcase is made from recycled cardboard boxes, inexpensive studding timber, wires and bolts. This bookcase is 100% detachable and 100% reusable. This bookcase is put together without sawing, drilling, gluing not even nailing. The materials remain in the same condition as by delivery; Cradle2Cradle. The result is a robust contemporary design expressing my vision. My office shows this vision since it's located in a factory with silo's converted into creative office spaces.

OCTOBER 2010

**WATERLIVING - ROTTERDAM:
MAAS HARBOUR NEIGHBOURHOOD**

Coming century Rotterdam will redevelop her old harbors into floating urban neighborhoods. At Waterarchitect we've continuous research and development on this new topic 'floating urban development'. Developers 'WaterWonen-Rotterdam' and municipality 'Rotterdam Stadshavens' commissioned Waterarchitect to present redevelopment of several harbors. As experiment a residential area sized around 200 houses is designed. The typology to built floating houses in urban density is new and proves to be feasible. In this the ingredients for a floating city are shown, all based around the principle to provide at least the same comfort and luxury as is expected on land-side. This means no seasickness and accessible by car. But also extra comfort and luxury; no noisy building-sites, because finished buildings are drifted in. Everyone can put a boat next door you'll love the Venetian restaurant the comes sailing in every week.

OCTOBER 2010

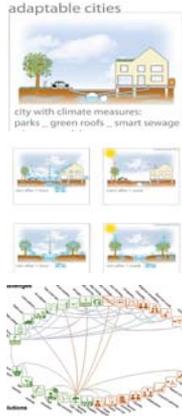
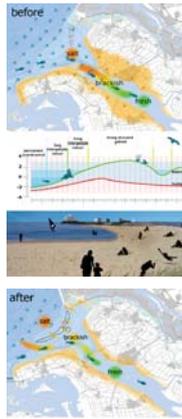


**BALANCE ISLAND
DELTAWATERAWARD / DELTA ALLIANCE**

In team with Grontmij and Imares a proposal is made for salt reduction in the Haringvliet in the South of Holland. To stimulate a natural sandy island in the front delta at the Northsea a new semi-open basin is formed. This basin functions as a buffer and mixing place for salt and fresh water. The water from Meuse and Rhine rivers will flow more gradually into the sea, more similar to the situation before the completion of the DeltaWorks. With this an essential balance is restored for migration of fish and estuarine nature. This concept of 'Building with Nature' is profitable for nature, tourism agriculture and climate adaptation. This innovative usage of the front delta is a great example of Dutch Deltatechnology applicable in all delta's worldwide. This proposal won two international awards.

FEBRUARY 2012

The same consortium, plus Deltares, was commissioned to study the potential of Balance Island internationally in 2016. Feasibility and design studies were done for Bangladesh and Vietnam.



ADAPTABLE CITIES AT NCKU

Since September 2012 Bart van Bueren is assigned as Visiting Professor at NCKU, National Cheng Kung University in Taiwan. An on-going project in teaching and research is the mapping of the 'Climate Measures' (SUDS). These measures can be a tool for municipalities, planners and architects to fight threats as: flooding, drought, heat island effect, pollution etc. Measures can be taken in existing built environment or in new projects and can vary in any size from landscaping to small devices. The study focuses on subtropical regions since here the need for adaptation is probably most urgent. Students at National Cheng Kung University in Taiwan are working on mapping hundreds of measures possible to be taken. The research ultimately results in a digital toolbox to make cities better, safer and cleaner environments.

SEPTEMBER 2012

Accompanied by the Climate Measures Bart van Bueren developed a lecture series on water and climate (change) impact in the built environment.



THAILAND RAFT HOUSE

Thailand's tradition of raft houses is ending. Policy is to clear the rivers and raft houses are wrongly accused to be polluters of the water. All that remains are 'fake' tourist floating markets. Bart van Bueren and 7 National Cheng Kung University students made a workshop to learn from the very last traditional raft builder in Thailand. This 'Grandfather' who almost reached his 80's was still climbing bamboo trees to select the best branches. In about a week the team built a small Thai raft house according the traditional methods and materials. The building is donated to the local Folkemuseum of Phitsanulok.

FEBRUARY 2013

Waterarchitect is developing a low cost floating foundation with sanitation unit to enable the return of floating and amphibious contemporary houses in Thailand.

AGRO HOTEL: HIGH LEVEL GREENHOUSE

The Westland area in Holland has probably the highest crop yield per surface in the world and yet it's in the densely populated area of the Randstad. Greenhouses are extremely effective in growing a lot of crop on a small surface, but now the problem is there is no space left for the greenhouses. Complications for spatial planning occur for water storage and a lot of horticulture related functions. Even agro hotels for guest-workers are unavailable and difficult to plan.

The High Level Greenhouse embeds all those functions at once. Greenhouses are lightweight; the cost to elevate them is about the same cost as building ground. Thus to stack functions is cost-effective. The agro hotels are placed on the façade of the greenhouse; lowering construction cost and sharing the warmth generated in the greenhouse during the cold seasons. One might even imagine that the dining room is in the greenhouse where hanging flowers are growing which simultaneously provides shading in the summer.



APRIL 2013

TAINAN FLOATING GARDEN 1

The (first) floating garden was commissioned as artwork for the Boulevard Art Festival Tainan 2014. The Garden is to create awareness on how much waste people are making, and how much of the waste ends up in nature, harming animals and plants. The project follows a circular economy strategy to clean nature from human waste. The artwork is built from foam blocks and plastic bottles that otherwise would pollute nature or city. With old fishing nets and bamboos these floating waste materials are bound together to become a floating raft. On top of that a simple structure of a house was made, with mannequins standing around. The house is intended to get grown over by the plants. The artwork is to make nature on something that would otherwise destroy nature.

The project was in collaboration with NCKU, Willem van Doorn and many volunteers.



DECEMBER 2014



TAINAN FLOATING GARDEN 2

The first floating garden was reconstructed into a bigger and stronger one. The lessons learned from the first garden lead to various experiments by National Cheng Kung University, dep. of Hydraulics. Different vegetation and soil conditions are tested and studies are done on improving water quality, providing habitat for animals, flood protection, city education and making the garden a tourist attraction.

The result is a bright green floating garden that grows strong without any maintenance. Also the underwater part is grown full with shells and weeds, attracting many fish. The vegetation works as a protective layer for the structure.

DECEMBER 2015



TAINAN ROTATING SUN-HOUSE

Bart van Bueren designed the Tainan rotating sun-house on behalf of NCKU Research Center for Energy Technology and Strategy. The project is research-by-design based, with the intention to become a show-case building for green energy and sustainable materials. The building is to have a positive impact on its environment, following strategies for a Circular Economy. Most notable is the concept to make the building rotatable while it's floating on a fishfarm. Advantages of this are higher sun gain for the solar panels and improved natural ventilation. Energy gain by rotation is 12% more energy. Taiwan is severely threatened by climate change disasters and in need of adaptation strategies. A floating building is flood proof, and covering a fishfarm will help against overheating the fishpond.

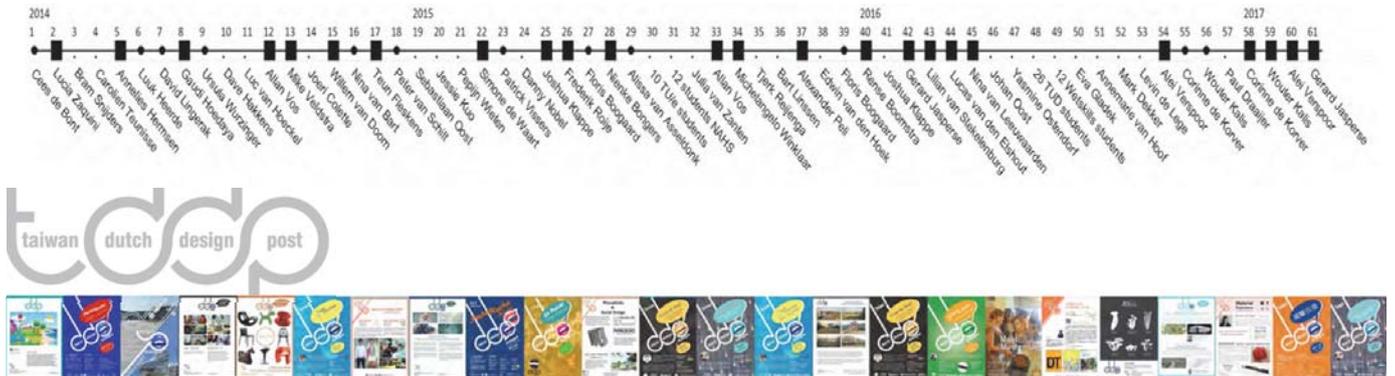
JUNE 2015

ABOUT TAIWAN DUTCH DESIGN POST

The Taiwan Dutch Design Post (TDDP) is a non-profit organization for Dutch and Taiwanese creative industries. The TDDP has a residency workspace in Tainan, Taiwan. Here, Dutch designers get support in their projects for production, sales or any collaboration in Taiwan. This international collaboration seeks benefits for companies, universities and government; this strategy is called 'internationalizing the triple helix'.

These international projects work towards a circular economy, involving sustainability, (social) innovation and entrepreneurship in the creative industry sector. The TDDP is initiated by Bart van Bueren in May 2014. Within three years it has hosted 15 Dutch designers who stayed around 1 month; in total over 60 Dutch designers visited the TDDP. All together, they created, collaborated and inspired together with the Taiwanese community. Also the Facebook community has grown over 1.700 likes.

• www.facebook.com/dutchdesignpost



TAIWAN DUTCH DESIGN POST

Taiwan Dutch Design Post (TDDP) is a non-profit platform to match interests of Dutch Designers to collaborate in Taiwan. It offers match-making between Taiwan and the Netherlands for designers, together with student involvement, industry collaboration and government support. Involving these different organizations follows the theory of international triple-helix collaboration. Dutch designers are offered accommodation at the 321 Artist Village in Tainan. From here they collaborate with NCKU students and the C-Hub design incubator center to accomplish innovative projects in sustainable and social design, towards a circular economy. Founded in 2014, it has welcomed over 50 Dutch designers and had residency programs with more than 15 designers within 3 years of operation. Outputs vary from improved products including their manufacturing, lasting international collaborations and cultural exhibitions. TDDP operates as non-profit and has been successful in acquiring its funding from both the Netherlands as Taiwan. A community of 1700+ people.

MAY 2014



TDDP RESIDENCY AT 321 ARTIST VILLAGE

At the heart of Tainan city lies the 321 Artist Village. This picturesque village consists of old wooden Japanese villas with beautiful gardens. In here the designers residency for Dutch designers can be found. At the second floor is a comfortable apartment with private bathroom (designed by Bart van Bueren). At the ground floor is working space for Dutch and Taiwanese designers. This comes with a large meeting room and two small exhibition spaces. One exhibition is devoted to showing record of previous Dutch designers' projects with text, pictures and prototypes. Most of the furniture was donated by the NTIO; Netherlands Trade and Investment Office.

MAY 2014



TAIWAN DUTCH DESIGN DIALOGUE

Organized by TDDP, Taiwan Dutch Design Dialogue is a series of events that encourage intercultural dialogues. Since its opening in June 2014, the TDDP hosted over 80 different presentations, workshops and other events. In 3 years around 50 Dutch Designers visited NCKU with the mission to get into a dialogue with Taiwan on design. Two Pecha Kucha Nights were held at the 321Artist Village in Tainan and both had an audience of 120 people. Other Taiwan Dutch Design Dialogues were discussion-based for intimate groups of about 15-30 people.

The Taiwan Dutch Design Dialogue in Taiwan creates intercultural conversations where everyone can learn from different perspectives, methods, and to gain inspirations. We have learned that design is so much more than what meets the eye; everything needs a vision, a business plan, and a lot of courage to set through a long process. The dialogues create a platform for networking in fields of environmental and social sustainability.

JUNE 2014



LUCIA ZAQUINI: MEAT THE MUSHROOM

Meat the Mushroom is a company designing mushroom food products to replace meat. Mushrooms are already common as food, however the roots of the mushroom, known as mycelium, are an even more potential source of food. Mycelium requires a growing medium, instead of soil this can be shrimp shells or sugar cane. This will become edible as the mycelium softens it. The product Meat the Mushroom is designing is mycelium grown on food waste, into something with a nice flavor and 'meaty' texture, so it can replace a beef paddy.

Taiwanese are not shy to try some food as odd as stinky tofu, and Taiwan has a huge mushroom expertise. Samples with mycelium and various growing media have been grown at NCKU laboratory. Students and faculty were not shy in being test subjects by eating them.

MAY 2014



TEUN FLESKENS: BEE HOTEL

Teun Fleskens is a product and interior designer. In a new words his style could be described as experimental, communicating, pure, natural versus industrial and clearly present but not demanding. What's most important about his designs are not only functional but overall meaningful. The concept is very important. This can be a serious statement or just making a smile appear: capturing the essence of this conceptual thinking into a minimalistic design.

Einstein once said: "If the bee disappeared off the surface of the globe, then man would have only four years of life left." (..) and, now we live in an age where the bee population is drastically decreasing. Teun Fleskens designed a bee-hotel, this beautifully designed object can be hung up in the garden by people who want to support the bee, in a well-designed matter.

Teun Fleskens is exploring to produce various products in Taiwan, all have various materials and specialty parts. Only in Taiwan a micro-cosmos of quality manufacturing can be found. Teun Fleskens explores the production techniques for recycled glass, stainless steel, ceramics and bamboo.

DECEMBER 2014



JOSHUA KLAPPE: SUSTAINABLE TENT

Joshua Klappe is a Delft University of Technology, industrial design alumni, who is reinventing sustainable camping.

A lot of people love camping and sleep in a tent. In Europe and America there are festivals where thousands of people camp together during music festivals that last several days. The sad truth is that after camping, over 25% of the tents are thrown away, and this is not ecofriendly. Joshua Klappe came up with the idea to make an ecofriendly disposable tent for one time use.

Joshua Klappe collaborated with NCKU students and developed his design further. Students helped him to find factories for bioplastics and helped in the factory visit. Taiwan has many choices for this. After material samples were made, the students set up tests for product testing. Various designs were tested on water-proofing, temperature, humidity, comfort, building, destructing, etc. The best test was the real user test, after a micro festival with watching designers movies students stayed overnight in the tent. Lessons learned was, more ventilation needed, but less openings for mosquito's...

APRIL 2015

DUTCH DESIGN SUMMER INTERNSHIP 2015

As an endeavor to foster sustainable collaboration between NCKU and Dutch design industries, Prof. Yi Sheng Goh and Bart van Bueren initiated a Dutch design summer internship program. This program is part of the larger Pilot Overseas Internship Program sponsored by the Ministry of Education. In the summer of 2015, 10 NCKU students from the College of Planning and Design were sent to the Netherlands for a two-month internship. Among them, six headed to Amsterdam to work at Metabolic, Mediamatic, and Pilotfish, and four headed to Eindhoven to work at PeliDesign, Gerard Jasperse and Teun Fleskens. Some of the designers from these companies visited Tainan (through TDDP) and collaborated with students from Industrial Design and ICID in this past year. What did the students learn? Working intercultural and living (shortly) abroad. How small-medium design companies work and the value of entrepreneurship. Cradle-to-cradle design processes and other added value through design. How to bake your own pancakes and... last but also least, bikes get stolen easily in Amsterdam!

The internship program is repeated in 2017 for Eindhoven.

AUGUST - 2015



ALFI VERSPOOR: MODULAR CODESIGN BAGS

Alei Verspoor is the designer behind Pack. Pack is a concept for modularly designed textile products. The main product line of Pack is backpacks.

Modular design means that the product can easily be disassembled in parts and be modified. This has many benefits; parts can be replaced if broken, or changed to esthetical or functional requirements. But Alei Verspoor wanted to explore more opportunities of modular design: If parts of the bag are designed by different designers, can these co-designers help the marketing by collective branding? How can the user choose parts to personalize the bag? Parts of the bag can be made by cultural crafts and support underprivileged people, that adds 'story-telling' to the product. Another exploration is to produce the bag from different bio-materials and recycled materials.

NOVEMBER - 2016



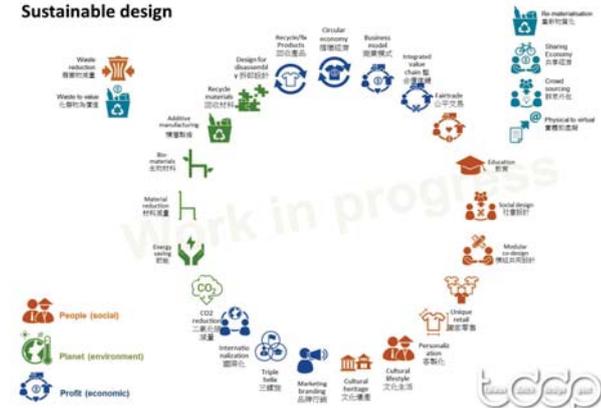
MIN-STUDIO: CIRCULAR ECONOMY

Wouter Kalis and Corinne de Korver are the designer duo that make Min-studio. In several projects they worked with underprivileged people to involve them in production process of furniture made from industrial waste products.

What: in this project Min-studio explores business opportunities for circular economy design processes involving a large amount of social design. Factories are visited to map waste materials, simultaneously the interests for under-privileged people are mapped. From here a study lead how to combine these and match with business models.

DECEMBER - 2016

Sustainable design



FUTURE PROJECTS

The TDDP is successfully embedded between Taiwan and the Netherlands. A framework to initiate collaborations has been set up; part of this is the 'international triple helix' approach where the synergy is found between government, university and companies. On the knowledge part for the projects, a framework towards a circular economy has been developed. This framework sets on strategies for sustainable materials and strategies; suitable innovative business-models and approaches to give back to the people. People's aspects involve education, sharing knowledge and experience, international connections, cultural diversity and collaborating with under-privileged people. Our network, experience and knowledge are continuously growing; and so will be the quality of our future projects.

2017