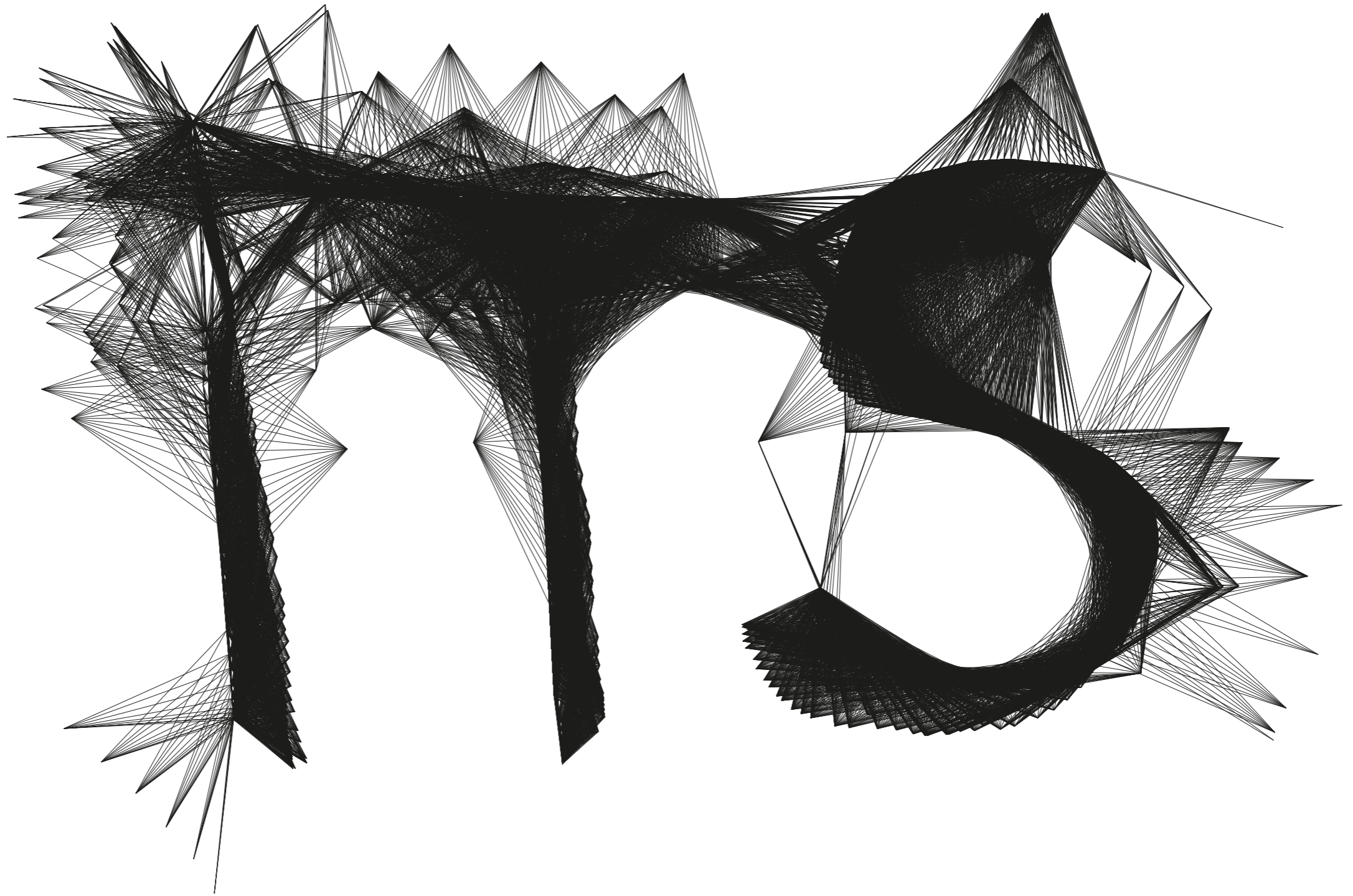


lucid dream diary



I WILL HAVE A LUCID DREAM

I WILL HAVE A LUCID DREAM

I WILL HAVE A LUCID DREAM

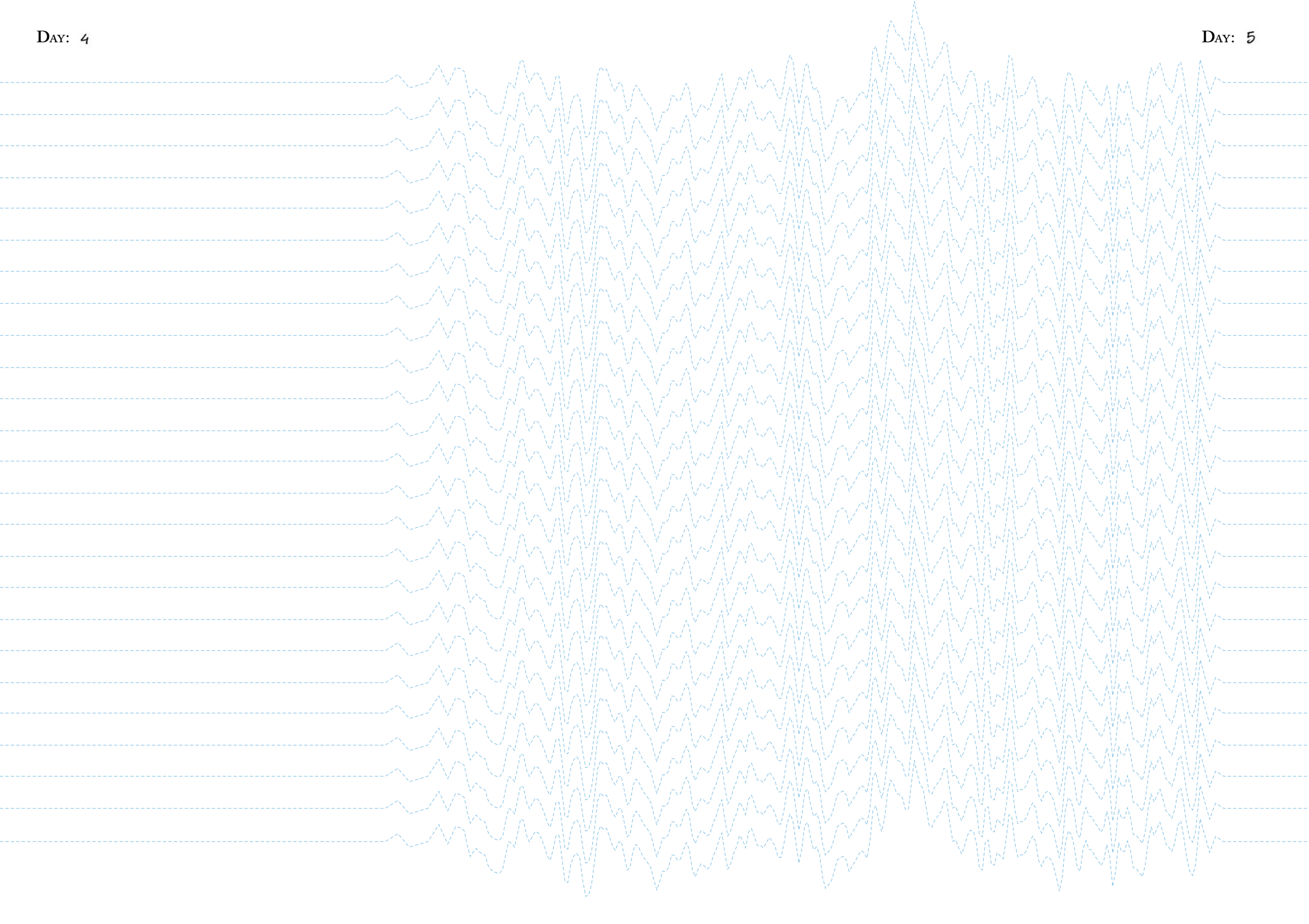
I WILL HAVE A LUCID DREAM

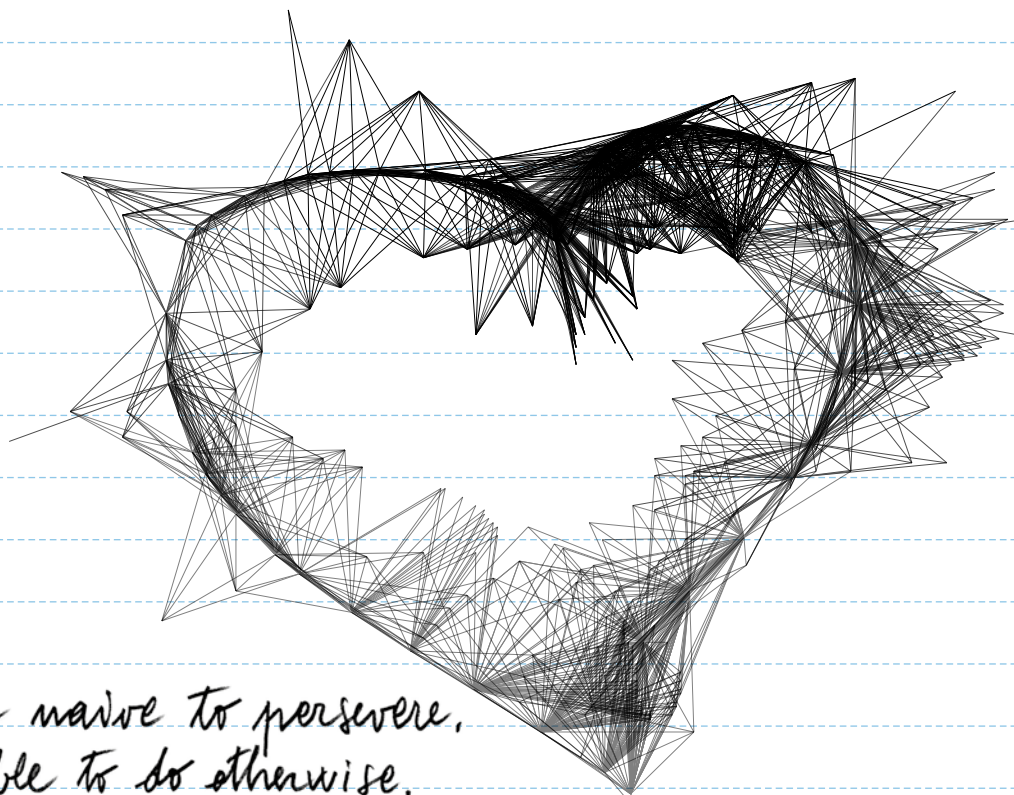
I WILL HAVE A LUCID DREAM

I WILL HAVE A LUCID DREAM

DAY: 4

DAY: 5





*It might be naive to persevere,
I was not able to do otherwise.
This is my lucid dream.*

Barbara Franchin
(Director and Project Supervisor ITS)

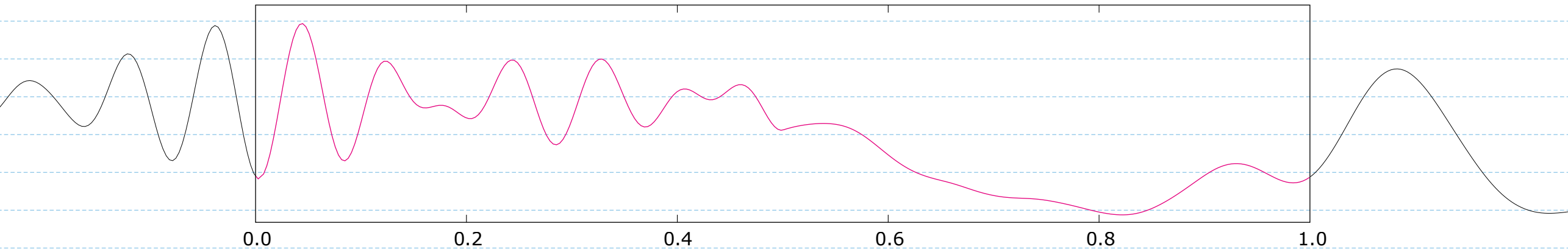


DREAM CHARACTER 1

Renzo Rosso
(President - OTB)

He says:

*Fostering creativity - especially
young talents all over the world -
must be our commitment to
the present and our legacy
for the future.*





DREAM CHARACTER 2 **Roberto Cosolini**
(Trieste City Mayor)

He says:

The idea of Lucid Dream somehow links the unbelievable to reality and this image well represents the story of ITS: a lucid dream that Barbara and her team have lived, nurtured and transformed into such a fascinating reality that the ITS night - which I have already defined magical - takes us into a suspended dimension, right on the border between dream and reality.

As Mayor I have a dream for this town too: I want it to be internationally attractive, to be the place where talents grow and measure themselves.

This is why the dream of ITS is closely connected to my dream.

As Valery said "The best way to realise one's dreams is to wake up".

We must believe in our dreams but, most importantly, we must realise them.

DREAM CHARACTER 3

Debora Serracchiani
(President of the Friuli Venezia Giulia Region)

She says:

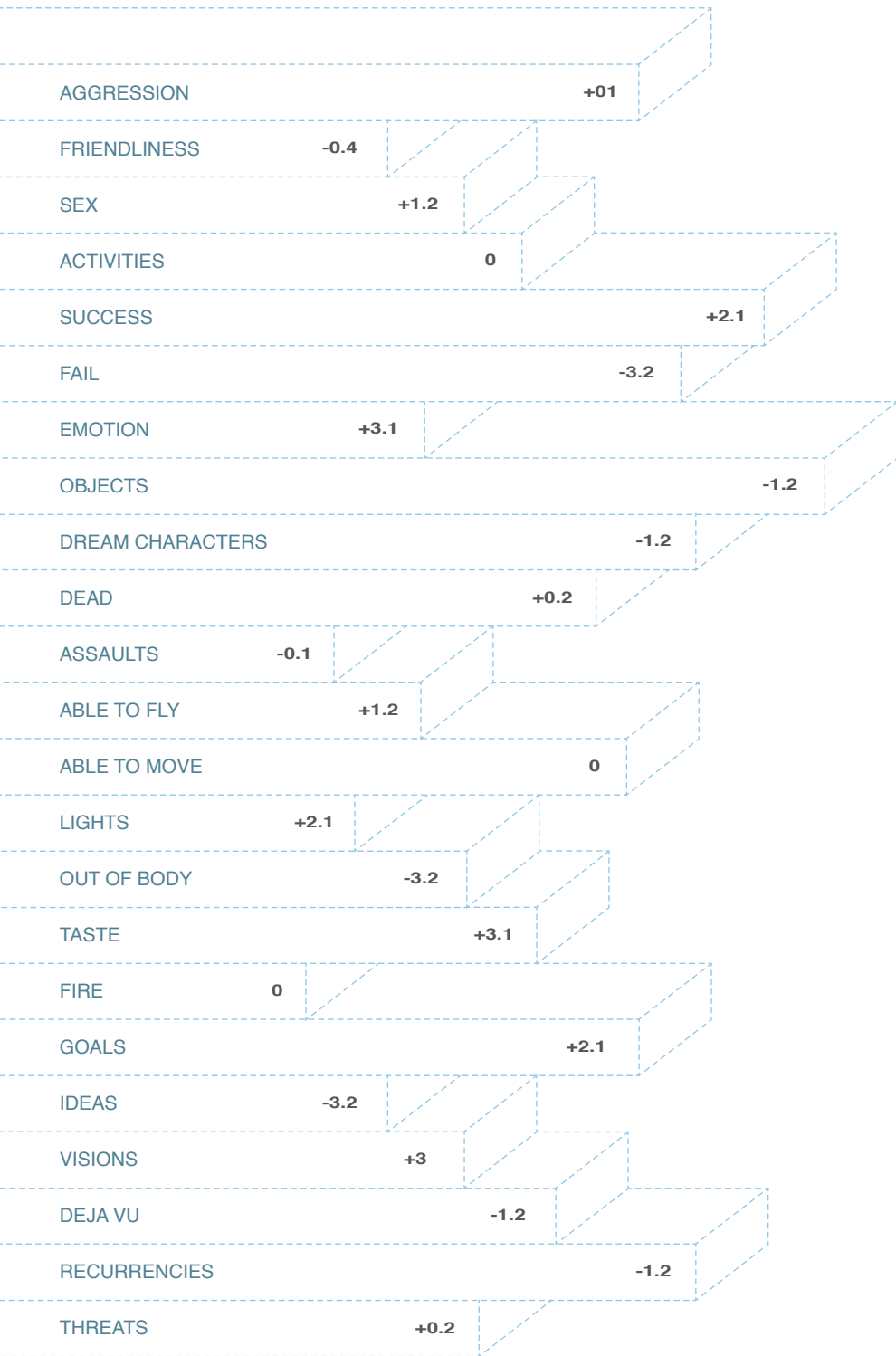


Italy is a country admired for its advancement, in style and culture, for the huge artistic and landscape heritage, for its know-how, expressed in manufacturing and craftsmanship, in wine and food tradition, in the ability to disseminate its values all over the world.

And it is precisely from such awareness that Italy may restore its faith in the future, and this is also true for Friuli Venezia Giulia and for Trieste in particular. The duty of politics, of those who manage the common good, is to discover and support those vital energies that the social and economic collectivity is able to express.

In this vein, the work carried out by International Talent Support is a true case in point. In the field of fashion ITS sums up precisely the values related to know-how, innovation and style for which our country has always stood out. Through ITS, Trieste confirms and renews its historical vocation of a merchant city, European and international, opening its doors to the future.

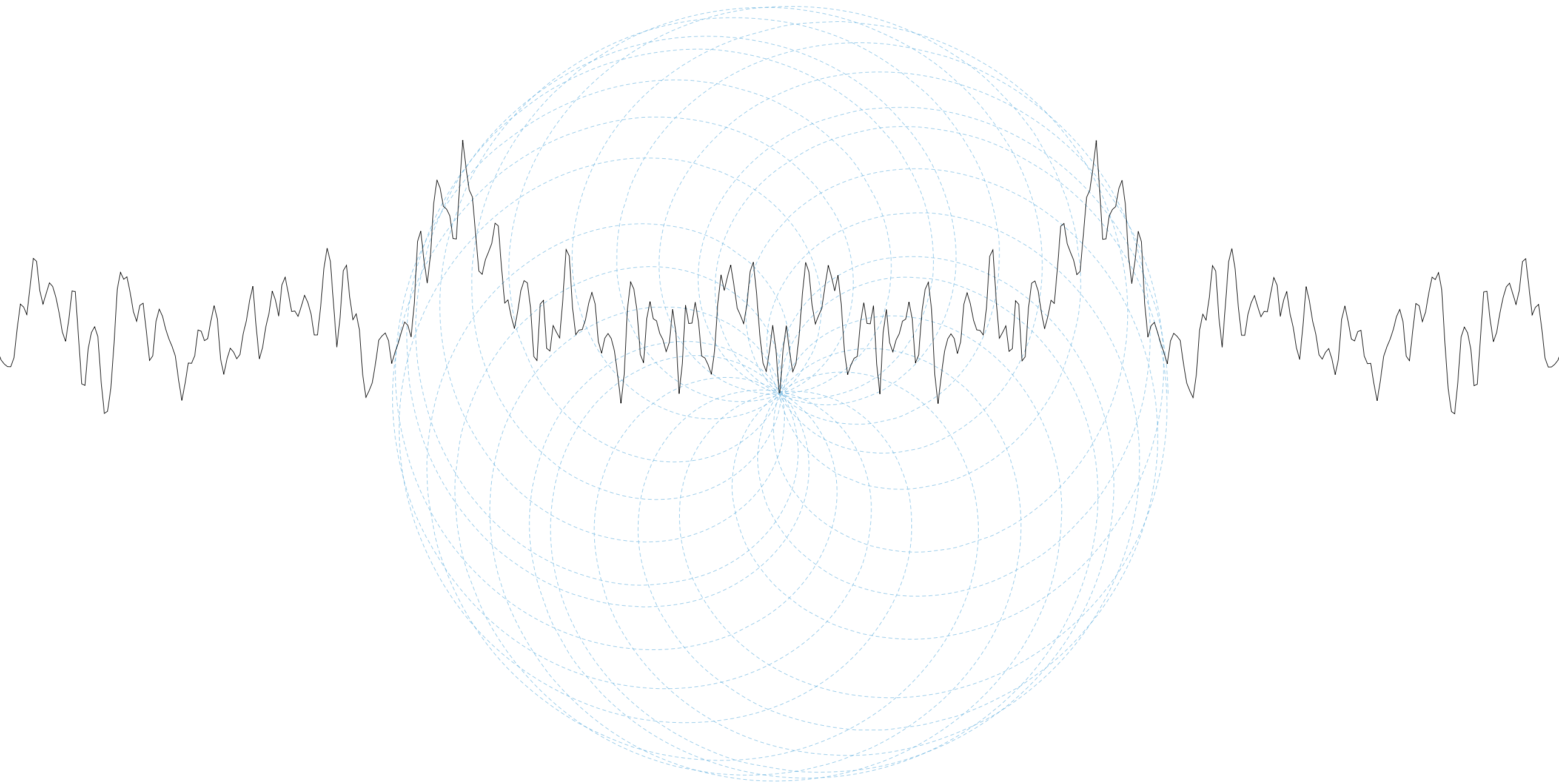
To all young talents who take part in the 2014 edition of ITS I wish to live in Trieste an unforgettable experience, a unique opportunity to assert their creativity.



International Talent Support

11-12 July 2014

Trieste, Italy.



I:FASHION

I:FASHION

DREAM CHARACTER 4

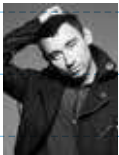
Nicola Formichetti
(Diesel Creative Director)

He says:

At ITS 2014, our message of "lucid dreams" is about the duality of today and tomorrow, and the crystal clear focus of our new generation who are making their wildest dreams a tangible reality.

I'm looking for fashion designers who are building a unique aesthetic language through their clothes and beyond. I want to feel a genuine passion for their creation, and a touch of the absurd. I would also like to see jewelers with refined concepts who are realizing their ideas with modern techniques, and accessory designers who can construct pieces with the right balance of fantasy and utility.

For a designer starting out in any creative industry, to dream and create your own world is the single, most important thing. It is still what I strive to do at DIESEL for every collection, at every shooting, and with the birth of each new idea.



ITS FASHION is an international competition for fashion design students and young designers.

In thirteen years over 480 young fashion talents have received support and visibility. This year 10 finalists - each with their own personal vision and story to tell - were selected from over 700 fashion entries.

It is a bridge stretching between schools and the fashion industry leading directly to internships and work opportunities at Diesel, Viktor&Rolf, Maison Martin Margiela, Saint Laurent, Christian Dior, Vivienne Westwood, Raf Simons, Marni, Lanvin and many more.

The finalists are required to present a main collection - often they are final year students and this is their graduation project - which will be presented catwalk to all the ITS 2014 guests during the final evening on Saturday July 12th. A strong contribution to the ITS support philosophy is given by the prizes offered by our partners and supporters.

FASHION COLLECTION OF THE YEAR gives the winner the opportunity to present a new collection at ITS 2015 with a dedicated fashion show, together with the privilege of being part of the jury. All expenses, production and organisation of the show will be covered by EVE who will also give the winner €15,000 towards the development of the new collection.

Diesel has been with ITS from the very beginning. Thirteen long and intense years backing and supporting ITS, making it big and well-known. The **DIESEL AWARD** aims to ensure that fashion students' dreams become a reality by offering them the most tangible way to support their breakthrough into the international fashion scene, with a cash prize of €25,000 that the winner can use to promote their work in the best possible way. On top of that, the winner will be offered an internship within the Diesel Creative Team at its HQ in Italy and discover all the secrets of working in a unique, innovative and international fashion environment. To compete for the **DIESEL AWARD**, fashion finalists were asked to develop a brief inspired by Diesel Artistic Director Nicola Formichetti. All outfits will be showcased on the ITS 2014 catwalk.

THE FASHION SPECIAL PRIZE is a cash prize amounting to €5,000 offered by EVE taking into consideration pure creativity only.

Eyes on Talents is pleased to present the **EYES ON TALENTS AWARD**. All ITS 2014 finalists will be invited to create their profile on the platform and either one fashion or one accessories finalist will be selected for the Eyes on Talents Award. The winner will receive €3,000 and featured profile communication to all Eyes on Talents member brands.

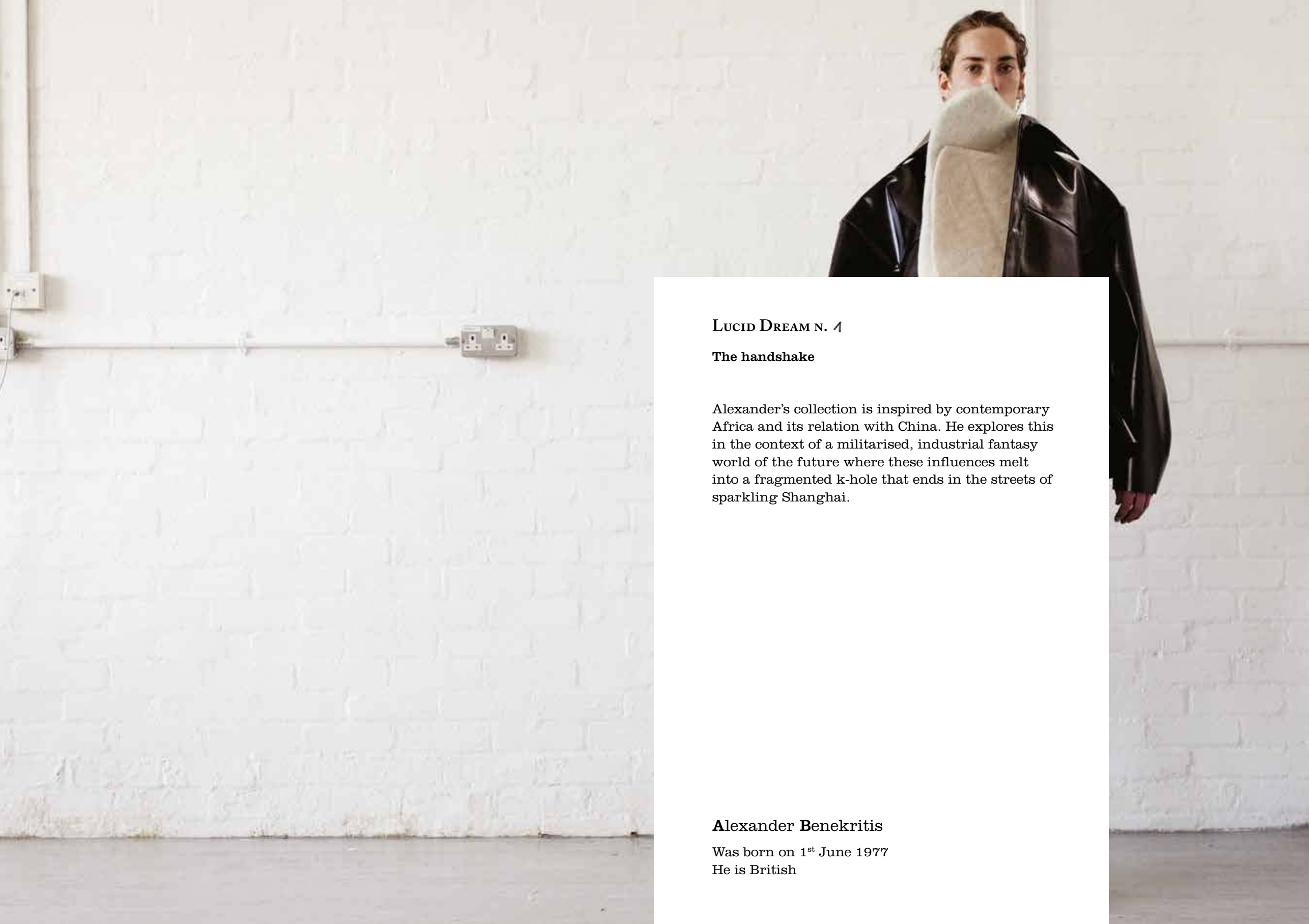
The Italian Fashion Council, the non profit making Association which disciplines, coordinates and promotes the development of Italian Fashion, will be very glad to offer the **CAMERA NAZIONALE DELLA MODA AWARD**, a prize of €2,500 for the winner + a 6-month internship at Trussardi.

Vogue Talents, is the media partner of ITS 2014 and will offer the **VOGUE TALENTS AWARD**. The Award will consist of the publication within 2014 on the Vogue Talents website of a photoshoot & interview, plus a feature in the September supplement to Vogue Italia.

The **MODATECA AWARD** will assign €3,000 to the most interesting knitwear collection and invite the winner for a visit to the unique Modateca Deanna Archive.

SHOWstudio.com, the award-winning fashion website founded and directed by Nick Knight, will award the chosen fashion designer with the opportunity to create a SHOWstudio fashion film. The featured garments will be made available for sale in the SHOWstudio Shop.





LUCID DREAM N. 1

The handshake

Alexander's collection is inspired by contemporary Africa and its relation with China. He explores this in the context of a militarised, industrial fantasy world of the future where these influences melt into a fragmented k-hole that ends in the streets of sparkling Shanghai.

Alexander Benekritis

Was born on 1st June 1977
He is British





LUCID DREAM N. 2

Obnoxious

The collection is based on the leather biker jacket and box construction. She explores and amalgamates the two to form a collection of oversized and heavily layered looks in order to create an obnoxious attitude and silhouette. Zoe adds multiple zips within some of the outerwear pieces to give them the option of becoming a different jacket, or to be laid completely flat, much like an open cardboard box.

Zoe Waters

Was born on 2nd February 1987
She is British





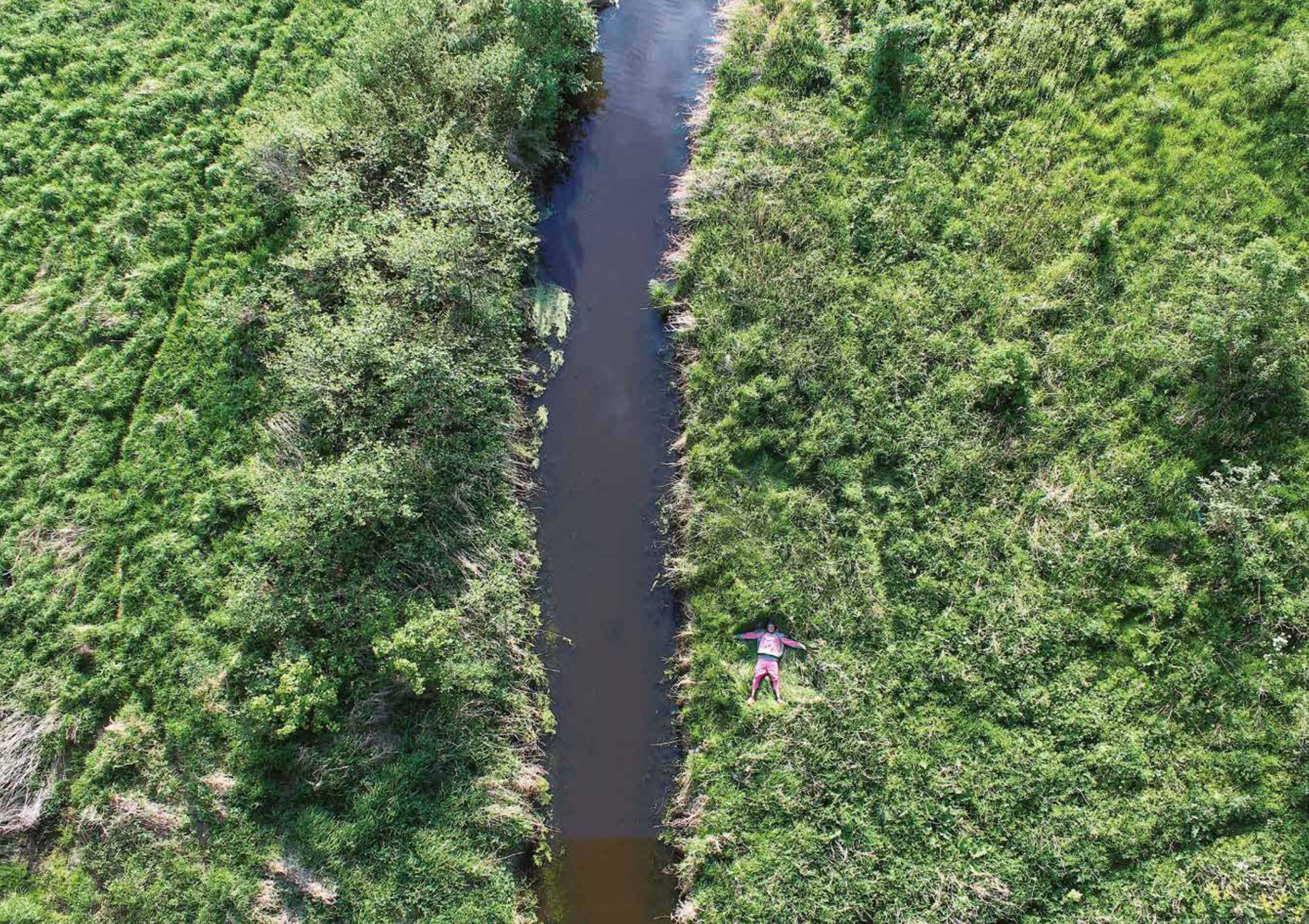
LUCID DREAM N. 3

Untitled

Anita's collection is about taking traditional elements and making them contemporary. She wanted to explore embroidery using an antique needle sampler as inspiration, where the reverse looks like an artistic drawing. This unexpected work made her think of using embroidery to evoke emotions about the quality of human handicraft, contrasting it with a clean silhouette developed using modern materials and juxtaposing glamour and comfort

Anita Hirlekar

Was born on 31st August 1986
She is Icelandic



An aerial photograph of a narrow river or stream winding through a lush, dense green forest. The water is dark and reflects the surrounding foliage. The trees are a mix of deciduous and coniferous, creating a rich texture of green. The river flows from the top center towards the bottom of the frame.

LUCID DREAM N. 4

Bunnies with the sea

Anna researched Nordic traditional fashion keeping a humorous side to it. In her menswear collection knitting and felting invade the clothes like a northern wind gust: colours blur, materials combine and a new view on garments that appear classical is created. A question remains: perhaps it just represents a silent cry for love?

Anna Bornhold

Was born on 9th August 1982
She is German





LUCID DREAM N. 5

Synch

Katherine developed a linking technique through which she can engineer fabric and form through the repetition of a single unit, reflecting the collision of mathematical and natural phenomena that influence her work. Laser-cut pieces create fabric structures resembling moving biomorphic forms. An imagined, geometric animal skin that changes colour with movement at the will of the woman, enabling her to stand out or blend into her surroundings as she desires

Katherine Roberts-Wood

Was born on 21st March 1986
She is British





LUCID DREAM N. 6

Coding non stop

Alison's collections are always inspired by the fabric she creates. Using the material as the starting point she tries to process various beads, fringes and tassels to create whole new fabrics: the work engineered. Often very organic and creature-like shapes can be seen in her work. This is not intentional, though something that is always there. Before fashion design Alison studied at a medical school in Taiwan, working in a cancer centre for about four years. This experience has inspired her work.

Alison Tsai

Was born on 6th September 1981
She is Taiwanese





LUCID DREAM N. 7

Tokyo hard work style

Yasuto's collection starts from the Japanese cultural and historical background, precisely from the style of the hard working businessmen's outfit. His challenge was to develop it into something that can be considered cool in fashion, creating a strong look for a man who is doing his best to take care of his family and survive. This is a collection for those who have a sense of humour as well as for those who respect their hard working fathers.

Yasuto Kimura

Was born on 2nd February 1987

He is Japanese





LUCID DREAM N. 8

Dis. connect

Jae Woo Lee draws upon her early art education - Jae started painting and drawing classes at the age of nine - to present a collection with ripped double-face wool, geometric cuts and thick stitching. Torn, hand-finished shapes are joined with web-like, pop-hued topstitching and each dress hangs from the body with a geometric, 3D form that is also a wearable piece of art.

Jae Woo Lee

Was born on 1st February 1982
She is South Korean





LUCID DREAM N. 9

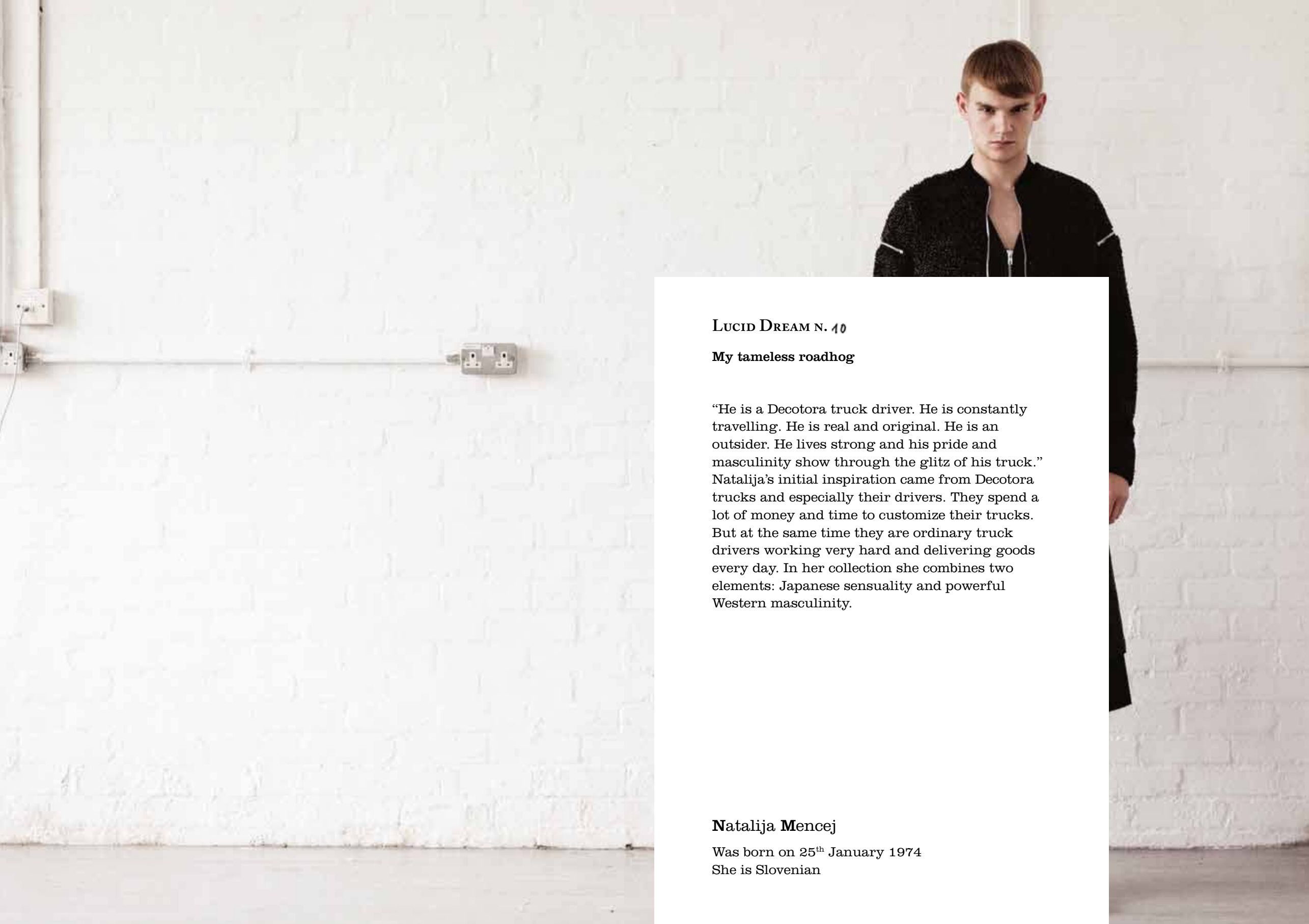
I is an other

Leonie's collection starts from a quote from Jean-Paul Sartre's play "No Exit" (Estelle: "I feel so queer, don't you ever get taken that way? When I can't see myself I begin to wonder if I really and truly exist. I pat myself just to make sure, but it doesn't help much") and continues with Jacques Lacan's "Mirror Stage" and the resulting idea that our mirror image completes our identity. Her clothes develop through the reflection of their own image. Missing parts are added and existing parts are reflected to create completeness.

Leonie Barth

Was born on 15th October 1987
She is German





LUCID DREAM N. 10

My tameless roadhog

“He is a Decotora truck driver. He is constantly travelling. He is real and original. He is an outsider. He lives strong and his pride and masculinity show through the glitz of his truck.” Natalija’s initial inspiration came from Decotora trucks and especially their drivers. They spend a lot of money and time to customize their trucks. But at the same time they are ordinary truck drivers working very hard and delivering goods every day. In her collection she combines two elements: Japanese sensuality and powerful Western masculinity.

Natalija Mencej

Was born on 25th January 1974
She is Slovenian





LUCID DREAM N. 11

The body by Hanchul Lee

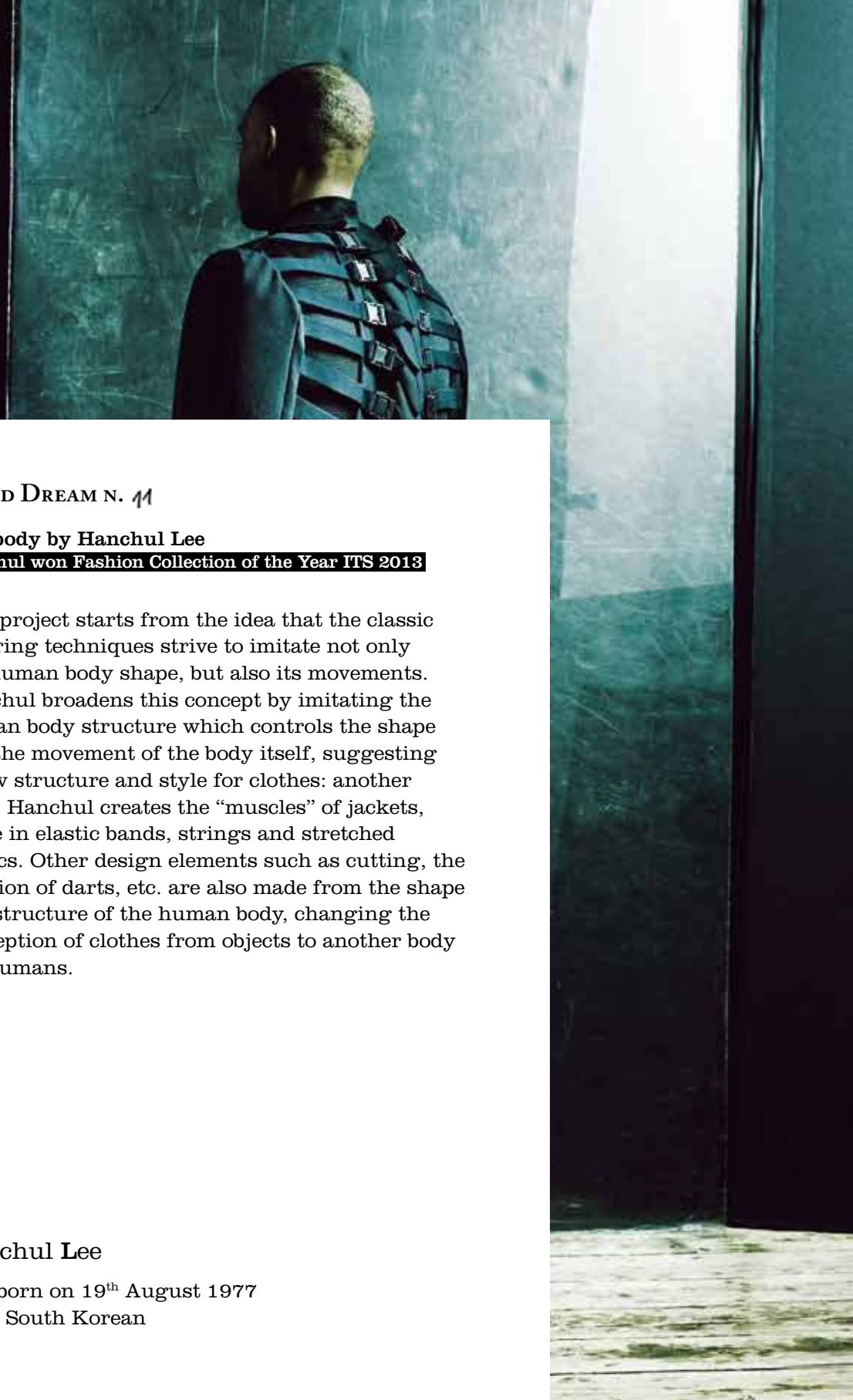
Hanchul won Fashion Collection of the Year ITS 2013

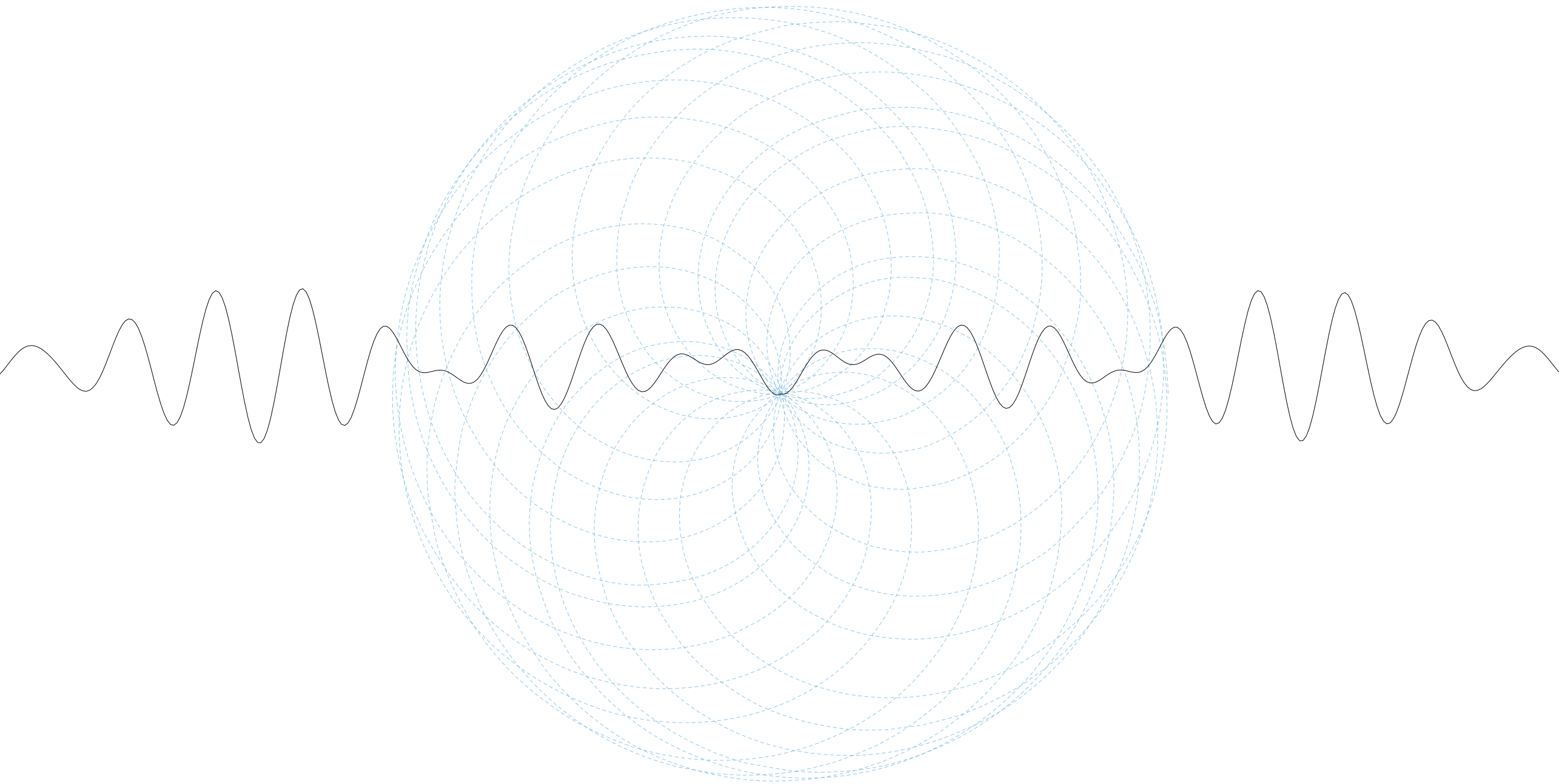
This project starts from the idea that the classic tailoring techniques strive to imitate not only the human body shape, but also its movements. Hanchul broadens this concept by imitating the human body structure which controls the shape and the movement of the body itself, suggesting a new structure and style for clothes: another body. Hanchul creates the “muscles” of jackets, made in elastic bands, strings and stretched fabrics. Other design elements such as cutting, the position of darts, etc. are also made from the shape and structure of the human body, changing the conception of clothes from objects to another body for humans.

Hanchul Lee

Was born on 19th August 1977

He is South Korean





II: ACCESSORIES

II: ACCESSORIES

DREAM CHARACTER 5

Kei Kagami
(Fashion designer and YKK Consultant)

He says:



Since YKK became partner of ITS in 2005 we were never disappointed by the event. We are proud of the fantastic relationship we have built together and are sincerely honoured to be here again for ITS 2014. We very much look forward to discovering the lucid dreams of this new generation of talents coming from all over the world.

In regards to the YKK Award, I must confess that settling on a winner is getting harder. The main reason is that the finalists are taking this award more and more seriously and the standard of their work is rising accordingly. I believe that if we were to consider just the quality in the production of their pieces it would be impossible for us to compare or judge and decide which one is the best.

However, in deciding the YKK Award Winner, elements such as creativity and imagination work as barometers for us and I'll take into consideration how interestingly and efficiently the function of the YKK products is applied in the projects. Finally, I would like to apologise to the finalists who will not receive the YKK Award.

Thanks to the strong commitment of YKK, we created **ITS ACCESSORIES** nine years ago. It is a natural extension of ITS to give a more complete overview on the most creative young talents in fashion with a dedicated contest for all accessories design graduates and young accessories designers.

The competition allows YKK to explore the out-of-the-ordinary creations that can be produced with their fastenings. YKK participated actively by inspiring a creative, original and technically advanced use of YKK products, turning them into the key element of the applicants' accessories. This year 10 finalists were selected from applicants from 63 countries who applied their creativity in virtually all areas of accessory design.

Each accessories finalists will showcase a main collection - often this is the graduation project for their final year at school - and the prototype of the Special Project developed for YKK, which makes use of a fastening product supplied by any member of the YKK Group of Companies. YKK encouraged the use of their Excella®, Excella® Blade, Excella® Curve, Vislon® Flat and FlexFix®, Plancer®, sewing buttons from Snaps & Buttons range. During the selection YKK evaluated the designer's ability to enhance an accessory in an original and technically-advanced way by using a YKK fastening system, as well as the ability to use a YKK fastening system as the main factor to enhance the overall quality and look of an accessory.

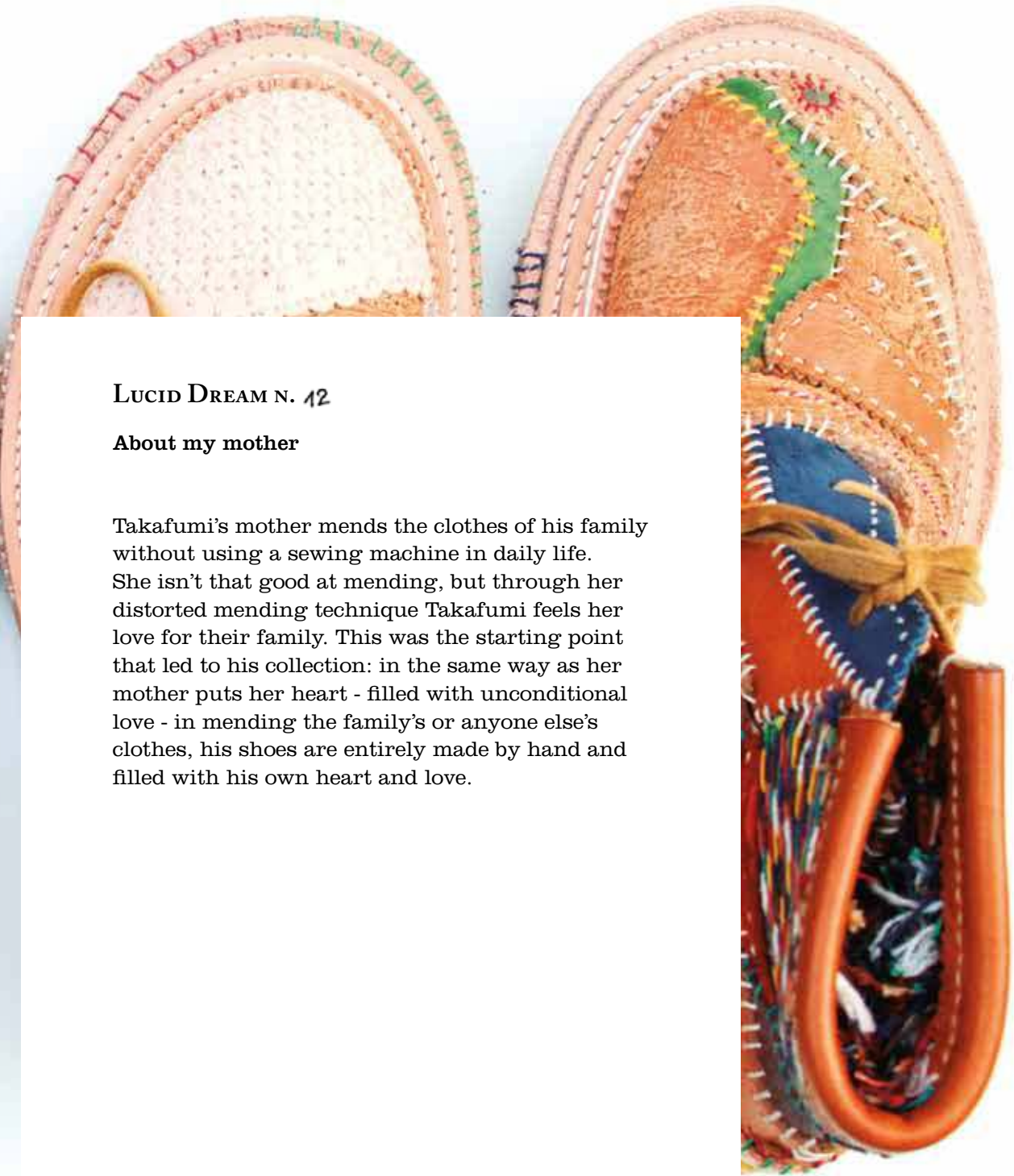
The winner of **ACCESSORIES COLLECTION OF THE YEAR** will be awarded €5,000 towards the creation of a new accessories collection of at least 5 pieces which will be presented to the press and public at the next edition in 2015. The finalist with the best YKK project will be awarded €10,000 and YKK may make use of the winning item in promotional advertising.

Eyes on Talents is pleased to present the **EYES ON TALENTS AWARD**. All ITS 2014 finalists will be invited to create their profile on the platform and either one fashion or one accessories finalist will be selected for the EYES ON TALENTS AWARD. The winner will receive €3,000 and featured profile communication to all Eyes on Talents member brands.

For the **MODAMONT AWARD**, the winner of the ACCESSORIES COLLECTION OF THE YEAR AWARD will be offered the chance by Modamont to run an exhibition of his/her creations at the next show in September 2014 and will be featured in the press release and website.

Vogue Talents is the media partner of ITS 2014 and will offer the **VOGUE TALENTS AWARD**. The Award consists of the publication within 2014 on the Vogue Talents website of a photoshoot & interview, plus a feature in the September supplement to Vogue Italia.





LUCID DREAM N. 12

About my mother

Takafumi's mother mends the clothes of his family without using a sewing machine in daily life. She isn't that good at mending, but through her distorted mending technique Takafumi feels her love for their family. This was the starting point that led to his collection: in the same way as her mother puts her heart - filled with unconditional love - in mending the family's or anyone else's clothes, his shoes are entirely made by hand and filled with his own heart and love.

Takafumi Arai

Was born on 15th May 1983

He is Japanese





LUCID DREAM N. 13

Senses - between

Rui is currently exploring the concept of crossover in senses and is specifically interested in a condition called synesthesia, a neurological condition where the stimulus to one sense can affect another or more senses. In addition, different types of sensorial information can be exchanged and received by our sensorial organs. As a non-synesthete, Rui attempts to capture what it is like to experience it. Her project basically wants to challenge our senses to perceive things in a different way, from a trans-perceptual perspective.

Rui Bao

Was born on 12th December 1988
She is Chinese





LUCID DREAM N. 14

Beginning

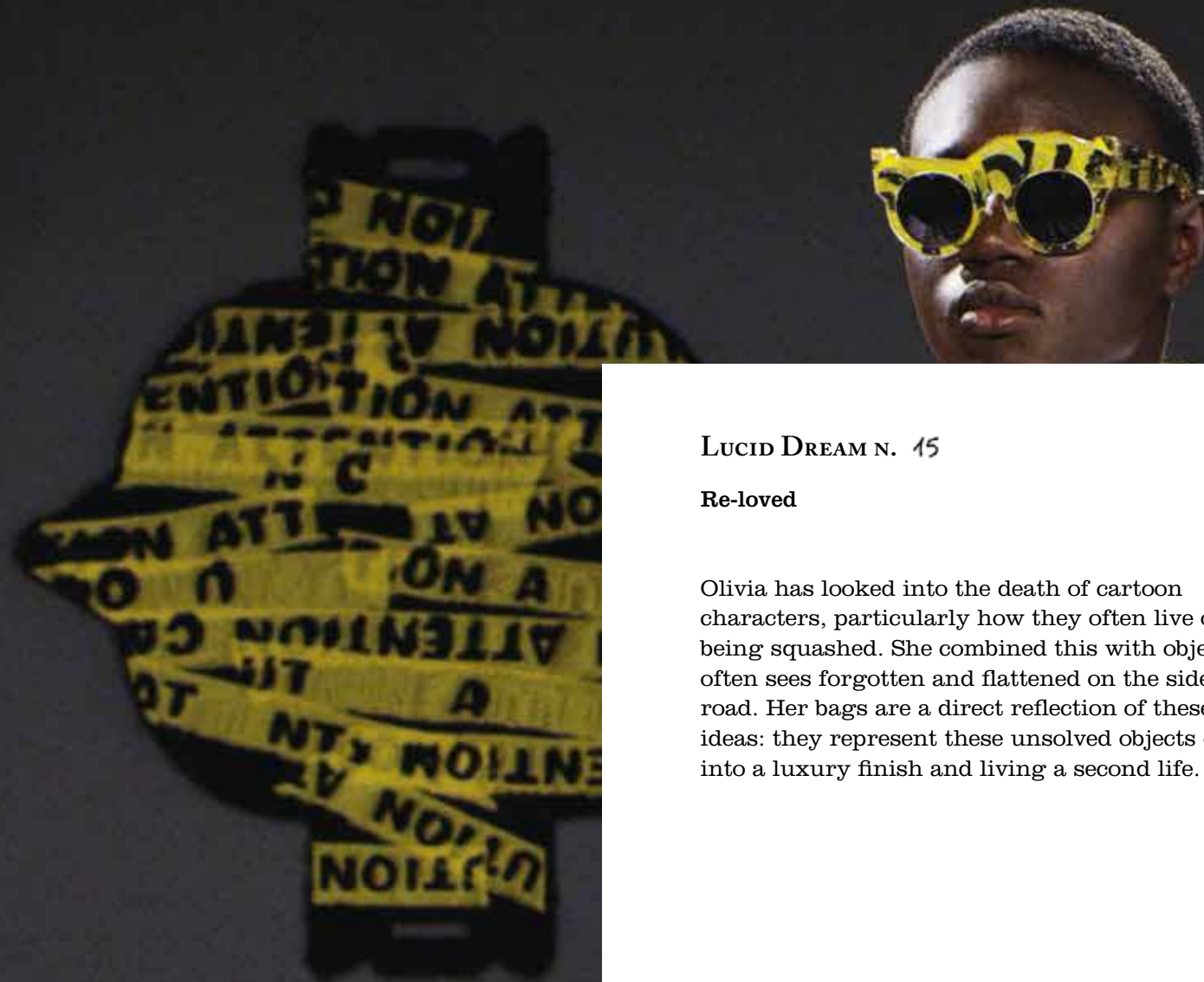
The consequences of a supernova - the death of a star - are many. One of these is the birth of a new star. Ivana wanted to apply this concept to her bags, trying to imagine the death of the bag and its aftermath. The question she asked herself is: how would a bag look like if I have to create it using today's technology and materials? What would it look like, having never seen a bag before?

Ivana Damjanovic

Was born on 30th May 1984
She is Serbian







LUCID DREAM N. 15

Re-loved

Olivia has looked into the death of cartoon characters, particularly how they often live on after being squashed. She combined this with objects she often sees forgotten and flattened on the side of the road. Her bags are a direct reflection of these two ideas: they represent these unsolved objects dipped into a luxury finish and living a second life.

Olivia Hanson

Was born on 22nd July 1988
She is British





LUCID DREAM N. 16

Conjoined illusion

This footwear project is based on mirroring, visual illusions and conjoined twins. Every pair consists of four carbon fiber soles connected in different ways. Visual illusions and mirroring are sometimes hard to understand for our brain. If we look at objects from different perspectives they appear to change shape, even though they remain the same. The intention of Carolin's designs is to confuse and capture the attention of the spectator for a while. She wants to challenge the eyes and the mind.

Carolin Holzhuber

Was born on 16th August 1989
She is Austrian





LUCID DREAM N. 17

Objects of enduring value

Using a combination of traditional and industrial manufacturing Mirja created artifacts that aim at encouraging the emotional value of everyday objects. Placed between the field of rapidly changing fashion and technologically driven mass-produced industrial design, her work is challenging both of these industries by trying to extend the lifespan of objects of everyday use. Putting together CNC milling and traditional craft, Mirja created shapes in tactile materials such as wood and vegetable tanned leather with the purpose of emphasizing tactile qualities.

Mirja Pitkaart

Was born on 18th September 1986
She is Estonian





LUCID DREAM N. 18

Outrospection; the body and mind

This project took the concept of “outrospection” as its starting point: it was initially proposed by philosopher Roman Kznic, who stated that in order to know oneself one must live towards the outside. Daniel took this idea and related it to out-of-body experiences, trying to represent in a metaphorical way the mind being projected inwards out of the body, as a way of self-expression and representation.

Daniel Ramos Obregón

Was born on 18th September 1988
He is Colombian





LUCID DREAM N. 19

Atmospheric re-entry

The head/body pieces of Maiko explore the conditions and forms of the ethereal. Starting from the simple question of what it would feel like to wear a cloud, Maiko has created a series of sculptural pieces that blur the boundaries of surrounding space for the wearer and seek to transcend the traditional expectations of headwear. The aesthetics of the collection is inspired by the futuristic mood of sound and imagery taken from Robert Wilson's 1976 production of Philip Glass' opera "Einstein on the Beach", which Maiko saw in London in March 2012.

Maiko Takeda

Was born on 10th July 1986
She is Japanese





LUCID DREAM N. 20

PS:0.3

Ian's work is focused on the possible manifestations of the varying stages of dysmorphia, focusing on the traits which cause the Proteus Syndrome disease. Each piece expresses a different element of the disease and the collection as a whole represents the entire syndrome. The pieces play with preconceptions in order to reach a level of understanding while at the same time acting as a form of medical documentation through the use of material relevance and product. Each element of the making process is documented and relayed to the viewer through a bespoke scent.

Ian Waller

Was born on 27th January 1985
He is British





LUCID DREAM N. 21

From 0° to 90°

Anuk's collection was influenced by ballet and fencing. There might not be an obvious connection at first sight, but ballet was originated as a dance interpretation of fencing in the 15th century. The pieces merge the ballet pointes and the fencing swords in a series of designs that were interpreted in a range of heel heights expressed in degrees rather than centimeters: from 0° - flat shoe - to 90° - high heel. The designs are modular and consist of solid 3D printed toe cups and removable inner socks.

Anuk Yosebashvili

Was born on 14th February 1985
She is Israeli





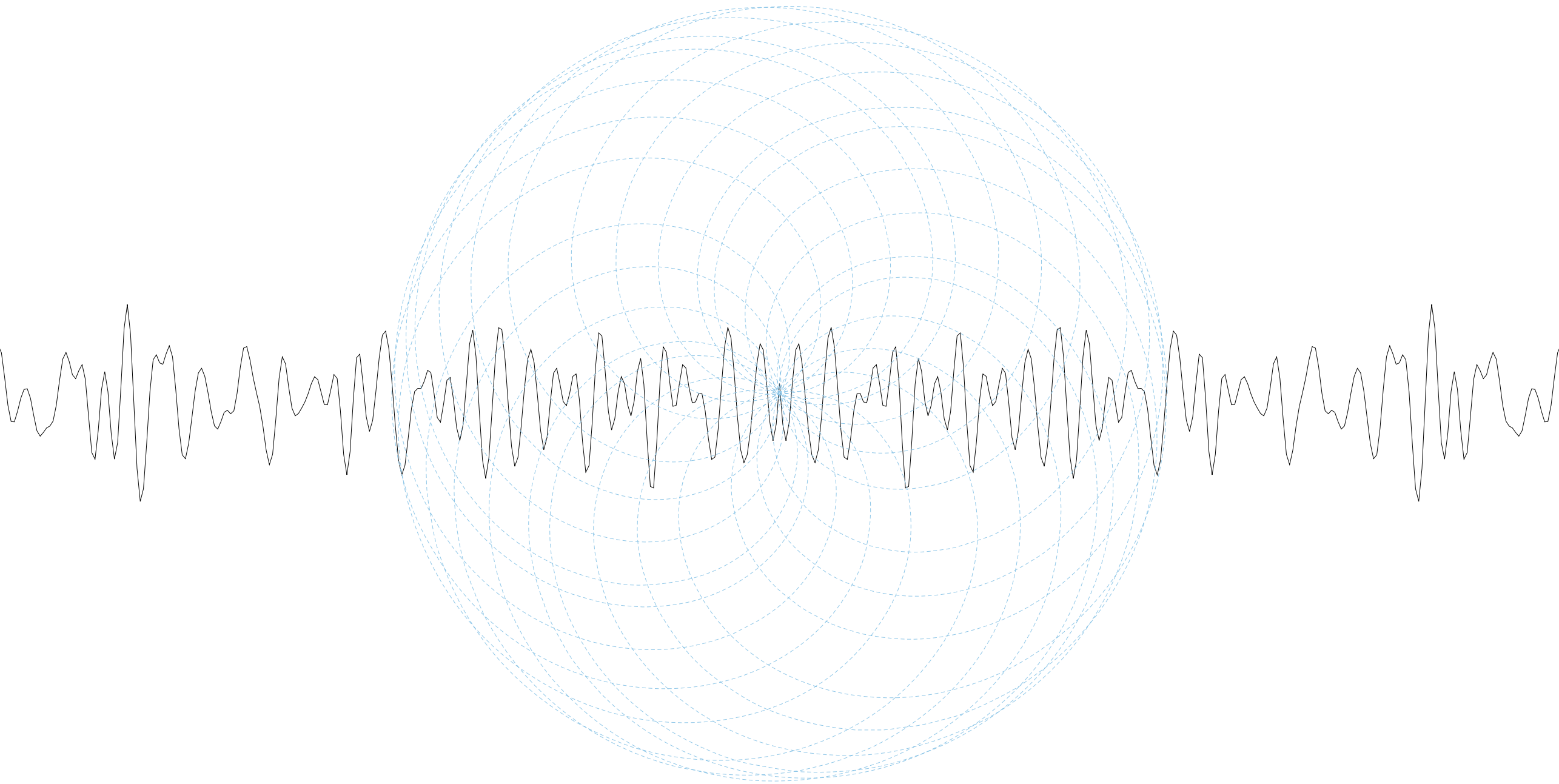
LUCID DREAM N. 22

Eulipion collection by Leonard Kahlcke
Leonard won Accessories Collection of the Year 2013

This is a work suspended in time, a collection that remains unfinished. Leonard started the concept and design work in London and developed the lasts in Vienna and the accessories in Frankfurt. The collection comprises a reformed Viennese shoe last - developed taking into account the regional look - and a sleek elegant last which characterises Leonard's brand identity. Both incorporate his idea of man and a modern philosophy of correct fit.

Leonard Kahlcke

Was born on 30th May 1975
He is German



III: ARTWORK III: ARTWORK

DREAM CHARACTER 6

Carlo Giordanetti
(Creative Director SWATCH)



He says:

Swatch is joining ITS for the second time, this 2014 edition being the launch of ITS ARTWORK; a different take and a new challenge for the amazing talents that gather in Trieste every year for a celebration of creativity, youth and beauty. Swatch has been defined many times as "the biggest art gallery in the world": its more than 30-years-history of collaboration with the worlds of design and the arts in a broader sense (from fashion to movies, from music to cooking, from sculpting to painting to cartoons) is an unprecedented phenomenon not only in the watch market, but in the world of lifestyle accessories in general.

Swatch was able to redefine the watch as something whose role in society goes well beyond telling time - a statement of taste and up-to-date sensibility in a continuous and ongoing search for newness and innovation, with an eye always closely linked to its DNA of "joie de vivre", positive provocation, sense of humor and 'the innocence of a six-year-old'. And with a consistent and always real "democratic" positioning.

To ITS ARTWORK 2014 finalists, Swatch offers the opportunity to depict and represent their own point of view on the brand: we are not asking for a specific product, but for an open and imaginative world represented through a mix of materials, techniques, images and original creations. They are asked to tell us a story - and they could even choose to do so from the perspective of a character to "impersonate" ... one could tell the story from the perspective of a romantic princess, an eco-warrior, a mad scientist or a pastry chef. We want them to make us dream! We want to fall in love!

We can't wait to be in Trieste and experience the energy that every ITS moment brings along - the mix of cultures, the mix of people, the passion for creative work, the curiosity, the amusement, the emotions - this is what makes ITS so special, this is what drives the Swatch spirit.

In all these years we have found out that besides their skills and technical knowledge the ideas and visions of young designers are remarkable and unique. **ITS ARTWORK** is a brand new contest for 2014 in partnership with Swatch and looks for what is in their minds and in their hearts. 10 finalists were chosen among the designers who applied to ITS 2014 in ITS FASHION, ITS ACCESSORIES or ITS JEWELRY. The content of their portfolios and what lies behind it was evaluated and the selected finalists were given the possibility of depicting and representing their own point of view on the brand Swatch.

They were requested to give their own "representation" of the world of Swatch through their eyes, with no limits nor boundaries, made of materials, images, pictures, drawings and words, dimensional and intriguing, a world to be discovered and be enchanted by - through multimedia artwork whose only requirements were the following: a size of 150x150 cm and the inclusion of 3D elements (materials, swatches, products, etc...). The jury will judge the artworks with regard to their overall aesthetics, the ability to express something new and inventive, and consistency with the brand's DNA.

The winner of the **SWATCH AWARD** will receive €10,000 + a remunerated internship at the Swatch Creative Lab.





LUCID DREAM N. 23



I ask: "What's your favourite colour?"
He says: "Green, Red"

"What's your favourite country?"
He says: "Finland's Lapland"

"What's your favourite fruit?"
He says: "Banana"

"What's your favourite pet?"
He says: "None..."

Takafumi Arai

Was born on 15th May 1983
He is Japanese

Bezeichnung der Elektronenzustände eines Atoms

Die Gesamtheit aller Elektronen, die die gleiche Hauptquantenzahl n besitzen, bilden eine Elektronenschale. Die Schalen werden mit großen Buchstaben bezeichnet:

Hauptquantenzahl n	1	2	3	4	5	6	7
Höchste Zahl der Elektronen in der n -ten Schale ($2n^2$)	2	8	18	32	50	72	98
Symbol für die n -te Schale	K	L	M	N	O	P	Q

Für jedes n kann die Drehimpulsquantenzahl l die Werte von 0 bis $n-1$ annehmen. Jedem l entspricht eine Untergruppe, eine Unterschale. Die Höchstzahl der Elektronenzustände in einer Unterschale ist gleich $2 \cdot (2l + 1)$. Die Unterschalen tragen die kleinen Buchstabenbezeichnungen:

Drehimpulsquantenzahl l	0	1	2	3	4	5
Höchste Zahl der Elektronen in der l -ten Schale	2	6	10	14	18	22
Symbole der Unterschale	s	p	d	f	g	h

Zur Bezeichnung einzelner Orbitale werden im allgemeinen die Hauptquantenzahl und das Symbol für die Drehimpulsquantenzahl verwendet. Man spricht von einem $1s$, $2p$, $3d$ -Orbital usw. Ein Elektron, das etwa durch einen $2p$ -Orbital beschrieben wird, nennt man ein $2p$ -Elektron.

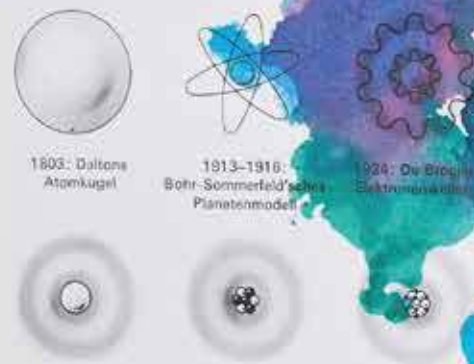


Abb. 4: ATOMMODELLE

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nium) vorausgesagt werden. Als Kriterium für die Reihenfolge der Elemente im periodischen System wurde von Meyer und Mendelejew noch das Atomgewicht verwendet. Heute verwenden wir die sog. Ordnungszahl, eine Zahl, die angibt, wieviele positive Ladungen (oder Protonen) im Atomkern vorhanden sind (→ Kästchen S. 186).

In der heute gebräuchlichsten Form des periodischen Systems wird eine horizontale Reihe als Periode bezeichnet (→ S. 176). In den senkrechten Reihen stehen sogenannte Gruppen, d.h. Elemente mit ähnlichen chemischen und physikalischen Eigenschaften. Die aus praktischen Gründen getrennt erscheinenden Elemente – die sogenannten Lanthanide, eine Gruppe von Elementen mit ähnlichen Eigenschaften – sollten der Ordnungszahl entsprechend in die sechste Periode in der Mitte eingesetzt werden. Für die Actinide gilt das gleiche in Bezug auf die 7. Periode.

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Das Kernmodell des Atoms

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Die Elementarteilchen der negativen Ladung wurden gegen Ende des 19. Jahrhunderts in Kathodenstrahlen von P. A. Leclard und anderen gefunden. J. J. Thomson gab ihnen den Namen Elektronen. Diese Elektronen haben eine Ladung von $e = 1,602 \cdot 10^{-19} \text{ C}$ (Coulomb) und eine Masse von $9,106 \cdot 10^{-31} \text{ g}$ (Gramm), d. h. eine Masse, die 1837 mal kleiner ist als die eines Wasserstoffatoms (→ Kästchen S. 191).

Neben der Entdeckung des Elektrons lieferte der von Rutherford 1911 durchgeführte Streuversuch (→ Abb. 6) weitere Aufschlüsse über den Aufbau: Eine dünne Metallfolie von etwa 0,0005 cm Stärke (was ca. 2000 Atomlagen übereinander entspricht) wird mit α -Strahlen (doppelt positiven Helium-Atomkernen) beschossen. Dabei stellt sich heraus, daß die meisten α -Teilchen praktisch unbeeinflusst die Metallfolie pas-

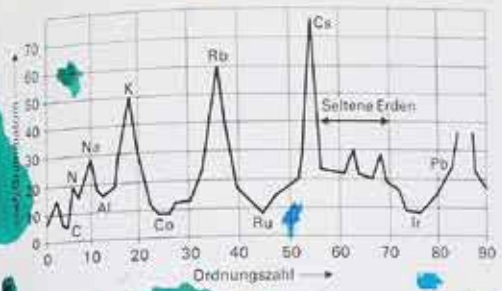


Abb. 5: ATOMVOLUMINA in Abhängigkeit von der Ordnungszahl eines Elementes im Periodensystem (nach Christen)

sieren, während einige wenige stark abgelenkt werden. Rutherford deutete die Ergebnisse so, daß die Atome der Metalle aus einem zentralen Kern bestehen, um den die starke Ablenkung bewirkenden α -Teilchen durch »Zentren« erfolgt, die weit auseinander liegen.

Die weitere Auswertung führt zum Kernmodell des Atoms. Die Atome bestehen aus einem positiv geladenen Atomkern und der Atomhülle aus Elektronen. Der Atomkern, der im wesentlichen aus den positiv geladenen Protonen (Wasserstoffatomkern) und den fast massengleichen Neutronen besteht (→ Kästchen S. 192), hat eine Ausdehnung von etwa einem Billionstel Millimeter, während der Durchmesser der Atome in der Größenordnung von einem zehnmillionstel Millimeter liegt. Denkt man sich zum Vergleich das Gesamtatom als eine Kugel von einem Kilometer Durchmesser, dann hat der Atomkern nur die Größe eines Daumennagels.

Das Bohr-Sommerfeldsche Atommodell

Damit die Elektronen aufgrund der Kern-Elektronen-Anziehung nicht in den Kern hineinstürzen, muß im Rutherford'schen Atommodell angenommen werden, daß analog der Planetenbewegung um die Sonne die Elektronen in dauernder Bewegung um den Kern sind. Eine solche Bewegung steht jedoch im Widerspruch zur klassischen Elektrodynamik, wonach ein kreisendes geladenes Teilchen fortwährend Energie in Form von elektromagnetischen Wellen verliert, d.h. durch ein Elektron in Bewegung könnte im Rahmen der klassischen Physik der Kollaps des Atoms nicht verhindert werden.

Der dänische Physiker Niels Bohr (→ Abb. 3) löste dieses Problem für das H-Atom, wie weitand Alexander der Große den gordischen Knoten: er setzte sich über die herkömmlichen Lösungsmethoden hinweg, indem er die Axiome (Grundgesetze) der klassischen Physik zum Teil durch ihre widersprechende Postulate ersetzte.

1. **Postulat:** Das Elektron bewegt sich in stabilen Kreisbahnen um den Atomkern. Es sind jedoch nur solche Bahnen erlaubt, bei denen der Bahndrehimpuls des Elektrons ein ganzzahliges Vielfaches n von $h = h/2\pi$ (h = Plancksches Wirkungsquantum → S. 114) ist.
2. **Postulat:** Solange das Elektron auf einer solchen Bahn umläuft, strahlt es keine Energie ab. Jede Bahn gibt einen stationären Zustand des Elektrons im Atom wieder. Die stationären Zustände werden durch die Zahl n (Hauptquantenzahl) charakterisiert, das heißt, jedem Wert von n entspricht ein möglicher Energiezustand des Elektrons im Wasserstoffatom.



Abb. 7: KLASISCHE MODELLVORSTELLUNG vom Aufbau der Atome (H = Wasserstoff, Li = Lithium, und Na = Natrium-Atom) Darunter das Bohrsche Modell des Uran-Atoms

3. **Postulat:** Das Atom absorbiert oder emittiert Energie in Form von Strahlung nur beim sprunghaften Übergang des Elektrons von einer in eine andere Bahn. Es gilt für die Frequenz ν der emittierten oder absorbierten Strahlung die fundamentale Beziehung

$$h \cdot \nu = E_n - E_m = \Delta E,$$

wobei ΔE die Energiedifferenz zwischen den Energiezuständen E_n und E_m der betreffenden Bahnen ist.

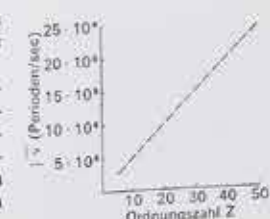


Abb. 8: MOSELEY-BEZIEHUNG zwischen der Frequenz charakteristischer Spektrallinien und der Ordnungszahl Z (→ Kästchen S. 186)

Bezeichnung der Elektronenzustände eines Atoms

Die Gesamtheit aller Elektronen, die die gleiche Hauptquantenzahl n besitzen, bilden eine Elektronenschale. Die Schalen werden mit großen Buchstaben bezeichnet:

Hauptquantenzahl n	1	2	3	4	5	6	7
Höchste Zahl der Elektronen in der n -ten Schale ($2n^2$)	2	8	18	32	50	72	98
Symbol für die n -te Schale	K	L	M	N	O	P	Q

Für jedes n kann die Drehimpulsquantenzahl l die Werte von 0 bis $n-1$ annehmen. Jedem l entspricht eine Untergruppe, eine Subschale. Die Höchstzahl der Elektronenzustände in einer Subschale ist gleich $2 \cdot (2l + 1)$. Die Subschalen tragen die kleinen Buchstabenbezeichnungen:

Drehimpulsquantenzahl l	0	1	2	3	4	5
Höchste Zahl der Elektronen in der l -ten Schale	2	6	10	14	18	22
Symbole der Subschale	s	p	d	f	g	h

Zur Bezeichnung einzelner Orbitale werden im allgemeinen die Hauptquantenzahl und das Symbol für die Drehimpulsquantenzahl verwendet. Man spricht von einem $1s$, $2s$, $2p$ -Orbital usw. Ein Elektron, das etwa durch einen $2p$ -Orbital beschrieben wird, nennt man ein $2p$ -Elektron.

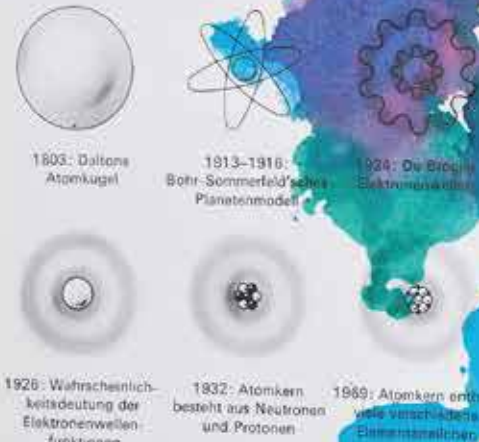


Abb. 4: ATOMMODELLE

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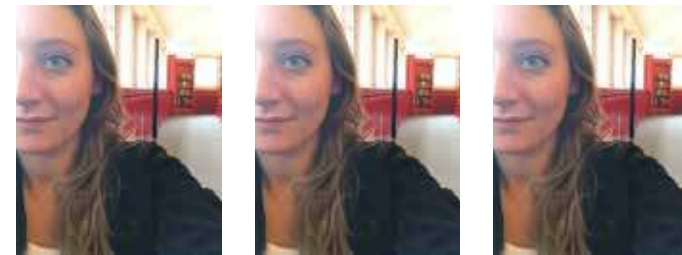
Abb. 5: ATOMVOLUMINA IN ABHÄNGIGKEIT VON DER ORDNUNGSZAHLEINES ELEMENTES IM PERIODENSYSTEM (NACH CHRISTEN)

sierten, während einige wenige stark abgelenkt wurden. Rutherford deutete die Ergebnisse so, daß die Atome der Metall-



Abb. 6: RUTHERFORD'SCHES MODELL

LUCID DREAM N. 24



I ask: "What's your favourite colour?"

She says: "Blue"

"What's your favourite country?"

She says: "India"

"What's your favourite fruit?"

She says: "Strawberry"

"What's your favourite pet?"

She says: "Cat"

Katharina Baur

Was born on 22th October 1981

She is German

Aufbau der Atome (atrium-Atom)

mittiert Energie in
ften Übergang des
Es gilt für die Fre-
rten Strahlung die

den Energiezustän-
st.

ISELEY-BEZIEHUNG
er Frequenz charak-
Spektrallinien und
ngszahl (→Kästchen



Do you feel this moment?



React on it.



Escape from your reality, in which your time is still running off



Abduct yourself in that moment



Maximize your personal time through perception of that moment.



Do you feel this moment?

React on it.

Escape from your reality, in which your time is still running off

Abduct yourself in that moment

Maximize your personal time through perception of that moment.

LUCID DREAM N. 25



I ask: "What's your favourite colour?"

She says: "At the moment May green. The sort of green with this power of desire to grow."

"What's your favourite country?"

She says: "Sweden, but I was never there - I just 'know' it from the stories of my older brother. In my imagination the nature there is more blueish, as I know it from other countries."

"What's your favourite fruit?"

She says: "Pineapple, because you have to work hard before you get the golden inside and you have a lot of after work with its paring. I like it, that you have to do something, before you can eat it."

"What's your favourite pet?"

She says: "Newfoundlander"

Anna Bornhold

Was born on 9th August 1982

She is German





LUCID DREAM N. 26



I ask: "What's your favourite colour?"
She says: "Red"

"What's your favourite country?"
She says: "Mexico"

"What's your favourite fruit?"
She says: "Mango"

"What's your favourite pet?"
She says: "My dog"

Virginia Burlina

Was born on 13th May 1986
She is Italian



LUCID DREAM N. 27



I ask: "What's your favourite colour?"
She says: "Red, Blue, White and Black"

"What's your favourite country?"
She says: "China, Britain and Japan (I have only been to these countries)"

"What's your favourite fruit?"
She says: "Cherry, Watermelon, Mango and Jackfruit (in my hometown)"

"What's your favourite pet?"
She says: "Cats, Dogs and Falcons (if I can have one as a pet)"

Youmeng Liu

Was born on 19th February 1989
She is Chinese





LUCID DREAM N. 28



I ask: "What's your favourite colour?"
They say: "Red"

"What's your favourite country?"
They say: "Italy"

"What's your favourite fruit?"
They say: "Mandarin orange"

"What's your favourite pet?"
They say: "Goldfish"

Ryota & Chiaki Murakami

Ryota was born on 30th June 1988 and Chiaki was born on 25th May 1958
They are Japanese







LUCID DREAM N. 29



I ask: "What's your favourite colour?"
She says: "Color rainbow"

"What's your favourite country?"
She says: "Japan"

"What's your favourite fruit?"
She says: "Guava"

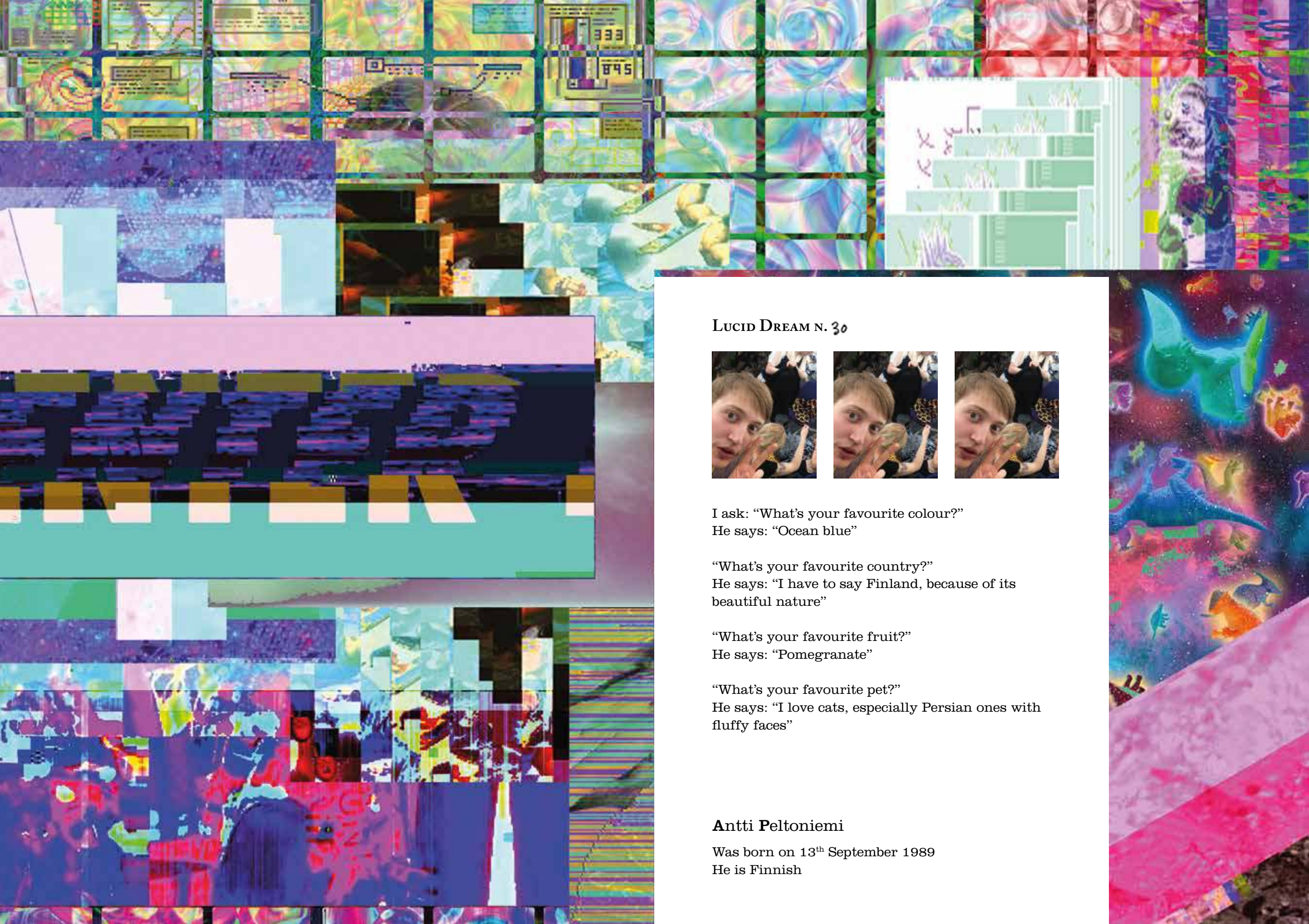
"What's your favourite pet?"
She says: "Dog (flat coated retriever)"

Noriko Nakazato

Was born on 5th March 1988
She is Japanese







LUCID DREAM N. 30



I ask: "What's your favourite colour?"
He says: "Ocean blue"

"What's your favourite country?"
He says: "I have to say Finland, because of its beautiful nature"

"What's your favourite fruit?"
He says: "Pomegranate"

"What's your favourite pet?"
He says: "I love cats, especially Persian ones with fluffy faces"

Antti Peltoniemi

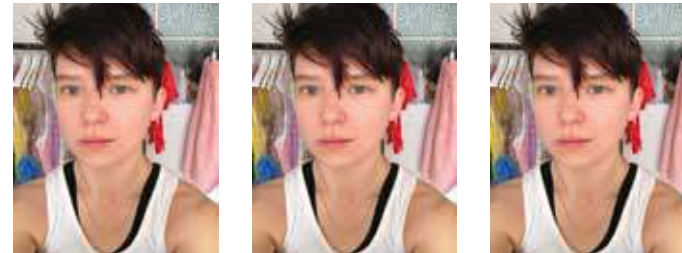
Was born on 13th September 1989
He is Finnish







LUCID DREAM N. 31



I ask: "What's your favourite colour?"
She says: "Yellow"

"What's your favourite country?"
She says: "Sweden"

"What's your favourite fruit?"
She says: "Apple"

"What's your favourite pet?"
She says: "Giraffe"

Jannike Sommar

Was born on 2nd September 1987
She is Swedish





LUCID DREAM N. 32



I ask: "What's your favourite colour?"

He says: "I do not have only one favourite colour. I like all colours in the world. But If I must choose, I like yellow from light tone to deep tone. Yellow makes me cheerful, active and mysterious. And yellow is not very popular compared with blue, red, black, white and so on. This is also the reason I choose yellow."

"What's your favourite country?"

He says: "My favourite country is Japan. Because I have never been abroad."

"What's your favourite fruit?"

He says: "Oranges and grapefruits. I like all the citrus fruits"

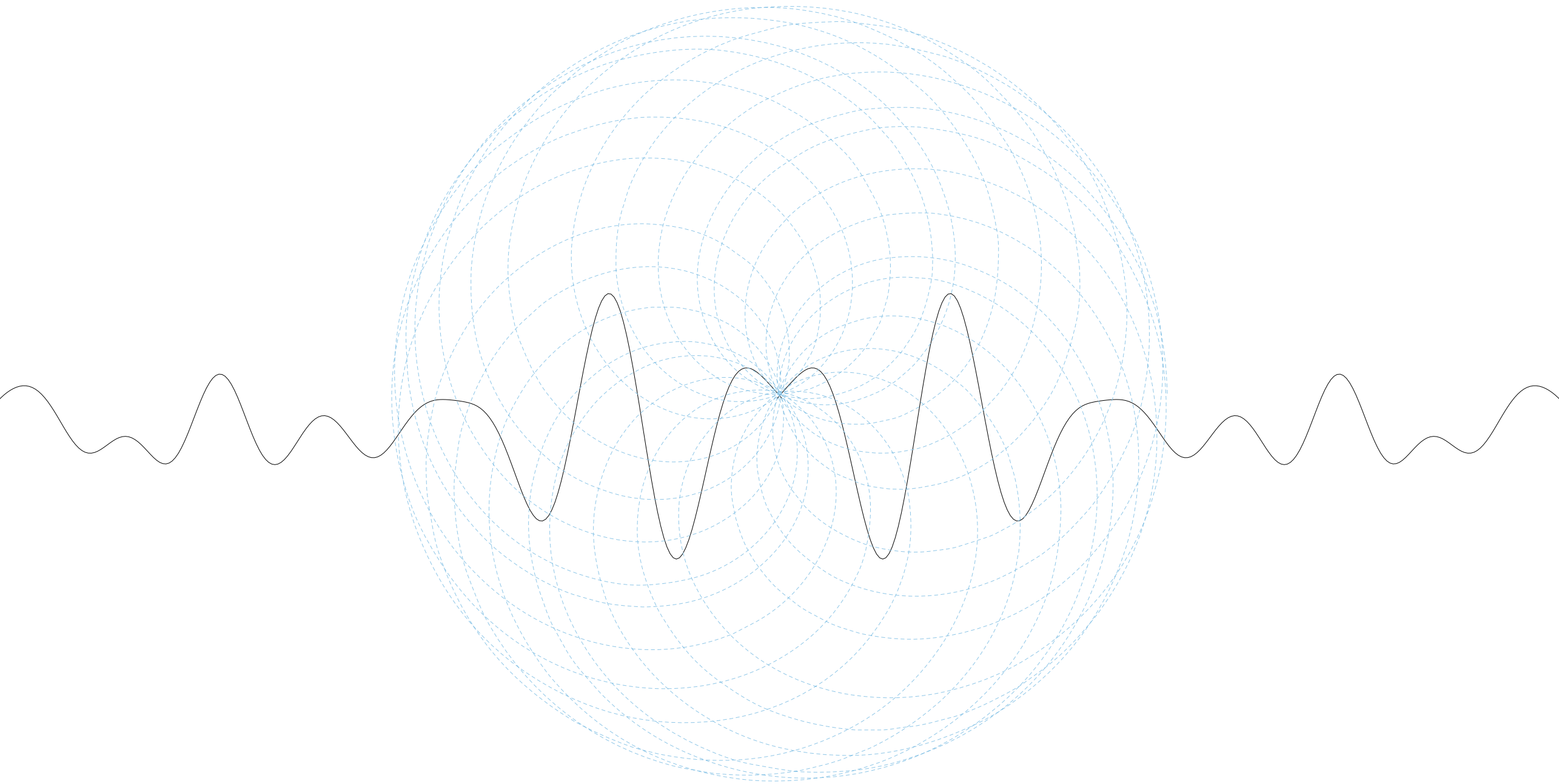
"What's your favourite pet?"

He says: "Dog"

Shinji Tokuno

Was born on 8th February 1988

He is Japanese



IV: JEWELRY

IV: JEWELRY



DREAM CHARACTER 7

Ute Schumacher

(Vice President Design Center Headquarter
Swarovski Professional)

She says: *Swarovski is proud to continue its support for emerging young design talent at ITS 2014.*

The competition inspires and gives opportunity to young designers around the globe to present their work and have it evaluated by leading professionals in their chosen field.

With a strong dedication to shared creative goals, Swarovski considers the International Talent Support as the perfect platform for supporting creative minds and is pleased to continue as the main partner for ITS JEWELRY in 2014.

Swarovski believes this initiative acts as an important driving force in creating momentum and aid in the emergence of the raw talent so essential to the vitality and diversity of the fashion jewelry industry.

Launched in 2011, ITS 2014 will feature the jewelry competition in partnership with Swarovski, the premium brand for the finest crystal elements since 1895, providing all jewelry finalists with Swarovski crystals for their special projects.

If there is a field in the fashion world where young talents are almost completely unknown, this is certainly jewelry. There is an incredible amount of young jewelry designers out there - coming from dedicated schools, specialised courses, or just as independent designers - working on their own small productions or hoping to be supported and chosen to work for big brands. **ITS JEWELRY** is meant to highlight the most promising among them providing the biggest possible support and visibility and offering internship and job opportunities.

The 10 finalists selected among entries coming from 33 different countries represent at its best the use of creativity in contemporary jewelry design. They will present a main collection - which in many cases is their final year graduation project - together with the Special Project exclusively developed for Swarovski. The goal is to create new concepts of crystal jewelry using Swarovski crystals. All contestants were required to present a special project for Swarovski by thinking of raw, sophisticated, wild, tame, nomadic, layering, textured surfaces, print, new materials, crystal. Swarovski provided a special selection of colors and shapes from which the participants were free to choose for their designs.

Finalists will compete for the **SWAROVSKI JEWELRY AWARD**. The winner will receive a cash prize of €10,000 + a 6-month internship.





LUCID DREAM N. 33

Digital deco

Inspired by New York Art Deco, this collection evidences an equivalent mergence of man and machine in a current Digital Age through the use of advanced computer software design and production tools, combined with artisan techniques. In her pieces angels transform, reflections are bouncing, sources of light are playing through the structures creating short-lived shadow patterns on the surface in a parametric balance where the delicate seeks the raw.

Annie Berner

Was born on 10th July 1990
She is Norwegian





LUCID DREAM N. 34

Grey area

This collection aims at illustrating androgyny through the association and fusion of contrasting materials. The ambiguity of androgyny is expressed through the experimentation of materials associated with both female and male sensibilities. Geometric shapes and volumes are adopted for the silhouettes of Niloufar's designs, referencing the details of traditional tailored suits, now regularly fashioned for both men and women. The designer wanted to create harmony or a hybrid of both sexes in her jewelry.

Niloufar Esfandiary

Was born on 28th June 1990
She is Swiss





LUCID DREAM N. 35

Pictorial objects

The human brain has the ability to select the information coming through the eyes to prevent itself from being exposed to a huge amount of data. Junko's concept is based on this principle: the human eye is instructed to be down to earth. The research that led to her collection started from her personal experience of a beautiful vision seen without contact lenses and explores the relationship between sight and space.



Junko Kurihara

Was born on 4th October 1990

She is Japanese





LUCID DREAM N. 36

Winter garden

Olga and Rok found inspiration in winter gardens with their frozen flowers and branches and in animal skeletons with their everlasting beauty. The other artistic influence was the poetry of Pablo Neruda. Earrings, bracelets and necklaces bear organic, realistic floral motifs, frozen in ice. Roses, flowerpots, twigs and leaves are composed to create flowing earrings. Due to their material (polyamide) the earrings easily hang on the side of the face drawing organic shades on it.

Olga Košica & Rok Marinšek

Olga was born on 29th June 1974 and Rok was born on 28th April 1977
They are Slovenian





LUCID DREAM N. 37

Japan as n°1

Japan has always been renowned internationally for technology. Especially in the 1980s it led the world in this field with a number of important achievements. Noriko's jewelry pieces are developed the old-fashioned way and intend to be a new point of view on this golden age, giving happiness to the wearer.

Noriko Nakazato

Was born on 5th March 1988
She is Japanese





Charles
Dickens

BY
PAUL DON SMITH





LUCID DREAM N. 38

Fiesta

These pieces capture the spirit of Latin American celebrations. Francine combined thread with cardboard, questioning the ideas of value and luxury in a world where these two concepts are socially relevant. Some are covered in gold leaves, referencing traditional jewelry materials and the notions of power behind them. Domination has shaped Latin American culture and still has a significant impact on today's economies. "Fiesta" represents this complex cultural map: colourful celebrations, povera jewelry and the role of gold in a context of multiple socioeconomic challenges.

Francine Oeyen

Was born on 25th August 1984
She is Belgian







LUCID DREAM N. 31

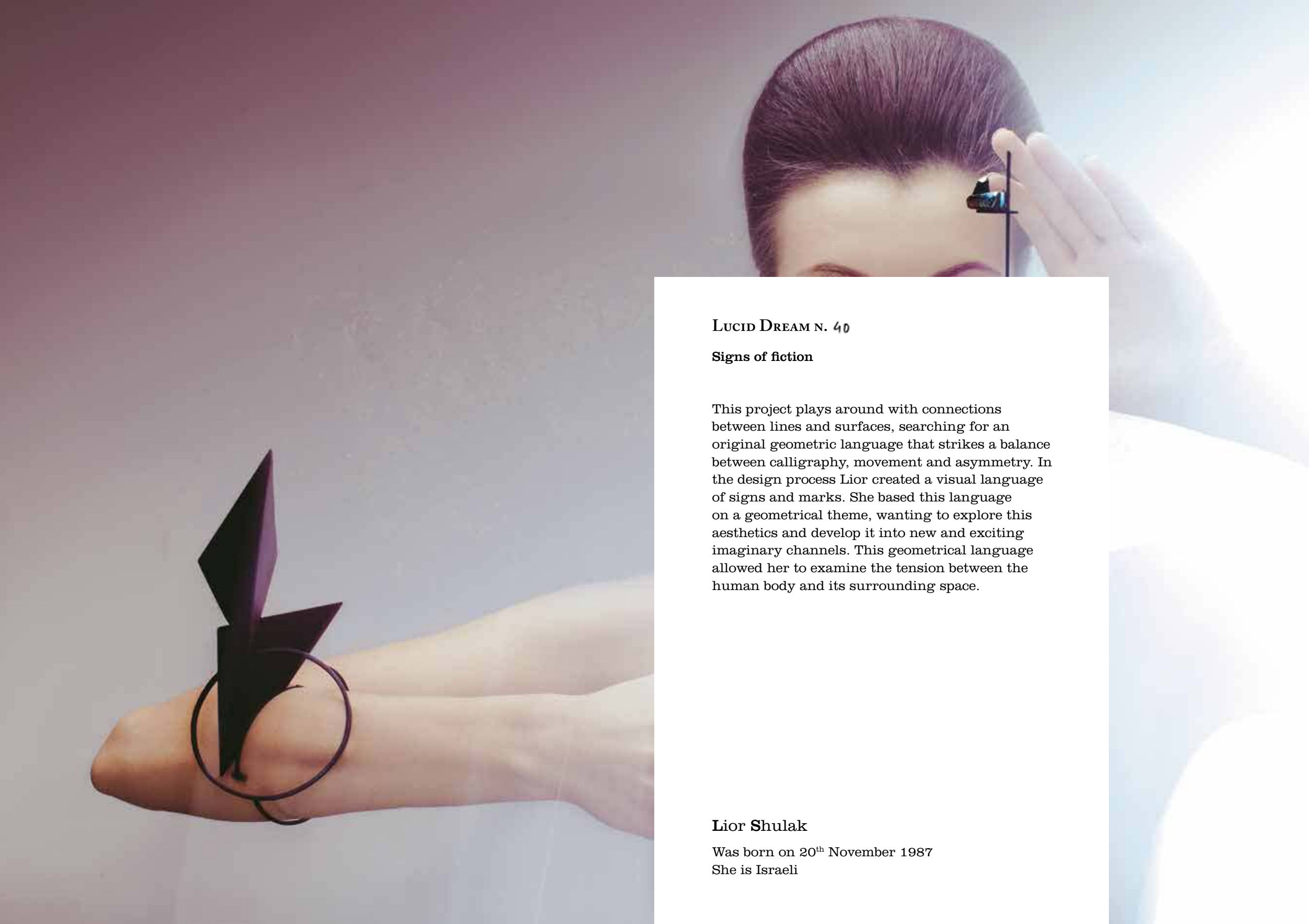
Remains

Chen researched the repetitive and modular relationship existing between vertebrates and was also inspired by the structure of the bodies of insects. She interpreted this aspect through different jewelry components made of silver, brass, okolon (a type of polymer) and color. It resulted in objects that are characterized by weightlessness despite their actual size.

Chen Sahar

Was born on 19th January 1985
She is Israeli





LUCID DREAM N. 40

Signs of fiction

This project plays around with connections between lines and surfaces, searching for an original geometric language that strikes a balance between calligraphy, movement and asymmetry. In the design process Lior created a visual language of signs and marks. She based this language on a geometrical theme, wanting to explore this aesthetics and develop it into new and exciting imaginary channels. This geometrical language allowed her to examine the tension between the human body and its surrounding space.

Lior Shulak

Was born on 20th November 1987
She is Israeli





LUCID DREAM N. 41

Airborne

The collection investigates how air influences the form of a wearable object. Some pieces use enclosed air, some use the movement of air, and some use the static of air. They invite the viewer or wearer to discover the changes and take part in the performance. Using just air, plastic and metal Stéphanie developed her pieces through laser soldering, saw piercing, heat sealing and impulse sealer machine to seal the plastic parts.

Stéphanie Van Zwam

Was born on 26th December 1989
She is French





LUCID DREAM N. 42

Splash

Beau's starting point was a simple splash of water. The minute he saw it on the human body he realised how natural and unique it could be. He also started thinking what it would feel like to have a diamond splash on the skin. This inspired him to use the latest technologies and materials to catch the beauty of the splash moment and freeze it in time.

Beau Han Xu

Was born on 19th June 1990
He is Chinese



SPECIAL PROJECT SPECIAL PROJECT

Samsung GALAXY Award

Supporting young talents and encouraging them to create what enhances people's lives is the reason why ITS has partnered with Samsung Mobile, a brand that is leading the mobile device industry with its pursuit of technological innovation and lifestyle enrichment.

As an everyday companion, a mobile device can be fashionably stylized for enhanced personal expression. The **Samsung GALAXY Award** gives young talents the opportunity to creatively blend technology with fashion, accessories and jewelry design. Ten finalists have been selected from ITS FASHION, ITS ACCESSORIES and ITS JEWELRY to present three proposals of a prototype to protect and carry the new Samsung GALAXY Tab S. The conceptual designs and sketches were drawn using the provided Samsung tablets and their S Pen and there were

no limitations around what the final prototype could be - a cover, a case, a bag or anything else that the finalists' creativity would inspire. In the use of materials, the only requirement was to use DIESEL denim fabric, possibly paired with other fabrics free of choice and subsidiary materials.

The final prototypes will represent the union of innovative form and unique design that will enhance the exceptional experience of using Samsung mobile devices.

The finalist who develops the best accessory prototype to protect and carry the Samsung GALAXY Tab S will receive the **Samsung GALAXY Award** of €10,000.

MY DREAM CHARACTERS EXTENSIVE LIST:

EVE STAFF for ITS 2014

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Sergio Drioli - Vice Director
Michele de Facchinetti - Art Director & Organization Office
Giulia and Aldo Lonciari - Accounting Office
Fabrizio Bressan - Head of Administration Office and Production
Lorenzo Mocarini - Assistant to Administration Office and Production
Michele Colucci - PA to Director
Cristina Cinque - Assistant to Director PA
Fabio Bressan - Creative Director & Video Maker
Giada Mihelic - Head of Multimedia Office
Giulio Dambrosi - Multimedia Office
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