



Studio Lukas Feireiss and Tomorrow's Thoughts Today with Luis Berríos-Negrón

Ecology (from Greek: οἰνος, »house« or »living relations«; -λογία, »study of«) is the scientific study of the distributions, abundance, share affects, and relations of organisms and complex structures and their interactions with each other in a common environment.

As a living "wunderkammer" and alchemists' den. The Imaginarium - A Theater for Con

botantical samples, exhibits, evidence and curiosities contributed to the exhibition by leading figures from the world of architecture, art and science. Archived in the accom-

Project management: Urs Kumberger; Graphic design: Matthias Hübner – possible. is er image: 'Scarabattolo' (1673) by Domencio Remps (1621–1699). Oil on canvas, 99 x 13: Opificio delle Pietre dure, Florence, Photo: akg-images/Rabatti – Domingie

-- 01 -**LEARNING FROM HENRI**

THE MAGIC MOUNTAIN

{ Film }

AMID (Cero9) - Architectural firm; founded 1997; based in

In the city of Ames, placed in the centre of Iowa, an ex

— 03 — LIVING TECHNOLOGY

{ Film and Image }

Rachel Armstrong - Writer, multimedia producer, television presenter, arts collaborator, general medical practitioner; lives and works in London, United Kingdom

structed Ecologies acts as a discursive exhibit and performative platform suspended within the landscape of the main exhibition. The Imaginarium is devoted to the prescient subject of ecological change and adaptations caused by artificial interventions into existing ecosystems. It catalogues a world in which the sun is setting on our idealistic and preservationist views of the natural world. The slow burn of evolutionary change, its endless generations, duplicating and multiplying with gradual mutation and variation is coming to an end. We now design the natural world as if it were the built landscapes of our cities. We sculpt and engineer designer ecologies while organizations remake the earth's surface at a scale previously unimaginable. Corporations, as native animals of the globalized world, give form to reclaimed islands, instant cities and simulated environments. Against this backdrop, *The Imaginarium* aims to reflect upon the major contemporary processes that evoke, drive and control the changes and challenges we are facing today, all in order to project a creative archaeology of thoughts and inspirations.

The Imaginarium is curated as an unnatural history museum of archaeological fragments,

panying Catalogue of Speculative Specimens we see this jump in the fossil record, an evolutionary leap, as the interbreeding of biology and technology gives birth to a strange new nature. Here we gaze out across the near future population of our augmented wilderness. We lie in wait, where the wild things are, as these early specimens breed and multiply, to generate the new cities of a day soon to come.

*Protocells are an example of Living Technology - that exhibit some of the characteristics of living systems but are not considered alive. This film provides a view of the range of interactions of protocells, which are based on a dynamic oil in water droplet system, which does not possess DNA (the chemical programming system which biology uses) and takes the viewer on a journey from the perspective of the performance of individual agents that are able to move around their environment, modify it and undergo complex chemical interactions, such as the shedding of skins to their interactions on a population scale. The film is accompanied by thought moments that highlight some of the observed behaviours and ask the audience to reflect on whether these very simple systems are actually alive, or not. «

{ Image on canvas }
2 A + P/A - Architectural firm; founded 1998; based in Rome, Italy - www.2ap.it

The woman who has fallen asleep on the sofa dreams that she as been transported to this forest and is hearing the sounds of the snake's charmer's music. That explains the motif of the couch in this picture.* Henri Rousseau

**Rousseau used to paint imaginary landscape where he never had been and his surrealist view of nowhere places is based on stories kept from others who have been in exotic lands. His imagination assigns a value and a place to an accumulation of images and signs, according to Baudelaire's idea of the whole visible universe. The world he described in detail is both ideal and surrealistic. His paintings tell histories about nature, cities and men who dream for utopian landscapes. Thus a Rousseau's scenario becomes the right location for our *Productive Condominium*, a self-sufficient housing prototype for development and land management, to be applied in areas where town and countryside are only tenuously separated. Our aim is to produce a new kind of community, able to share spaces and devices, to realize a new alliance between humans and nature. It aspires to join the broad tradition that has explored alternative destinies for our environment, once utopian visions now seen as the

Madrid, Spain - www.cero9.com

In the city of Ames, placed in the centre of lowa, an extremely big power station is running at full power. We proposed to transform it into a piece of landscape inside the city, totally covered with a membrane of roses, lights and honeysuckle shrouding and unifying them with a silhouette and a single common material. The species chosen for the construction of this vegetation crust are many species of roses adapted to the harsh continental climate of lowa developed by Griffith J. Buck. For the covering of the outer shell of the power plant we propose to use the growth of the living matter as a base in a grid of recycled polypropylene pallets. Like a real mountain, the membrane tries to attract the most important butterfly species, right on the southward migratory route on the American continent, and will provide a resting place for migrating birds and turn into an artificial alternative to the disappeared forests and wetlands. The assembly of the existing power station and its new image produce an ecosystem that is subject to human interaction.

HYLOZOIC GROUND

-- 04 --

PIGEON D'OR

{ Image }
Tuur van Balen - Designer; born 1981, Belgium; lives and
works in London, United Kingdom
- www.tuurvanbalen.com

» Pigeon d'Or explores how pigeons can serve as a platform and interface for synthetic biology in an urban environment. By modifying the metabolism of pigeons, and specifically the bacteria that live in their gut, synthetic biology might allow us to add new functionality to what is by many seen as the spring rats. This would happen through feeding the pigeons special bacteria and would be as harmless to them as eat-

ing yoghurt is to us. Initially, the project attempts to cre-ate bacteria that would allow a pigeon to defecate biological soap. Pigeon d'Or considers the city as this vast and incred-

ibly complex metabolism of which the human species is the

tiniest of fractions: tiny vet intensely linked into an intricat

organic embroidery beyond our understanding. It is in this ugely complex fabric that (future) biotechnologies will end

up. The project therefore sets out to design the appropriate

DRY MARTINI

{ Photography }
Philip Beesley - Architect, born 1956 in Westcliff on Sea
United Kingdom; lives and works in Toronto, Canada

»Hylozoic Ground is an immersive interactive environn made of tens of thousands of lightweight digitally fabricated components fitted with microprocessors and sensors. The glass-like fragility of this artificial forest is created by an intricate lattice of small transparent acrylic meshwork links, covered with a network of interactive mechanical fronts, filters, and whiskers. The environment is similar to a coral reef, following cycles of opening, clamping, filtering, and digesting. Arrays of touch sensors and shape-memory aloya cutators create waves of diffuse breathing motion, until the project's title refers to highosism, the ancient belief until the project's title refers to highosism, the ancient belief until the project's title refers to highosism, the ancient belief until the project's title refers to highosism, the ancient belief under the project still refers to read the project was a supended generation of responsive architecture. The Hyllozio Ground environment can be described as a suspended geotextile that gradually accumulates hybrid soil from ingredients drawn from its surroundings. Akin to the functions of a living system, embedded machine intelligence allows human interaction to trigger breathing, caressing, and swallowing motions and hybrid metabolic exchanges. «

Marking Parking Public for Species

Har TREE

Marking Parking Public for Species

**Air TREE*

- 07 --THE TURTLE THREE

{ Installation }
Luis Berríos-Negrón - Architect artist; born 1971 in Puerto
Rico; lives and works in Berlin, Germany - www.luisberriosnearon.ora

»The Turtle series are mobile curatorial units. The Turtle Three has a system of swiveling doors that are both pin-up and sketching surfaces. The modules and the doors form a variety of spatial configurations that allow its users to provide indoor and outdoor activities, such as workshops, screenings and exhibitions. Considering our proliferating, customized reality, as an opposition to its virtual counterpart, The Turtles aim to house emerging labor societies exploring ever-more accessible knowledge and technologies, not only to transform the output and scale of City, but fundamentally question traditional values of what production is. In all, as war machines, The Turtles are evolving centers of knowledge serving their users as cultural equipment to build the institutional memory of events and audiences. «

__ 08 __ THE FUTURE AND THE NEST

-- 09 --**HYDROGENASE**

{ Image }
Vincent Callebaut - Architect; born 1977; lives and works in Paris, France and La Louvière, Belgium - www.vincent.callebaut.org

"The Electrocyte Appendix is an artificial organ that could be implanted into the body to allow people to become electric organisms. Inspired by the electric eel and the way it uses electrocyte eells to produce electrical current from its abdomens, the organ is constructed of artificial cells' that mimic and improve the electrocyte mechanism by converting blood sugar into electricity. Replacing the vestigial appendix, the artificial organ brings a new functionality to the human anatomy, giving humans the ability to farm and produce electricity directly from their body. By discarding the remains of redundant anatomical functions in favour of new abilities, the body is redesigned in order to sustain its new way of living. Biotechnology could allow us to transform our genus into something else. The idea of our species changing from Homo-Sapiens into Homo-Evolutis (the human as a species controlling and designing its own evolution) is materialising quickly in research labs. «

-11-**COUNTER-COMMUNITIES**

Film]
Oliver Croy and Oliver Elser Oliver Croy: artist; born 1970 in Kitzbühl, Austria; lives and works in Berlin, Germany – Oliver Elser: architect, critic, curator, born in 1972 in Rüsselsheim, Germany; lives and works in London, United Kingdom - www.croynielsen.de

»Artist Croy and architect Elser chart the contemporary legacy of the utopian tendencies born of America's 1960s alternative movements. Depicting five experimental architecture projects (Arcosanti; Earthships; The Lama Foundation; Nader Khalili and LA's Dome Village) in their pioneers' own words, the documentary expunies amplied utopian thinking words, the documentary examines applied utopian thinking in both built structures and concurrent ways of living, from a desert megastructure to a homestead inspired by ancient Persia and NASA research.«

—12 — **SAVED BY SCIENCE**

{ Photography and Film }

Justine Cooper - Artist; born in Sydney, Australia; lives and works in New York City, USA - www.justinecooper.com

»Over the course of a year (2004 - 2005), with unprecedent-ed access, I explored the behind- the-scenes storage areas of the American Museum of Natural History in New York. What is revealed is a trail of scientific desire that reaches from the present back into the 19th century and across the four corners of the Earth. At its founding in 1869, The American Museum of Natural History was an embodiment of the royal cabinet, the 19th century name for natural history collec-

AIR TREE MADRID PAVILION PUBLIC SPACE EXPO 2010 SHANGHAI (CN)

{ Photography and Image }
urbano - Architectural firm; founded 2000: based in Madrid, Spain - www.ecosistemaurbano

»The Air Tree emerges as an experimental prototype of inte wention in contemporary urban public space, capable of re-activating sites and creating the conditions to empower the use of the collective space. It is conceived as a technological that is being used not only as a breathing space but as well interactively. The Air Tree with its different technical layers tions allow an unlimited combination of scenarios adaptable to citizen needs. By sensors it is connected in real-time with the climatic conditions of Shanghai, constantly adopting the optimal physical configuration and energy consumption

— 14 — SPECIES OF SPACE

Species of Space is a continous experiment in design founded by Eric Ellingsen in 2009. Ellingsen's design work seeks to explore an ecology of experiments, constraints and pressures. **The nest is the ideal of the capsule, a world in which we feel safe and comfortable. Currently, the western world is encapsulating itself in an artificial nest of wealth and prosperity, violently protecting our consciousness against poverty and global social injustice. Do we want to live in a world which is encapsulated? Finally the nest is nothing else than an imagination.

OSCILLATING BETWEEN BLINDNESS AND ILLUMINATION

Sweden - www.loveenavist.se

*Between engineering and biology, *Hydrogenase* is one of the first projects of bio-mimicry which draws its inspiration from the beauty and the shapes of nature, but also and especially from the equalities of its materials and its self-manufacturing processes. The new green revolution is really in progress and enables us to design the air mobility of the foil after shock, 100%, self-sufficient in energy and carbon emission! This inhabitated vertical aircraft inaugurates a clean and ethic mobility to meet the needs of the population in distress touched by natural and sanitary catstrophes, and all that without any runway! Its architecture is subversive and fundamentally critic of the ways oliving of our contemporary society that we have to reinvent totally! Left's take off thanks to biofuels and left's project totally! Left's take off thanks to biofuels and left's project totally! Left's take off thanks to biofuels and left's project by numerous threads. One could say it was like an autobiography where she for a moment was like an autobiography where she for a moment was like an autobiography where she for a moment was like an autobiography where she for a moment was no longer dependent of anyone else. — You are actual physical changes to her brain just like the thin tapestry is woven together by numerous threads. One could say it was like an autobiography where she for a moment was no longer dependent of anyone else. — You are actual physical changes to her brain just like the thin tapestry is woven together by numerous threads. One could say it was like an autobiography where to plant your tree chair. In your hands is a triangular metal object. Tool hear the traffic as a distant roar for the world beyond your garden. It is sometimes as if you could see yourself from the outside. The shape of life: your life given form in an apple tree chair.

CHAPEL VERTEX

PROJECT FOR THE BENEDICTINE ORDER

{ Modell }

sterwalderarchitekten Architectural firm; fou
2000; based in Stephanskirchen, Germany

www.finsterwalderarchitekten.com

amall pantheon. Along the path the space widens twice. The first wide space offers a bench to sit on with a view, through a window, to the tree. The second also offers a bench to posite a window. This window is constructed with stapled posite a window. This window is constructed with stapled glass, giving the observer an interesting, cloudy view to the tree. The complex form can be easily assembled, since ev-ery piece of timber is the same as the one below. The pieces are joined similar to traditional block-houses, with a timbe dowel used to connect the lavers and avoid leaks.«

SPACE PROJECT

{ Photography } Vincent Fournier - Artist, photographer; Born 1970 in Ouagadougou, Burkina Faso; lives and works in Brussels

journey at the edge of documentary and fiction, around some of the most representative utopia of the 20th and 21st century. The Space Project series is exploring the retro futuristic space odyssey from the space age to the new contemporary space development. Vincent Fournier's photographs pay tribute to the way science and technology are changing our way of living and the world we are living in. Regarding the form, the work is orientated towards an aesthetic research influenced by the documentary photographs, the landscape painting, and science fiction movies. «

— 18 — THE PARALYTIC **ORNITHOLOGIST**

{ Image }
Lynn Fox - Director and animator; based in London
United Kingdom - www.lynnfox.co.uk

»A trail shadow roams the infinite depth, alone, stagger-ing closer it amounts to little. Only a vain sheen, glistening under the dim light. A crippled figure drowned by a shim-mering weight; limp, ailing. Torn his twisted extremities.

The wings a dislocated nothing; mere lumps of perverted cartilage. No mystical father to fashion delicate prosthetics of feathers and wax. Aspirations futile it seems. *Is this our belowed karuss*. No, not the faintest echo of lament can be helowed karuss*. No, not the faintest echo for lament can be heard reverberating the endless gloom. Despite all beavenily desires such pathetic existence is bound to be condemned by the gods of old. All heroic audactiy inherently denied. Heart a bird; body a beast? He himself reversed? Or else even? *Eyes ** Order is the misself reversed? Or else even? *Eyes ** Order is the misself reversed? Or else even? *Eyes ** Order is the misself reversed? Or else even? *Eyes ** Order is the misself reversed? Or else even? *Eyes ** Order is the misself reversed? Or else even? *Eyes ** Order is the misself reversed? Or else even? *Eyes ** Order is the misself reversed? Or else even? **Eyes ** Order is the mis to the skies, my feeble friend. You are a scientist!<«

— 19 — **VEGETABLE CITY**

»A half century ago, when I was a student of architecture

{ Photography } Terunobu Fujimori - Architect, writer; born 1946 in

avant-garde architects all over the world conceived future images of cities and architectures. Archigram in London, Metabolism in Tokyo, etc. Their proposed images were different to each other, but one thing was common in basic concept; that is the progress of science and technology. They dreamed that dreams would come true in the future with science and technology of 20th century. A half century has passed since them. Nobody doubts the indispensability of science and technology, but science and technology already lost the profiles peach to produce the future improved. of science and technology, but science and technology al-ready lost the motive power to produce the future images. What could be clues for us, architects, for our wings of imagination to fly over to the future? When I was thinking of this, images of woods, and then, vegetables appeared in my mind. Instead of science and technology, vegetables could lead us to a new imaginary world. Thus, in 2009, the concept of Vogetables (Cituwas Born Cituwas Cituw

-- 20 --MISFIT (PARAKETT/MOLE)

{ Taxidermy }
Thomas Grünfeld - Artist, born 1956 in Opladen, Germany lives and works in Cologne, Germany - www.galeriemichaeljanssen.de

**Thomas Grünfeld's anomalous creations are some of the strangest and most surreal of contemporary taxidermy. The creatures from his appropriately titled Missit series are composed of bits and pieces of animals, all flawlessly sewn together to create entirely new species: a doberman pincher with a call's head, a beast combining monkey and parrot, another creature, part mule, part graffer, part ostrich. The Missits are reminiscent of early natural histories in which strange and unfamiliar animals were described according to the bits and pieces of well known creatures. The Missits could have seemed jerry-rigged together. They could have looked piecemeal and man-made (which of course they are) but instead the structural integrity of their parts convey a sense that these beasts are anatomically plausible, that they could actually exist, that they could actually function. **

— 21 — TREE REVOLUTIONS

{ Photography } Ilkka Halso - Photographer, artist, born 1965 in Orimattila, Finnland; lives and works in Orimattila, Finnland - ilkka.halso.net/

»Making nature obey man's will has been central in the »Making nature obey mans will has been central in the history of mankind. Ability to guide growth of living things has provided us many important food sources, but has also shown its darker side in animal breeding and genetical ma-nipulation of plants. Growing trees into a full circle is prob-ably not the most urgent in line of research projects, but makes one think or...Not? «

GARDEN BUILDING WITH HOST AND NECTAR PLANTS FOR CALI'S BUTTERFLIES

{Film}
Husos (Diego Barajas and Camilo García) with Francisco
Amaro - Platform for spatial interventions and research
projects in architecture and urbanism, based in Madrid,
Spain - www.husos.info

Spain - www.husos.info

*The GBHNPCB houses living, production and retail space
for TallerCroquis, a small design atelier in Cali. At the same
time it works as a biometer, by means of hosting and feeding butterflies, which are effective bioindicators of the
environmental quality and biodiversity of the local ecosystem and are particularly important in this region that
has the greatest diversity of butterflies on the planet. It
also serves the business as an indirect marketing strategy forming part of a spatial exploration of a multifarious
Caleño identity for the atelier, which is faced with the challenge its expansion entails, both locally and transnationally. Through hists of local host and nectar plants written
on product's labels and information campaigns about the
importance of preserving the urban biodiversity, it fosters
a potential network of environmentally aware citizengardeners in Cali. «

STRANDBEEST

»Legs prove to be more efficient on sand than wheels. Wheels have to work their way through the sand and shift relatively more of it as a result. Try pulling a cart through loose sand and it's hard work. The advantage of wheels, however, is that they don't lurch; their axle is at a constant height, which saves energy. But the legs of the strandbeest have this same advantage; they don't lurch either. The upper and lower leg parts move relative to one another in such

LIVING DRAWING

{ Film, Image and Modell }
Christian Kerrigan - Digital artist and architect; lives and works in London, United Kingdom
- www.christiankerrigan.com

STUDY MODELLS

»Greg Lynn, who graduated with degrees in Architectur

and Philosophy, is distinguished for his use of computer-aided design to produce irregular, biomorphic architectural forms, as he proposes that with the use of computers, calculus can be implemented into the generation of architectural expression. Lynn has written extensively on these ideas. Lynn's latest works begin to explore how to integrate struc-ture and form together as he discovered some biomorphic forms are inherently resistant to load. He is also one of the forerunners in exploring and integrating the tools of digita

_ 26 _ EI-POD

{ Sculpture }

Ton Matton – Urban planner and artist; born in 1964; lives and woks in Wendorf, Germany – www.mattonoffice.org

#I am the Old-World Flycatcher
and I am a looser,
not a fashionable cosmopolite
just a conservative. From the countryside.
When I return from the warm south,
there is nothing left to eat,
except some left overs of fadded flowers and tough seeds.
I am the Rose-Ringed Parakeet
and I am a real winner.
I escape from your warm loft
to go out for dinner.
Outside it is as warm as in Amazonas.
I don't eat nuts, I prefer the leftovers from McDonald's.
People say the city is no good for nature,
but I don't agree, it is a matter of helaviour.
If you earn your money with emissions on stock exchange,
why shouldn't I be the winner of climate change?
The winner takes it all
the looser standing small*

-- 27 --LEVEL GREEN

{ Modell } jürgen Mayer H. - Architect, born 1965 in Stuttgart, German

»The offices of J. Mayer H. Architects and Art - Com Berlin were commissioned to develop the permanent exhibition Level Green on the topic of sustainability for the Autostadt in Wolfsburg, Germany. The architectural design of the exhibition takes the numerous interdependencies of the topic as a starting point and translates this quality into the metaphor of the web. Similar to a continuous organism, the single elements of the exhibition are connected into one homogenous structure that houses all content and technical installations. As one of the first prominent signs of the growing consciousness for environmentally friendly consumption, the well known PET-sign was taken as a starting point from which the metaphor of the extensively branched web was developed. This originally 2-dimensional sign was extended into the third dimension and through a series of step by step manipulations a complex and through a series of step by step manipulations a complex structure was created, which allows for an abstract property of the topic to be experienced on a spatial level.«

— 28 — **CHLOROPHYLL SKIN**

{ Film }
Lucy McRae - Artist, designert; lives and works in sterdam, The Netherlands - www.lucymcrae.blogspot.com

RESPONSIVE SURFACE **STRUCTURE**

{ Modell and Film }
Achim Menges - Architect, born 1975;li gart, Germany - www.icd.uni-stuttgart.de

»Wood differs from most building materials in that it is a nificant differentiation in its material makeup and structur as compared to most industrially produced, isotropic mate as compared to most industrially produced, isotropic materials. Upon closer examination wood can be described as an anisotropic, adaptable, natural fiber system. Because of its differentiated internal capillary structure wood is also hygroscopic. It absorbs and releases moisture in exchange with the environment and these fluctuations cause differential dimensional changes. This project investigates alternative design strategies that aim at understanding wood's differentiated material make up as its major capacity rather than a deficiency. Utilizine wood's intrinsic material charactera deficiency. Utilizing wood's intrinsic material character have this same advantage; they don't furch either. The upper and lower leg parts move relative to one another in such
a way that the hip joint (at the juncture with the upper leg)
remains at a constant height, just as with the ask le of a wheel.
But they don't have the wheel's disadvantages; they don't
need to touch every inch of the ground along the way, as a
wheel has to. Legs can leave out patches of ground by stepping over them. Which is why you can better have legs than
wheels on sandy ground. «

defeciency. Utilizing wood's intrinsic material anacterisities a surface structure latter response to remoints or mestructure. But they don't have the wheel of disadvantages; they don't
need to touch which is why you can better have legs than
wheels on sandy ground. «

-30 -PRINZESSINENGÄRTEN

»Living Drawing is a film using 'Living Technology' as a "Nomadisch Grün (Nomadic Green) launched 'Prinzessinano-scale are captured through high powered microscopic zoom. The 'Living Technology' in the film is a programable cell which exists by manipulating organic chemistry in order to create a program of movement. The recording monitors the 'droplets' movement within a fibre glass land scape. The movement initiated by the artist using UV light activates the spontaneous drawing process. Kerrigan's work

duction, biodiversity and climate protection. The space will help them adapt to climate change and learn about healthy eating, sustainable living and a future-oriented urban life-style. With this project Nomadisch Grün intends to increase biological, social and cultural diversity in the neighbourhood and pioneer a new any of living together in the city.

AUTONOMOUS OBJECT 01

Anton Markus Pasing - Architect, artist; born 1962 in even an der Ens, Germany; lives and works in Münster, Germany - www.remote-controlled.de

No Sense No Function

EDIBLE ARCHITECTURE NEURONAL AND PHYSIOLOGICAL STIMULATIONS AS ARCHITECTURE

No Context

No Gravity«

{ Object } **Phillipe Rahm** - Architect, artist; born in 1967; lives and works in Paris, France - www.philipperahm.com

» Edible Architecture focus on the perception of the temperature related to the stimulation of the different neuronal ionic channels and how we could for example compensate a high temperature by a direct activation of the ionic channel TRPMB involved in the transmission of the cold temperature with some chemical molecule like menthol. Our product, a candy called -15 and fer facheurs, contained mint, which has molecules of crystalline origin known as menthol that cause the same sensation in the brain as the coolness perceptible at a temperature of 15°C. The menthol activates the TRPMB (transient receptor potential) molecular sensory receptors on the skin and in the mouth that stimulate the group of peripheral sensorial neurons known as cold-sensitive units. The traditional field of architecture thus contracts, operating on the gastronomic scale, breaking down the barriers between internal and external, body and space, neurology and physiology. «

_ 33 _ LIST(EN)ING

{ Film and Image }

Francois Roche - Architect; born 1961 in Paris, France
lives and workes in Paris, France

»Ecology is not linked to natural rights Ecology is not a contractual right, Sustainable development is oxymora, Ecology cannot be used as the substitution of the death of Stalinism, Ecology cannot be used as a new propaganda of slaviness,

Ecosophy accepts the house as in the propagation of slaviness,

Ecology cannot be used by post capitalism, to sell items by oriented subjectivity.

Ecology is not a passeist dream, not a retro-futur, Ecology cannot be reduced by ecology, this word has been burned by green washing disease.

Ecosophy has been definitively substituted to ecology Ecosophy is politic

Ecosophy is neither a utopia phantasm neither a fatalism failure

Ecosophy accepts the human as it is not as he should be Ecosophy is hidden within a cabiner de curiosité

Ecosophy is not iminiation

Ecosophy is not miniation

Ecosophy is not miniaty

Ecosophy is not plagiary or copism

The best way is to follow the path of the unknown path, of the 'Holzweg' and incidentally to suicide Jean Nouvel. «

34 **MUSHROOM INSULATION**

{ Object }
Christiane Sauer - Architect, lives and works in Berlin,
Germany - www.formade.com

Germany www.formade.com

*Manufactured materials are getting replaced by materials that are literally grown. The power of nature is utilized to produce these insulation panels. Filamentous fungif (the roots of mushrooms) are growing on local byproducts from agriculture or cotton industry such as seed husks, buckweed hulls or cotton burns, thus bonding them into a strong and rigid board. The production process takes place without the input of significant heat, light or petroleum even in dark places. The final step in production renders the material biologically inert and stops the growing process. The result is a strong rigid board that contains no resins or glues. Due to ist porosity, it has excellent insulating properties and is fire resistant by nature without any additives necessary, It can be used as thermal insulation ir roofs or walls or even as acoustic insulation panels in the interior. The mushroom insulation can be produced close to the market it serves, using plants that are locally available as nutrition to the fungif. For instance the base material can be byproducts from cotr instance the base material can be byproducts from cotton industry in the US or from rice production in Asia. Local sources of raw materials also help minimize energy and costs for transport. After use, grown materials are basically reproducing themselves. By composting them they become a renweable source of nutrition for the next generation of plants Ihus the cycle of production, use and disposal is closed in the most natural and effective way. «

— 35 —

RAPID RE(F)USE
WASTE TO RESOURCE CITY 2120
{ Image }
Terreform 1 - Nonprofit Organization for Philanthropic with itecture, Urban and Ecological Design, founded 2006 in New York City, USA; based in New York City, USA

"New York City is disposing of 38,000 tons of waste per day. Most of this discarded material ended up in Fresh Kills landfull before it closed. The Rapid Re(f)use project supposes an extended New York reconstituted from its own landfull material. Our concept remakes the city by utilizing the trash af Fresh Kills. With our method, we can remake seven entirely new Manhattan islands at full scale. Automated robot 3d printers are modified to process trash and complete this task within decades. These robots are based on existing techniques commonly found in industrial waste compaction devices. Instead of machines that crush objects into cubes, these devices have jaws that make simple shape grammars for assembly. Different materials serve specified purposes; plastic for fenestration, organic compounds for temporary scaffolds, metals for primary structures, and etc. Eventually, the future city makes no distinction between waste and supply.

- 36 RIVERS IN MINIATURE

Film and Photography }
The Center for Land Use Interpretation - Research and a reconstruction: founded 1994; based in Los organization; founded 1994; b: Angeles, USA - www.clui.org This is a video transfer of a 16mm film made to describ

»This is a video transfer of a 16mm film made to describe the purpose and function of the Mississippi Basin Model, the largest Hydraulics model in the world. Built by the U.S. Army Corps of Engineers, and constructed continuously from the 1940s to the 1960s, it is a 12.000 scale physical model of the entire Mississippi River drainage basin, an area that represents almost half the landmass of the continental United States. Located outdoors in an open field outside of Jackson, Mississippi, it was built primarily to model the flood characteristics of the river, in order to aid in the design and placement of flood control structures. By the time the model was completed in 1966, the automation was complete, and the entire model could be run off a central clock. Water would flow through the model in proportionally compressed time and volumes. 15,000 miles of portionally compressed time and volumes. 15,000 miles of river channel were represented by 15 acres of interlocking sculpted concrete slabs, and one day lasted 5.4 minutes. An engineering marvel, and an unrivaled monument of minia-turization, the model is now obsolete, and lies abandoned and degraded to a point beyond repair - a relic from the and degraded to a point beyond repair - a rene from the apogee of the analog era. Despite this and other consider-able earthmoving efforts of the Army Corps, whose largest work was the Mississippi River, flooding continues.«

— 37 — **SOLAR THERMAL FLOWERS**

{ Modell and Image }

"The Why Factory - Think tank on urban futures, MVRDV together with Delft University; based in Delft, The Netherlands - www.thewhyfactory.com

*Ine Netherlands - www.thewhyfactory.com

*Imagine giant water lilies, floating in the sea off the coast of Thailand. Over the course of the day, they slowly open and close their blossoms, catching the sunlight and turning it into valuable, clean energy that feeds the coastal towns. The Solar Thermal Flowers are a beacon of a new green infrastructure that goes beyond bio-mimicry and creates its own esthetics from nature's logics itself. It uses the known principles of solar thermal energy generation: the flowers blossom leaves are large mirrors that reflect the sunlight and focus it on an absorber in the middle of the structure. At the focus point, temperatures of 500 degrees Celsius and more can be achieved. Inside, molten salt is used as heat transfer fluid, transporting the captured heat into the base of the flower. Here, gas turbines are transforming the heat into electricity, which is brought to the coast by undersea cables. The solar thermal generation of energy is different from photovoltale techniques. PV cells directly generate electricity, which is difficult and expensive to store. Solar thermal structures generate heat, which can be easily kept with little loss of energy. With good insulation, the molten salt can hold its heat for several days, allowing the flowers to reliably provide electricity also during night and on overcast days. Underneath the large blossom leaves, there are artificial beaches, restaurants and even hotels. The newly created biotope becomes a tourist attraction celebrating a New neial beaches, restaurants and even hotels. The newly cre-ated biotope becomes a tourist attraction celebrating a New Green that ignores any notion of artificial versus naturals, that is large and visible, economic and effective and that amazes with its beauty.«

- 38 -TROPICAL

{ Modell }
Triptyque - Architectural firm; founded in 2000; based in Sao Paulo, Brazil and Paris, France - www.triptyque.com

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— 39 — **EXTREME PROSTHESIS**

»Its labyrinthine, steel filaments mesh together like root

»Its labytinthine, steel filaments mesh together like roots of an overgrown tree. Mechanical elements bulge from decrepit structures. Naked pipes wrap around each other in bondage. Loose wires, rusted steel panels, chipped paint, and layered walls capture the essence of the city. Extreme Prosthesis embraces the irrevocable change of reality by enhancing abilities and providing new experiences. A symbiotic relationship between organic entity and machine must be developed in order to accomplish this. Only then can the changes once considered adversity, be seen as opportunity and possibility. portunity and possibility.«

SPECIMENS OF UN NATURAL HISTORY

{ Taxidermy }
Liam Young - Architect, designer; born 1979 in Australia;
lives and works in London, United Kingdom
- www.tomorrowsthoughtsoday.com

»Now, as we stalk the savannas of science fiction, robotics and neo-biological invention we are beginning to encounter the novel reality of engineered 'monsters'. Throughout history we have always invented monsters and myths as our way of coming to terms with phenomena we don't quite understand. They are fictional tales of the natural world but at the same time they chronicle the dreams and anxieties of the everyday. With these stuffed and mounted specimens from a new bestiary of unnatural history we see the speculative offspring from the interbreeding of biology and technology. These monsters may be hopeful inventions or unexpected by-products, wondrous possibilities or dark cautionary tales of a day that is already here.«

The Imaginarium. A Theater for Constructed Ecologies is part of the exhibition Examples to Follow! Expeditions in Aesthetics and Sustainability curated by Adrienne Goehler.