

Future Factory

The Design Museum, London

● Symposium

Friday, 30.11.2018

13:30 – 17:30

● Workshop

Saturday, 01.12.2018

13:00 – 17:00

What are the environmental challenges facing manufacturing today? How can we design more sustainable forms of production at a local and global scale? Could organisms and non-human agents become the next makers? And what material futures should tomorrow's factories create?

Whether through the excesses of plastic pollution or the burning of fossil fuels, our existing modes of production have unimaginable effects on the planet. And whilst factories have been major causes of these challenges, they have also been affected by them. Traditional forms of making are being lost due to climate change; workers are facing precarious working conditions and material scarcity is making existing infrastructure obsolete.

Over the course of two days, Future Factory brings together leading designers and theorists to explore how production might be re-designed for the future. Focusing on the potentials of bio-technology, living systems and new materials, this event will discuss a range of case-studies for possible future factories at local and industrial scales, with a focus on environmental sustainability.

Programme

● Future Factory Symposium

Friday, 30.11.2018 13:30–17:30

A programme of talks and discussions with leading designers and material researchers on sustainable production for the 21st century, chaired by Professor Carole Collet.

- 13:00 Doors open
- 13:30 Introduction
Professor Carole Collet and Bernard Hay
- 13:40 Ken Webster, former Head of Innovation
Ellen MacArthur Foundation
- 14:15 John Palmesino and Ann-Sofi Rönnskog,
Territorial Agency
- 14:50 Jen Keane, This is Grown
- 15:25 Amy Congdon, Modern Meadow
- 16:00 Markus Kayser, Kayser Works
- 16:35 Maurizio Montalti, Officina Corpuscoli
- 17:10 Q&A
- 17:30 Close

● Future Factory Workshop

Saturday, 01.12.2018 13:30–17:00

Designers and students from the MA Material Futures programme create a series of pop-up future factories within the Design Museum. Exploring topics ranging from bio-hacking to automation, participants are invited to stop at each factory to learn about alternative modes of production. The workshop preparation was facilitated by Course Leader Kieren Jones, Year Leader Marta Giralt and Visiting Tutor Attua Aparicio from MA Material Futures.

Speaker Biographies

● Markus Kayser (Kayser Works)

Markus Kayser is a German designer and the founder of Kayser Works. Kayser's research spans widely across disciplines, ranging from studying swarm behaviour in insects to using the Sun's rays to 3D print glass objects from raw desert sand. His work challenges rigid design and fabrication conceptions by deploying raw energy and materials, biological systems, and technology to develop new forms of making. Markus Kayser holds a PhD from the Massachusetts Institute of Technology's Media Lab, where he conducted research in The Mediated Matter Group. Prior to this, Kayser received his MA from the Royal College of Art in London, UK in the faculty of Design Products, and a Bachelor's degree in Furniture and Product Design from the London Metropolitan University, UK.

● Jen Keane (This is Grown)

Jen Keane is a designer and creative researcher working at the intersection of design and science, technology and craft. Inspired by notions of sustainability, and a fascination with new digital and biological tools, she is exploring how new technologies could be employed to design a new generation of hybrid materials, and perhaps change our approach to making altogether. A recent graduate of the MA Material Futures programme at Central Saint Martins in London UK, Keane previously worked for the German sportswear brand adidas in materials design, development and innovation strategy. Holding a Bachelor of Science in Fibre Science and Apparel Design from Cornell University, NY USA she takes a cross-disciplinary approach to material design and believes that a closer dialogue between science, design and industry is essential in bringing real change to our material value systems and means of production.

Speaker Biographies

● Amy Congdon (Modern Meadow)

Amy is a designer, researcher and critical thinker who explores the boundaries between design, science, and technology. Congdon's formal art school education saw her specialise in textiles, yet her work straddles material design and innovation, through to scientific practice. She has worked within laboratories, such as the Tissue Engineering & Biophotonics department at Kings College London, and SymbioticA at the University of Western Australia. Amy has exhibited her work internationally in venues such as Somerset House, UK, Pratt Manhattan Gallery, EDF Fondation Paris, Salone De Mobile Milan, The National Centre for Craft and Design, UK and the Victoria and Albert Museum London. Her work has been featured in publications including WIRED, Motherboard, Vogue and in books such as Biodesign by William Myers and Biomimicry for Designers by Veronika Kapsali. In 2016, she was named a Leading Innovator by the UK Craft Council. Amy is currently Team Lead for Materials Design at Modern Meadow and Producer of the annual Biofabricate Summit.

● John Palmesino & Ann-Sofi Rönnskog (Territorial Agency)

John Palmesino and Ann-Sofi Rönnskog are architects and urbanists. They founded Territorial Agency, an independent organisation that combines architecture, analysis, advocacy and action to promote sustainable territorial transformations. Their projects include the Museum of Oil, Anthropocene Observatory, Coast of Europe and North. They teach at the Architectural Association, Goldsmiths and AHO Oslo. Territorial Agency's work has been featured in numerous exhibitions internationally.

Speaker Biographies

● Ken Webster (former Ellen MacArthur Foundation)

Ken is former Head of Innovation at the Ellen MacArthur Foundation, a Visiting Fellow at Cranfield University and Visiting Senior Research Fellow at the University of Exeter. UK. His book *The Circular Economy: A Wealth of Flows* (2nd Edition 2017) relates the connections between systems thinking, economic and business opportunity and the transition to a circular economy. He makes regular contributions to conferences and seminars around the world. His current interests include open vs closed circular economy loops and the relationship between large and small scales and effective economic systems.

● Maurizio Montalti (Officina Corpuscoli)

Maurizio has been one of the early pioneers committed to studying and developing a range of mycelium-based technologies, for the production of natural biomaterials and products. His studio Officina Corpuscoli operates at the junction of design and bio-tech, providing creative consultancy and developing both commissioned and self-initiated projects. He is also the co-founder of Mogu, an innovation-driven, environmentally-conscious company, dedicated to developing, scaling and commercialising different typologies of biomaterials deriving from fungi. Maurizio currently co-heads the MAD Master Materialisation in Art and Design at Sandberg Instituut, as well as teaching in different national and international academies and universities. His work has been honoured with multiple awards, featured widely in the media and exhibited globally.

Organisers

● Bernard Hay & Sevra Davis (The Design Museum)

Bernard Hay is Producer of Adult Learning at the Design Museum, where he manages a programme spanning professional practice, life-long learning, communities and access. Previously he was Producer at the Institute of Art and Ideas, where he co-curated the How-TheLightGetsIn ideas festival, and was editor-in-chief of four by three magazine. He teaches on the MA in Curating Contemporary Design at Kingston University/the Design Museum and is a placement mentor for the MA Museum and Gallery Education programme at the Institute of Education. He holds an MA in Philosophy from University College London and has written on contemporary art, design and critical theory for publications including *The Quietus*, *thisistomorrow* and *Review 31*.

Sevra Davis is Head of Learning at the Design Museum. She leads the strategic direction of the Learning portfolio including programmes for schools, young people and families, further and higher education audiences, as well as lifelong learning. She was previously Director of Design at the globally renowned think tank The RSA where she developed design research and design education programmes focused on design for positive social, environmental and economic impact. She has worked on a number of projects exploring and promoting the journey toward a more sustainable future and a circular economy, including the RSA's Great Recovery project. She also ran the annual RSA Student Design Awards focused on encouraging young designers to apply design thinking and practical design skills to today's most pressing challenges. She has consulted on design for social impact for international government clients and she often speaks on the value of design thinking and a design approach. Sevra trained as an architect and urban designer and spent 10 years working in industry prior to joining the not-for-profit sector.

Organisers

● Bernard Hay & Sevra Davis (The Design Museum)

About Learning at the Design Museum:

The Design Museum's vision is 'for everyone to understand the value of design' and at the heart of this is a notion that design's influence is not only expansive, but also the conviction that an understanding of it as a discipline and societal force will have broad-reaching positive impact. Learning at the museum is therefore concerned with being a catalyst for understanding across age groups and degrees of existing knowledge about design and its impacts. The museum acts as a campus for design education in the twenty first century, harnessing the potential of design to tackle the challenges of today's complex world from local to global. The museum runs programmes, workshops, courses, events and more for a range of audiences including young people and families, school groups, teachers, FE/HE students, lifelong learners and professionals.

Organisers

● Carole Collet (Central Saint Martins, UAL)

Carole Collet is Professor in Design for Sustainable Futures at Central Saint Martins, University of the Arts London where she currently holds two key roles. As CSM-LVMH Director of Sustainable Innovation, she set up Maison/0, an incubator of creative sustainable intelligence, in partnership with the luxury group LVMH. She is also Director of the Design & Living Systems Lab, a research lab which explores the interface of biological sciences and design to propose new sustainable models of biofabrication. As an educator, she has pioneered the integration of sustainability in the curriculum by creating new courses such as MA Textile Futures in 2001 (now Material Futures) and more recently, in 2018, the first MA in Biodesign. In her research, Collet questions the emerging role of the designer when working with biological systems. She has also established an original framework for sustainable biodesign, which was first published with the inaugural curation of Alive, New Design Frontiers (www.thisisalive.com) in 2013. Her work has been featured in international exhibitions and she regularly contributes to conferences on the subjects of biodesign, biomimicry and sustainable futures.

About the Design & Living Systems Lab at Central Saint Martins UAL:

Set up in 2013, this experimental research lab explores the interface of biological sciences and design to challenge established paradigms and propose new sustainable materials and forms of production for the future. The lab's activities range from workshops, exhibition, curation, symposium and publication.

Organisers

● Kieren Jones (Central Saint Martins, UAL)

Kieren is the Course Leader of MA Material Futures at Central Saint Martins, UAL. During his time at Central Saint Martins, Kieren has pioneered the discipline of Material Futures and has created one of the first wholly multi and trans-disciplinary design courses in the UK. Kieren continues to teach and is a visiting lecturer and external examiner to numerous other universities in Europe and the UK. Kieren studied Design Products at the Royal College of Art. His work has been widely exhibited in creative institutions such as Somerset House, the Barbican, the IABR, V&A Museum, MOMA, The British Council, the RSA and the Gwangju Design Biennale curated by Chinese Artist, Ai Weiwei as well as in several International private collections. In 2012 his work was nominated for the Design of the Year Award at the Design Museum and won the Sustain Award from the Royal College of Art the following year. Through his work, Kieren is particularly interested in exploring the notions of amateurism, industry, production and the future of making in the 21st Century. Kieren is also the Co-founder and Creative Co-Director of FACULTY, a multidisciplinary studio with a strong belief in narrative and research-led design.

Organisers

- Kieren Jones
(Central Saint Martins, UAL)
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About MA Material Futures at Central Saint Martins UAL:

Material Futures is where design, science and technology collide. Based at Central Saint Martins, UAL, Material Futures is a two-year Masters course dedicated to exploring how we will live in the future through trans-disciplinary practice and collaboration.

Through expert collaboration, risk-taking and blurring the boundaries between design, science and technology, we aim to look beyond existing disciplines to anticipate our future needs, desires and challenges for the 21st century.

We believe that it is only by observing and analyzing how we live today that we can begin to explore how we might occupy tomorrow. Considering the current and future context of design decisions is key to our ethos, combining social, political, scientific and economic inquiry and insights to help inform future design scenarios and research-led speculations.

Future Factory
The Design Museum, London

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@materialfutures

the
DESIGN
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ual: central
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